



THE HEART OF FRESHNESS

SEMI-HERMETIC

# RECIPROCATING COMPRESSORS

MULTIPLE COMPRESSOR UNIT

ORIGINAL MANUFACTURED EQUIPMENT

MultiPAC



Watch BITZER video



Version 50Hz



## PRODUCTS SPECIFICATIONS

### Multiple Semi-hermetic compressors

The proven series is based on the range of BITZER 2, 4 & 6 cylinder Ecoline semi-hermetic compressors. The package displacement is ranging from 26,8 to 606,4 m<sup>3</sup>/h and of Horse Power (HP) from 4 to 200 HP. Customized versions are available on request.

The multiple compressor packages are manufactured with many advanced features standard and a range of standard options.

### Standard MultiPAC units

- with single 2..4 compressors, custom packages with 5 compressors available on request
- with single stage 2DES-2Y..6FE-50Y
- with 2-stage S4T-5.2(Y) .. S6F-30.2(Y)

### Important features

- ☐ Solid design with compact dimensions
- ☐ Raised compressor mounts for easy service access
- ☐ Energy efficient new BITZER Ecoline compressors
- ☐ Suction gas header with integrated filter design
- ☐ Safety pressure relief valves
- ☐ Oil separator with oil sight glass and service valve
- ☐ Oil return filter with individual oil return stop valves
- ☐ Individual electronic oil management system and high pressure oil return with alarm
- ☐ Increased performance with reduced pipe work
- ☐ Comprehensive application range
  - Refrigerants R134a and R404A. R407C and others available on request
  - High, medium and low temperature applications
- ☐ Maximum allowable pressure 32 bar on discharge
- ☐ Liquid receiver with multiple sight glasses and pressure relief valve
- ☐ Check valve in discharge line
- ☐ Liquid line isolation valves, filter, sight glass, moisture indicator
- ☐ MP54 oil pressure switch (for BE5 or BE6 compressor)
- ☐ High Pressure switch per compressor, common Low Pressure switch
- ☐ Pre charged with oil
- ☐ Shipped with a Nitrogen protective holding charge

### Additional features for 2-stage units

- ☐ Oversized suction header for increased flood back protection
- ☐ Individual sub-coolers mounted per compressor with TXV and solenoid valve

### Comprehensive application range

- Refrigerants R134a and R404A. R407C and others available on request
- High, medium and low temperature applications

## Options

- ☐ Water cooled condenser to suit the application
- ☐ Capacity control kit fitted to 4 cylinder and 6 cylinder single stage compressors
- ☐ OLCK optical oil level safety for Octagon compressors
- ☐ High pressure and Low pressure liquid filled pressure gauges with isolation valves
- ☐ Electrical control board complete with PLC controller, run lights and individual alarm lights. (Multiple options available)
- ☐ Optional condenser and evaporator electrical board
- ☐ Head cooling fans
- ☐ Varipack for lead compressor 
- ☐ CM-RC-01 with CRII 

## Performance data

All given values of the cooling capacity (KW) are based on 50 Hz and the European standard EN 12900: suction gas temperature 20°C with no liquid sub cooling. For 2-stage compressors the capacity is based on sub-cooling.

These values show the power consumption of the compressor.



ASERCOM certified compressor data see BITZER Software.



Certified Management System  
DIN EN ISO 9001:2000

Factory ISO9001 Quality Certification.

## Explanation of type designation

Example

**MP** – 203 – K – 4NES – 42

MP – MultiPAC CP - ChillIPAC

**MP** – 203 – K – 4NES – 42

Frame series: 1 = 100 series 2 = 200 series 3 = 300 series 7 = 700 series

**MP** – 203 – K – 4NES – 42

Number of compressors installed

**MP** – 203 – K – 4NES – 42

Operating temperature K = Low / medium temperature (all refrigerant) H = High Temperature

**MP** – 203 – K – 4NES – 42

Compressor mode details

**MP** – 203 – K – 4NES – 42

Total motor nominal horse power



R134a

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond. Temp. °C |     | Cooling Capacity           |       | Q <sub>o</sub> [kW] | Total Heat Rejection |       | THR [kW] |       |
|-------------------|----------------|-----|----------------------------|-------|---------------------|----------------------|-------|----------|-------|
|                   |                |     | Evaporating Temperature °C |       |                     |                      |       |          |       |
|                   |                |     | 10                         | 5     | 0                   | -5                   | -10   | -15      | -20   |
| MP-102-K-2DES-4Y  | 40             | Q   | 20.48                      | 16.78 | 13.60               | 10.90                | 8.60  | 6.64     | 5.02  |
|                   |                | THR | 24.78                      | 20.90 | 17.46               | 14.48                | 11.84 | 9.54     | 7.56  |
|                   | 50             | Q   | 17.74                      | 14.52 | 11.74               | 9.36                 | 7.34  | 5.62     | 4.18  |
|                   |                | THR | 22.82                      | 19.26 | 16.08               | 13.30                | 10.84 | 8.68     | 6.80  |
|                   | 60             | Q   | 15.06                      | 12.26 | 9.88                | 7.82                 | 6.08  | 4.60     | 3.36  |
|                   |                | THR | 20.78                      | 17.48 | 14.58               | 12.00                | 9.72  | 7.72     | 6.00  |
| MP-103-K-2DES-6Y  | 40             | Q   | 30.72                      | 25.17 | 20.40               | 16.35                | 12.90 | 9.96     | 7.53  |
|                   |                | THR | 37.17                      | 31.35 | 26.19               | 21.72                | 17.76 | 14.31    | 11.34 |
|                   | 50             | Q   | 26.61                      | 21.78 | 17.61               | 14.04                | 11.01 | 8.43     | 6.27  |
|                   |                | THR | 34.23                      | 28.89 | 24.12               | 19.95                | 16.26 | 13.02    | 10.20 |
|                   | 60             | Q   | 22.59                      | 18.39 | 14.82               | 11.73                | 9.12  | 6.90     | 5.04  |
|                   |                | THR | 31.17                      | 26.22 | 21.87               | 18.00                | 14.58 | 11.58    | 9.00  |
| MP-104-K-2DES-8Y  | 40             | Q   | 40.96                      | 33.56 | 27.20               | 21.80                | 17.20 | 13.28    | 10.04 |
|                   |                | THR | 49.56                      | 41.80 | 34.92               | 28.96                | 23.68 | 19.08    | 15.12 |
|                   | 50             | Q   | 35.48                      | 29.04 | 23.48               | 18.72                | 14.68 | 11.24    | 8.36  |
|                   |                | THR | 45.64                      | 38.52 | 32.16               | 26.60                | 21.68 | 17.36    | 13.60 |
|                   | 60             | Q   | 30.12                      | 24.52 | 19.76               | 15.64                | 12.16 | 9.20     | 6.72  |
|                   |                | THR | 41.56                      | 34.96 | 29.16               | 24.00                | 19.44 | 15.44    | 12.00 |
| MP-102-K-2CES-6Y  | 40             | Q   | 25.06                      | 20.58 | 16.74               | 13.44                | 10.64 | 8.28     | 6.30  |
|                   |                | THR | 30.26                      | 25.58 | 21.46               | 17.82                | 14.62 | 11.86    | 9.46  |
|                   | 50             | Q   | 21.80                      | 17.88 | 14.50               | 11.62                | 9.16  | 7.08     | 5.34  |
|                   |                | THR | 27.96                      | 23.64 | 19.82               | 16.46                | 13.50 | 10.90    | 8.66  |
|                   | 60             | Q   | 18.58                      | 15.20 | 12.30               | 9.80                 | 7.68  | 5.88     | 4.36  |
|                   |                | THR | 25.56                      | 21.60 | 18.10               | 14.98                | 12.24 | 9.84     | 7.74  |
| MP-103-K-2CES-9Y  | 40             | Q   | 37.59                      | 30.87 | 25.11               | 20.16                | 15.96 | 12.42    | 9.45  |
|                   |                | THR | 45.39                      | 38.37 | 32.19               | 26.73                | 21.93 | 17.79    | 14.19 |
|                   | 50             | Q   | 32.70                      | 26.82 | 21.75               | 17.43                | 13.74 | 10.62    | 8.01  |
|                   |                | THR | 41.94                      | 35.46 | 29.73               | 24.69                | 20.25 | 16.35    | 12.99 |
|                   | 60             | Q   | 27.87                      | 22.80 | 18.45               | 14.70                | 11.52 | 8.82     | 6.54  |
|                   |                | THR | 38.34                      | 32.40 | 27.15               | 22.47                | 18.36 | 14.76    | 11.61 |
| MP-104-K-2CES-12Y | 40             | Q   | 50.12                      | 41.16 | 33.48               | 26.88                | 21.28 | 16.56    | 12.60 |
|                   |                | THR | 60.52                      | 51.16 | 42.92               | 35.64                | 29.24 | 23.72    | 18.92 |
|                   | 50             | Q   | 43.60                      | 35.76 | 29.00               | 23.24                | 18.32 | 14.16    | 10.68 |
|                   |                | THR | 55.92                      | 47.28 | 39.64               | 32.92                | 27.00 | 21.80    | 17.32 |
|                   | 60             | Q   | 37.16                      | 30.40 | 24.60               | 19.60                | 15.36 | 11.76    | 8.72  |
|                   |                | THR | 51.12                      | 43.20 | 36.20               | 29.96                | 24.48 | 19.68    | 15.48 |
| MP-102-K-4FES-6Y  | 40             | Q   | 27.18                      | 22.08 | 17.76               | 14.12                | 11.04 | 8.48     | 6.38  |
|                   |                | THR | 32.74                      | 27.38 | 22.72               | 18.68                | 15.16 | 12.14    | 9.58  |
|                   | 50             | Q   | 23.30                      | 18.88 | 15.12               | 11.94                | 9.26  | 7.02     | 5.18  |
|                   |                | THR | 29.78                      | 24.90 | 20.62               | 16.90                | 13.64 | 10.82    | 8.42  |
|                   | 60             | Q   | 19.46                      | 15.68 | 12.48               | 9.76                 | 7.46  | 5.56     | 3.98  |
|                   |                | THR | 26.66                      | 22.24 | 18.36               | 14.96                | 11.96 | 9.36     | 7.12  |
| MP-103-K-4FES-9Y  | 40             | Q   | 40.77                      | 33.12 | 26.64               | 21.18                | 16.56 | 12.72    | 9.57  |
|                   |                | THR | 49.11                      | 41.07 | 34.08               | 28.02                | 22.74 | 18.21    | 14.37 |
|                   | 50             | Q   | 34.95                      | 28.32 | 22.68               | 17.91                | 13.89 | 10.53    | 7.77  |
|                   |                | THR | 44.67                      | 37.35 | 30.93               | 25.35                | 20.46 | 16.23    | 12.63 |
|                   | 60             | Q   | 29.19                      | 23.52 | 18.72               | 14.64                | 11.19 | 8.34     | 5.97  |
|                   |                | THR | 39.99                      | 33.36 | 27.54               | 22.44                | 17.94 | 14.04    | 10.68 |
| MP-104-K-4FES-12Y | 40             | Q   | 54.36                      | 44.16 | 35.52               | 28.24                | 22.08 | 16.96    | 12.76 |
|                   |                | THR | 65.48                      | 54.76 | 45.44               | 37.36                | 30.32 | 24.28    | 19.16 |
|                   | 50             | Q   | 46.60                      | 37.76 | 30.24               | 23.88                | 18.52 | 14.04    | 10.36 |
|                   |                | THR | 59.56                      | 49.80 | 41.24               | 33.80                | 27.28 | 21.64    | 16.84 |
|                   | 60             | Q   | 38.92                      | 31.36 | 24.96               | 19.52                | 14.92 | 11.12    | 7.96  |
|                   |                | THR | 53.32                      | 44.48 | 36.72               | 29.92                | 23.92 | 18.72    | 14.24 |
| MP-102-K-4EES-8Y  | 40             | Q   | 34.06                      | 28.00 | 22.82               | 18.38                | 14.64 | 11.46    | 8.82  |
|                   |                | THR | 41.10                      | 34.72 | 29.14               | 24.24                | 19.98 | 16.26    | 13.06 |
|                   | 50             | Q   | 29.52                      | 24.22 | 19.66               | 15.78                | 12.48 | 9.70     | 7.38  |
|                   |                | THR | 37.88                      | 32.02 | 26.84               | 22.30                | 18.30 | 14.82    | 11.82 |
|                   | 60             | Q   | 25.00                      | 20.46 | 16.56               | 13.22                | 10.38 | 7.96     | 5.96  |
|                   |                | THR | 34.50                      | 29.16 | 24.42               | 20.24                | 16.54 | 13.30    | 10.50 |
| MP-103-K-4EES-12Y | 40             | Q   | 51.09                      | 42.00 | 34.23               | 27.57                | 21.96 | 17.19    | 13.23 |
|                   |                | THR | 61.65                      | 52.08 | 43.71               | 36.36                | 29.97 | 24.39    | 19.59 |
|                   | 50             | Q   | 44.28                      | 36.33 | 29.49               | 23.67                | 18.72 | 14.55    | 11.07 |
|                   |                | THR | 56.82                      | 48.03 | 40.26               | 33.45                | 27.45 | 22.23    | 17.73 |
|                   | 60             | Q   | 37.50                      | 30.69 | 24.84               | 19.83                | 15.57 | 11.94    | 8.94  |
|                   |                | THR | 51.75                      | 43.74 | 36.63               | 30.36                | 24.81 | 19.95    | 15.75 |
| MP-104-K-4EES-16Y | 40             | Q   | 68.12                      | 56.00 | 45.64               | 36.76                | 29.28 | 22.92    | 17.64 |
|                   |                | THR | 82.20                      | 69.44 | 58.28               | 48.48                | 39.96 | 32.52    | 26.12 |
|                   | 50             | Q   | 59.04                      | 48.44 | 39.32               | 31.56                | 24.96 | 19.40    | 14.76 |
|                   |                | THR | 75.76                      | 64.04 | 53.68               | 44.60                | 36.60 | 29.64    | 23.64 |
|                   | 60             | Q   | 50.00                      | 40.92 | 33.12               | 26.44                | 20.76 | 15.92    | 11.92 |
|                   |                | THR | 69.00                      | 58.32 | 48.84               | 40.48                | 33.08 | 26.60    | 21.00 |
| MP-102-K-4DES-10Y | 40             | Q   | 41.00                      | 33.38 | 26.94               | 21.50                | 16.92 | 13.10    | 9.96  |
|                   |                | THR | 49.32                      | 41.30 | 34.36               | 28.34                | 23.14 | 18.64    | 14.82 |
|                   | 50             | Q   | 35.30                      | 28.72 | 23.10               | 18.36                | 14.36 | 11.02    | 8.26  |
|                   |                | THR | 45.06                      | 37.80 | 31.44               | 25.90                | 21.06 | 16.88    | 13.28 |
|                   | 60             | Q   | 29.66                      | 24.06 | 19.26               | 15.20                | 11.78 | 8.90     | 6.54  |
|                   |                | THR | 40.60                      | 34.06 | 28.26               | 23.20                | 18.76 | 14.88    | 11.56 |
| MP-103-K-4DES-15Y | 40             | Q   | 61.50                      | 50.07 | 40.41               | 32.25                | 25.38 | 19.65    | 14.94 |
|                   |                | THR | 73.98                      | 61.95 | 51.54               | 42.51                | 34.71 | 27.96    | 22.23 |
|                   | 50             | Q   | 52.95                      | 43.08 | 34.65               | 27.54                | 21.54 | 16.53    | 12.39 |
|                   |                | THR | 67.59                      | 56.70 | 47.16               | 38.85                | 31.59 | 25.32    | 19.92 |
|                   | 60             | Q   | 44.49                      | 36.09 | 28.89               | 22.80                | 17.67 | 13.35    | 9.81  |
|                   |                | THR | 60.90                      | 51.09 | 42.39               | 34.80                | 28.14 | 22.32    | 17.34 |

# PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond.<br>Temp.<br>°C |        |        | Cooling Capacity           | Q <sub>o</sub> [kW] | Total Heat Rejection | THR [kW] |       |     |
|-------------------|----|----------------------|--------|--------|----------------------------|---------------------|----------------------|----------|-------|-----|
|                   |    |                      |        |        | Evaporating Temperature °C |                     |                      |          |       |     |
|                   |    |                      |        |        | 10                         | 5                   | 0                    | -5       | -10   | -15 |
| MP-104-K-4DES-20Y | 40 | Q                    | 82.00  | 66.76  | 53.88                      | 43.00               | 33.84                | 26.20    | 19.92 |     |
|                   |    | THR                  | 98.64  | 82.60  | 68.72                      | 56.68               | 46.28                | 37.28    | 29.64 |     |
|                   | 50 | Q                    | 70.60  | 57.44  | 46.20                      | 36.72               | 28.72                | 22.04    | 16.52 |     |
|                   |    | THR                  | 90.12  | 75.60  | 62.88                      | 51.80               | 42.12                | 33.76    | 26.56 |     |
|                   | 60 | Q                    | 59.32  | 48.12  | 38.52                      | 30.40               | 23.56                | 17.80    | 13.08 |     |
|                   |    | THR                  | 81.20  | 68.12  | 56.52                      | 46.40               | 37.52                | 29.76    | 23.12 |     |
| MP-102-K-4CES-12Y | 40 | Q                    | 50.10  | 40.90  | 33.12                      | 26.52               | 20.98                | 16.34    | 12.50 |     |
|                   |    | THR                  | 60.20  | 50.54  | 42.20                      | 34.92               | 28.64                | 23.22    | 18.58 |     |
|                   | 50 | Q                    | 43.40  | 35.38  | 28.58                      | 22.80               | 17.94                | 13.90    | 10.54 |     |
|                   |    | THR                  | 55.28  | 46.48  | 38.82                      | 32.10               | 26.26                | 21.24    | 16.92 |     |
|                   | 60 | Q                    | 36.64  | 29.84  | 24.02                      | 19.08               | 14.90                | 11.42    | 8.52  |     |
|                   |    | THR                  | 50.02  | 42.12  | 35.16                      | 29.04               | 23.66                | 19.02    | 15.00 |     |
| MP-103-K-4CES-18Y | 40 | Q                    | 75.15  | 61.35  | 49.68                      | 39.78               | 31.47                | 24.51    | 18.75 |     |
|                   |    | THR                  | 90.30  | 75.81  | 63.30                      | 52.38               | 42.96                | 34.83    | 27.87 |     |
|                   | 50 | Q                    | 65.10  | 53.07  | 42.87                      | 34.20               | 26.91                | 20.85    | 15.81 |     |
|                   |    | THR                  | 82.92  | 69.72  | 58.23                      | 48.15               | 39.39                | 31.86    | 25.38 |     |
|                   | 60 | Q                    | 54.96  | 44.76  | 36.03                      | 28.62               | 22.35                | 17.13    | 12.78 |     |
|                   |    | THR                  | 75.03  | 63.18  | 52.74                      | 43.56               | 35.49                | 28.53    | 22.50 |     |
| MP-104-K-4CES-24Y | 40 | Q                    | 100.20 | 81.80  | 66.24                      | 53.04               | 41.96                | 32.68    | 25.00 |     |
|                   |    | THR                  | 120.40 | 101.08 | 84.40                      | 69.84               | 57.28                | 46.44    | 37.16 |     |
|                   | 50 | Q                    | 86.80  | 70.76  | 57.16                      | 45.60               | 35.88                | 27.80    | 21.08 |     |
|                   |    | THR                  | 110.56 | 92.96  | 77.64                      | 64.20               | 52.52                | 42.48    | 33.84 |     |
|                   | 60 | Q                    | 73.28  | 59.68  | 48.04                      | 38.16               | 29.80                | 22.84    | 17.04 |     |
|                   |    | THR                  | 100.04 | 84.24  | 70.32                      | 58.08               | 47.32                | 38.04    | 30.00 |     |
| MP-202-K-4VES-14Y | 40 | Q                    | 53.90  | 44.00  | 35.44                      | 28.18               | 22.04                | 16.88    | 12.58 |     |
|                   |    | THR                  | 64.20  | 53.94  | 44.80                      | 36.76               | 29.74                | 23.64    | 18.38 |     |
|                   | 50 | Q                    | 45.90  | 37.36  | 30.00                      | 23.70               | 18.32                | 13.76    | 9.92  |     |
|                   |    | THR                  | 57.98  | 48.66  | 40.34                      | 32.98               | 26.50                | 20.82    | 15.94 |     |
|                   | 60 | Q                    | 38.12  | 30.96  | 24.76                      | 19.38               | 14.76                | 10.80    | 7.40  |     |
|                   |    | THR                  | 51.66  | 43.32  | 35.84                      | 29.14               | 23.20                | 17.94    | 13.34 |     |
| MP-203-K-4VES-21Y | 40 | Q                    | 80.85  | 66.00  | 53.16                      | 42.27               | 33.06                | 25.32    | 18.87 |     |
|                   |    | THR                  | 96.30  | 80.91  | 67.20                      | 55.14               | 44.61                | 35.46    | 27.57 |     |
|                   | 50 | Q                    | 68.85  | 56.04  | 45.00                      | 35.55               | 27.48                | 20.64    | 14.88 |     |
|                   |    | THR                  | 86.97  | 72.99  | 60.51                      | 49.47               | 39.75                | 31.23    | 23.91 |     |
|                   | 60 | Q                    | 57.18  | 46.44  | 37.14                      | 29.07               | 22.14                | 16.20    | 11.10 |     |
|                   |    | THR                  | 77.49  | 64.98  | 53.76                      | 43.71               | 34.80                | 26.91    | 20.01 |     |
| MP-204-K-4VES-28Y | 40 | Q                    | 107.80 | 88.00  | 70.88                      | 56.36               | 44.08                | 33.76    | 25.16 |     |
|                   |    | THR                  | 128.40 | 107.88 | 89.60                      | 73.52               | 59.48                | 47.28    | 36.76 |     |
|                   | 50 | Q                    | 91.80  | 74.72  | 60.00                      | 47.40               | 36.64                | 27.52    | 19.84 |     |
|                   |    | THR                  | 115.96 | 97.32  | 80.68                      | 65.96               | 53.00                | 41.64    | 31.88 |     |
|                   | 60 | Q                    | 76.24  | 61.92  | 49.52                      | 38.76               | 29.52                | 21.60    | 14.80 |     |
|                   |    | THR                  | 103.32 | 86.64  | 71.68                      | 58.28               | 46.40                | 35.88    | 26.68 |     |
| MP-202-K-4TES-18Y | 40 | Q                    | 64.70  | 52.90  | 42.80                      | 34.16               | 26.84                | 20.68    | 15.52 |     |
|                   |    | THR                  | 77.10  | 64.86  | 54.08                      | 44.54               | 36.20                | 28.94    | 22.64 |     |
|                   | 50 | Q                    | 55.40  | 45.20  | 36.42                      | 28.90               | 22.48                | 17.02    | 12.42 |     |
|                   |    | THR                  | 69.98  | 58.84  | 48.96                      | 40.20               | 32.48                | 25.72    | 19.86 |     |
|                   | 60 | Q                    | 46.20  | 37.68  | 30.28                      | 23.86               | 18.32                | 13.56    | 9.48  |     |
|                   |    | THR                  | 62.60  | 52.70  | 43.82                      | 35.84               | 28.74                | 22.46    | 16.96 |     |
| MP-203-K-4TES-27Y | 40 | Q                    | 97.05  | 79.35  | 64.20                      | 51.24               | 40.26                | 31.02    | 23.28 |     |
|                   |    | THR                  | 115.65 | 97.29  | 81.12                      | 66.81               | 54.30                | 43.41    | 33.96 |     |
|                   | 50 | Q                    | 83.10  | 67.80  | 54.63                      | 43.35               | 33.72                | 25.53    | 18.63 |     |
|                   |    | THR                  | 104.97 | 88.26  | 73.44                      | 60.30               | 48.72                | 38.58    | 29.79 |     |
|                   | 60 | Q                    | 69.30  | 56.52  | 45.42                      | 35.79               | 27.48                | 20.34    | 14.22 |     |
|                   |    | THR                  | 93.90  | 79.05  | 65.73                      | 53.76               | 43.11                | 33.69    | 25.44 |     |
| MP-204-K-4TES-36Y | 40 | Q                    | 129.40 | 105.80 | 85.60                      | 68.32               | 53.68                | 41.36    | 31.04 |     |
|                   |    | THR                  | 154.20 | 129.72 | 108.16                     | 89.08               | 72.40                | 57.88    | 45.28 |     |
|                   | 50 | Q                    | 110.80 | 90.40  | 72.84                      | 57.80               | 44.96                | 34.04    | 24.84 |     |
|                   |    | THR                  | 139.96 | 117.68 | 97.92                      | 80.40               | 64.96                | 51.44    | 39.72 |     |
|                   | 60 | Q                    | 92.40  | 75.36  | 60.56                      | 47.72               | 36.64                | 27.12    | 18.96 |     |
|                   |    | THR                  | 125.20 | 105.40 | 87.64                      | 71.68               | 57.48                | 44.92    | 33.92 |     |
| MP-202-K-4PES-24Y | 40 | Q                    | 74.90  | 61.00  | 49.00                      | 38.90               | 30.34                | 23.14    | 17.14 |     |
|                   |    | THR                  | 88.96  | 74.50  | 61.68                      | 50.54               | 40.80                | 32.32    | 25.02 |     |
|                   | 50 | Q                    | 63.60  | 51.60  | 41.40                      | 32.56               | 25.06                | 18.72    | 13.40 |     |
|                   |    | THR                  | 79.96  | 66.86  | 55.36                      | 45.08               | 36.06                | 28.18    | 21.32 |     |
|                   | 60 | Q                    | 52.60  | 42.60  | 33.94                      | 26.48               | 20.04                | 14.52    | 9.82  |     |
|                   |    | THR                  | 70.80  | 59.18  | 48.80                      | 39.52               | 31.24                | 23.88    | 17.40 |     |
| MP-203-K-4PES-36Y | 40 | Q                    | 112.35 | 91.50  | 73.50                      | 58.35               | 45.51                | 34.71    | 25.71 |     |
|                   |    | THR                  | 133.44 | 111.75 | 92.52                      | 75.81               | 61.20                | 48.48    | 37.53 |     |
|                   | 50 | Q                    | 95.40  | 77.40  | 62.10                      | 48.84               | 37.59                | 28.08    | 20.10 |     |
|                   |    | THR                  | 119.94 | 100.29 | 83.04                      | 67.62               | 54.09                | 42.27    | 31.98 |     |
|                   | 60 | Q                    | 78.90  | 63.90  | 50.91                      | 39.72               | 30.06                | 21.78    | 14.73 |     |
|                   |    | THR                  | 106.20 | 88.77  | 73.20                      | 59.28               | 46.86                | 35.82    | 26.10 |     |
| MP-204-K-4PES-48Y | 40 | Q                    | 149.80 | 122.00 | 98.00                      | 77.80               | 60.68                | 46.28    | 34.28 |     |
|                   |    | THR                  | 177.92 | 149.00 | 123.36                     | 101.08              | 81.60                | 64.64    | 50.04 |     |
|                   | 50 | Q                    | 127.20 | 103.20 | 82.80                      | 65.12               | 50.12                | 37.44    | 26.80 |     |
|                   |    | THR                  | 159.92 | 133.72 | 110.72                     | 90.16               | 72.12                | 56.36    | 42.64 |     |
|                   | 60 | Q                    | 105.20 | 85.20  | 67.88                      | 52.96               | 40.08                | 29.04    | 19.64 |     |
|                   |    | THR                  | 141.60 | 118.36 | 97.60                      | 79.04               | 62.48                | 47.76    | 34.80 |     |
| MP-202-K-4NES-28Y | 40 | Q                    | 87.70  | 71.60  | 57.80                      | 46.00               | 36.10                | 27.72    | 20.74 |     |
|                   |    | THR                  | 104.36 | 87.58  | 72.82                      | 59.84               | 48.58                | 38.74    | 30.26 |     |
|                   | 50 | Q                    | 74.80  | 61.00  | 49.00                      | 38.82               | 30.10                | 22.70    | 16.48 |     |
|                   |    | THR                  | 94.24  | 79.16  | 65.66                      | 53.82               | 43.34                | 34.12    | 26.12 |     |
|                   | 60 | Q                    | 62.30  | 50.70  | 40.60                      | 31.92               | 24.40                | 17.94    | 12.42 |     |
|                   |    | THR                  | 84.08  | 70.62  | 58.48                      | 47.68               | 38.00                | 29.40    | 21.80 |     |



R134a

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond. Temp. °C |     | Cooling Capacity           |        | Q <sub>o</sub> [kW] | Total Heat Rejection |        | THR [kW] |        |
|-------------------|----------------|-----|----------------------------|--------|---------------------|----------------------|--------|----------|--------|
|                   |                |     | Evaporating Temperature °C |        |                     |                      |        |          |        |
|                   |                |     | 10                         | 5      | 0                   | -5                   | -10    | -15      | -20    |
| MP-203-K-4NES-42Y | 40             | Q   | 131.55                     | 107.40 | 86.70               | 69.00                | 54.15  | 41.58    | 31.11  |
|                   |                | THR | 156.54                     | 131.37 | 109.23              | 89.76                | 72.87  | 58.11    | 45.39  |
|                   | 50             | Q   | 112.20                     | 91.50  | 73.50               | 58.23                | 45.15  | 34.05    | 24.72  |
|                   |                | THR | 141.36                     | 118.74 | 98.49               | 80.73                | 65.01  | 51.18    | 39.18  |
|                   | 60             | Q   | 93.45                      | 76.05  | 60.90               | 47.88                | 36.60  | 26.91    | 18.63  |
|                   |                | THR | 126.12                     | 105.93 | 87.72               | 71.52                | 57.00  | 44.10    | 32.70  |
| MP-204-K-4NES-56Y | 40             | Q   | 175.40                     | 143.20 | 115.60              | 92.00                | 72.20  | 55.44    | 41.48  |
|                   |                | THR | 208.72                     | 175.16 | 145.64              | 119.68               | 97.16  | 77.48    | 60.52  |
|                   | 50             | Q   | 149.60                     | 122.00 | 98.00               | 77.64                | 60.20  | 45.40    | 32.96  |
|                   |                | THR | 188.48                     | 158.32 | 131.32              | 107.64               | 86.68  | 68.24    | 52.24  |
|                   | 60             | Q   | 124.60                     | 101.40 | 81.20               | 63.84                | 48.80  | 35.88    | 24.84  |
|                   |                | THR | 168.16                     | 141.24 | 116.96              | 95.36                | 76.00  | 58.80    | 43.60  |
| MP-302-K-4JE-30Y  | 40             | Q   | 97.30                      | 80.10  | 65.30               | 52.60                | 41.70  | 32.46    | 24.66  |
|                   |                | THR | 115.90                     | 98.06  | 82.34               | 68.48                | 56.26  | 45.58    | 36.28  |
|                   | 50             | Q   | 84.50                      | 69.40  | 56.40               | 45.20                | 35.60  | 27.44    | 20.52  |
|                   |                | THR | 106.38                     | 90.08  | 75.64               | 62.80                | 51.46  | 41.50    | 32.78  |
|                   | 60             | Q   | 71.90                      | 58.80  | 47.60               | 37.84                | 29.50  | 22.40    | 16.36  |
|                   |                | THR | 96.60                      | 81.74  | 68.60               | 56.78                | 46.28  | 37.00    | 28.82  |
| MP-303-K-4JE-45Y  | 40             | Q   | 145.95                     | 120.15 | 97.95               | 78.90                | 62.55  | 48.69    | 36.99  |
|                   |                | THR | 173.85                     | 147.09 | 123.51              | 102.72               | 84.39  | 68.37    | 54.42  |
|                   | 50             | Q   | 126.75                     | 104.10 | 84.60               | 67.80                | 53.40  | 41.16    | 30.78  |
|                   |                | THR | 159.57                     | 135.12 | 113.46              | 94.20                | 77.19  | 62.25    | 49.17  |
|                   | 60             | Q   | 107.85                     | 88.20  | 71.40               | 56.76                | 44.25  | 33.60    | 24.54  |
|                   |                | THR | 144.90                     | 122.61 | 102.90              | 85.17                | 69.42  | 55.50    | 43.23  |
| MP-304-K-4JE-60Y  | 40             | Q   | 194.60                     | 160.20 | 130.60              | 105.20               | 83.40  | 64.92    | 49.32  |
|                   |                | THR | 231.80                     | 196.12 | 164.68              | 136.96               | 112.52 | 91.16    | 72.56  |
|                   | 50             | Q   | 169.00                     | 138.80 | 112.80              | 90.40                | 71.20  | 54.88    | 41.04  |
|                   |                | THR | 212.76                     | 180.16 | 151.28              | 125.60               | 102.92 | 83.00    | 65.56  |
|                   | 60             | Q   | 143.80                     | 117.60 | 95.20               | 75.68                | 59.00  | 44.80    | 32.72  |
|                   |                | THR | 193.20                     | 163.48 | 137.20              | 113.56               | 92.56  | 74.00    | 57.64  |
| MP-302-K-4HE-36Y  | 40             | Q   | 114.80                     | 94.50  | 77.10               | 62.20                | 49.50  | 38.78    | 29.74  |
|                   |                | THR | 137.20                     | 115.98 | 97.34               | 80.96                | 66.62  | 54.14    | 43.28  |
|                   | 50             | Q   | 99.60                      | 81.90  | 66.60               | 53.60                | 42.50  | 33.06    | 25.14  |
|                   |                | THR | 125.84                     | 106.56 | 89.44               | 74.42                | 61.18  | 49.56    | 39.46  |
|                   | 60             | Q   | 84.40                      | 69.20  | 56.20               | 45.00                | 35.38  | 27.26    | 20.44  |
|                   |                | THR | 113.94                     | 96.54  | 81.14               | 67.42                | 55.20  | 44.48    | 35.14  |
| MP-303-K-4HE-54Y  | 40             | Q   | 172.20                     | 141.75 | 115.65              | 93.30                | 74.25  | 58.17    | 44.61  |
|                   |                | THR | 205.80                     | 173.97 | 146.01              | 121.44               | 99.93  | 81.21    | 64.92  |
|                   | 50             | Q   | 149.40                     | 122.85 | 99.90               | 80.40                | 63.75  | 49.59    | 37.71  |
|                   |                | THR | 188.76                     | 159.84 | 134.16              | 111.63               | 91.77  | 74.34    | 59.19  |
|                   | 60             | Q   | 126.60                     | 103.80 | 84.30               | 67.50                | 53.07  | 40.89    | 30.66  |
|                   |                | THR | 170.91                     | 144.81 | 121.71              | 101.13               | 82.80  | 66.72    | 52.71  |
| MP-304-K-4HE-72Y  | 40             | Q   | 229.60                     | 189.00 | 154.20              | 124.40               | 99.00  | 77.56    | 59.48  |
|                   |                | THR | 274.40                     | 231.96 | 194.68              | 161.92               | 133.24 | 108.28   | 86.56  |
|                   | 50             | Q   | 199.20                     | 163.80 | 133.20              | 107.20               | 85.00  | 66.12    | 50.28  |
|                   |                | THR | 251.68                     | 213.12 | 178.88              | 148.84               | 122.36 | 99.12    | 78.92  |
|                   | 60             | Q   | 168.80                     | 138.40 | 112.40              | 90.00                | 70.76  | 54.52    | 40.88  |
|                   |                | THR | 227.88                     | 193.08 | 162.28              | 134.84               | 110.40 | 88.96    | 70.28  |
| MP-302-K-4GE-46Y  | 40             | Q   | 130.20                     | 107.00 | 87.20               | 70.30                | 55.80  | 43.60    | 33.28  |
|                   |                | THR | 156.70                     | 132.12 | 110.66              | 91.84                | 75.26  | 60.86    | 48.28  |
|                   | 50             | Q   | 112.40                     | 92.00  | 74.50               | 59.60                | 46.90  | 36.22    | 27.28  |
|                   |                | THR | 143.14                     | 120.62 | 100.76              | 83.32                | 67.94  | 54.54    | 42.90  |
|                   | 60             | Q   | 94.00                      | 76.50  | 61.50               | 48.80                | 37.96  | 28.90    | 21.38  |
|                   |                | THR | 128.22                     | 107.90 | 89.90               | 74.06                | 60.02  | 47.76    | 37.10  |
| MP-303-K-4GE-69Y  | 40             | Q   | 195.30                     | 160.50 | 130.80              | 105.45               | 83.70  | 65.40    | 49.92  |
|                   |                | THR | 235.05                     | 198.18 | 165.99              | 137.76               | 112.89 | 91.29    | 72.42  |
|                   | 50             | Q   | 168.60                     | 138.00 | 111.75              | 89.40                | 70.35  | 54.33    | 40.92  |
|                   |                | THR | 214.71                     | 180.93 | 151.14              | 124.98               | 101.91 | 81.81    | 64.35  |
|                   | 60             | Q   | 141.00                     | 114.75 | 92.25               | 73.20                | 56.94  | 43.35    | 32.07  |
|                   |                | THR | 192.33                     | 161.85 | 134.85              | 111.09               | 90.03  | 71.64    | 55.65  |
| MP-304-K-4GE-92Y  | 40             | Q   | 260.40                     | 214.00 | 174.40              | 140.60               | 111.60 | 87.20    | 66.56  |
|                   |                | THR | 313.40                     | 264.24 | 221.32              | 183.68               | 150.52 | 121.72   | 96.56  |
|                   | 50             | Q   | 224.80                     | 184.00 | 149.00              | 119.20               | 93.80  | 72.44    | 54.56  |
|                   |                | THR | 286.28                     | 241.24 | 201.52              | 166.64               | 135.88 | 109.08   | 85.80  |
|                   | 60             | Q   | 188.00                     | 153.00 | 123.00              | 97.60                | 75.92  | 57.80    | 42.76  |
|                   |                | THR | 256.44                     | 215.80 | 179.80              | 148.12               | 120.04 | 95.52    | 74.20  |
| MP-302-K-4FE-50Y  | 30             | Q   |                            |        | 120.00              | 97.10                | 77.80  | 61.60    | 48.00  |
|                   |                | THR |                            |        | 145.42              | 120.96               | 99.82  | 81.58    | 65.84  |
|                   | 40             | Q   |                            |        | 106.60              | 86.20                | 68.90  | 54.40    | 42.20  |
|                   |                | THR |                            |        | 136.42              | 113.54               | 93.58  | 76.32    | 61.38  |
|                   | 50             | Q   |                            |        | 93.00               | 75.10                | 59.80  | 47.00    | 36.26  |
|                   |                | THR |                            |        | 126.58              | 105.36               | 86.66  | 70.44    | 56.42  |
| MP-303-K-4FE-75Y  | 30             | Q   |                            |        | 180.00              | 145.65               | 116.70 | 92.40    | 72.00  |
|                   |                | THR |                            |        | 218.13              | 181.44               | 149.73 | 122.37   | 98.76  |
|                   | 40             | Q   |                            |        | 159.90              | 129.30               | 103.35 | 81.60    | 63.30  |
|                   |                | THR |                            |        | 204.63              | 170.31               | 140.37 | 114.48   | 92.07  |
|                   | 50             | Q   |                            |        | 139.50              | 112.65               | 89.70  | 70.50    | 54.39  |
|                   |                | THR |                            |        | 189.87              | 158.04               | 129.99 | 105.66   | 84.63  |
| MP-304-K-4FE-100Y | 30             | Q   |                            |        | 240.00              | 194.20               | 155.60 | 123.20   | 96.00  |
|                   |                | THR |                            |        | 290.84              | 241.92               | 199.64 | 163.16   | 131.68 |
|                   | 40             | Q   |                            |        | 213.20              | 172.40               | 137.80 | 108.80   | 84.40  |
|                   |                | THR |                            |        | 272.84              | 227.08               | 187.16 | 152.64   | 122.76 |
|                   | 50             | Q   |                            |        | 186.00              | 150.20               | 119.60 | 94.00    | 72.52  |
|                   |                | THR |                            |        | 253.16              | 210.72               | 173.32 | 140.88   | 112.84 |



# PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond.<br>Temp.<br>°C |     | Cooling Capacity |        | Q <sub>o</sub> [kW]        |        | Total Heat Rejection |        | THR [kW] |  |
|-------------------|----------------------|-----|------------------|--------|----------------------------|--------|----------------------|--------|----------|--|
|                   |                      |     |                  |        |                            |        |                      |        |          |  |
|                   |                      |     |                  |        | Evaporating Temperature °C |        |                      |        |          |  |
|                   |                      |     | 10               | 5      | 0                          | -5     | -10                  | -15    | -20      |  |
| MP-302-K-4FE-56Y  | 40                   | Q   | 158.40           | 130.40 | 106.60                     | 86.20  | 68.90                | 54.40  | 42.20    |  |
|                   |                      | THR | 191.72           | 162.00 | 136.08                     | 113.28 | 93.36                | 76.16  | 61.26    |  |
|                   | 50                   | Q   | 138.60           | 114.00 | 93.00                      | 75.10  | 59.80                | 47.00  | 36.26    |  |
|                   |                      | THR | 177.46           | 150.14 | 126.12                     | 105.00 | 86.38                | 70.26  | 56.28    |  |
|                   | 60                   | Q   | 118.60           | 97.50  | 79.40                      | 63.80  | 50.60                | 39.52  | 30.22    |  |
|                   |                      | THR | 162.22           | 137.48 | 115.52                     | 95.96  | 78.78                | 63.82  | 50.84    |  |
| MP-303-K-4FE-84Y  | 40                   | Q   | 237.60           | 195.60 | 159.90                     | 129.30 | 103.35               | 81.60  | 63.30    |  |
|                   |                      | THR | 287.58           | 243.00 | 204.12                     | 169.92 | 140.04               | 114.24 | 91.89    |  |
|                   | 50                   | Q   | 207.90           | 171.00 | 139.50                     | 112.65 | 89.70                | 70.50  | 54.39    |  |
|                   |                      | THR | 266.19           | 225.21 | 189.18                     | 157.50 | 129.57               | 105.39 | 84.42    |  |
|                   | 60                   | Q   | 177.90           | 146.25 | 119.10                     | 95.70  | 75.90                | 59.28  | 45.33    |  |
|                   |                      | THR | 243.33           | 206.22 | 173.28                     | 143.94 | 118.17               | 95.73  | 76.26    |  |
| MP-304-K-4FE-112Y | 40                   | Q   | 316.80           | 260.80 | 213.20                     | 172.40 | 137.80               | 108.80 | 84.40    |  |
|                   |                      | THR | 383.44           | 324.00 | 272.16                     | 226.56 | 186.72               | 152.32 | 122.52   |  |
|                   | 50                   | Q   | 277.20           | 228.00 | 186.00                     | 150.20 | 119.60               | 94.00  | 72.52    |  |
|                   |                      | THR | 354.92           | 300.28 | 252.24                     | 210.00 | 172.76               | 140.52 | 112.56   |  |
|                   | 60                   | Q   | 237.20           | 195.00 | 158.80                     | 127.60 | 101.20               | 79.04  | 60.44    |  |
|                   |                      | THR | 324.44           | 274.96 | 231.04                     | 191.92 | 157.56               | 127.64 | 101.68   |  |
| MP-302-K-6JE-50Y  | 40                   | Q   | 145.00           | 118.80 | 96.40                      | 77.30  | 61.10                | 47.40  | 36.04    |  |
|                   |                      | THR | 173.54           | 146.08 | 122.02                     | 100.94 | 82.50                | 66.40  | 52.52    |  |
|                   | 50                   | Q   | 125.40           | 102.40 | 82.80                      | 66.00  | 51.70                | 39.68  | 29.66    |  |
|                   |                      | THR | 158.72           | 133.52 | 111.40                     | 91.84  | 74.60                | 59.56  | 46.50    |  |
|                   | 60                   | Q   | 105.60           | 85.90  | 69.00                      | 54.60  | 42.30                | 31.98  | 23.36    |  |
|                   |                      | THR | 142.74           | 119.96 | 99.74                      | 81.86  | 65.98                | 52.06  | 39.92    |  |
| MP-303-K-6JE-75Y  | 40                   | Q   | 217.50           | 178.20 | 144.60                     | 115.95 | 91.65                | 71.10  | 54.06    |  |
|                   |                      | THR | 260.31           | 219.12 | 183.03                     | 151.41 | 123.75               | 99.60  | 78.78    |  |
|                   | 50                   | Q   | 188.10           | 153.60 | 124.20                     | 99.00  | 77.55                | 59.52  | 44.49    |  |
|                   |                      | THR | 238.08           | 200.28 | 167.10                     | 137.76 | 111.90               | 89.34  | 69.75    |  |
|                   | 60                   | Q   | 158.40           | 128.85 | 103.50                     | 81.90  | 63.45                | 47.97  | 35.04    |  |
|                   |                      | THR | 214.11           | 179.94 | 149.61                     | 122.79 | 98.97                | 78.09  | 59.88    |  |
| MP-304-K-6JE-100Y | 40                   | Q   | 290.00           | 237.60 | 192.80                     | 154.60 | 122.20               | 94.80  | 72.08    |  |
|                   |                      | THR | 347.08           | 292.16 | 244.04                     | 201.88 | 165.00               | 132.80 | 105.04   |  |
|                   | 50                   | Q   | 250.80           | 204.80 | 165.60                     | 132.00 | 103.40               | 79.36  | 59.32    |  |
|                   |                      | THR | 317.44           | 267.04 | 222.80                     | 183.68 | 149.20               | 119.12 | 93.00    |  |
|                   | 60                   | Q   | 211.20           | 171.80 | 138.00                     | 109.20 | 84.60                | 63.96  | 46.72    |  |
|                   |                      | THR | 285.48           | 239.92 | 199.48                     | 163.72 | 131.96               | 104.12 | 79.84    |  |
| MP-302-K-6HE-56Y  | 40                   | Q   | 170.20           | 139.60 | 113.60                     | 91.40  | 72.60                | 56.70  | 43.40    |  |
|                   |                      | THR | 203.80           | 171.76 | 143.84                     | 119.36 | 98.00                | 79.32  | 63.14    |  |
|                   | 50                   | Q   | 147.60           | 121.00 | 98.10                      | 78.60  | 62.00                | 48.00  | 36.26    |  |
|                   |                      | THR | 187.12           | 157.96 | 132.14                     | 109.44 | 89.44                | 71.96  | 56.72    |  |
|                   | 60                   | Q   | 125.00           | 102.20 | 82.40                      | 65.60  | 51.30                | 39.26  | 29.18    |  |
|                   |                      | THR | 169.42           | 143.02 | 119.34                     | 98.48  | 80.04                | 63.88  | 49.76    |  |
| MP-303-K-6HE-84Y  | 40                   | Q   | 255.30           | 209.40 | 170.40                     | 137.10 | 108.90               | 85.05  | 65.10    |  |
|                   |                      | THR | 305.70           | 257.64 | 215.76                     | 179.04 | 147.00               | 118.98 | 94.71    |  |
|                   | 50                   | Q   | 221.40           | 181.50 | 147.15                     | 117.90 | 93.00                | 72.00  | 54.39    |  |
|                   |                      | THR | 280.68           | 236.94 | 198.21                     | 164.16 | 134.16               | 107.94 | 85.08    |  |
|                   | 60                   | Q   | 187.50           | 153.30 | 123.60                     | 98.40  | 76.95                | 58.89  | 43.77    |  |
|                   |                      | THR | 254.13           | 214.53 | 179.01                     | 147.72 | 120.06               | 95.82  | 74.64    |  |
| MP-304-K-6HE-112Y | 40                   | Q   | 340.40           | 279.20 | 227.20                     | 182.80 | 145.20               | 113.40 | 86.80    |  |
|                   |                      | THR | 407.60           | 343.52 | 287.68                     | 238.72 | 196.00               | 158.64 | 126.28   |  |
|                   | 50                   | Q   | 295.20           | 242.00 | 196.20                     | 157.20 | 124.00               | 96.00  | 72.52    |  |
|                   |                      | THR | 374.24           | 315.92 | 264.28                     | 218.88 | 178.88               | 143.92 | 113.44   |  |
|                   | 60                   | Q   | 250.00           | 204.40 | 164.80                     | 131.20 | 102.60               | 78.52  | 58.36    |  |
|                   |                      | THR | 338.84           | 286.04 | 238.68                     | 196.96 | 160.08               | 127.76 | 99.52    |  |
| MP-302-K-6GE-68Y  | 40                   | Q   | 194.20           | 159.80 | 130.20                     | 105.00 | 83.60                | 65.60  | 50.60    |  |
|                   |                      | THR | 234.22           | 197.74 | 165.64                     | 137.64 | 113.16               | 91.92  | 73.60    |  |
|                   | 50                   | Q   | 168.20           | 138.20 | 112.40                     | 90.40  | 71.70                | 55.90  | 42.70    |  |
|                   |                      | THR | 214.84           | 181.62 | 152.26                     | 126.48 | 103.80               | 83.96  | 66.72    |  |
|                   | 60                   | Q   | 142.20           | 116.60 | 94.80                      | 76.00  | 59.90                | 46.30  | 34.82    |  |
|                   |                      | THR | 194.16           | 164.32 | 138.00                     | 114.52 | 93.66                | 75.30  | 59.18    |  |
| MP-303-K-6GE-102Y | 40                   | Q   | 291.30           | 239.70 | 195.30                     | 157.50 | 125.40               | 98.40  | 75.90    |  |
|                   |                      | THR | 351.33           | 296.61 | 248.46                     | 206.46 | 169.74               | 137.88 | 110.40   |  |
|                   | 50                   | Q   | 252.30           | 207.30 | 168.60                     | 135.60 | 107.55               | 83.85  | 64.05    |  |
|                   |                      | THR | 322.26           | 272.43 | 228.39                     | 189.72 | 155.70               | 125.94 | 100.08   |  |
|                   | 60                   | Q   | 213.30           | 174.90 | 142.20                     | 114.00 | 89.85                | 69.45  | 52.23    |  |
|                   |                      | THR | 291.24           | 246.48 | 207.00                     | 171.78 | 140.49               | 112.95 | 88.77    |  |
| MP-304-K-6GE-136Y | 40                   | Q   | 388.40           | 319.60 | 260.40                     | 210.00 | 167.20               | 131.20 | 101.20   |  |
|                   |                      | THR | 468.44           | 395.48 | 331.28                     | 275.28 | 226.32               | 183.84 | 147.20   |  |
|                   | 50                   | Q   | 336.40           | 276.40 | 224.80                     | 180.80 | 143.40               | 111.80 | 85.40    |  |
|                   |                      | THR | 429.68           | 363.24 | 304.52                     | 252.96 | 207.60               | 167.92 | 133.44   |  |
|                   | 60                   | Q   | 284.40           | 233.20 | 189.60                     | 152.00 | 119.80               | 92.60  | 69.64    |  |
|                   |                      | THR | 388.32           | 328.64 | 276.00                     | 229.04 | 187.32               | 150.60 | 118.36   |  |
| MP-302-K-6FE-88Y  | 40                   | Q   | 233.40           | 192.20 | 156.80                     | 126.60 | 101.20               | 79.60  | 61.60    |  |
|                   |                      | THR | 281.60           | 238.04 | 199.80                     | 166.36 | 137.44               | 112.10 | 90.24    |  |
|                   | 50                   | Q   | 202.60           | 166.60 | 135.80                     | 109.40 | 87.00                | 68.10  | 52.20    |  |
|                   |                      | THR | 258.54           | 218.90 | 184.06                     | 153.34 | 126.38               | 102.82 | 82.24    |  |
|                   | 60                   | Q   | 171.60           | 141.20 | 114.80                     | 92.30  | 73.10                | 56.70  | 43.00    |  |
|                   |                      | THR | 233.82           | 198.64 | 167.14                     | 139.30 | 114.64               | 92.78  | 73.70    |  |
| MP-303-K-6FE-132Y | 40                   | Q   | 350.10           | 288.30 | 235.20                     | 189.90 | 151.80               | 119.40 | 92.40    |  |
|                   |                      | THR | 422.40           | 357.06 | 299.70                     | 249.54 | 206.16               | 168.15 | 135.36   |  |
|                   | 50                   | Q   | 303.90           | 249.90 | 203.70                     | 164.10 | 130.50               | 102.15 | 78.30    |  |
|                   |                      | THR | 387.81           | 328.35 | 276.09                     | 230.01 | 189.57               | 154.23 | 123.36   |  |
|                   | 60                   | Q   | 257.40           | 211.80 | 172.20                     | 138.45 | 109.65               | 85.05  | 64.50    |  |
|                   |                      | THR | 350.73           | 297.96 | 250.71                     | 208.95 | 171.96               | 139.17 | 110.55   |  |



R134a

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond.<br>Temp.<br>°C |     | Cooling Capacity           |        | Q <sub>o</sub> [kW] | Total Heat Rejection |        | THR [kW] |        |     |  |
|-------------------|----------------------|-----|----------------------------|--------|---------------------|----------------------|--------|----------|--------|-----|--|
|                   |                      |     | Evaporating Temperature °C |        |                     |                      |        |          |        |     |  |
|                   |                      |     | 10                         | 5      |                     | 0                    | -5     | -10      | -15    | -20 |  |
| MP-304-K-6FE-176Y | 40                   | Q   | 466.80                     | 384.40 | 313.60              | 253.20               | 202.40 | 159.20   | 123.20 |     |  |
|                   |                      | THR | 563.20                     | 476.08 | 399.60              | 332.72               | 274.88 | 224.20   | 180.48 |     |  |
|                   | 50                   | Q   | 405.20                     | 333.20 | 271.60              | 218.80               | 174.00 | 136.20   | 104.40 |     |  |
|                   |                      | THR | 517.08                     | 437.80 | 368.12              | 306.68               | 252.76 | 205.64   | 164.48 |     |  |
|                   | 60                   | Q   | 343.20                     | 282.40 | 229.60              | 184.60               | 146.20 | 113.40   | 86.00  |     |  |
|                   |                      | THR | 467.64                     | 397.28 | 334.28              | 278.60               | 229.28 | 185.56   | 147.40 |     |  |



## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond. Temp. °C |     | Cooling Capacity           |       |       |       |       | Q <sub>o</sub> [kW] | Total Heat Rejection |       | THR [kW] |     |     |
|-------------------|----------------|-----|----------------------------|-------|-------|-------|-------|---------------------|----------------------|-------|----------|-----|-----|
|                   |                |     | Evaporating Temperature °C |       |       |       |       |                     |                      |       |          |     |     |
|                   |                |     | 5                          | 0     | -5    | -10   | -15   |                     | -20                  | -25   | -30      | -35 | -40 |
| MP-102-K-2DES-4Y  | 30             | Q   | 25.98                      | 21.62 | 17.82 | 14.54 | 11.72 | 9.28                | 7.18                 | 5.42  | 3.92     |     |     |
|                   |                | THR | 31.72                      | 27.14 | 23.06 | 19.44 | 16.22 | 13.34               | 10.78                | 8.52  | 6.54     |     |     |
|                   | 40             | Q   | 22.08                      | 18.34 | 15.08 | 12.24 | 9.80  | 7.70                | 5.88                 | 4.36  | 3.06     |     |     |
|                   |                | THR | 28.92                      | 24.78 | 21.04 | 17.70 | 14.72 | 12.04               | 9.64                 | 7.54  | 5.66     |     |     |
|                   | 50             | Q   | 17.92                      | 14.84 | 12.14 | 9.78  | 7.74  | 5.98                | 4.48                 | 3.20  | 2.14     |     |     |
|                   |                | THR | 25.66                      | 21.98 | 18.64 | 15.62 | 12.90 | 10.44               | 8.24                 | 6.30  | 4.58     |     |     |
| MP-103-K-2DES-6Y  | 30             | Q   | 38.97                      | 32.43 | 26.73 | 21.81 | 17.58 | 13.92               | 10.77                | 8.13  | 5.88     |     |     |
|                   |                | THR | 47.58                      | 40.71 | 34.59 | 29.16 | 24.33 | 20.01               | 16.17                | 12.78 | 9.81     |     |     |
|                   | 40             | Q   | 33.12                      | 27.51 | 22.62 | 18.36 | 14.70 | 11.55               | 8.82                 | 6.54  | 4.59     |     |     |
|                   |                | THR | 43.38                      | 37.17 | 31.56 | 26.55 | 22.08 | 18.06               | 14.46                | 11.31 | 8.49     |     |     |
|                   | 50             | Q   | 26.88                      | 22.26 | 18.21 | 14.67 | 11.61 | 8.97                | 6.72                 | 4.80  | 3.21     |     |     |
|                   |                | THR | 38.49                      | 32.97 | 27.96 | 23.43 | 19.35 | 15.66               | 12.36                | 9.45  | 6.87     |     |     |
| MP-104-K-2DES-8Y  | 30             | Q   | 51.96                      | 43.24 | 35.64 | 29.08 | 23.44 | 18.56               | 14.36                | 10.84 | 7.84     |     |     |
|                   |                | THR | 63.44                      | 54.28 | 46.12 | 38.88 | 32.44 | 26.68               | 21.56                | 17.04 | 13.08    |     |     |
|                   | 40             | Q   | 44.16                      | 36.68 | 30.16 | 24.48 | 19.60 | 15.40               | 11.76                | 8.72  | 6.12     |     |     |
|                   |                | THR | 57.84                      | 49.56 | 42.08 | 35.40 | 29.44 | 24.08               | 19.28                | 15.08 | 11.32    |     |     |
|                   | 50             | Q   | 35.84                      | 29.68 | 24.28 | 19.56 | 15.48 | 11.96               | 8.96                 | 6.40  | 4.28     |     |     |
|                   |                | THR | 51.32                      | 43.96 | 37.28 | 31.24 | 25.80 | 20.88               | 16.48                | 12.60 | 9.16     |     |     |
| MP-102-H-2DES-6Y  | 30             | Q   | 31.00                      | 25.98 | 21.62 | 17.82 | 14.54 | 11.72               | 9.28                 | 7.18  | 5.42     |     |     |
|                   |                | THR | 36.74                      | 31.60 | 27.04 | 22.98 | 19.36 | 16.16               | 13.30                | 10.76 | 8.54     |     |     |
|                   | 40             | Q   | 26.36                      | 22.08 | 18.34 | 15.08 | 12.24 | 9.80                | 7.70                 | 5.88  | 4.36     |     |     |
|                   |                | THR | 33.30                      | 28.72 | 24.60 | 20.92 | 17.60 | 14.64               | 12.00                | 9.62  | 7.54     |     |     |
|                   | 50             | Q   | 21.44                      | 17.92 | 14.84 | 12.14 | 9.78  | 7.74                | 5.98                 | 4.48  | 3.20     |     |     |
|                   |                | THR | 29.38                      | 25.38 | 21.76 | 18.48 | 15.50 | 12.80               | 10.40                | 8.24  | 6.30     |     |     |
| MP-103-H-2DES-9Y  | 30             | Q   | 46.50                      | 38.97 | 32.43 | 26.73 | 21.81 | 17.58               | 13.92                | 10.77 | 8.13     |     |     |
|                   |                | THR | 55.11                      | 47.40 | 40.56 | 34.47 | 29.04 | 24.24               | 19.95                | 16.14 | 12.81    |     |     |
|                   | 40             | Q   | 39.54                      | 33.12 | 27.51 | 22.62 | 18.36 | 14.70               | 11.55                | 8.82  | 6.54     |     |     |
|                   |                | THR | 49.95                      | 43.08 | 36.90 | 31.38 | 26.40 | 21.96               | 18.00                | 14.43 | 11.31    |     |     |
|                   | 50             | Q   | 32.16                      | 26.88 | 22.26 | 18.21 | 14.67 | 11.61               | 8.97                 | 6.72  | 4.80     |     |     |
|                   |                | THR | 44.07                      | 38.07 | 32.64 | 27.72 | 23.25 | 19.20               | 15.60                | 12.36 | 9.45     |     |     |
| MP-104-K-2DES-12Y | 30             | Q   | 62.00                      | 51.96 | 43.24 | 35.64 | 29.08 | 23.44               | 18.56                | 14.36 | 10.84    |     |     |
|                   |                | THR | 73.48                      | 63.20 | 54.08 | 45.96 | 38.72 | 32.32               | 26.60                | 21.52 | 17.08    |     |     |
|                   | 40             | Q   | 52.72                      | 44.16 | 36.68 | 30.16 | 24.48 | 19.60               | 15.40                | 11.76 | 8.72     |     |     |
|                   |                | THR | 66.60                      | 57.44 | 49.20 | 41.84 | 35.20 | 29.28               | 24.00                | 19.24 | 15.08    |     |     |
|                   | 50             | Q   | 42.88                      | 35.84 | 29.68 | 24.28 | 19.56 | 15.48               | 11.96                | 8.96  | 6.40     |     |     |
|                   |                | THR | 58.76                      | 50.76 | 43.52 | 36.96 | 31.00 | 25.60               | 20.80                | 16.48 | 12.60    |     |     |
| MP-102-K-2CES-6Y  | 30             | Q   | 31.78                      | 26.50 | 21.90 | 17.92 | 14.50 | 11.54               | 9.00                 | 6.84  | 5.00     |     |     |
|                   |                | THR | 38.72                      | 33.20 | 28.28 | 23.88 | 20.00 | 16.54               | 13.46                | 10.72 | 8.32     |     |     |
|                   | 40             | Q   | 27.10                      | 22.56 | 18.62 | 15.18 | 12.22 | 9.66                | 7.46                 | 5.58  | 4.00     |     |     |
|                   |                | THR | 35.40                      | 30.40 | 25.92 | 21.88 | 18.28 | 15.06               | 12.18                | 9.62  | 7.38     |     |     |
|                   | 50             | Q   | 22.12                      | 18.36 | 15.08 | 12.24 | 9.76  | 7.62                | 5.78                 | 4.22  | 2.90     |     |     |
|                   |                | THR | 31.58                      | 27.12 | 23.10 | 19.48 | 16.20 | 13.24               | 10.60                | 8.24  | 6.18     |     |     |
| MP-103-K-2CES-9Y  | 30             | Q   | 47.67                      | 39.75 | 32.85 | 26.88 | 21.75 | 17.31               | 13.50                | 10.26 | 7.50     |     |     |
|                   |                | THR | 58.08                      | 49.80 | 42.42 | 35.82 | 30.00 | 24.81               | 20.19                | 16.08 | 12.48    |     |     |
|                   | 40             | Q   | 40.65                      | 33.84 | 27.93 | 22.77 | 18.33 | 14.49               | 11.19                | 8.37  | 6.00     |     |     |
|                   |                | THR | 53.10                      | 45.60 | 38.88 | 32.82 | 27.42 | 22.59               | 18.27                | 14.43 | 11.07    |     |     |
|                   | 50             | Q   | 33.18                      | 27.54 | 22.62 | 18.36 | 14.64 | 11.43               | 8.67                 | 6.33  | 4.35     |     |     |
|                   |                | THR | 47.37                      | 40.68 | 34.65 | 29.22 | 24.30 | 19.86               | 15.90                | 12.36 | 9.27     |     |     |
| MP-104-K-2CES-12Y | 30             | Q   | 63.56                      | 53.00 | 43.80 | 35.84 | 29.00 | 23.08               | 18.00                | 13.68 | 10.00    |     |     |
|                   |                | THR | 77.44                      | 66.40 | 56.56 | 47.76 | 40.00 | 33.08               | 26.92                | 21.44 | 16.64    |     |     |
|                   | 40             | Q   | 54.20                      | 45.12 | 37.24 | 30.36 | 24.44 | 19.32               | 14.92                | 11.16 | 8.00     |     |     |
|                   |                | THR | 70.80                      | 60.80 | 51.84 | 43.76 | 36.56 | 30.12               | 24.36                | 19.24 | 14.76    |     |     |
|                   | 50             | Q   | 44.24                      | 36.72 | 30.16 | 24.48 | 19.52 | 15.24               | 11.56                | 8.44  | 5.80     |     |     |
|                   |                | THR | 63.16                      | 54.24 | 46.20 | 38.96 | 32.40 | 26.48               | 21.20                | 16.48 | 12.36    |     |     |
| MP-102-H-2CES-8Y  | 30             | Q   | 37.84                      | 31.78 | 26.50 | 21.90 | 17.92 | 14.50               | 11.54                | 9.00  | 6.84     |     |     |
|                   |                | THR | 44.82                      | 38.62 | 33.12 | 28.20 | 23.84 | 19.98               | 16.52                | 13.46 | 10.74    |     |     |
|                   | 40             | Q   | 32.30                      | 27.10 | 22.56 | 18.62 | 15.18 | 12.22               | 9.66                 | 7.46  | 5.58     |     |     |
|                   |                | THR | 40.78                      | 35.22 | 30.24 | 25.80 | 21.80 | 18.22               | 15.02                | 12.16 | 9.62     |     |     |
|                   | 50             | Q   | 26.38                      | 22.12 | 18.36 | 15.08 | 12.24 | 9.76                | 7.62                 | 5.78  | 4.22     |     |     |
|                   |                | THR | 36.10                      | 31.28 | 26.90 | 22.92 | 19.36 | 16.12               | 13.20                | 10.58 | 8.26     |     |     |
| MP-103-H-2CES-12Y | 30             | Q   | 56.76                      | 47.67 | 39.75 | 32.85 | 26.88 | 21.75               | 17.31                | 13.50 | 10.26    |     |     |
|                   |                | THR | 67.23                      | 57.93 | 49.68 | 42.30 | 35.76 | 29.97               | 24.78                | 20.19 | 16.11    |     |     |
|                   | 40             | Q   | 48.45                      | 40.65 | 33.84 | 27.93 | 22.77 | 18.33               | 14.49                | 11.19 | 8.37     |     |     |
|                   |                | THR | 61.17                      | 52.83 | 45.36 | 38.70 | 32.70 | 27.33               | 22.53                | 18.24 | 14.43    |     |     |
|                   | 50             | Q   | 39.57                      | 33.18 | 27.54 | 22.62 | 18.36 | 14.64               | 11.43                | 8.67  | 6.33     |     |     |
|                   |                | THR | 54.15                      | 46.92 | 40.35 | 34.38 | 29.04 | 24.18               | 19.80                | 15.87 | 12.39    |     |     |
| MP-104-H-2CES-16Y | 30             | Q   | 75.68                      | 63.56 | 53.00 | 43.80 | 35.84 | 29.00               | 23.08                | 18.00 | 13.68    |     |     |
|                   |                | THR | 89.64                      | 77.24 | 66.24 | 56.40 | 47.68 | 39.96               | 33.04                | 26.92 | 21.48    |     |     |
|                   | 40             | Q   | 64.60                      | 54.20 | 45.12 | 37.24 | 30.36 | 24.44               | 19.32                | 14.92 | 11.16    |     |     |
|                   |                | THR | 81.56                      | 70.44 | 60.48 | 51.60 | 43.60 | 36.44               | 30.04                | 24.32 | 19.24    |     |     |
|                   | 50             | Q   | 52.76                      | 44.24 | 36.72 | 30.16 | 24.48 | 19.52               | 15.24                | 11.56 | 8.44     |     |     |
|                   |                | THR | 72.20                      | 62.56 | 53.80 | 45.84 | 38.72 | 32.24               | 26.40                | 21.16 | 16.52    |     |     |
| MP-102-K-4FES-6Y  | 30             | Q   | 35.02                      | 28.92 | 23.68 | 19.22 | 15.40 | 12.20               | 9.50                 | 7.28  | 5.44     |     |     |
|                   |                | THR | 42.44                      | 36.14 | 30.58 | 25.72 | 21.42 | 17.68               | 14.38                | 11.56 | 9.12     |     |     |
|                   | 40             | Q   | 29.68                      | 24.52 | 20.08 | 16.28 | 13.04 | 10.28               | 7.98                 | 6.06  | 4.50     |     |     |
|                   |                | THR | 38.56                      | 32.98 | 28.00 | 23.60 | 19.70 | 16.22               | 13.20                | 10.54 | 8.28     |     |     |
|                   | 50             | Q   | 24.06                      | 19.88 | 16.28 | 13.16 | 10.50 | 8.24                | 6.34                 | 4.76  | 3.46     |     |     |
|                   |                | THR | 34.12                      | 29.30 | 24.98 | 21.08 | 17.58 | 14.46               | 11.70                | 9.28  | 7.16     |     |     |
| MP-103-K-4FES-9Y  | 30             | Q   | 52.53                      | 43.38 | 35.52 | 28.83 | 23.10 | 18.30               | 14.25                | 10.92 | 8.16     |     |     |
|                   |                | THR | 63.66                      | 54.21 | 45.87 | 38.58 | 32.13 | 26.52               | 21.57                | 17.34 | 13.68    |     |     |
|                   | 40             | Q   | 44.52                      | 36.78 | 30.12 | 24.42 | 19.56 | 15.42               | 11.97                | 9.09  | 6.75     |     |     |
|                   |                | THR | 57.84                      | 49.47 | 42.00 | 35.40 | 29.55 | 24.33               | 19.80                | 15.81 | 12.42    |     |     |
|                   | 50             | Q   | 36.09                      | 29.82 | 24.42 | 19.74 | 15.75 | 12.36               | 9.51                 | 7.14  | 5.19     |     |     |
|                   |                | THR | 51.18                      | 43.95 | 37.47 | 31.62 | 26.37 | 21.69               | 17.55                | 13.92 | 10.74    |     |     |

**R404A**

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond. Temp. °C |        |        | Cooling Capacity           |       | Q <sub>o</sub> [kW] | Total Heat Rejection |       | THR [kW] |       |     |
|-------------------|----|----------------|--------|--------|----------------------------|-------|---------------------|----------------------|-------|----------|-------|-----|
|                   |    |                |        |        | Evaporating Temperature °C |       |                     |                      |       |          |       |     |
|                   |    |                |        |        | 5                          | 0     | -5                  | -10                  | -15   | -20      | -25   | -30 |
| MP-104-K-4FES-12Y | 30 | Q              | 70.04  | 57.84  | 47.36                      | 38.44 | 30.80               | 24.40                | 19.00 | 14.56    | 10.88 |     |
|                   |    | THR            | 84.88  | 72.28  | 61.16                      | 51.44 | 42.84               | 35.36                | 28.76 | 23.12    | 18.24 |     |
|                   | 40 | Q              | 59.36  | 49.04  | 40.16                      | 32.56 | 26.08               | 20.56                | 15.96 | 12.12    | 9.00  |     |
|                   |    | THR            | 77.12  | 65.96  | 56.00                      | 47.20 | 39.40               | 32.44                | 26.40 | 21.08    | 16.56 |     |
|                   | 50 | Q              | 48.12  | 39.76  | 32.56                      | 26.32 | 21.00               | 16.48                | 12.68 | 9.52     | 6.92  |     |
|                   |    | THR            | 68.24  | 58.60  | 49.96                      | 42.16 | 35.16               | 28.92                | 23.40 | 18.56    | 14.32 |     |
| MP-102-H-4FES-10Y | 30 | Q              | 42.10  | 35.02  | 28.92                      | 23.68 | 19.22               | 15.42                | 12.20 | 9.50     | 7.28  |     |
|                   |    | THR            | 49.48  | 42.34  | 36.04                      | 30.50 | 25.66               | 21.40                | 17.66 | 14.40    | 11.60 |     |
|                   | 40 | Q              | 35.62  | 29.66  | 24.52                      | 20.08 | 16.28               | 13.02                | 10.28 | 7.98     | 6.06  |     |
|                   |    | THR            | 44.58  | 38.34  | 32.80                      | 27.86 | 23.50               | 19.60                | 16.20 | 13.20    | 10.58 |     |
|                   | 50 | Q              | 28.80  | 24.02  | 19.88                      | 16.26 | 13.16               | 10.50                | 8.26  | 6.36     | 4.76  |     |
|                   |    | THR            | 39.04  | 33.78  | 29.04                      | 24.76 | 20.92               | 17.48                | 14.44 | 11.72    | 9.30  |     |
| MP-103-H-4FES-15Y | 30 | Q              | 63.15  | 52.53  | 43.38                      | 35.52 | 28.83               | 23.13                | 18.30 | 14.25    | 10.92 |     |
|                   |    | THR            | 74.22  | 63.51  | 54.06                      | 45.75 | 38.49               | 32.10                | 26.49 | 21.60    | 17.40 |     |
|                   | 40 | Q              | 53.43  | 44.49  | 36.78                      | 30.12 | 24.42               | 19.53                | 15.42 | 11.97    | 9.09  |     |
|                   |    | THR            | 66.87  | 57.51  | 49.20                      | 41.79 | 35.25               | 29.40                | 24.30 | 19.80    | 15.87 |     |
|                   | 50 | Q              | 43.20  | 36.03  | 29.82                      | 24.39 | 19.74               | 15.75                | 12.39 | 9.54     | 7.14  |     |
|                   |    | THR            | 58.56  | 50.67  | 43.56                      | 37.14 | 31.38               | 26.22                | 21.66 | 17.58    | 13.95 |     |
| MP-104-H-4FES-20Y | 30 | Q              | 84.20  | 70.04  | 57.84                      | 47.36 | 38.44               | 30.84                | 24.40 | 19.00    | 14.56 |     |
|                   |    | THR            | 98.96  | 84.68  | 72.08                      | 61.00 | 51.32               | 42.80                | 35.32 | 28.80    | 23.20 |     |
|                   | 40 | Q              | 71.24  | 59.32  | 49.04                      | 40.16 | 32.56               | 26.04                | 20.56 | 15.96    | 12.12 |     |
|                   |    | THR            | 89.16  | 76.68  | 65.60                      | 55.72 | 47.00               | 39.20                | 32.40 | 26.40    | 21.16 |     |
|                   | 50 | Q              | 57.60  | 48.04  | 39.76                      | 32.52 | 26.32               | 21.00                | 16.52 | 12.72    | 9.52  |     |
|                   |    | THR            | 78.08  | 67.56  | 58.08                      | 49.52 | 41.84               | 34.96                | 28.88 | 23.44    | 18.60 |     |
| MP-102-K-4EES-8Y  | 30 | Q              | 44.20  | 36.60  | 30.02                      | 24.40 | 19.58               | 15.52                | 12.10 | 9.26     | 6.92  |     |
|                   |    | THR            | 53.70  | 45.82  | 38.82                      | 32.64 | 27.18               | 22.38                | 18.20 | 14.56    | 11.44 |     |
|                   | 40 | Q              | 37.62  | 31.10  | 25.48                      | 20.66 | 16.54               | 13.04                | 10.12 | 7.66     | 5.66  |     |
|                   |    | THR            | 49.04  | 41.94  | 35.60                      | 29.96 | 24.94               | 20.50                | 16.62 | 13.20    | 10.28 |     |
|                   | 50 | Q              | 30.72  | 25.38  | 20.76                      | 16.78 | 13.38               | 10.48                | 8.04  | 6.02     | 4.34  |     |
|                   |    | THR            | 43.76  | 37.52  | 31.92                      | 26.88 | 22.36               | 18.32                | 14.74 | 11.62    | 8.88  |     |
| MP-103-K-4EES-12Y | 30 | Q              | 66.30  | 54.90  | 45.03                      | 36.60 | 29.37               | 23.28                | 18.15 | 13.89    | 10.38 |     |
|                   |    | THR            | 80.55  | 68.73  | 58.23                      | 48.96 | 40.77               | 33.57                | 27.30 | 21.84    | 17.16 |     |
|                   | 40 | Q              | 56.43  | 46.65  | 38.22                      | 30.99 | 24.81               | 19.56                | 15.18 | 11.49    | 8.49  |     |
|                   |    | THR            | 73.56  | 62.91  | 53.40                      | 44.94 | 37.41               | 30.75                | 24.93 | 19.80    | 15.42 |     |
|                   | 50 | Q              | 46.08  | 38.07  | 31.14                      | 25.17 | 20.07               | 15.72                | 12.06 | 9.03     | 6.51  |     |
|                   |    | THR            | 65.64  | 56.28  | 47.88                      | 40.32 | 33.54               | 27.48                | 22.11 | 17.43    | 13.32 |     |
| MP-104-K-4EES-16Y | 30 | Q              | 88.40  | 73.20  | 60.04                      | 48.80 | 39.16               | 31.04                | 24.20 | 18.52    | 13.84 |     |
|                   |    | THR            | 107.40 | 91.64  | 77.64                      | 65.28 | 54.36               | 44.76                | 36.40 | 29.12    | 22.88 |     |
|                   | 40 | Q              | 75.24  | 62.20  | 50.96                      | 41.32 | 33.08               | 26.08                | 20.24 | 15.32    | 11.32 |     |
|                   |    | THR            | 98.08  | 83.88  | 71.20                      | 59.92 | 49.88               | 41.00                | 33.24 | 26.40    | 20.56 |     |
|                   | 50 | Q              | 61.44  | 50.76  | 41.52                      | 33.56 | 26.76               | 20.96                | 16.08 | 12.04    | 8.68  |     |
|                   |    | THR            | 87.52  | 75.04  | 63.84                      | 53.76 | 44.72               | 36.64                | 29.48 | 23.24    | 17.76 |     |
| MP-102-H-4EES-12Y | 30 | Q              | 52.80  | 44.00  | 36.32                      | 29.76 | 24.12               | 19.32                | 15.26 | 11.86    | 9.02  |     |
|                   |    | THR            | 62.20  | 53.30  | 45.34                      | 38.36 | 32.20               | 26.76                | 22.02 | 17.86    | 14.26 |     |
|                   | 40 | Q              | 44.80  | 37.30  | 30.78                      | 25.18 | 20.36               | 16.24                | 12.76 | 9.84     | 7.40  |     |
|                   |    | THR            | 56.24  | 48.34  | 41.26                      | 34.98 | 29.38               | 24.40                | 20.02 | 16.18    | 12.82 |     |
|                   | 50 | Q              | 36.48  | 30.34  | 25.02                      | 20.40 | 16.44               | 13.04                | 10.16 | 7.74     | 5.74  |     |
|                   |    | THR            | 49.62  | 42.78  | 36.64                      | 31.10 | 26.14               | 21.68                | 17.72 | 14.20    | 11.12 |     |
| MP-103-H-4EES-18Y | 30 | Q              | 79.20  | 66.00  | 54.48                      | 44.64 | 36.18               | 28.98                | 22.89 | 17.79    | 13.53 |     |
|                   |    | THR            | 93.30  | 79.95  | 68.01                      | 57.54 | 48.30               | 40.14                | 33.03 | 26.79    | 21.39 |     |
|                   | 40 | Q              | 67.20  | 55.95  | 46.17                      | 37.77 | 30.54               | 24.36                | 19.14 | 14.76    | 11.10 |     |
|                   |    | THR            | 84.36  | 72.51  | 61.89                      | 52.47 | 44.07               | 36.60                | 30.03 | 24.27    | 19.23 |     |
|                   | 50 | Q              | 54.72  | 45.51  | 37.53                      | 30.60 | 24.66               | 19.56                | 15.24 | 11.61    | 8.61  |     |
|                   |    | THR            | 74.43  | 64.17  | 54.96                      | 46.65 | 39.21               | 32.52                | 26.58 | 21.30    | 16.68 |     |
| MP-104-H-4EES-24Y | 30 | Q              | 105.60 | 88.00  | 72.64                      | 59.52 | 48.24               | 38.64                | 30.52 | 23.72    | 18.04 |     |
|                   |    | THR            | 124.40 | 106.60 | 90.68                      | 76.72 | 64.40               | 53.52                | 44.04 | 35.72    | 28.52 |     |
|                   | 40 | Q              | 89.60  | 74.60  | 61.56                      | 50.36 | 40.72               | 32.48                | 25.52 | 19.68    | 14.80 |     |
|                   |    | THR            | 112.48 | 96.68  | 82.52                      | 69.96 | 58.76               | 48.80                | 40.04 | 32.36    | 25.64 |     |
|                   | 50 | Q              | 72.96  | 60.68  | 50.04                      | 40.80 | 32.88               | 26.08                | 20.32 | 15.48    | 11.48 |     |
|                   |    | THR            | 99.24  | 85.56  | 73.28                      | 62.20 | 52.28               | 43.36                | 35.44 | 28.40    | 22.24 |     |
| MP-102-K-4DES-10Y | 30 | Q              | 52.40  | 43.50  | 35.72                      | 29.08 | 23.40               | 18.56                | 14.50 | 11.10    | 8.28  |     |
|                   |    | THR            | 63.68  | 54.44  | 46.16                      | 38.86 | 32.42               | 26.72                | 21.76 | 17.42    | 13.68 |     |
|                   | 40 | Q              | 44.80  | 37.06  | 30.38                      | 24.64 | 19.74               | 15.58                | 12.06 | 9.16     | 6.74  |     |
|                   |    | THR            | 58.28  | 49.86  | 42.32                      | 35.62 | 29.68               | 24.42                | 19.78 | 15.76    | 12.26 |     |
|                   | 50 | Q              | 36.88  | 30.44  | 24.88                      | 20.08 | 16.00               | 12.52                | 9.60  | 7.20     | 5.20  |     |
|                   |    | THR            | 52.26  | 44.78  | 38.06                      | 32.00 | 26.62               | 21.82                | 17.58 | 13.90    | 10.68 |     |
| MP-103-K-4DES-15Y | 30 | Q              | 78.60  | 65.25  | 53.58                      | 43.62 | 35.10               | 27.84                | 21.75 | 16.65    | 12.42 |     |
|                   |    | THR            | 95.52  | 81.66  | 69.24                      | 58.29 | 48.63               | 40.08                | 32.64 | 26.13    | 20.52 |     |
|                   | 40 | Q              | 67.20  | 55.59  | 45.57                      | 36.96 | 29.61               | 23.37                | 18.09 | 13.74    | 10.11 |     |
|                   |    | THR            | 87.42  | 74.79  | 63.48                      | 53.43 | 44.52               | 36.63                | 29.67 | 23.64    | 18.39 |     |
|                   | 50 | Q              | 55.32  | 45.66  | 37.32                      | 30.12 | 24.00               | 18.78                | 14.40 | 10.80    | 7.80  |     |
|                   |    | THR            | 78.39  | 67.17  | 57.09                      | 48.00 | 39.93               | 32.73                | 26.37 | 20.85    | 16.02 |     |
| MP-104-K-4DES-20Y | 30 | Q              | 104.80 | 87.00  | 71.44                      | 58.16 | 46.80               | 37.12                | 29.00 | 22.20    | 16.56 |     |
|                   |    | THR            | 127.36 | 108.88 | 92.32                      | 77.72 | 64.84               | 53.44                | 43.52 | 34.84    | 27.36 |     |
|                   | 40 | Q              | 89.60  | 74.12  | 60.76                      | 49.28 | 39.48               | 31.16                | 24.12 | 18.32    | 13.48 |     |
|                   |    | THR            | 116.56 | 99.72  | 84.64                      | 71.24 | 59.36               | 48.84                | 39.56 | 31.52    | 24.52 |     |
|                   | 50 | Q              | 73.76  | 60.88  | 49.76                      | 40.16 | 32.00               | 25.04                | 19.20 | 14.40    | 10.40 |     |
|                   |    | THR            | 104.52 | 89.56  | 76.12                      | 64.00 | 53.24               | 43.64                | 35.16 | 27.80    | 21.36 |     |
| MP-102-H-4DES-14Y | 30 | Q              | 62.90  | 52.50  | 43.50                      | 35.74 | 29.08               | 23.40                | 18.56 | 14.50    | 11.10 |     |
|                   |    | THR            | 74.10  | 63.58  | 54.28                      | 46.04 | 38.76               | 32.34                | 26.68 | 21.76    | 17.46 |     |
|                   | 40 | Q              | 53.80  | 44.80  | 37.08                      | 30.38 | 24.64               | 19.74                | 15.58 | 12.08    | 9.16  |     |
|                   |    | THR            | 67.42  | 57.94  | 49.58                      | 42.08 | 35.44               | 29.56                | 24.36 | 19.78    | 15.78 |     |
|                   | 50 | Q              | 44.30  | 36.86  | 30.44                      | 24.88 | 20.08               | 16.00                | 12.52 | 9.62     | 7.20  |     |
|                   |    | THR            | 59.96  | 51.72  | 44.36                      | 37.72 | 31.76               | 26.46                | 21.74 | 17.58    | 13.92 |     |

# PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond. Temp. °C | Cooling Capacity           |        |        |        |        | Q <sub>o</sub> [kW] | Total Heat Rejection |       | THR [kW] |       |     |
|-------------------|----|----------------|----------------------------|--------|--------|--------|--------|---------------------|----------------------|-------|----------|-------|-----|
|                   |    |                | Evaporating Temperature °C |        |        |        |        |                     |                      |       |          |       |     |
|                   |    |                | 5                          | 0      | -5     | -10    | -15    |                     | -20                  | -25   | -30      | -35   | -40 |
| MP-103-H-4DES-21Y | 30 | Q              | 94.35                      | 78.75  | 65.25  | 53.61  | 43.62  | 35.10               | 27.84                | 21.75 | 16.65    | 12.42 |     |
|                   |    | THR            | 111.15                     | 95.37  | 81.42  | 69.06  | 58.14  | 48.51               | 40.02                | 32.64 | 26.19    | 20.61 |     |
|                   | 40 | Q              | 80.70                      | 67.20  | 55.62  | 45.57  | 36.96  | 29.61               | 23.37                | 18.12 | 13.74    | 10.11 |     |
|                   |    | THR            | 101.13                     | 86.91  | 74.37  | 63.12  | 53.16  | 44.34               | 36.54                | 29.67 | 23.67    | 18.48 |     |
|                   | 50 | Q              | 66.45                      | 55.29  | 45.66  | 37.32  | 30.12  | 24.00               | 18.78                | 14.43 | 10.80    | 7.80  |     |
|                   |    | THR            | 89.94                      | 77.58  | 66.54  | 56.58  | 47.64  | 39.69               | 32.61                | 26.37 | 20.88    | 16.11 |     |
| MP-104-H-4DES-28Y | 30 | Q              | 125.80                     | 105.00 | 87.00  | 71.48  | 58.16  | 46.80               | 37.12                | 29.00 | 22.20    | 16.56 |     |
|                   |    | THR            | 148.20                     | 127.16 | 108.56 | 92.08  | 77.52  | 64.68               | 53.36                | 43.52 | 34.92    | 27.48 |     |
|                   | 40 | Q              | 107.60                     | 89.60  | 74.16  | 60.76  | 49.28  | 39.48               | 31.16                | 24.16 | 18.32    | 13.48 |     |
|                   |    | THR            | 134.84                     | 115.88 | 99.16  | 84.16  | 70.88  | 59.12               | 48.72                | 39.56 | 31.56    | 24.64 |     |
|                   | 50 | Q              | 88.60                      | 73.72  | 60.88  | 49.76  | 40.16  | 32.00               | 25.04                | 19.24 | 14.40    | 10.40 |     |
|                   |    | THR            | 119.92                     | 103.44 | 88.72  | 75.44  | 63.52  | 52.92               | 43.48                | 35.16 | 27.84    | 21.48 |     |
| MP-102-K-4CES-12Y | 30 | Q              |                            | 63.50  | 52.60  | 43.30  | 35.22  | 28.32               | 22.44                | 17.46 | 13.30    | 9.86  |     |
|                   |    | THR            |                            | 77.14  | 65.82  | 55.88  | 46.98  | 39.12               | 32.18                | 26.08 | 20.78    | 16.20 |     |
|                   | 40 | Q              |                            | 54.30  | 44.80  | 36.70  | 29.70  | 23.70               | 18.62                | 14.36 | 10.80    | 7.86  |     |
|                   |    | THR            |                            | 70.50  | 60.12  | 50.98  | 42.78  | 35.50               | 29.06                | 23.44 | 18.52    | 14.28 |     |
|                   | 50 | Q              |                            | 45.00  | 37.04  | 30.16  | 24.24  | 19.22               | 14.96                | 11.38 | 8.44     | 6.02  |     |
|                   |    | THR            |                            | 63.38  | 54.14  | 45.82  | 38.38  | 31.76               | 25.90                | 20.72 | 16.24    | 12.36 |     |
| MP-103-K-4CES-18Y | 30 | Q              |                            | 95.25  | 78.90  | 64.95  | 52.83  | 42.48               | 33.66                | 26.19 | 19.95    | 14.79 |     |
|                   |    | THR            |                            | 115.71 | 98.73  | 83.82  | 70.47  | 58.68               | 48.27                | 39.12 | 31.17    | 24.30 |     |
|                   | 40 | Q              |                            | 81.45  | 67.20  | 55.05  | 44.55  | 35.55               | 27.93                | 21.54 | 16.20    | 11.79 |     |
|                   |    | THR            |                            | 105.75 | 90.18  | 76.47  | 64.17  | 53.25               | 43.59                | 35.16 | 27.78    | 21.42 |     |
|                   | 50 | Q              |                            | 67.50  | 55.56  | 45.24  | 36.36  | 28.83               | 22.44                | 17.07 | 12.66    | 9.03  |     |
|                   |    | THR            |                            | 95.07  | 81.21  | 68.73  | 57.57  | 47.64               | 38.85                | 31.08 | 24.36    | 18.54 |     |
| MP-104-K-4CES-24Y | 30 | Q              |                            | 127.00 | 105.20 | 86.60  | 70.44  | 56.64               | 44.88                | 34.92 | 26.60    | 19.72 |     |
|                   |    | THR            |                            | 154.28 | 131.64 | 111.76 | 93.96  | 78.24               | 64.36                | 52.16 | 41.56    | 32.40 |     |
|                   | 40 | Q              |                            | 108.60 | 89.60  | 73.40  | 59.40  | 47.40               | 37.24                | 28.72 | 21.60    | 15.72 |     |
|                   |    | THR            |                            | 141.00 | 120.24 | 101.96 | 85.56  | 71.00               | 58.12                | 46.88 | 37.04    | 28.56 |     |
|                   | 50 | Q              |                            | 90.00  | 74.08  | 60.32  | 48.48  | 38.44               | 29.92                | 22.76 | 16.88    | 12.04 |     |
|                   |    | THR            |                            | 126.76 | 108.28 | 91.64  | 76.76  | 63.52               | 51.80                | 41.44 | 32.48    | 24.72 |     |
| MP-102-H-4CES-18Y | 30 | Q              |                            | 76.00  | 63.50  | 52.60  | 43.30  | 35.22               | 28.32                | 22.44 | 17.46    | 13.30 |     |
|                   |    | THR            |                            | 89.82  | 77.14  | 65.82  | 55.88  | 46.98               | 39.12                | 32.18 | 26.08    | 20.78 |     |
|                   | 40 | Q              |                            | 65.20  | 54.30  | 44.80  | 36.70  | 29.70               | 23.70                | 18.62 | 14.36    | 10.80 |     |
|                   |    | THR            |                            | 82.04  | 70.50  | 60.12  | 50.98  | 42.78               | 35.50                | 29.06 | 23.44    | 18.52 |     |
|                   | 50 | Q              |                            | 54.20  | 45.00  | 37.04  | 30.16  | 24.24               | 19.22                | 14.96 | 11.38    | 8.44  |     |
|                   |    | THR            |                            | 73.70  | 63.38  | 54.14  | 45.82  | 38.38               | 31.76                | 25.90 | 20.72    | 16.24 |     |
| MP-103-H-4CES-27Y | 30 | Q              |                            | 114.00 | 95.25  | 78.90  | 64.95  | 52.83               | 42.48                | 33.66 | 26.19    | 19.95 |     |
|                   |    | THR            |                            | 134.73 | 115.71 | 98.73  | 83.82  | 70.47               | 58.68                | 48.27 | 39.12    | 31.17 |     |
|                   | 40 | Q              |                            | 97.80  | 81.45  | 67.20  | 55.05  | 44.55               | 35.55                | 27.93 | 21.54    | 16.20 |     |
|                   |    | THR            |                            | 123.06 | 105.75 | 90.18  | 76.47  | 64.17               | 53.25                | 43.59 | 35.16    | 27.78 |     |
|                   | 50 | Q              |                            | 81.30  | 67.50  | 55.56  | 45.24  | 36.36               | 28.83                | 22.44 | 17.07    | 12.66 |     |
|                   |    | THR            |                            | 110.55 | 95.07  | 81.21  | 68.73  | 57.57               | 47.64                | 38.85 | 31.08    | 24.36 |     |
| MP-104-H-4CES-36Y | 30 | Q              |                            | 152.00 | 127.00 | 105.20 | 86.60  | 70.44               | 56.64                | 44.88 | 34.92    | 26.60 |     |
|                   |    | THR            |                            | 179.64 | 154.28 | 131.64 | 111.76 | 93.96               | 78.24                | 64.36 | 52.16    | 41.56 |     |
|                   | 40 | Q              |                            | 130.40 | 108.60 | 89.60  | 73.40  | 59.40               | 47.40                | 37.24 | 28.72    | 21.60 |     |
|                   |    | THR            |                            | 164.08 | 141.00 | 120.24 | 101.96 | 85.56               | 71.00                | 58.12 | 46.88    | 37.04 |     |
|                   | 50 | Q              |                            | 108.40 | 90.00  | 74.08  | 60.32  | 48.48               | 38.44                | 29.92 | 22.76    | 16.88 |     |
|                   |    | THR            |                            | 147.40 | 126.76 | 108.28 | 91.64  | 76.76               | 63.52                | 51.80 | 41.44    | 32.48 |     |
| MP-202-K-4VES-14Y | 30 | Q              |                            | 68.20  | 56.30  | 46.00  | 37.18  | 29.64               | 23.20                | 17.78 | 13.26    | 9.50  |     |
|                   |    | THR            |                            | 82.50  | 70.14  | 59.10  | 49.32  | 40.68               | 33.02                | 26.32 | 20.54    | 15.58 |     |
|                   | 40 | Q              |                            | 57.60  | 47.30  | 38.36  | 30.72  | 24.22               | 18.70                | 14.08 | 10.26    | 7.12  |     |
|                   |    | THR            |                            | 74.76  | 63.38  | 53.14  | 44.08  | 36.04               | 28.96                | 22.78 | 17.46    | 12.94 |     |
|                   | 50 | Q              |                            | 47.10  | 38.36  | 30.86  | 24.42  | 18.96               | 14.38                | 10.56 | 7.42     | 4.88  |     |
|                   |    | THR            |                            | 66.64  | 56.20  | 46.90  | 38.58  | 31.20               | 24.74                | 19.12 | 14.28    | 10.22 |     |
| MP-203-K-4VES-21Y | 30 | Q              |                            | 102.30 | 84.45  | 69.00  | 55.77  | 44.46               | 34.80                | 26.67 | 19.89    | 14.25 |     |
|                   |    | THR            |                            | 123.75 | 105.21 | 88.65  | 73.98  | 61.02               | 49.53                | 39.48 | 30.81    | 23.37 |     |
|                   | 40 | Q              |                            | 86.40  | 70.95  | 57.54  | 46.08  | 36.33               | 28.05                | 21.12 | 15.39    | 10.68 |     |
|                   |    | THR            |                            | 112.14 | 95.07  | 79.71  | 66.12  | 54.06               | 43.44                | 34.17 | 26.19    | 19.41 |     |
|                   | 50 | Q              |                            | 70.65  | 57.54  | 46.29  | 36.63  | 28.44               | 21.57                | 15.84 | 11.13    | 7.32  |     |
|                   |    | THR            |                            | 99.96  | 84.30  | 70.35  | 57.87  | 46.80               | 37.11                | 28.68 | 21.42    | 15.33 |     |
| MP-204-K-4VES-28Y | 30 | Q              |                            | 136.40 | 112.60 | 92.00  | 74.36  | 59.28               | 46.40                | 35.56 | 26.52    | 19.00 |     |
|                   |    | THR            |                            | 165.00 | 140.28 | 118.20 | 98.64  | 81.36               | 66.04                | 52.64 | 41.08    | 31.16 |     |
|                   | 40 | Q              |                            | 115.20 | 94.60  | 76.72  | 61.44  | 48.44               | 37.40                | 28.16 | 20.52    | 14.24 |     |
|                   |    | THR            |                            | 149.52 | 126.76 | 106.28 | 88.16  | 72.08               | 57.92                | 45.56 | 34.92    | 25.88 |     |
|                   | 50 | Q              |                            | 94.20  | 76.72  | 61.72  | 48.84  | 37.92               | 28.76                | 21.12 | 14.84    | 9.76  |     |
|                   |    | THR            |                            | 133.28 | 112.40 | 93.80  | 77.16  | 62.40               | 49.48                | 38.24 | 28.56    | 20.44 |     |
| MP-202-H-4VES-20Y | 30 | Q              |                            | 82.10  | 68.30  | 56.30  | 46.00  | 37.18               | 29.62                | 23.20 | 17.78    | 13.26 |     |
|                   |    | THR            |                            | 96.04  | 82.14  | 69.72  | 58.76  | 49.06               | 40.46                | 32.90 | 26.28    | 20.56 |     |
|                   | 40 | Q              |                            | 69.60  | 57.60  | 47.30  | 38.36  | 30.70               | 24.20                | 18.70 | 14.08    | 10.28 |     |
|                   |    | THR            |                            | 86.68  | 74.00  | 62.74  | 52.66  | 43.70               | 35.78                | 28.82 | 22.74    | 17.52 |     |
|                   | 50 | Q              |                            | 57.20  | 47.10  | 38.36  | 30.84  | 24.40               | 18.96                | 14.38 | 10.56    | 7.44  |     |
|                   |    | THR            |                            | 76.88  | 65.54  | 55.36  | 46.24  | 38.12               | 30.92                | 24.60 | 19.08    | 14.34 |     |
| MP-203-H-4VES-30Y | 30 | Q              |                            | 123.15 | 102.45 | 84.45  | 69.00  | 55.77               | 44.43                | 34.80 | 26.67    | 19.89 |     |
|                   |    | THR            |                            | 144.06 | 123.21 | 104.58 | 88.14  | 73.59               | 60.69                | 49.35 | 39.42    | 30.84 |     |
|                   | 40 | Q              |                            | 104.40 | 86.40  | 70.95  | 57.54  | 46.05               | 36.30                | 28.05 | 21.12    | 15.42 |     |
|                   |    | THR            |                            | 130.02 | 111.00 | 94.11  | 78.99  | 65.55               | 53.67                | 43.23 | 34.11    | 26.28 |     |
|                   | 50 | Q              |                            | 85.80  | 70.65  | 57.54  | 46.26  | 36.60               | 28.44                | 21.57 | 15.84    | 11.16 |     |
|                   |    | THR            |                            | 115.32 | 98.31  | 83.04  | 69.36  | 57.18               | 46.38                | 36.90 | 28.62    | 21.51 |     |
| MP-204-H-4VES-40Y | 30 | Q              |                            | 164.20 | 136.60 | 112.60 | 92.00  | 74.36               | 59.24                | 46.40 | 35.56    | 26.52 |     |
|                   |    | THR            |                            | 192.08 | 164.28 | 139.44 | 117.52 | 98.12               | 80.92                | 65.80 | 52.56    | 41.12 |     |
|                   | 40 | Q              |                            | 139.20 | 115.20 | 94.60  | 76.72  | 61.40               | 48.40                | 37.40 | 28.16    | 20.56 |     |
|                   |    | THR            |                            | 173.36 | 148.00 | 125.48 | 105.32 | 87.40               | 71.56                | 57.64 | 45.48    | 35.04 |     |
|                   | 50 | Q              |                            | 114.40 | 94.20  | 76.72  | 61.68  | 48.80               | 37.92                | 28.76 | 21.12    | 14.88 |     |
|                   |    | THR            |                            | 153.76 | 131.08 | 110.72 | 92.48  | 76.24               | 61.84                | 49.20 | 38.16    | 28.68 |     |



R404A

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond. Temp. °C | Cooling Capacity           |        |        |        |        | Q <sub>o</sub> [kW] |       | Total Heat Rejection |       | THR [kW] |  |
|-------------------|----|----------------|----------------------------|--------|--------|--------|--------|---------------------|-------|----------------------|-------|----------|--|
|                   |    |                | Evaporating Temperature °C |        |        |        |        |                     |       |                      |       |          |  |
|                   |    |                | 5                          | 0      | -5     | -10    | -15    | -20                 | -25   | -30                  | -35   | -40      |  |
| MP-202-K-4TES-18Y | 30 | Q              | 81.70                      | 67.60  | 55.40  | 44.90  | 35.94  | 28.30               | 21.86 | 16.46                | 12.00 |          |  |
|                   |    | THR            | 98.90                      | 84.24  | 71.18  | 59.58  | 49.32  | 40.26               | 32.34 | 25.46                | 19.58 |          |  |
|                   | 40 | Q              | 69.40                      | 57.20  | 46.60  | 37.50  | 29.74  | 23.16               | 17.64 | 13.04                | 9.26  |          |  |
|                   |    | THR            | 90.04                      | 76.60  | 64.52  | 53.76  | 44.22  | 35.82               | 28.48 | 22.12                | 16.70 |          |  |
|                   | 50 | Q              | 57.00                      | 46.60  | 37.72  | 30.08  | 23.56  | 18.06               | 13.48 | 9.68                 | 6.60  |          |  |
|                   |    | THR            | 80.50                      | 68.20  | 57.26  | 47.46  | 38.72  | 31.04               | 24.32 | 18.54                | 13.64 |          |  |
| MP-203-K-4TES-27Y | 30 | Q              | 122.55                     | 101.40 | 83.10  | 67.35  | 53.91  | 42.45               | 32.79 | 24.69                | 18.00 |          |  |
|                   |    | THR            | 148.35                     | 126.36 | 106.77 | 89.37  | 73.98  | 60.39               | 48.51 | 38.19                | 29.37 |          |  |
|                   | 40 | Q              | 104.10                     | 85.80  | 69.90  | 56.25  | 44.61  | 34.74               | 26.46 | 19.56                | 13.89 |          |  |
|                   |    | THR            | 135.06                     | 114.90 | 96.78  | 80.64  | 66.33  | 53.73               | 42.72 | 33.18                | 25.05 |          |  |
|                   | 50 | Q              | 85.50                      | 69.90  | 56.58  | 45.12  | 35.34  | 27.09               | 20.22 | 14.52                | 9.90  |          |  |
|                   |    | THR            | 120.75                     | 102.30 | 85.89  | 71.19  | 58.08  | 46.56               | 36.48 | 27.81                | 20.46 |          |  |
| MP-204-K-4TES-36Y | 30 | Q              | 163.40                     | 135.20 | 110.80 | 89.80  | 71.88  | 56.60               | 43.72 | 32.92                | 24.00 |          |  |
|                   |    | THR            | 197.80                     | 168.48 | 142.36 | 119.16 | 98.64  | 80.52               | 64.68 | 50.92                | 39.16 |          |  |
|                   | 40 | Q              | 138.80                     | 114.40 | 93.20  | 75.00  | 59.48  | 46.32               | 35.28 | 26.08                | 18.52 |          |  |
|                   |    | THR            | 180.08                     | 153.20 | 129.04 | 107.52 | 88.44  | 71.64               | 56.96 | 44.24                | 33.40 |          |  |
|                   | 50 | Q              | 114.00                     | 93.20  | 75.44  | 60.16  | 47.12  | 36.12               | 26.96 | 19.36                | 13.20 |          |  |
|                   |    | THR            | 161.00                     | 136.40 | 114.52 | 94.92  | 77.44  | 62.08               | 48.64 | 37.08                | 27.28 |          |  |
| MP-202-H-4TES-24Y | 30 | Q              | 98.40                      | 81.90  | 67.70  | 55.40  | 44.90  | 35.86               | 28.20 | 21.74                | 16.36 | 11.90    |  |
|                   |    | THR            | 115.44                     | 98.76  | 84.02  | 70.88  | 59.30  | 49.00               | 39.96 | 32.08                | 25.26 | 19.42    |  |
|                   | 40 | Q              | 83.60                      | 69.40  | 57.10  | 46.40  | 37.34  | 29.56               | 23.00 | 17.50                | 12.94 | 9.20     |  |
|                   |    | THR            | 104.46                     | 89.40  | 75.94  | 63.86  | 53.22  | 43.74               | 35.42 | 28.18                | 21.92 | 16.62    |  |
|                   | 50 | Q              | 68.90                      | 57.00  | 46.60  | 37.62  | 29.98  | 23.46               | 18.00 | 13.44                | 9.70  | 6.66     |  |
|                   |    | THR            | 93.04                      | 79.64  | 67.50  | 56.62  | 46.94  | 38.34               | 30.80 | 24.22                | 18.60 | 13.86    |  |
| MP-203-H-4TES-36Y | 30 | Q              | 147.60                     | 122.85 | 101.55 | 83.10  | 67.35  | 53.79               | 42.30 | 32.61                | 24.54 | 17.85    |  |
|                   |    | THR            | 173.16                     | 148.14 | 126.03 | 106.32 | 88.95  | 73.50               | 59.94 | 48.12                | 37.89 | 29.13    |  |
|                   | 40 | Q              | 125.40                     | 104.10 | 85.65  | 69.60  | 56.01  | 44.34               | 34.50 | 26.25                | 19.41 | 13.80    |  |
|                   |    | THR            | 156.69                     | 134.10 | 113.91 | 95.79  | 79.83  | 65.61               | 53.13 | 42.27                | 32.88 | 24.93    |  |
|                   | 50 | Q              | 103.35                     | 85.50  | 69.90  | 56.43  | 44.97  | 35.19               | 27.00 | 20.16                | 14.55 | 9.99     |  |
|                   |    | THR            | 139.56                     | 119.46 | 101.25 | 84.93  | 70.41  | 57.51               | 46.20 | 36.33                | 27.90 | 20.79    |  |
| MP-204-H-4TES-48Y | 30 | Q              | 196.80                     | 163.80 | 135.40 | 110.80 | 89.80  | 71.72               | 56.40 | 43.48                | 32.72 | 23.80    |  |
|                   |    | THR            | 230.88                     | 197.52 | 168.04 | 141.76 | 118.60 | 98.00               | 79.92 | 64.16                | 50.52 | 38.84    |  |
|                   | 40 | Q              | 167.20                     | 138.80 | 114.20 | 92.80  | 74.68  | 59.12               | 46.00 | 35.00                | 25.88 | 18.40    |  |
|                   |    | THR            | 208.92                     | 178.80 | 151.88 | 127.72 | 106.44 | 87.48               | 70.84 | 56.36                | 43.84 | 33.24    |  |
|                   | 50 | Q              | 137.80                     | 114.00 | 93.20  | 75.24  | 59.96  | 46.92               | 36.00 | 26.88                | 19.40 | 13.32    |  |
|                   |    | THR            | 186.08                     | 159.28 | 135.00 | 113.24 | 93.88  | 76.68               | 61.60 | 48.44                | 37.20 | 27.72    |  |
| MP-202-K-4PES-24Y | 30 | Q              | 94.50                      | 77.80  | 63.50  | 51.20  | 40.70  | 31.80               | 24.32 | 18.10                | 13.00 |          |  |
|                   |    | THR            | 113.94                     | 96.52  | 81.18  | 67.56  | 55.56  | 45.02               | 35.82 | 27.88                | 21.10 |          |  |
|                   | 40 | Q              | 80.00                      | 65.60  | 53.10  | 42.40  | 33.36  | 25.72               | 19.32 | 14.04                | 9.74  |          |  |
|                   |    | THR            | 103.02                     | 87.16  | 72.96  | 60.34  | 49.26  | 39.52               | 31.00 | 23.66                | 17.40 |          |  |
|                   | 50 | Q              | 65.10                      | 53.00  | 42.50  | 33.58  | 26.02  | 19.66               | 14.40 | 10.08                | 6.60  |          |  |
|                   |    | THR            | 90.94                      | 76.68  | 63.84  | 52.44  | 42.36  | 33.46               | 25.72 | 19.06                | 13.42 |          |  |
| MP-203-K-4PES-36Y | 30 | Q              | 141.75                     | 116.70 | 95.25  | 76.80  | 61.05  | 47.70               | 36.48 | 27.15                | 19.50 |          |  |
|                   |    | THR            | 170.91                     | 144.78 | 121.77 | 101.34 | 83.34  | 67.53               | 53.73 | 41.82                | 31.65 |          |  |
|                   | 40 | Q              | 120.00                     | 98.40  | 79.65  | 63.60  | 50.04  | 38.58               | 28.98 | 21.06                | 14.61 |          |  |
|                   |    | THR            | 154.53                     | 130.74 | 109.44 | 90.51  | 73.89  | 59.28               | 46.50 | 35.49                | 26.10 |          |  |
|                   | 50 | Q              | 97.65                      | 79.50  | 63.75  | 50.37  | 39.03  | 29.49               | 21.60 | 15.12                | 9.90  |          |  |
|                   |    | THR            | 136.41                     | 115.02 | 95.76  | 78.66  | 63.54  | 50.19               | 38.58 | 28.59                | 20.13 |          |  |
| MP-204-K-4PES-48Y | 30 | Q              | 189.00                     | 155.60 | 127.00 | 102.40 | 81.40  | 63.60               | 48.64 | 36.20                | 26.00 |          |  |
|                   |    | THR            | 227.88                     | 193.04 | 162.36 | 135.12 | 111.12 | 90.04               | 71.64 | 55.76                | 42.20 |          |  |
|                   | 40 | Q              | 160.00                     | 131.20 | 106.20 | 84.80  | 66.72  | 51.44               | 38.64 | 28.08                | 19.48 |          |  |
|                   |    | THR            | 206.04                     | 174.32 | 145.92 | 120.68 | 98.52  | 79.04               | 62.00 | 47.32                | 34.80 |          |  |
|                   | 50 | Q              | 130.20                     | 106.00 | 85.00  | 67.16  | 52.04  | 39.32               | 28.80 | 20.16                | 13.20 |          |  |
|                   |    | THR            | 181.88                     | 153.36 | 127.68 | 104.88 | 84.72  | 66.92               | 51.44 | 38.12                | 26.84 |          |  |
| MP-202-H-4PES-30Y | 30 | Q              | 114.00                     | 94.60  | 77.90  | 63.40  | 51.10  | 40.60               | 31.60 | 24.10                | 17.86 | 12.74    |  |
|                   |    | THR            | 133.80                     | 114.04 | 96.60  | 81.04  | 67.40  | 55.38               | 44.72 | 35.48                | 27.52 | 20.74    |  |
|                   | 40 | Q              | 96.40                      | 79.60  | 65.20  | 52.80  | 42.10  | 33.04               | 25.42 | 19.04                | 13.78 | 9.52     |  |
|                   |    | THR            | 120.32                     | 102.40 | 86.54  | 72.44  | 59.84  | 48.76               | 39.06 | 30.60                | 23.32 | 17.18    |  |
|                   | 50 | Q              | 78.90                      | 64.80  | 52.70  | 42.30  | 33.36  | 25.84               | 19.52 | 14.28                | 10.00 | 6.56     |  |
|                   |    | THR            | 106.28                     | 90.36  | 76.16  | 63.46  | 52.12  | 42.12               | 33.34 | 25.70                | 19.16 | 13.66    |  |
| MP-203-H-4PES-45Y | 30 | Q              | 171.00                     | 141.90 | 116.85 | 95.10  | 76.65  | 60.90               | 47.40 | 36.15                | 26.79 | 19.11    |  |
|                   |    | THR            | 200.70                     | 171.06 | 144.90 | 121.56 | 101.10 | 83.07               | 67.08 | 53.22                | 41.28 | 31.11    |  |
|                   | 40 | Q              | 144.60                     | 119.40 | 97.80  | 79.20  | 63.15  | 49.56               | 38.13 | 28.56                | 20.67 | 14.28    |  |
|                   |    | THR            | 180.48                     | 153.60 | 129.81 | 108.66 | 89.76  | 73.14               | 58.59 | 45.90                | 34.98 | 25.77    |  |
|                   | 50 | Q              | 118.35                     | 97.20  | 79.05  | 63.45  | 50.04  | 38.76               | 29.28 | 21.42                | 15.00 | 9.84     |  |
|                   |    | THR            | 159.42                     | 135.54 | 114.24 | 95.19  | 78.18  | 63.18               | 50.01 | 38.55                | 28.74 | 20.49    |  |
| MP-204-H-4PES-60Y | 30 | Q              | 228.00                     | 189.20 | 155.80 | 126.80 | 102.20 | 81.20               | 63.20 | 48.20                | 35.72 | 25.48    |  |
|                   |    | THR            | 267.60                     | 228.08 | 193.20 | 162.08 | 134.80 | 110.76              | 89.44 | 70.96                | 55.04 | 41.48    |  |
|                   | 40 | Q              | 192.80                     | 159.20 | 130.40 | 105.60 | 84.20  | 66.08               | 50.84 | 38.08                | 27.56 | 19.04    |  |
|                   |    | THR            | 240.64                     | 204.80 | 173.08 | 144.88 | 119.68 | 97.52               | 78.12 | 61.20                | 46.64 | 34.36    |  |
|                   | 50 | Q              | 157.80                     | 129.60 | 105.40 | 84.60  | 66.72  | 51.68               | 39.04 | 28.56                | 20.00 | 13.12    |  |
|                   |    | THR            | 212.56                     | 180.72 | 152.32 | 126.92 | 104.24 | 84.24               | 66.68 | 51.40                | 38.32 | 27.32    |  |
| MP-202-K-4NES-28Y | 30 | Q              | 110.80                     | 91.40  | 74.80  | 60.50  | 48.30  | 37.96               | 29.30 | 22.10                | 16.18 |          |  |
|                   |    | THR            | 133.98                     | 113.70 | 95.88  | 80.06  | 66.12  | 53.90               | 43.26 | 34.06                | 26.18 |          |  |
|                   | 40 | Q              | 94.40                      | 77.60  | 63.10  | 50.80  | 40.20  | 31.28               | 23.82 | 17.64                | 12.58 |          |  |
|                   |    | THR            | 121.88                     | 103.42 | 86.96  | 72.48  | 59.54  | 48.18               | 38.28 | 29.70                | 22.34 |          |  |
|                   | 50 | Q              | 77.10                      | 63.10  | 51.00  | 40.70  | 31.90  | 24.48               | 18.28 | 13.16                | 9.02  |          |  |
|                   |    | THR            | 108.02                     | 91.60  | 76.86  | 63.76  | 52.06  | 41.70               | 32.62 | 24.74                | 18.00 |          |  |
| MP-203-K-4NES-42Y | 30 | Q              | 166.20                     | 137.10 | 112.20 | 90.75  | 72.45  | 56.94               | 43.95 | 33.15                | 24.27 |          |  |
|                   |    | THR            | 200.97                     | 170.55 | 143.82 | 120.09 | 99.18  | 80.85               | 64.89 | 51.09                | 39.27 |          |  |
|                   | 40 | Q              | 141.60                     | 116.40 | 94.65  | 76.20  | 60.30  | 46.92               | 35.73 | 26.46                | 18.87 |          |  |
|                   |    | THR            | 182.82                     | 155.13 | 130.44 | 108.72 | 89.31  | 72.27               | 57.42 | 44.55                | 33.51 |          |  |
|                   | 50 | Q              | 115.65                     | 94.65  | 76.50  | 61.05  | 47.85  | 36.72               | 27.42 | 19.74                | 13.53 |          |  |
|                   |    | THR            | 162.03                     | 137.40 | 115.29 | 95.64  | 78.09  | 62.55               | 48.93 | 37.11                | 27.00 |          |  |

# PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond. Temp. °C | Cooling Capacity<br>Q <sub>o</sub> [kW] |        |        |        |        |        |        |       |       |       | Total Heat Rejection |  | THR [kW] |  |
|-------------------|----|----------------|-----------------------------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|----------------------|--|----------|--|
|                   |    |                | Evaporating Temperature °C              |        |        |        |        |        |        |       |       |       |                      |  |          |  |
|                   |    |                | 5                                       | 0      | -5     | -10    | -15    | -20    | -25    | -30   | -35   | -40   |                      |  |          |  |
| MP-204-K-4NES-56Y | 30 | Q              | 221.60                                  | 182.80 | 149.60 | 121.00 | 96.60  | 75.92  | 58.60  | 44.20 | 32.36 |       |                      |  |          |  |
|                   |    | THR            | 267.96                                  | 227.40 | 191.76 | 160.12 | 132.24 | 107.80 | 86.52  | 68.12 | 52.36 |       |                      |  |          |  |
|                   | 40 | Q              | 188.80                                  | 155.20 | 126.20 | 101.60 | 80.40  | 62.56  | 47.64  | 35.28 | 25.16 |       |                      |  |          |  |
|                   |    | THR            | 243.76                                  | 206.84 | 173.92 | 144.96 | 119.08 | 96.36  | 76.56  | 59.40 | 44.68 |       |                      |  |          |  |
|                   | 50 | Q              | 154.20                                  | 126.20 | 102.00 | 81.40  | 63.80  | 48.96  | 36.56  | 26.32 | 18.04 |       |                      |  |          |  |
|                   |    | THR            | 216.04                                  | 183.20 | 153.72 | 127.52 | 104.12 | 83.40  | 65.24  | 49.48 | 36.00 |       |                      |  |          |  |
| MP-202-H-4NES-40Y | 30 | Q              | 134.00                                  | 111.40 | 92.00  | 75.20  | 60.80  | 48.60  | 38.16  | 29.42 | 22.16 | 16.20 |                      |  |          |  |
|                   |    | THR            | 157.36                                  | 134.30 | 114.00 | 95.96  | 80.04  | 66.12  | 53.82  | 43.14 | 33.96 | 26.18 |                      |  |          |  |
|                   | 40 | Q              | 113.80                                  | 94.40  | 77.60  | 63.10  | 50.80  | 40.20  | 31.32  | 23.88 | 17.72 | 12.70 |                      |  |          |  |
|                   |    | THR            | 141.92                                  | 121.24 | 102.80 | 86.38  | 71.96  | 59.10  | 47.90  | 38.16 | 29.78 | 22.70 |                      |  |          |  |
|                   | 50 | Q              | 93.60                                   | 77.40  | 63.40  | 51.30  | 40.90  | 32.14  | 24.76  | 18.62 | 13.56 | 9.48  |                      |  |          |  |
|                   |    | THR            | 125.98                                  | 107.72 | 91.38  | 76.74  | 63.68  | 52.20  | 42.10  | 33.34 | 25.82 | 19.52 |                      |  |          |  |
| MP-203-H-4NES-60Y | 30 | Q              | 201.00                                  | 167.10 | 138.00 | 112.80 | 91.20  | 72.90  | 57.24  | 44.13 | 33.24 | 24.30 |                      |  |          |  |
|                   |    | THR            | 236.04                                  | 201.45 | 171.00 | 143.94 | 120.06 | 99.18  | 80.73  | 64.71 | 50.94 | 39.27 |                      |  |          |  |
|                   | 40 | Q              | 170.70                                  | 141.60 | 116.40 | 94.65  | 76.20  | 60.30  | 46.98  | 35.82 | 26.58 | 19.05 |                      |  |          |  |
|                   |    | THR            | 212.88                                  | 181.86 | 154.20 | 129.57 | 107.94 | 88.65  | 71.85  | 57.24 | 44.67 | 34.05 |                      |  |          |  |
|                   | 50 | Q              | 140.40                                  | 116.10 | 95.10  | 76.95  | 61.35  | 48.21  | 37.14  | 27.93 | 20.34 | 14.22 |                      |  |          |  |
|                   |    | THR            | 188.97                                  | 161.58 | 137.07 | 115.11 | 95.52  | 78.30  | 63.15  | 50.01 | 38.73 | 29.28 |                      |  |          |  |
| MP-204-H-4NES-80Y | 30 | Q              | 268.00                                  | 222.80 | 184.00 | 150.40 | 121.60 | 97.20  | 76.32  | 58.84 | 44.32 | 32.40 |                      |  |          |  |
|                   |    | THR            | 314.72                                  | 268.60 | 228.00 | 191.92 | 160.08 | 132.24 | 107.64 | 86.28 | 67.92 | 52.36 |                      |  |          |  |
|                   | 40 | Q              | 227.60                                  | 188.80 | 155.20 | 126.20 | 101.60 | 80.40  | 62.64  | 47.76 | 35.44 | 25.40 |                      |  |          |  |
|                   |    | THR            | 283.84                                  | 242.48 | 205.60 | 172.76 | 143.92 | 118.20 | 95.80  | 76.32 | 59.56 | 45.40 |                      |  |          |  |
|                   | 50 | Q              | 187.20                                  | 154.80 | 126.80 | 102.60 | 81.80  | 64.28  | 49.52  | 37.24 | 27.12 | 18.96 |                      |  |          |  |
|                   |    | THR            | 251.96                                  | 215.44 | 182.76 | 153.48 | 127.36 | 104.40 | 84.20  | 66.68 | 51.64 | 39.04 |                      |  |          |  |
| MP-302-K-4JE-30Y  | 30 | Q              | 124.80                                  | 103.80 | 85.70  | 69.90  | 56.40  | 44.80  | 34.88  | 26.50 | 19.46 |       |                      |  |          |  |
|                   |    | THR            | 150.90                                  | 128.92 | 109.52 | 92.14  | 76.84  | 63.28  | 51.30  | 40.80 | 31.66 |       |                      |  |          |  |
|                   | 40 | Q              | 106.80                                  | 88.60  | 72.80  | 59.10  | 47.30  | 37.20  | 28.60  | 21.36 | 15.30 |       |                      |  |          |  |
|                   |    | THR            | 137.62                                  | 117.60 | 99.72  | 83.72  | 69.50  | 56.88  | 45.72  | 35.94 | 27.42 |       |                      |  |          |  |
|                   | 50 | Q              | 88.40                                   | 73.00  | 59.70  | 48.10  | 38.16  | 29.62  | 22.40  | 16.32 | 11.28 |       |                      |  |          |  |
|                   |    | THR            | 123.20                                  | 105.20 | 89.08  | 74.54  | 61.58  | 49.98  | 39.74  | 30.74 | 22.92 |       |                      |  |          |  |
| MP-303-K-4JE-45Y  | 30 | Q              | 187.20                                  | 155.70 | 128.55 | 104.85 | 84.60  | 67.20  | 52.32  | 39.75 | 29.19 |       |                      |  |          |  |
|                   |    | THR            | 226.35                                  | 193.38 | 164.28 | 138.21 | 115.26 | 94.92  | 76.95  | 61.20 | 47.49 |       |                      |  |          |  |
|                   | 40 | Q              | 160.20                                  | 132.90 | 109.20 | 88.65  | 70.95  | 55.80  | 42.90  | 32.04 | 22.95 |       |                      |  |          |  |
|                   |    | THR            | 206.43                                  | 176.40 | 149.58 | 125.58 | 104.25 | 85.32  | 68.58  | 53.91 | 41.13 |       |                      |  |          |  |
|                   | 50 | Q              | 132.60                                  | 109.50 | 89.55  | 72.15  | 57.24  | 44.43  | 33.60  | 24.48 | 16.92 |       |                      |  |          |  |
|                   |    | THR            | 184.80                                  | 157.80 | 133.62 | 111.81 | 92.37  | 74.97  | 59.61  | 46.11 | 34.38 |       |                      |  |          |  |
| MP-304-K-4JE-60Y  | 30 | Q              | 249.60                                  | 207.60 | 171.40 | 139.80 | 112.80 | 89.60  | 69.76  | 53.00 | 38.92 |       |                      |  |          |  |
|                   |    | THR            | 301.80                                  | 257.84 | 219.04 | 184.28 | 153.68 | 126.56 | 102.60 | 81.60 | 63.32 |       |                      |  |          |  |
|                   | 40 | Q              | 213.60                                  | 177.20 | 145.60 | 118.20 | 94.60  | 74.40  | 57.20  | 42.72 | 30.60 |       |                      |  |          |  |
|                   |    | THR            | 275.24                                  | 235.20 | 199.44 | 167.44 | 139.00 | 113.76 | 91.44  | 71.88 | 54.84 |       |                      |  |          |  |
|                   | 50 | Q              | 176.80                                  | 146.00 | 119.40 | 96.20  | 76.32  | 59.24  | 44.80  | 32.64 | 22.56 |       |                      |  |          |  |
|                   |    | THR            | 246.40                                  | 210.40 | 178.16 | 149.08 | 123.16 | 99.96  | 79.48  | 61.48 | 45.84 |       |                      |  |          |  |
| MP-302-H-4JE-44Y  | 30 | Q              | 147.40                                  | 123.20 | 102.20 | 84.10  | 68.40  | 54.90  | 43.30  | 33.48 | 25.16 | 18.18 |                      |  |          |  |
|                   |    | THR            | 173.44                                  | 148.64 | 126.66 | 107.24 | 89.98  | 74.68  | 61.12  | 49.24 | 38.82 | 29.72 |                      |  |          |  |
|                   | 40 | Q              | 126.00                                  | 105.00 | 86.80  | 71.00  | 57.40  | 45.60  | 35.56  | 27.04 | 19.84 | 13.86 |                      |  |          |  |
|                   |    | THR            | 157.42                                  | 134.92 | 114.90 | 97.04  | 81.16  | 66.94  | 54.40  | 43.32 | 33.58 | 25.10 |                      |  |          |  |
|                   | 50 | Q              | 103.80                                  | 86.40  | 71.00  | 57.70  | 46.20  | 36.30  | 27.86  | 20.70 | 14.70 | 9.72  |                      |  |          |  |
|                   |    | THR            | 139.80                                  | 120.06 | 102.06 | 85.96  | 71.54  | 58.62  | 47.14  | 36.96 | 28.02 | 20.20 |                      |  |          |  |
| MP-303-H-4JE-66Y  | 30 | Q              | 221.10                                  | 184.80 | 153.30 | 126.15 | 102.60 | 82.35  | 64.95  | 50.22 | 37.74 | 27.27 |                      |  |          |  |
|                   |    | THR            | 260.16                                  | 222.96 | 189.99 | 160.86 | 134.97 | 112.02 | 91.68  | 73.86 | 58.23 | 44.58 |                      |  |          |  |
|                   | 40 | Q              | 189.00                                  | 157.50 | 130.20 | 106.50 | 86.10  | 68.40  | 53.34  | 40.56 | 29.76 | 20.79 |                      |  |          |  |
|                   |    | THR            | 236.13                                  | 202.38 | 172.35 | 145.56 | 121.74 | 100.41 | 81.60  | 64.98 | 50.37 | 37.65 |                      |  |          |  |
|                   | 50 | Q              | 155.70                                  | 129.60 | 106.50 | 86.55  | 69.30  | 54.45  | 41.79  | 31.05 | 22.05 | 14.58 |                      |  |          |  |
|                   |    | THR            | 209.70                                  | 180.09 | 153.09 | 128.94 | 107.31 | 87.93  | 70.71  | 55.44 | 42.03 | 30.30 |                      |  |          |  |
| MP-304-H-4JE-88Y  | 30 | Q              | 294.80                                  | 246.40 | 204.40 | 168.20 | 136.80 | 109.80 | 86.60  | 66.96 | 50.32 | 36.36 |                      |  |          |  |
|                   |    | THR            | 346.88                                  | 297.28 | 253.32 | 214.48 | 179.96 | 149.36 | 122.24 | 98.48 | 77.64 | 59.44 |                      |  |          |  |
|                   | 40 | Q              | 252.00                                  | 210.00 | 173.60 | 142.00 | 114.80 | 91.20  | 71.12  | 54.08 | 39.68 | 27.72 |                      |  |          |  |
|                   |    | THR            | 314.84                                  | 269.84 | 229.80 | 194.08 | 162.32 | 133.88 | 108.80 | 86.64 | 67.16 | 50.20 |                      |  |          |  |
|                   | 50 | Q              | 207.60                                  | 172.80 | 142.00 | 115.40 | 92.40  | 72.60  | 55.72  | 41.40 | 29.40 | 19.44 |                      |  |          |  |
|                   |    | THR            | 279.60                                  | 240.12 | 204.12 | 171.92 | 143.08 | 117.24 | 94.28  | 73.92 | 56.04 | 40.40 |                      |  |          |  |
| MP-302-K-4HE-36Y  | 30 | Q              | 145.40                                  | 121.00 | 100.00 | 81.80  | 66.10  | 52.60  | 41.20  | 31.50 | 23.36 |       |                      |  |          |  |
|                   |    | THR            | 176.72                                  | 151.04 | 128.40 | 108.24 | 90.34  | 74.48  | 60.62  | 48.40 | 37.78 |       |                      |  |          |  |
|                   | 40 | Q              | 124.40                                  | 103.40 | 85.20  | 69.40  | 55.80  | 44.10  | 34.16  | 25.78 | 18.78 |       |                      |  |          |  |
|                   |    | THR            | 161.40                                  | 138.12 | 117.36 | 98.78  | 82.26  | 67.54  | 54.56  | 43.20 | 33.34 |       |                      |  |          |  |
|                   | 50 | Q              | 102.80                                  | 85.30  | 70.00  | 56.70  | 45.20  | 35.44  | 27.14  | 20.14 | 14.32 |       |                      |  |          |  |
|                   |    | THR            | 144.66                                  | 123.94 | 105.22 | 88.38  | 73.26  | 59.88  | 48.02  | 37.62 | 28.60 |       |                      |  |          |  |
| MP-303-K-4HE-54Y  | 30 | Q              | 218.10                                  | 181.50 | 150.00 | 122.70 | 99.15  | 78.90  | 61.80  | 47.25 | 35.04 |       |                      |  |          |  |
|                   |    | THR            | 265.08                                  | 226.56 | 192.60 | 162.36 | 135.51 | 111.72 | 90.93  | 72.60 | 56.67 |       |                      |  |          |  |
|                   | 40 | Q              | 186.60                                  | 155.10 | 127.80 | 104.10 | 83.70  | 66.15  | 51.24  | 38.67 | 28.17 |       |                      |  |          |  |
|                   |    | THR            | 242.10                                  | 207.18 | 176.04 | 148.17 | 123.39 | 101.31 | 81.84  | 64.80 | 50.01 |       |                      |  |          |  |
|                   | 50 | Q              | 154.20                                  | 127.95 | 105.00 | 85.05  | 67.80  | 53.16  | 40.71  | 30.21 | 21.48 |       |                      |  |          |  |
|                   |    | THR            | 216.99                                  | 185.91 | 157.83 | 132.57 | 109.89 | 89.82  | 72.03  | 56.43 | 42.90 |       |                      |  |          |  |
| MP-304-K-4HE-72Y  | 30 | Q              | 290.80                                  | 242.00 | 200.00 | 163.60 | 132.20 | 105.20 | 82.40  | 63.00 | 46.72 |       |                      |  |          |  |
|                   |    | THR            | 353.44                                  | 302.08 | 256.80 | 216.48 | 180.68 | 148.96 | 121.24 | 96.80 | 75.56 |       |                      |  |          |  |
|                   | 40 | Q              | 248.80                                  | 206.80 | 170.40 | 138.80 | 111.60 | 88.20  | 68.32  | 51.56 | 37.56 |       |                      |  |          |  |
|                   |    | THR            | 322.80                                  | 276.24 | 234.72 | 197.56 | 164.52 | 135.08 | 109.12 | 86.40 | 66.68 |       |                      |  |          |  |
|                   | 50 | Q              | 205.60                                  | 170.60 | 140.00 | 113.40 | 90.40  | 70.88  | 54.28  | 40.28 | 28.64 |       |                      |  |          |  |
|                   |    | THR            | 289.32                                  | 247.88 | 210.44 | 176.76 | 146.52 | 119.76 | 96.04  | 75.24 | 57.20 |       |                      |  |          |  |
| MP-302-H-4HE-50Y  | 30 | Q              | 172.00                                  | 144.20 | 119.80 | 98.80  | 80.60  | 65.00  | 51.50  | 40.10 | 30.46 | 22.36 |                      |  |          |  |
|                   |    | THR            | 203.10                                  | 174.50 | 148.90 | 126.32 | 106.26 | 88.56  | 72.78  | 58.98 | 46.90 | 36.36 |                      |  |          |  |
|                   | 40 | Q              | 147.20                                  | 123.00 | 102.00 | 83.80  | 68.00  | 54.40  | 42.80  | 32.94 | 24.62 | 17.66 |                      |  |          |  |
|                   |    | THR            | 184.46                                  | 158.48 | 135.36 | 114.74 | 96.32  | 79.92  | 65.44  | 52.64 | 41.42 | 31.64 |                      |  |          |  |
|                   | 50 | Q              | 121.40                                  | 101.40 | 83.80  | 68.50  | 55.20  | 43.80  | 34.08  | 25.82 | 18.88 | 13.12 |                      |  |          |  |
|                   |    | THR            | 163.84                                  | 141.16 | 120.62 | 102.14 | 85.50  | 70.68  | 57.50  | 45.82 | 35.56 | 26.64 |                      |  |          |  |



**R404A**

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond. Temp. °C | Cooling Capacity Q <sub>o</sub> [kW] |        |        |        |        |        | Total Heat Rejection |        | THR [kW] |        |
|-------------------|----|----------------|--------------------------------------|--------|--------|--------|--------|--------|----------------------|--------|----------|--------|
|                   |    |                | Evaporating Temperature °C           |        |        |        |        |        |                      |        |          |        |
|                   |    |                |                                      |        |        |        |        |        |                      |        |          |        |
|                   |    |                | 5                                    | 0      | -5     | -10    | -15    | -20    | -25                  | -30    | -35      | -40    |
| MP-303-H-4HE-75Y  | 30 | Q              | 258.00                               | 216.30 | 179.70 | 148.20 | 120.90 | 97.50  | 77.25                | 60.15  | 45.69    | 33.54  |
|                   |    | THR            | 304.65                               | 261.75 | 223.35 | 189.48 | 159.39 | 132.84 | 109.17               | 88.47  | 70.35    | 54.54  |
|                   | 40 | Q              | 220.80                               | 184.50 | 153.00 | 125.70 | 102.00 | 81.60  | 64.20                | 49.41  | 36.93    | 26.49  |
|                   |    | THR            | 276.69                               | 237.72 | 203.04 | 172.11 | 144.48 | 119.88 | 98.16                | 78.96  | 62.13    | 47.46  |
|                   | 50 | Q              | 182.10                               | 152.10 | 125.70 | 102.75 | 82.80  | 65.70  | 51.12                | 38.73  | 28.32    | 19.68  |
|                   |    | THR            | 245.76                               | 211.74 | 180.93 | 153.21 | 128.25 | 106.02 | 86.25                | 68.73  | 53.34    | 39.96  |
| MP-303-H-4HE-100Y | 30 | Q              | 344.00                               | 288.40 | 239.60 | 197.60 | 161.20 | 130.00 | 103.00               | 80.20  | 60.92    | 44.72  |
|                   |    | THR            | 406.20                               | 349.00 | 297.80 | 252.64 | 212.52 | 177.12 | 145.56               | 117.96 | 93.80    | 72.72  |
|                   | 40 | Q              | 294.40                               | 246.00 | 204.00 | 167.60 | 136.00 | 108.80 | 85.60                | 65.88  | 49.24    | 35.32  |
|                   |    | THR            | 368.92                               | 316.96 | 270.72 | 229.48 | 192.64 | 159.84 | 130.88               | 105.28 | 82.84    | 63.28  |
|                   | 50 | Q              | 242.80                               | 202.80 | 167.60 | 137.00 | 110.40 | 87.60  | 68.16                | 51.64  | 37.76    | 26.24  |
|                   |    | THR            | 327.68                               | 282.32 | 241.24 | 204.28 | 171.00 | 141.36 | 115.00               | 91.64  | 71.12    | 53.28  |
| MP-302-K-4GE-46Y  | 30 | Q              |                                      | 167.60 | 139.80 | 115.60 | 94.70  | 76.70  | 61.30                | 48.20  | 37.08    | 27.76  |
|                   |    | THR            |                                      | 205.04 | 175.56 | 149.28 | 125.96 | 105.30 | 87.06                | 71.02  | 56.94    | 44.72  |
|                   | 40 | Q              |                                      | 143.60 | 119.60 | 98.70  | 80.60  | 65.10  | 51.80                | 40.40  | 30.84    | 22.86  |
|                   |    | THR            |                                      | 187.90 | 161.02 | 136.96 | 115.48 | 96.46  | 79.56                | 64.58  | 51.52    | 40.22  |
|                   | 50 | Q              |                                      | 118.60 | 98.60  | 81.20  | 66.10  | 53.10  | 42.00                | 32.58  | 24.64    | 18.02  |
|                   |    | THR            |                                      | 168.82 | 144.84 | 123.26 | 103.86 | 86.54  | 71.16                | 57.58  | 45.68    | 35.38  |
| MP-303-K-4GE-69Y  | 30 | Q              |                                      | 251.40 | 209.70 | 173.40 | 142.05 | 115.05 | 91.95                | 72.30  | 55.62    | 41.64  |
|                   |    | THR            |                                      | 307.56 | 263.34 | 223.92 | 188.94 | 157.95 | 130.59               | 106.53 | 85.41    | 67.08  |
|                   | 40 | Q              |                                      | 215.40 | 179.40 | 148.05 | 120.90 | 97.65  | 77.70                | 60.60  | 46.26    | 34.29  |
|                   |    | THR            |                                      | 281.85 | 241.53 | 205.44 | 173.22 | 144.69 | 119.34               | 96.87  | 77.28    | 60.33  |
|                   | 50 | Q              |                                      | 177.90 | 147.90 | 121.80 | 99.15  | 79.65  | 63.00                | 48.87  | 36.96    | 27.03  |
|                   |    | THR            |                                      | 253.23 | 217.26 | 184.89 | 155.79 | 129.81 | 106.74               | 86.37  | 68.52    | 53.07  |
| MP-304-K-4GE-92Y  | 30 | Q              |                                      | 335.20 | 279.60 | 231.20 | 189.40 | 153.40 | 122.60               | 96.40  | 74.16    | 55.52  |
|                   |    | THR            |                                      | 410.08 | 351.12 | 298.56 | 251.92 | 210.60 | 174.12               | 142.04 | 113.88   | 89.44  |
|                   | 40 | Q              |                                      | 287.20 | 239.20 | 197.40 | 161.20 | 130.20 | 103.60               | 80.80  | 61.68    | 45.72  |
|                   |    | THR            |                                      | 375.80 | 322.04 | 273.92 | 230.96 | 192.92 | 159.12               | 129.16 | 103.04   | 80.44  |
|                   | 50 | Q              |                                      | 237.20 | 197.20 | 162.40 | 132.20 | 106.20 | 84.00                | 65.16  | 49.28    | 36.04  |
|                   |    | THR            |                                      | 337.64 | 289.68 | 246.52 | 207.72 | 173.08 | 142.32               | 115.16 | 91.36    | 70.76  |
| MP-302-H-4GE-60Y  | 30 | Q              |                                      | 197.40 | 165.40 | 137.60 | 113.60 | 92.70  | 74.80                | 59.40  | 46.30    | 35.28  |
|                   |    | THR            |                                      | 233.78 | 200.72 | 171.40 | 145.48 | 122.36 | 102.00               | 83.94  | 68.06    | 54.22  |
|                   | 40 | Q              |                                      | 168.80 | 141.20 | 117.20 | 96.40  | 78.40  | 62.80                | 49.60  | 38.32    | 28.82  |
|                   |    | THR            |                                      | 212.04 | 182.32 | 155.80 | 132.18 | 111.14 | 92.30                | 75.78  | 61.12    | 48.30  |
|                   | 50 | Q              |                                      | 138.80 | 115.80 | 96.00  | 78.60  | 63.60  | 50.70                | 39.64  | 30.28    | 22.42  |
|                   |    | THR            |                                      | 187.74 | 161.68 | 138.48 | 117.44 | 98.64  | 81.82                | 66.82  | 53.56    | 41.92  |
| MP-303-H-4GE-90Y  | 30 | Q              |                                      | 296.10 | 248.10 | 206.40 | 170.40 | 139.05 | 112.20               | 89.10  | 69.45    | 52.92  |
|                   |    | THR            |                                      | 350.67 | 301.08 | 257.10 | 218.22 | 183.54 | 153.00               | 125.91 | 102.09   | 81.33  |
|                   | 40 | Q              |                                      | 253.20 | 211.80 | 175.80 | 144.60 | 117.60 | 94.20                | 74.40  | 57.48    | 43.23  |
|                   |    | THR            |                                      | 318.06 | 273.48 | 233.70 | 198.27 | 166.71 | 138.45               | 113.67 | 91.68    | 72.45  |
|                   | 50 | Q              |                                      | 208.20 | 173.70 | 144.00 | 117.90 | 95.40  | 76.05                | 59.46  | 45.42    | 33.63  |
|                   |    | THR            |                                      | 281.61 | 242.52 | 207.72 | 176.16 | 147.96 | 122.73               | 100.23 | 80.34    | 62.88  |
| MP-304-H-4GE-120Y | 30 | Q              |                                      | 394.80 | 330.80 | 275.20 | 227.20 | 185.40 | 149.60               | 118.80 | 92.60    | 70.56  |
|                   |    | THR            |                                      | 467.56 | 401.44 | 342.80 | 290.96 | 244.72 | 204.00               | 167.88 | 136.12   | 108.44 |
|                   | 40 | Q              |                                      | 337.60 | 282.40 | 234.40 | 192.80 | 156.80 | 125.60               | 99.20  | 76.64    | 57.64  |
|                   |    | THR            |                                      | 424.08 | 364.64 | 311.60 | 264.36 | 222.28 | 184.60               | 151.56 | 122.24   | 96.60  |
|                   | 50 | Q              |                                      | 277.60 | 231.60 | 192.00 | 157.20 | 127.20 | 101.40               | 79.28  | 60.56    | 44.84  |
|                   |    | THR            |                                      | 375.48 | 323.36 | 276.96 | 234.88 | 197.28 | 163.64               | 133.64 | 107.12   | 83.84  |
| MP-302-K-4FE-56Y  | 30 | Q              |                                      | 198.80 | 166.00 | 137.60 | 112.80 | 91.60  | 73.40                | 57.90  | 44.70    | 33.66  |
|                   |    | THR            |                                      | 243.42 | 208.84 | 178.14 | 150.56 | 126.24 | 104.66               | 85.62  | 68.84    | 54.22  |
|                   | 40 | Q              |                                      | 170.00 | 142.00 | 117.60 | 96.40  | 78.00  | 62.20                | 48.70  | 37.18    | 27.44  |
|                   |    | THR            |                                      | 222.32 | 191.32 | 163.46 | 138.42 | 115.92 | 95.84                | 78.00  | 62.16    | 48.20  |
|                   | 50 | Q              |                                      | 140.20 | 117.20 | 97.00  | 79.30  | 64.00  | 50.70                | 39.26  | 29.42    | 21.04  |
|                   |    | THR            |                                      | 199.14 | 171.94 | 147.18 | 124.62 | 104.28 | 85.84                | 69.30  | 54.44    | 41.26  |
| MP-303-K-4FE-84Y  | 30 | Q              |                                      | 298.20 | 249.00 | 206.40 | 169.20 | 137.40 | 110.10               | 86.85  | 67.05    | 50.49  |
|                   |    | THR            |                                      | 365.13 | 313.26 | 267.21 | 225.84 | 189.36 | 156.99               | 128.43 | 103.26   | 81.33  |
|                   | 40 | Q              |                                      | 255.00 | 213.00 | 176.40 | 144.60 | 117.00 | 93.30                | 73.05  | 55.77    | 41.16  |
|                   |    | THR            |                                      | 333.48 | 286.98 | 245.19 | 207.63 | 173.88 | 143.76               | 117.00 | 93.24    | 72.30  |
|                   | 50 | Q              |                                      | 210.30 | 175.80 | 145.50 | 118.95 | 96.00  | 76.05                | 58.89  | 44.13    | 31.56  |
|                   |    | THR            |                                      | 298.71 | 257.91 | 220.77 | 186.93 | 156.42 | 128.76               | 103.95 | 81.66    | 61.89  |
| MP-304-K-4FE-112Y | 30 | Q              |                                      | 397.60 | 332.00 | 275.20 | 225.60 | 183.20 | 146.80               | 115.80 | 89.40    | 67.32  |
|                   |    | THR            |                                      | 486.84 | 417.68 | 356.28 | 301.12 | 252.48 | 209.32               | 171.24 | 137.68   | 108.44 |
|                   | 40 | Q              |                                      | 340.00 | 284.00 | 235.20 | 192.80 | 156.00 | 124.40               | 97.40  | 74.36    | 54.88  |
|                   |    | THR            |                                      | 444.64 | 382.64 | 326.92 | 276.84 | 231.84 | 191.68               | 156.00 | 124.32   | 96.40  |
|                   | 50 | Q              |                                      | 280.40 | 234.40 | 194.00 | 158.60 | 128.00 | 101.40               | 78.52  | 58.84    | 42.08  |
|                   |    | THR            |                                      | 398.28 | 343.88 | 294.36 | 249.24 | 208.56 | 171.68               | 138.60 | 108.88   | 82.52  |
| MP-302-K-4FE-70Y  | 30 | Q              |                                      | 235.80 | 198.00 | 165.20 | 136.60 | 112.00 | 90.80                | 72.60  | 57.10    | 44.00  |
|                   |    | THR            |                                      | 280.66 | 241.74 | 207.20 | 176.30 | 148.98 | 124.70               | 103.16 | 84.16    | 67.52  |
|                   | 40 | Q              |                                      | 201.00 | 169.00 | 141.00 | 116.60 | 95.40  | 77.10                | 61.30  | 47.80    | 36.32  |
|                   |    | THR            |                                      | 254.62 | 220.22 | 189.26 | 161.44 | 136.46 | 114.12               | 94.10  | 76.30    | 60.56  |
|                   | 50 | Q              |                                      | 165.20 | 139.00 | 116.00 | 95.80  | 78.20  | 63.00                | 49.70  | 38.28    | 28.48  |
|                   |    | THR            |                                      | 226.44 | 196.58 | 169.46 | 144.76 | 122.38 | 102.20               | 83.84  | 67.38    | 52.64  |
| MP-303-K-4FE-105Y | 30 | Q              |                                      | 353.70 | 297.00 | 247.80 | 204.90 | 168.00 | 136.20               | 108.90 | 85.65    | 66.00  |
|                   |    | THR            |                                      | 420.99 | 362.61 | 310.80 | 264.45 | 223.47 | 187.05               | 154.74 | 126.24   | 101.28 |
|                   | 40 | Q              |                                      | 301.50 | 253.50 | 211.50 | 174.90 | 143.10 | 115.65               | 91.95  | 71.70    | 54.48  |
|                   |    | THR            |                                      | 381.93 | 330.33 | 283.89 | 242.16 | 204.69 | 171.18               | 141.15 | 114.45   | 90.84  |
|                   | 50 | Q              |                                      | 247.80 | 208.50 | 174.00 | 143.70 | 117.30 | 94.50                | 74.55  | 57.42    | 42.72  |
|                   |    | THR            |                                      | 339.66 | 294.87 | 254.19 | 217.14 | 183.57 | 153.30               | 125.76 | 101.07   | 78.96  |
| MP-304-K-4FE-140Y | 30 | Q              |                                      | 471.60 | 396.00 | 330.40 | 273.20 | 224.00 | 181.60               | 145.20 | 114.20   | 88.00  |
|                   |    | THR            |                                      | 561.32 | 483.48 | 414.40 | 352.60 | 297.96 | 249.40               | 206.32 | 168.32   | 135.04 |
|                   | 40 | Q              |                                      | 402.00 | 338.00 | 282.00 | 233.20 | 190.80 | 154.20               | 122.60 | 95.60    | 72.64  |
|                   |    | THR            |                                      | 509.24 | 440.44 | 378.52 | 322.88 | 272.92 | 228.24               | 188.20 | 152.60   | 121.12 |
|                   | 50 | Q              |                                      | 330.40 | 278.00 | 232.00 | 191.60 | 156.40 | 126.00               | 99.40  | 76.56    | 56.96  |
|                   |    | THR            |                                      | 452.88 | 393.16 | 338.92 | 289.52 | 244.76 | 204.40               | 167.68 | 134.76   | 105.28 |

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond. Temp. °C |     | Cooling Capacity           |        |        |        |        | Q <sub>o</sub> [kW] | Total Heat Rejection |        | THR [kW] |        |     |
|-------------------|----------------|-----|----------------------------|--------|--------|--------|--------|---------------------|----------------------|--------|----------|--------|-----|
|                   |                |     | Evaporating Temperature °C |        |        |        |        |                     |                      |        |          |        |     |
|                   |                |     | 5                          | 0      | -5     | -10    | -15    |                     | -20                  | -25    | -30      | -35    | -40 |
| MP-302-K-6JE-50Y  | 30             | Q   | 184.80                     | 153.80 | 127.00 | 103.80 | 83.70  | 66.50               | 51.90                | 39.58  | 29.22    |        |     |
|                   |                | THR | 223.08                     | 190.82 | 162.18 | 136.66 | 113.88 | 93.70               | 75.94                | 60.36  | 46.76    |        |     |
|                   | 40             | Q   | 158.80                     | 131.80 | 108.20 | 87.80  | 70.30  | 55.40               | 42.60                | 31.94  | 23.02    |        |     |
|                   |                | THR | 203.98                     | 174.54 | 148.00 | 124.28 | 103.16 | 84.44               | 67.72                | 53.16  | 40.42    |        |     |
|                   | 50             | Q   | 132.20                     | 109.20 | 89.10  | 71.80  | 56.90  | 44.20               | 33.50                | 24.52  | 17.08    |        |     |
|                   |                | THR | 183.18                     | 156.64 | 132.58 | 111.00 | 91.62  | 74.32               | 59.00                | 45.48  | 33.70    |        |     |
| MP-303-K-6JE-75Y  | 30             | Q   | 277.20                     | 230.70 | 190.50 | 155.70 | 125.55 | 99.75               | 77.85                | 59.37  | 43.83    |        |     |
|                   |                | THR | 334.62                     | 286.23 | 243.27 | 204.99 | 170.82 | 140.55              | 113.91               | 90.54  | 70.14    |        |     |
|                   | 40             | Q   | 238.20                     | 197.70 | 162.30 | 131.70 | 105.45 | 83.10               | 63.90                | 47.91  | 34.53    |        |     |
|                   |                | THR | 305.97                     | 261.81 | 222.00 | 186.42 | 154.74 | 126.66              | 101.58               | 79.74  | 60.63    |        |     |
|                   | 50             | Q   | 198.30                     | 163.80 | 133.65 | 107.70 | 85.35  | 66.30               | 50.25                | 36.78  | 25.62    |        |     |
|                   |                | THR | 274.77                     | 234.96 | 198.87 | 166.50 | 137.43 | 111.48              | 88.50                | 68.22  | 50.55    |        |     |
| MP-304-K-6JE-100Y | 30             | Q   | 369.60                     | 307.60 | 254.00 | 207.60 | 167.40 | 133.00              | 103.80               | 79.16  | 58.44    |        |     |
|                   |                | THR | 446.16                     | 381.64 | 324.36 | 273.32 | 227.76 | 187.40              | 151.88               | 120.72 | 93.52    |        |     |
|                   | 40             | Q   | 317.60                     | 263.60 | 216.40 | 175.60 | 140.60 | 110.80              | 85.20                | 63.88  | 46.04    |        |     |
|                   |                | THR | 407.96                     | 349.08 | 296.00 | 248.56 | 206.32 | 168.88              | 135.44               | 106.32 | 80.84    |        |     |
|                   | 50             | Q   | 264.40                     | 218.40 | 178.20 | 143.60 | 113.80 | 88.40               | 67.00                | 49.04  | 34.16    |        |     |
|                   |                | THR | 366.36                     | 313.28 | 265.16 | 222.00 | 183.24 | 148.64              | 118.00               | 90.96  | 67.40    |        |     |
| MP-302-H-6JE-66Y  | 30             | Q   | 217.60                     | 182.00 | 151.00 | 124.20 | 101.00 | 81.00               | 64.00                | 49.40  | 37.18    | 26.90  |     |
|                   |                | THR | 255.46                     | 219.26 | 187.00 | 158.40 | 132.92 | 110.28              | 90.36                | 72.66  | 57.22    | 43.72  |     |
|                   | 40             | Q   | 186.60                     | 155.60 | 128.40 | 105.00 | 84.80  | 67.30               | 52.40                | 39.82  | 29.22    | 20.40  |     |
|                   |                | THR | 232.06                     | 199.24 | 169.64 | 143.38 | 119.92 | 98.90               | 80.26                | 63.82  | 49.34    | 36.72  |     |
|                   | 50             | Q   | 154.80                     | 128.60 | 105.60 | 85.60  | 68.40  | 53.60               | 41.00                | 30.42  | 21.56    | 14.26  |     |
|                   |                | THR | 206.64                     | 177.46 | 151.02 | 127.16 | 105.80 | 86.62               | 69.50                | 54.36  | 41.00    | 29.32  |     |
| MP-303-H-6JE-99Y  | 30             | Q   | 326.40                     | 273.00 | 226.50 | 186.30 | 151.50 | 121.50              | 96.00                | 74.10  | 55.77    | 40.35  |     |
|                   |                | THR | 383.19                     | 328.89 | 280.50 | 237.60 | 199.38 | 165.42              | 135.54               | 108.99 | 85.83    | 65.58  |     |
|                   | 40             | Q   | 279.90                     | 233.40 | 192.60 | 157.50 | 127.20 | 100.95              | 78.60                | 59.73  | 43.83    | 30.60  |     |
|                   |                | THR | 348.09                     | 298.86 | 254.46 | 215.07 | 179.88 | 148.35              | 120.39               | 95.73  | 74.01    | 55.08  |     |
|                   | 50             | Q   | 232.20                     | 192.90 | 158.40 | 128.40 | 102.60 | 80.40               | 61.50                | 45.63  | 32.34    | 21.39  |     |
|                   |                | THR | 309.96                     | 266.19 | 226.53 | 190.74 | 158.70 | 129.93              | 104.25               | 81.54  | 61.50    | 43.98  |     |
| MP-304-H-6JE-132Y | 30             | Q   | 435.20                     | 364.00 | 302.00 | 248.40 | 202.00 | 162.00              | 128.00               | 98.80  | 74.36    | 53.80  |     |
|                   |                | THR | 510.92                     | 438.52 | 374.00 | 316.80 | 265.84 | 220.56              | 180.72               | 145.32 | 114.44   | 87.44  |     |
|                   | 40             | Q   | 373.20                     | 311.20 | 256.80 | 210.00 | 169.60 | 134.60              | 104.80               | 79.64  | 58.44    | 40.80  |     |
|                   |                | THR | 464.12                     | 398.48 | 339.28 | 286.76 | 239.84 | 197.80              | 160.52               | 127.64 | 98.68    | 73.44  |     |
|                   | 50             | Q   | 309.60                     | 257.20 | 211.20 | 171.20 | 136.80 | 107.20              | 82.00                | 60.84  | 43.12    | 28.52  |     |
|                   |                | THR | 413.28                     | 354.92 | 302.04 | 254.32 | 211.60 | 173.24              | 139.00               | 108.72 | 82.00    | 58.64  |     |
| MP-302-K-6HE-56Y  | 30             | Q   | 213.40                     | 177.80 | 146.80 | 120.20 | 97.20  | 77.50               | 60.70                | 46.60  | 34.64    |        |     |
|                   |                | THR | 259.30                     | 221.94 | 188.58 | 159.12 | 132.86 | 109.64              | 89.12                | 71.26  | 55.56    |        |     |
|                   | 40             | Q   | 182.60                     | 151.80 | 125.20 | 102.00 | 82.00  | 64.90               | 50.30                | 38.04  | 27.76    |        |     |
|                   |                | THR | 236.62                     | 202.70 | 172.50 | 145.28 | 120.98 | 99.40               | 80.24                | 63.46  | 48.78    |        |     |
|                   | 50             | Q   | 151.40                     | 125.60 | 103.00 | 83.50  | 66.60  | 52.20               | 39.94                | 29.60  | 20.98    |        |     |
|                   |                | THR | 212.52                     | 182.30 | 154.88 | 130.26 | 108.04 | 88.22               | 70.58                | 54.98  | 41.34    |        |     |
| MP-303-K-6HE-84Y  | 30             | Q   | 320.10                     | 266.70 | 220.20 | 180.30 | 145.80 | 116.25              | 91.05                | 69.90  | 51.96    |        |     |
|                   |                | THR | 388.95                     | 332.91 | 282.87 | 238.68 | 199.29 | 164.46              | 133.68               | 106.89 | 83.34    |        |     |
|                   | 40             | Q   | 273.90                     | 227.70 | 187.80 | 153.00 | 123.00 | 97.35               | 75.45                | 57.06  | 41.64    |        |     |
|                   |                | THR | 354.93                     | 304.05 | 258.75 | 217.92 | 181.47 | 149.10              | 120.36               | 95.19  | 73.17    |        |     |
|                   | 50             | Q   | 227.10                     | 188.40 | 154.50 | 125.25 | 99.90  | 78.30               | 59.91                | 44.40  | 31.47    |        |     |
|                   |                | THR | 318.78                     | 273.45 | 232.32 | 195.39 | 162.06 | 132.33              | 105.87               | 82.47  | 62.01    |        |     |
| MP-304-K-6HE-112Y | 30             | Q   | 426.80                     | 355.60 | 293.60 | 240.40 | 194.40 | 155.00              | 121.40               | 93.20  | 69.28    |        |     |
|                   |                | THR | 518.60                     | 443.88 | 377.16 | 318.24 | 265.72 | 219.28              | 178.24               | 142.52 | 111.12   |        |     |
|                   | 40             | Q   | 365.20                     | 303.60 | 250.40 | 204.00 | 164.00 | 129.80              | 100.60               | 76.08  | 55.52    |        |     |
|                   |                | THR | 473.24                     | 405.40 | 345.00 | 290.56 | 241.96 | 198.80              | 160.48               | 126.92 | 97.56    |        |     |
|                   | 50             | Q   | 302.80                     | 251.20 | 206.00 | 167.00 | 133.20 | 104.40              | 79.88                | 59.20  | 41.96    |        |     |
|                   |                | THR | 425.04                     | 364.60 | 309.76 | 260.52 | 216.08 | 176.44              | 141.16               | 109.96 | 82.68    |        |     |
| MP-302-H-6HE-70Y  | 30             | Q   | 252.40                     | 211.40 | 176.00 | 145.00 | 118.40 | 95.50               | 75.80                | 59.10  | 45.00    | 33.12  |     |
|                   |                | THR | 298.10                     | 256.12 | 219.06 | 185.84 | 156.52 | 130.54              | 107.48               | 87.22  | 69.50    | 54.00  |     |
|                   | 40             | Q   | 216.00                     | 180.60 | 149.80 | 123.00 | 100.00 | 80.10               | 63.00                | 48.50  | 36.28    | 26.06  |     |
|                   |                | THR | 270.62                     | 232.90 | 199.22 | 169.04 | 142.28 | 118.34              | 96.98                | 78.12  | 61.54    | 47.04  |     |
|                   | 50             | Q   | 178.60                     | 149.00 | 123.20 | 100.80 | 81.30  | 64.50               | 50.20                | 37.94  | 27.68    | 19.14  |     |
|                   |                | THR | 240.98                     | 207.84 | 177.98 | 151.12 | 126.86 | 105.06              | 85.64                | 68.22  | 52.86    | 39.36  |     |
| MP-303-H-6HE-105Y | 30             | Q   | 378.60                     | 317.10 | 264.00 | 217.50 | 177.60 | 143.25              | 113.70               | 88.65  | 67.50    | 49.68  |     |
|                   |                | THR | 447.15                     | 384.18 | 328.59 | 278.76 | 234.78 | 195.81              | 161.22               | 130.83 | 104.25   | 81.00  |     |
|                   | 40             | Q   | 324.00                     | 270.90 | 224.70 | 184.50 | 150.00 | 120.15              | 94.50                | 72.75  | 54.42    | 39.09  |     |
|                   |                | THR | 405.93                     | 349.35 | 298.83 | 253.56 | 213.42 | 177.51              | 145.47               | 117.18 | 92.31    | 70.56  |     |
|                   | 50             | Q   | 267.90                     | 223.50 | 184.80 | 151.20 | 121.95 | 96.75               | 75.30                | 56.91  | 41.52    | 28.71  |     |
|                   |                | THR | 361.47                     | 311.76 | 266.97 | 226.68 | 190.29 | 157.59              | 128.46               | 102.33 | 79.29    | 59.04  |     |
| MP-304-H-6HE-140Y | 30             | Q   | 504.80                     | 422.80 | 352.00 | 290.00 | 236.80 | 191.00              | 151.60               | 118.20 | 90.00    | 66.24  |     |
|                   |                | THR | 596.20                     | 512.24 | 438.12 | 371.68 | 313.04 | 261.08              | 214.96               | 174.44 | 139.00   | 108.00 |     |
|                   | 40             | Q   | 432.00                     | 361.20 | 299.60 | 246.00 | 200.00 | 160.20              | 126.00               | 97.00  | 72.56    | 52.12  |     |
|                   |                | THR | 541.24                     | 465.80 | 398.44 | 338.08 | 284.56 | 236.68              | 193.96               | 156.24 | 123.08   | 94.08  |     |
|                   | 50             | Q   | 357.20                     | 298.00 | 246.40 | 201.60 | 162.60 | 129.00              | 100.40               | 75.88  | 55.36    | 38.28  |     |
|                   |                | THR | 481.96                     | 415.68 | 355.96 | 302.24 | 253.72 | 210.12              | 171.28               | 136.44 | 105.72   | 78.72  |     |
| MP-302-K-6GE-68Y  | 30             | Q   | 245.80                     | 205.40 | 170.40 | 140.00 | 114.00 | 91.50               | 72.40                | 56.20  | 42.60    |        |     |
|                   |                | THR | 301.16                     | 258.40 | 220.44 | 186.58 | 156.74 | 130.16              | 106.82               | 86.34  | 68.56    |        |     |
|                   | 40             | Q   | 210.40                     | 175.80 | 145.80 | 119.60 | 97.10  | 77.80               | 61.20                | 47.20  | 35.32    |        |     |
|                   |                | THR | 275.64                     | 237.18 | 202.80 | 171.86 | 144.36 | 119.90              | 98.12                | 79.02  | 62.24    |        |     |
|                   | 50             | Q   | 174.40                     | 145.60 | 120.60 | 98.80  | 79.90  | 63.60               | 49.70                | 37.84  | 27.86    |        |     |
|                   |                | THR | 248.88                     | 214.66 | 183.88 | 156.02 | 130.94 | 108.40              | 88.36                | 70.54  | 54.94    |        |     |
| MP-303-K-6GE-102Y | 30             | Q   | 368.70                     | 308.10 | 255.60 | 210.00 | 171.00 | 137.25              | 108.60               | 84.30  | 63.90    |        |     |
|                   |                | THR | 451.74                     | 387.60 | 330.66 | 279.87 | 235.11 | 195.24              | 160.23               | 129.51 | 102.84   |        |     |
|                   | 40             | Q   | 315.60                     | 263.70 | 218.70 | 179.40 | 145.65 | 116.70              | 91.80                | 70.80  | 52.98    |        |     |
|                   |                | THR | 413.46                     | 355.77 | 304.20 | 257.79 | 216.54 | 179.85              | 147.18               | 118.53 | 93.36    |        |     |
|                   | 50             | Q   | 261.60                     | 218.40 | 180.90 | 148.20 | 119.85 | 95.40               | 74.55                | 56.76  | 41.79    |        |     |
|                   |                | THR | 373.32                     | 321.99 | 275.82 | 234.03 | 196.41 | 162.60              | 132.54               | 105.81 | 82.41    |        |     |





R404A

## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        | Cond.<br>Temp.<br>°C |     | Cooling Capacity           |        |        |        |        | Q <sub>o</sub> [kW] | Total Heat Rejection |        | THR [kW] |        |  |
|-------------------|----------------------|-----|----------------------------|--------|--------|--------|--------|---------------------|----------------------|--------|----------|--------|--|
|                   |                      |     | Evaporating Temperature °C |        |        |        |        |                     |                      |        |          |        |  |
|                   |                      |     | 5                          | 0      | -5     | -10    | -15    | -20                 | -25                  | -30    | -35      | -40    |  |
| MP-304-K-6GE-136Y | 30                   | Q   | 491.60                     | 410.80 | 340.80 | 280.00 | 228.00 | 183.00              | 144.80               | 112.40 | 85.20    |        |  |
|                   |                      | THR | 602.32                     | 516.80 | 440.88 | 373.16 | 313.48 | 260.32              | 213.64               | 172.68 | 137.12   |        |  |
|                   | 40                   | Q   | 420.80                     | 351.60 | 291.60 | 239.20 | 194.20 | 155.60              | 122.40               | 94.40  | 70.64    |        |  |
|                   |                      | THR | 551.28                     | 474.36 | 405.60 | 343.72 | 288.72 | 239.80              | 196.24               | 158.04 | 124.48   |        |  |
|                   | 50                   | Q   | 348.80                     | 291.20 | 241.20 | 197.60 | 159.80 | 127.20              | 99.40                | 75.68  | 55.72    |        |  |
|                   |                      | THR | 497.76                     | 429.32 | 367.76 | 312.04 | 261.88 | 216.80              | 176.72               | 141.08 | 109.88   |        |  |
| MP-302-H-6GE-80Y  | 30                   | Q   | 287.40                     | 240.80 | 200.60 | 165.60 | 135.40 | 109.40              | 87.10                | 68.10  | 52.00    | 38.56  |  |
|                   |                      | THR | 341.48                     | 293.38 | 251.00 | 213.28 | 179.86 | 150.30              | 124.14               | 101.12 | 80.90    | 63.38  |  |
|                   | 40                   | Q   | 244.40                     | 204.80 | 170.40 | 140.40 | 114.40 | 92.00               | 72.80                | 56.40  | 42.50    | 30.82  |  |
|                   |                      | THR | 308.10                     | 265.62 | 227.78 | 193.84 | 163.52 | 136.52              | 112.52               | 91.22  | 72.42    | 55.92  |  |
|                   | 50                   | Q   | 200.80                     | 168.20 | 139.80 | 114.80 | 93.10  | 74.40               | 58.20                | 44.40  | 32.78    | 22.98  |  |
|                   |                      | THR | 273.06                     | 236.30 | 203.22 | 173.12 | 146.00 | 121.66              | 99.68                | 80.08  | 62.70    | 47.32  |  |
| MP-303-H-6GE-120Y | 30                   | Q   | 431.10                     | 361.20 | 300.90 | 248.40 | 203.10 | 164.10              | 130.65               | 102.15 | 78.00    | 57.84  |  |
|                   |                      | THR | 512.22                     | 440.07 | 376.50 | 319.92 | 269.79 | 225.45              | 186.21               | 151.68 | 121.35   | 95.07  |  |
|                   | 40                   | Q   | 366.60                     | 307.20 | 255.60 | 210.60 | 171.60 | 138.00              | 109.20               | 84.60  | 63.75    | 46.23  |  |
|                   |                      | THR | 462.15                     | 398.43 | 341.67 | 290.76 | 245.28 | 204.78              | 168.78               | 136.83 | 108.63   | 83.88  |  |
|                   | 50                   | Q   | 301.20                     | 252.30 | 209.70 | 172.20 | 139.65 | 111.60              | 87.30                | 66.60  | 49.17    | 34.47  |  |
|                   |                      | THR | 409.59                     | 354.45 | 304.83 | 259.68 | 219.00 | 182.49              | 149.52               | 120.12 | 94.05    | 70.98  |  |
| MP-304-H-6GE-160Y | 30                   | Q   | 574.80                     | 481.60 | 401.20 | 331.20 | 270.80 | 218.80              | 174.20               | 136.20 | 104.00   | 77.12  |  |
|                   |                      | THR | 682.96                     | 586.76 | 502.00 | 426.56 | 359.72 | 300.60              | 248.28               | 202.24 | 161.80   | 126.76 |  |
|                   | 40                   | Q   | 488.80                     | 409.60 | 340.80 | 280.80 | 228.80 | 184.00              | 145.60               | 112.80 | 85.00    | 61.64  |  |
|                   |                      | THR | 616.20                     | 531.24 | 455.56 | 387.68 | 327.04 | 273.04              | 225.04               | 182.44 | 144.84   | 111.84 |  |
|                   | 50                   | Q   | 401.60                     | 336.40 | 279.60 | 229.60 | 186.20 | 148.80              | 116.40               | 88.80  | 65.56    | 45.96  |  |
|                   |                      | THR | 546.12                     | 472.60 | 406.44 | 346.24 | 292.00 | 243.32              | 199.36               | 160.16 | 125.40   | 94.64  |  |
| MP-302-K-6FE-88Y  | 30                   | Q   | 296.20                     | 247.20 | 204.80 | 168.20 | 136.60 | 109.40              | 86.20                | 66.60  | 50.10    |        |  |
|                   |                      | THR | 363.10                     | 311.56 | 265.84 | 225.24 | 189.14 | 157.06              | 128.72               | 103.90 | 82.20    |        |  |
|                   | 40                   | Q   | 253.20                     | 211.40 | 175.00 | 143.60 | 116.20 | 92.70               | 72.50                | 55.40  | 40.90    |        |  |
|                   |                      | THR | 331.14                     | 285.04 | 243.68 | 206.78 | 173.46 | 143.80              | 117.30               | 93.92  | 73.28    |        |  |
|                   | 50                   | Q   | 208.80                     | 174.40 | 144.40 | 118.20 | 95.30  | 75.50               | 58.50                | 43.80  | 31.32    |        |  |
|                   |                      | THR | 296.20                     | 255.82 | 219.28 | 186.10 | 155.96 | 128.76              | 104.36               | 82.40  | 62.92    |        |  |
| MP-303-K-6FE-132Y | 30                   | Q   | 444.30                     | 370.80 | 307.20 | 252.30 | 204.90 | 164.10              | 129.30               | 99.90  | 75.15    |        |  |
|                   |                      | THR | 544.65                     | 467.34 | 398.76 | 337.86 | 283.71 | 235.59              | 193.08               | 155.85 | 123.30   |        |  |
|                   | 40                   | Q   | 379.80                     | 317.10 | 262.50 | 215.40 | 174.30 | 139.05              | 108.75               | 83.10  | 61.35    |        |  |
|                   |                      | THR | 496.71                     | 427.56 | 365.52 | 310.17 | 260.19 | 215.70              | 175.95               | 140.88 | 109.92   |        |  |
|                   | 50                   | Q   | 313.20                     | 261.60 | 216.60 | 177.30 | 142.95 | 113.25              | 87.75                | 65.70  | 46.98    |        |  |
|                   |                      | THR | 444.30                     | 383.73 | 328.92 | 279.15 | 233.94 | 193.14              | 156.54               | 123.60 | 94.38    |        |  |
| MP-304-K-6FE-176Y | 30                   | Q   | 592.40                     | 494.40 | 409.60 | 336.40 | 273.20 | 218.80              | 172.40               | 133.20 | 100.20   |        |  |
|                   |                      | THR | 726.20                     | 623.12 | 531.68 | 450.48 | 378.28 | 314.12              | 257.44               | 207.80 | 164.40   |        |  |
|                   | 40                   | Q   | 506.40                     | 422.80 | 350.00 | 287.20 | 232.40 | 185.40              | 145.00               | 110.80 | 81.80    |        |  |
|                   |                      | THR | 662.28                     | 570.08 | 487.36 | 413.56 | 346.92 | 287.60              | 234.60               | 187.84 | 146.56   |        |  |
|                   | 50                   | Q   | 417.60                     | 348.80 | 288.80 | 236.40 | 190.60 | 151.00              | 117.00               | 87.60  | 62.64    |        |  |
|                   |                      | THR | 592.40                     | 511.64 | 438.56 | 372.20 | 311.92 | 257.52              | 208.72               | 164.80 | 125.84   |        |  |
| MP-302-H-6FE-100Y | 30                   | Q   | 349.00                     | 292.80 | 244.00 | 201.60 | 165.00 | 133.40              | 106.40               | 83.30  | 63.80    | 47.40  |  |
|                   |                      | THR | 415.82                     | 357.98 | 306.60 | 260.86 | 220.26 | 184.16              | 152.26               | 124.04 | 99.28    | 77.68  |  |
|                   | 40                   | Q   | 297.00                     | 249.20 | 207.60 | 171.40 | 139.80 | 112.60              | 89.20                | 69.20  | 52.20    | 37.76  |  |
|                   |                      | THR | 376.12                     | 324.80 | 278.90 | 237.72 | 200.62 | 167.52              | 137.96               | 111.66 | 88.36    | 67.76  |  |
|                   | 50                   | Q   | 243.40                     | 204.40 | 170.20 | 140.20 | 114.20 | 91.40               | 71.70                | 54.80  | 40.30    | 27.94  |  |
|                   |                      | THR | 333.00                     | 288.70 | 248.52 | 212.00 | 179.06 | 149.04              | 121.96               | 97.64  | 75.84    | 56.42  |  |
| MP-303-H-6FE-150Y | 30                   | Q   | 523.50                     | 439.20 | 366.00 | 302.40 | 247.50 | 200.10              | 159.60               | 124.95 | 95.70    | 71.10  |  |
|                   |                      | THR | 623.73                     | 536.97 | 459.90 | 391.29 | 330.39 | 276.24              | 228.39               | 186.06 | 148.92   | 116.52 |  |
|                   | 40                   | Q   | 445.50                     | 373.80 | 311.40 | 257.10 | 209.70 | 168.90              | 133.80               | 103.80 | 78.30    | 56.64  |  |
|                   |                      | THR | 564.18                     | 487.20 | 418.35 | 356.58 | 300.93 | 251.28              | 206.94               | 167.49 | 132.54   | 101.64 |  |
|                   | 50                   | Q   | 365.10                     | 306.60 | 255.30 | 210.30 | 171.30 | 137.10              | 107.55               | 82.20  | 60.45    | 41.91  |  |
|                   |                      | THR | 499.50                     | 433.05 | 372.78 | 318.00 | 268.59 | 223.56              | 182.94               | 146.46 | 113.76   | 84.63  |  |
| MP-304-H-6FE-200Y | 30                   | Q   | 698.00                     | 585.60 | 488.00 | 403.20 | 330.00 | 266.80              | 212.80               | 166.60 | 127.60   | 94.80  |  |
|                   |                      | THR | 831.64                     | 715.96 | 613.20 | 521.72 | 440.52 | 368.32              | 304.52               | 248.08 | 198.56   | 155.36 |  |
|                   | 40                   | Q   | 594.00                     | 498.40 | 415.20 | 342.80 | 279.60 | 225.20              | 178.40               | 138.40 | 104.40   | 75.52  |  |
|                   |                      | THR | 752.24                     | 649.60 | 557.80 | 475.44 | 401.24 | 335.04              | 275.92               | 223.32 | 176.72   | 135.52 |  |
|                   | 50                   | Q   | 486.80                     | 408.80 | 340.40 | 280.40 | 228.40 | 182.80              | 143.40               | 109.60 | 80.60    | 55.88  |  |
|                   |                      | THR | 666.00                     | 577.40 | 497.04 | 424.00 | 358.12 | 298.08              | 243.92               | 195.28 | 151.68   | 112.84 |  |

# PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model        |    | Cond. Temp. °C | Cooling Capacity           |        |        |        |       | Q <sub>o</sub> [kW] |       | Total Heat Rejection |       | THR [kW] |  |  |
|-------------------|----|----------------|----------------------------|--------|--------|--------|-------|---------------------|-------|----------------------|-------|----------|--|--|
|                   |    |                | Evaporating Temperature °C |        |        |        |       |                     |       |                      |       |          |  |  |
|                   |    |                | -25                        | -30    | -35    | -40    | -45   | -50                 | -55   | -60                  | -65   | -70      |  |  |
| CP702-L-S4T-10.2Y | 30 | Q              | 18.32                      | 15.30  | 12.65  | 10.32  | 8.31  | 6.58                | 5.10  | 3.86                 | 2.82  | 1.95     |  |  |
|                   |    | THR            | 27.33                      | 23.71  | 20.41  | 17.41  | 14.69 | 12.26               | 10.08 | 8.15                 | 6.45  | 4.96     |  |  |
|                   | 40 | Q              | 17.64                      | 14.73  | 12.17  | 9.93   | 7.98  | 6.30                | 4.86  | 3.65                 | 2.64  |          |  |  |
|                   |    | THR            | 27.85                      | 24.21  | 20.88  | 17.84  | 15.07 | 12.56               | 10.30 | 8.27                 | 6.45  |          |  |  |
|                   | 50 | Q              | 16.98                      | 14.19  | 11.72  | 9.55   | 7.66  | 6.03                | 4.64  |                      |       |          |  |  |
|                   |    | THR            | 28.43                      | 24.74  | 21.38  | 18.31  | 15.50 | 12.94               | 10.59 |                      |       |          |  |  |
| CP703-L-S4T-15.2Y | 30 | Q              | 27.47                      | 22.95  | 18.97  | 15.48  | 12.46 | 9.86                | 7.65  | 5.79                 | 4.23  | 2.93     |  |  |
|                   |    | THR            | 40.99                      | 35.57  | 30.61  | 26.11  | 22.04 | 18.39               | 15.12 | 12.22                | 9.67  | 7.43     |  |  |
|                   | 40 | Q              | 26.46                      | 22.10  | 18.26  | 14.89  | 11.96 | 9.44                | 7.30  | 5.48                 | 3.95  |          |  |  |
|                   |    | THR            | 41.77                      | 36.32  | 31.32  | 26.76  | 22.60 | 18.84               | 15.44 | 12.40                | 9.68  |          |  |  |
|                   | 50 | Q              | 25.47                      | 21.28  | 17.57  | 14.32  | 11.49 | 9.05                | 6.96  |                      |       |          |  |  |
|                   |    | THR            | 42.64                      | 37.12  | 32.07  | 27.46  | 23.25 | 19.41               | 15.89 |                      |       |          |  |  |
| CP704-L-S4T-20.2Y | 30 | Q              | 36.63                      | 30.60  | 25.29  | 20.64  | 16.62 | 13.15               | 10.20 | 7.72                 | 5.64  | 3.91     |  |  |
|                   |    | THR            | 54.65                      | 47.42  | 40.82  | 34.81  | 29.39 | 24.52               | 20.16 | 16.30                | 12.89 | 9.91     |  |  |
|                   | 40 | Q              | 35.28                      | 29.47  | 24.34  | 19.85  | 15.95 | 12.59               | 9.73  | 7.30                 | 5.27  |          |  |  |
|                   |    | THR            | 55.70                      | 48.43  | 41.76  | 35.68  | 30.14 | 25.12               | 20.59 | 16.53                | 12.90 |          |  |  |
|                   | 50 | Q              | 33.96                      | 28.38  | 23.43  | 19.10  | 15.32 | 12.06               | 9.28  |                      |       |          |  |  |
|                   |    | THR            | 56.85                      | 49.49  | 42.76  | 36.61  | 31.00 | 25.88               | 21.19 |                      |       |          |  |  |
| CP702-L-S4N-16.2Y | 30 | Q              | 25.97                      | 21.71  | 17.96  | 14.67  | 11.81 | 9.36                | 7.27  | 5.50                 | 4.02  | 2.80     |  |  |
|                   |    | THR            | 38.81                      | 33.72  | 29.05  | 24.80  | 20.94 | 17.47               | 14.37 | 11.61                | 9.19  | 7.09     |  |  |
|                   | 40 | Q              | 24.99                      | 20.91  | 17.29  | 14.12  | 11.37 | 8.99                | 6.95  | 5.22                 | 3.77  |          |  |  |
|                   |    | THR            | 39.61                      | 34.46  | 29.74  | 25.43  | 21.50 | 17.94               | 14.72 | 11.84                | 9.27  |          |  |  |
|                   | 50 | Q              | 23.97                      | 20.07  | 16.62  | 13.57  | 10.91 | 8.61                | 6.63  |                      |       |          |  |  |
|                   |    | THR            | 40.31                      | 35.15  | 30.42  | 26.08  | 22.11 | 18.48               | 15.14 |                      |       |          |  |  |
| CP703-L-S4N-24.2Y | 30 | Q              | 38.95                      | 32.57  | 26.93  | 22.00  | 17.72 | 14.04               | 10.90 | 8.25                 | 6.03  | 4.19     |  |  |
|                   |    | THR            | 58.21                      | 50.58  | 43.58  | 37.20  | 31.41 | 26.21               | 21.55 | 17.42                | 13.79 | 10.64    |  |  |
|                   | 40 | Q              | 37.49                      | 31.36  | 25.94  | 21.19  | 17.05 | 13.48               | 10.43 | 7.84                 | 5.66  |          |  |  |
|                   |    | THR            | 59.42                      | 51.70  | 44.61  | 38.14  | 32.24 | 26.90               | 22.09 | 17.76                | 13.90 |          |  |  |
|                   | 50 | Q              | 35.95                      | 30.11  | 24.92  | 20.36  | 16.37 | 12.91               | 9.95  |                      |       |          |  |  |
|                   |    | THR            | 60.46                      | 52.73  | 45.63  | 39.13  | 33.17 | 27.71               | 22.71 |                      |       |          |  |  |
| CP704-L-S4N-32.2Y | 30 | Q              | 51.93                      | 43.42  | 35.91  | 29.34  | 23.62 | 18.72               | 14.53 | 11.00                | 8.04  | 5.59     |  |  |
|                   |    | THR            | 77.62                      | 67.44  | 58.11  | 49.60  | 41.88 | 34.94               | 28.73 | 23.23                | 18.39 | 14.18    |  |  |
|                   | 40 | Q              | 49.98                      | 41.81  | 34.59  | 28.25  | 22.73 | 17.97               | 13.90 | 10.45                | 7.55  |          |  |  |
|                   |    | THR            | 79.22                      | 68.93  | 59.48  | 50.85  | 42.99 | 35.87               | 29.45 | 23.68                | 18.53 |          |  |  |
|                   | 50 | Q              | 47.93                      | 40.15  | 33.23  | 27.14  | 21.82 | 17.22               | 13.26 |                      |       |          |  |  |
|                   |    | THR            | 80.62                      | 70.31  | 60.84  | 52.17  | 44.22 | 36.95               | 30.28 |                      |       |          |  |  |
| CP702-L-S4G-24.2Y | 30 | Q              | 38.96                      | 33.65  | 28.53  | 23.71  | 19.28 | 15.34               | 11.96 | 9.12                 | 6.81  | 4.97     |  |  |
|                   |    | THR            | 58.44                      | 51.78  | 45.23  | 38.92  | 32.99 | 27.54               | 22.65 | 18.36                | 14.65 | 11.51    |  |  |
|                   | 40 | Q              | 37.83                      | 32.44  | 27.36  | 22.66  | 18.43 | 14.71               | 11.51 | 8.79                 | 6.50  |          |  |  |
|                   |    | THR            | 59.92                      | 52.90  | 46.11  | 39.65  | 33.64 | 28.15               | 23.21 | 18.81                | 14.93 |          |  |  |
|                   | 50 | Q              | 36.12                      | 30.93  | 26.09  | 21.67  | 17.71 | 14.19               | 11.06 |                      |       |          |  |  |
|                   |    | THR            | 60.76                      | 53.73  | 46.97  | 40.55  | 34.55 | 29.00               | 23.88 |                      |       |          |  |  |
| CP703-L-S4G-36.2Y | 30 | Q              | 58.45                      | 50.48  | 42.80  | 35.56  | 28.92 | 23.02               | 17.94 | 13.69                | 10.21 | 7.46     |  |  |
|                   |    | THR            | 87.67                      | 77.67  | 67.85  | 58.39  | 49.48 | 41.30               | 33.98 | 27.54                | 21.98 | 17.26    |  |  |
|                   | 40 | Q              | 56.74                      | 48.67  | 41.04  | 33.99  | 27.65 | 22.07               | 17.27 | 13.19                | 9.75  |          |  |  |
|                   |    | THR            | 89.88                      | 79.35  | 69.16  | 59.47  | 50.46 | 42.22               | 34.81 | 28.21                | 22.40 |          |  |  |
|                   | 50 | Q              | 54.18                      | 46.39  | 39.14  | 32.51  | 26.57 | 21.28               | 16.59 |                      |       |          |  |  |
|                   |    | THR            | 91.14                      | 80.60  | 70.45  | 60.83  | 51.83 | 43.50               | 35.81 |                      |       |          |  |  |
| CP704-L-S4G-48.2Y | 30 | Q              | 77.93                      | 67.30  | 57.07  | 47.41  | 38.56 | 30.69               | 23.92 | 18.25                | 13.62 | 9.94     |  |  |
|                   |    | THR            | 116.89                     | 103.56 | 90.46  | 77.85  | 65.97 | 55.07               | 45.30 | 36.72                | 29.30 | 23.01    |  |  |
|                   | 40 | Q              | 75.65                      | 64.89  | 54.72  | 45.32  | 36.86 | 29.42               | 23.02 | 17.58                | 13.00 |          |  |  |
|                   |    | THR            | 119.84                     | 105.80 | 92.21  | 79.30  | 67.28 | 56.30               | 46.41 | 37.62                | 29.86 |          |  |  |
|                   | 50 | Q              | 72.24                      | 61.85  | 52.18  | 43.35  | 35.42 | 28.37               | 22.12 |                      |       |          |  |  |
|                   |    | THR            | 121.52                     | 107.47 | 93.93  | 81.10  | 69.10 | 58.00               | 47.75 |                      |       |          |  |  |
| CP702-L-S6J-32.2Y | 30 | Q              | 55.19                      | 47.47  | 40.27  | 33.59  | 27.49 | 22.04               | 17.30 | 13.29                | 9.97  | 7.32     |  |  |
|                   |    | THR            | 83.45                      | 73.34  | 63.78  | 54.80  | 46.46 | 38.85               | 32.05 | 26.08                | 20.95 | 16.63    |  |  |
|                   | 40 | Q              | 53.01                      | 45.62  | 38.65  | 32.19  | 26.34 | 21.15               | 16.65 | 12.81                | 9.56  |          |  |  |
|                   |    | THR            | 85.01                      | 74.78  | 65.08  | 55.99  | 47.61 | 39.99               | 33.17 | 27.12                | 21.76 |          |  |  |
|                   | 50 | Q              | 51.00                      | 43.74  | 37.01  | 30.86  | 25.32 | 20.39               | 16.03 |                      |       |          |  |  |
|                   |    | THR            | 86.67                      | 76.19  | 66.37  | 57.26  | 48.88 | 41.22               | 34.22 |                      |       |          |  |  |
| CP703-L-S6J-48.2Y | 30 | Q              | 82.79                      | 71.21  | 60.41  | 50.39  | 41.24 | 33.06               | 25.95 | 19.93                | 14.96 | 10.98    |  |  |
|                   |    | THR            | 125.17                     | 110.01 | 95.68  | 82.20  | 69.69 | 58.28               | 48.07 | 39.13                | 31.43 | 24.94    |  |  |
|                   | 40 | Q              | 79.52                      | 68.43  | 57.98  | 48.29  | 39.51 | 31.73               | 24.98 | 19.21                | 14.34 |          |  |  |
|                   |    | THR            | 127.51                     | 112.17 | 97.62  | 83.99  | 71.41 | 59.99               | 49.76 | 40.68                | 32.65 |          |  |  |
|                   | 50 | Q              | 76.50                      | 65.60  | 55.51  | 46.29  | 37.98 | 30.59               | 24.04 |                      |       |          |  |  |
|                   |    | THR            | 130.00                     | 114.28 | 99.56  | 85.89  | 73.32 | 61.83               | 51.33 |                      |       |          |  |  |
| CP704-L-S6J-64.2Y | 30 | Q              | 110.39                     | 94.95  | 80.54  | 67.18  | 54.98 | 44.08               | 34.60 | 26.57                | 19.95 | 14.64    |  |  |
|                   |    | THR            | 166.90                     | 146.68 | 127.57 | 109.60 | 92.92 | 77.70               | 64.10 | 52.17                | 41.91 | 33.25    |  |  |
|                   | 40 | Q              | 106.02                     | 91.24  | 77.30  | 64.39  | 52.68 | 42.30               | 33.30 | 25.62                | 19.12 |          |  |  |
|                   |    | THR            | 170.01                     | 149.56 | 130.16 | 111.98 | 95.21 | 79.99               | 66.35 | 54.24                | 43.53 |          |  |  |
|                   | 50 | Q              | 102.00                     | 87.47  | 74.02  | 61.72  | 50.64 | 40.79               | 32.05 |                      |       |          |  |  |
|                   |    | THR            | 173.33                     | 152.37 | 132.74 | 114.52 | 97.76 | 82.44               | 68.44 |                      |       |          |  |  |
| CP702-L-S6H-40.2Y | 30 | Q              | 63.73                      | 54.88  | 46.58  | 38.86  | 31.80 | 25.50               | 20.01 | 15.37                | 11.54 | 8.46     |  |  |
|                   |    | THR            | 96.59                      | 84.92  | 73.87  | 63.47  | 53.81 | 45.01               | 37.14 | 30.24                | 24.30 | 19.25    |  |  |
|                   | 40 | Q              | 61.17                      | 52.68  | 44.65  | 37.20  | 30.43 | 24.45               | 19.26 | 14.82                | 11.07 |          |  |  |
|                   |    | THR            | 98.24                      | 86.48  | 75.28  | 64.78  | 55.08 | 46.28               | 38.40 | 31.40                | 25.21 |          |  |  |
|                   | 50 | Q              | 58.62                      | 50.35  | 42.64  | 35.59  | 29.23 | 23.57               | 18.54 |                      |       |          |  |  |
|                   |    | THR            | 99.88                      | 87.92  | 76.66  | 66.18  | 56.53 | 47.71               | 39.64 |                      |       |          |  |  |
| CP703-L-S6H-60.2Y | 30 | Q              | 95.60                      | 82.32  | 69.87  | 58.30  | 47.71 | 38.24               | 30.02 | 23.06                | 17.30 | 12.68    |  |  |
|                   |    | THR            | 144.88                     | 127.38 | 110.80 | 95.20  | 80.72 | 67.51               | 55.71 | 45.37                | 36.44 | 28.88    |  |  |
|                   | 40 | Q              | 91.76                      | 79.03  | 66.98  | 55.79  | 45.65 | 36.67               | 28.88 | 22.23                | 16.61 |          |  |  |
|                   |    | THR            | 147.36                     | 129.72 | 112.93 | 97.17  | 82.63 | 69.42               | 57.60 | 47.10                | 37.81 |          |  |  |
|                   | 50 | Q              | 87.94                      | 75.52  | 63.97  | 53.38  | 43.84 | 35.35               | 27.81 |                      |       |          |  |  |
|                   |    | THR            | 149.83                     | 131.88 | 114.99 | 99.27  | 84.80 | 71.56               | 59.46 |                      |       |          |  |  |



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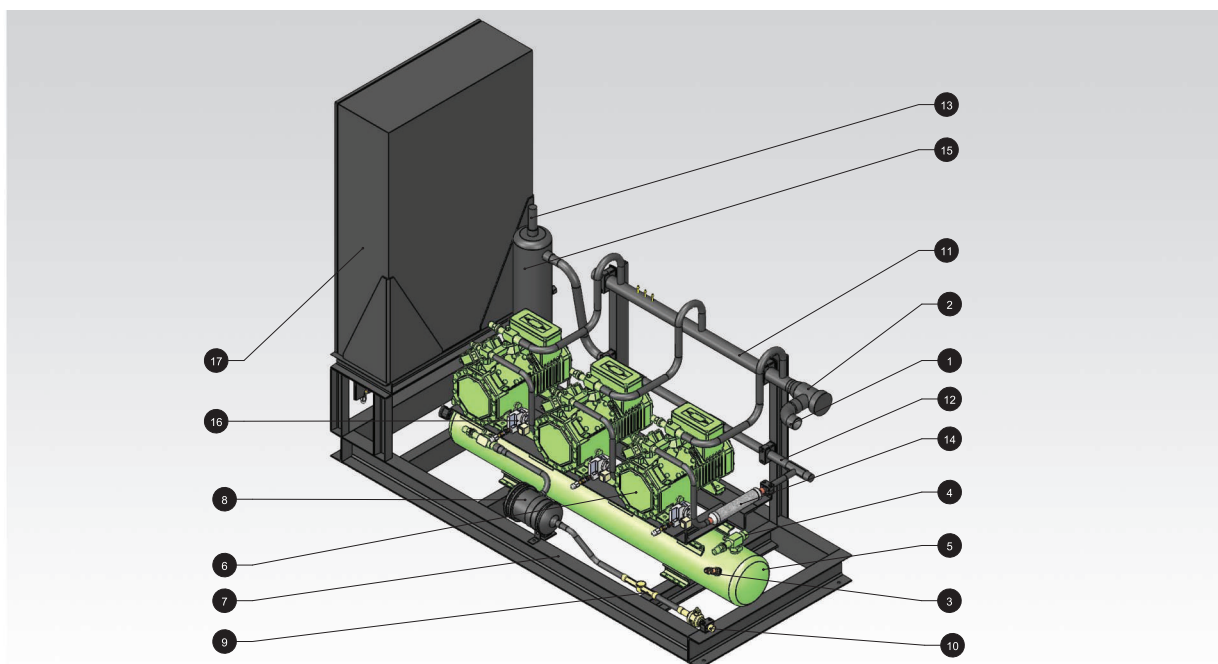
## PERFORMANCE DATA

Performance data, based on 20°C suction gas temperature; 50Hz

| Unit Model         | Cond. Temp. °C |     | Cooling Capacity           |        | Q <sub>o</sub> [kW] |        | Total Heat Rejection |        | THR [kW] |       |       |       |
|--------------------|----------------|-----|----------------------------|--------|---------------------|--------|----------------------|--------|----------|-------|-------|-------|
|                    |                |     | Evaporating Temperature °C |        |                     |        |                      |        |          |       |       |       |
|                    |                |     | -25                        | -30    | -35                 | -40    | -45                  | -50    | -55      | -60   | -65   | -70   |
| CP704-L-S6H-80.2Y  | 30             | Q   | 127.46                     | 109.76 | 93.16               | 77.73  | 63.61                | 50.99  | 40.03    | 30.74 | 23.07 | 16.91 |
|                    |                | THR | 193.17                     | 169.84 | 147.73              | 126.94 | 107.62               | 90.02  | 74.28    | 60.49 | 48.59 | 38.51 |
|                    | 40             | Q   | 122.34                     | 105.37 | 89.31               | 74.39  | 60.87                | 48.90  | 38.51    | 29.64 | 22.14 |       |
|                    |                | THR | 196.48                     | 172.96 | 150.57              | 129.56 | 110.17               | 92.56  | 76.80    | 62.80 | 50.41 |       |
|                    | 50             | Q   | 117.25                     | 100.70 | 85.29               | 71.18  | 58.46                | 47.14  | 37.08    |       |       |       |
|                    |                | THR | 199.77                     | 175.84 | 153.32              | 132.36 | 113.06               | 95.41  | 79.28    |       |       |       |
| CP702-L-S6G-50.2Y  | 30             | Q   | 72.40                      | 62.54  | 53.20               | 44.45  | 36.41                | 29.21  | 22.94    | 17.64 | 13.25 | 9.73  |
|                    |                | THR | 110.08                     | 97.08  | 84.61               | 72.77  | 61.71                | 51.59  | 42.54    | 34.62 | 27.82 | 22.13 |
|                    | 40             | Q   | 69.72                      | 60.13  | 51.01               | 42.53  | 34.82                | 27.98  | 22.05    | 16.98 | 12.68 |       |
|                    |                | THR | 112.26                     | 98.93  | 86.20               | 74.22  | 63.14                | 53.07  | 44.05    | 36.03 | 28.93 |       |
|                    | 50             | Q   | 66.84                      | 57.43  | 48.68               | 40.65  | 33.41                | 26.95  | 21.21    |       |       |       |
|                    |                | THR | 114.25                     | 100.59 | 87.74               | 75.77  | 64.74                | 54.64  | 45.41    |       |       |       |
| CP703-L-S6G-75.2Y  | 30             | Q   | 108.61                     | 93.81  | 79.80               | 66.68  | 54.62                | 43.82  | 34.41    | 26.45 | 19.88 | 14.60 |
|                    |                | THR | 165.12                     | 145.62 | 126.91              | 109.15 | 92.56                | 77.38  | 63.81    | 51.92 | 41.74 | 33.19 |
|                    | 40             | Q   | 104.58                     | 90.19  | 76.52               | 63.80  | 52.23                | 41.97  | 33.08    | 25.47 | 19.02 |       |
|                    |                | THR | 168.39                     | 148.40 | 129.31              | 111.33 | 94.72                | 79.61  | 66.07    | 54.04 | 43.40 |       |
|                    | 50             | Q   | 100.26                     | 86.15  | 73.01               | 60.98  | 50.12                | 40.43  | 31.81    |       |       |       |
|                    |                | THR | 171.38                     | 150.88 | 131.60              | 113.66 | 97.11                | 81.97  | 68.11    |       |       |       |
| CP704-L-S6G-100.2Y | 30             | Q   | 144.81                     | 125.08 | 106.40              | 88.90  | 72.82                | 58.42  | 45.88    | 35.27 | 26.50 | 19.47 |
|                    |                | THR | 220.16                     | 194.16 | 169.22              | 145.54 | 123.41               | 103.17 | 85.08    | 69.23 | 55.65 | 44.26 |
|                    | 40             | Q   | 139.44                     | 120.26 | 102.03              | 85.06  | 69.64                | 55.96  | 44.10    | 33.96 | 25.36 |       |
|                    |                | THR | 224.52                     | 197.87 | 172.41              | 148.44 | 126.29               | 106.15 | 88.09    | 72.05 | 57.87 |       |
|                    | 50             | Q   | 133.68                     | 114.86 | 97.35               | 81.30  | 66.82                | 53.90  | 42.41    |       |       |       |
|                    |                | THR | 228.50                     | 201.18 | 175.47              | 151.54 | 129.48               | 109.29 | 90.81    |       |       |       |
| CP702-L-S6F-60.2Y  | 30             | Q   | 86.80                      | 74.73  | 63.44               | 52.95  | 43.37                | 34.81  | 27.36    | 21.05 | 15.82 | 11.59 |
|                    |                | THR | 131.86                     | 116.02 | 100.99              | 86.83  | 73.66                | 61.64  | 50.89    | 41.45 | 33.31 | 26.40 |
|                    | 40             | Q   | 82.92                      | 71.42  | 60.57               | 50.52  | 41.40                | 33.33  | 26.31    | 20.28 | 15.16 |       |
|                    |                | THR | 133.31                     | 117.61 | 102.60              | 88.43  | 75.30                | 63.33  | 52.58    | 43.03 | 34.61 |       |
|                    | 50             | Q   | 78.95                      | 67.90  | 57.63               | 48.21  | 39.70                | 32.08  | 25.27    |       |       |       |
|                    |                | THR | 135.08                     | 119.27 | 104.28              | 90.23  | 77.20                | 65.23  | 54.25    |       |       |       |
| CP703-L-S6F-90.2Y  | 30             | Q   | 130.19                     | 112.09 | 95.16               | 79.43  | 65.05                | 52.21  | 41.04    | 31.58 | 23.73 | 17.39 |
|                    |                | THR | 197.79                     | 174.03 | 151.49              | 130.24 | 110.49               | 92.46  | 76.34    | 62.18 | 49.96 | 39.60 |
|                    | 40             | Q   | 124.38                     | 107.12 | 90.86               | 75.78  | 62.11                | 49.99  | 39.46    | 30.43 | 22.74 |       |
|                    |                | THR | 199.97                     | 176.42 | 153.90              | 132.65 | 112.95               | 95.00  | 78.88    | 64.55 | 51.91 |       |
|                    | 50             | Q   | 118.43                     | 101.85 | 86.44               | 72.32  | 59.55                | 48.13  | 37.90    |       |       |       |
|                    |                | THR | 202.63                     | 178.91 | 156.42              | 135.34 | 115.81               | 97.85  | 81.38    |       |       |       |
| CP704-L-S6F-120.2Y | 30             | Q   | 173.59                     | 149.46 | 126.88              | 105.90 | 86.73                | 69.61  | 54.72    | 42.10 | 31.64 | 23.19 |
|                    |                | THR | 263.72                     | 232.04 | 201.98              | 173.66 | 147.32               | 123.28 | 101.78   | 82.91 | 66.61 | 52.80 |
|                    | 40             | Q   | 165.84                     | 142.83 | 121.14              | 101.04 | 82.81                | 66.65  | 52.61    | 40.57 | 30.32 |       |
|                    |                | THR | 266.62                     | 235.23 | 205.20              | 176.87 | 150.60               | 126.66 | 105.17   | 86.06 | 69.21 |       |
|                    | 50             | Q   | 157.90                     | 135.80 | 115.25              | 96.42  | 79.40                | 64.17  | 50.54    |       |       |       |
|                    |                | THR | 270.17                     | 238.54 | 208.56              | 180.45 | 154.41               | 130.46 | 108.51   |       |       |       |

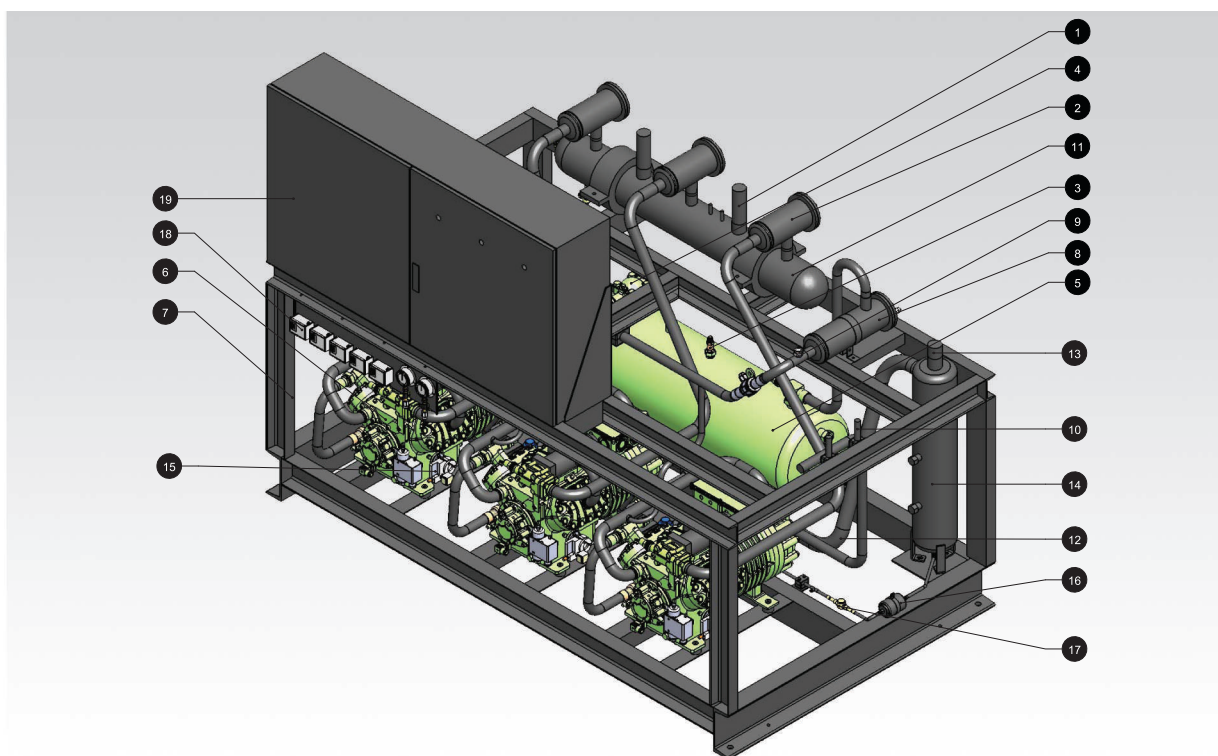
## PRODUCT LAYOUT BY FRAME

### MP 100 / 200 / 300



- |                                         |                                  |                                     |
|-----------------------------------------|----------------------------------|-------------------------------------|
| 1 Suction connections                   | 7 Solid metal frame              | 13 Discharge connection             |
| 2 Single suction demountable filter     | 8 Liquid line filter demountable | 14 Vibration eliminator             |
| 3 Liquid receiver pressure relief valve | 9 Liquid line sight glass        | 15 Oil separator                    |
| 4 Liquid receiver inlet connection      | 10 Liquid outlet connection      | 16 Electronic oil return and safety |
| 5 Liquid receiver                       | 11 Suction header                | 17 Electrical panel                 |
| 6 Bitzer reciprocating compressor       | 12 Discharge header              | 18 Pressure safety switches *       |
|                                         |                                  | * not visible in the drawing        |

### CP 700

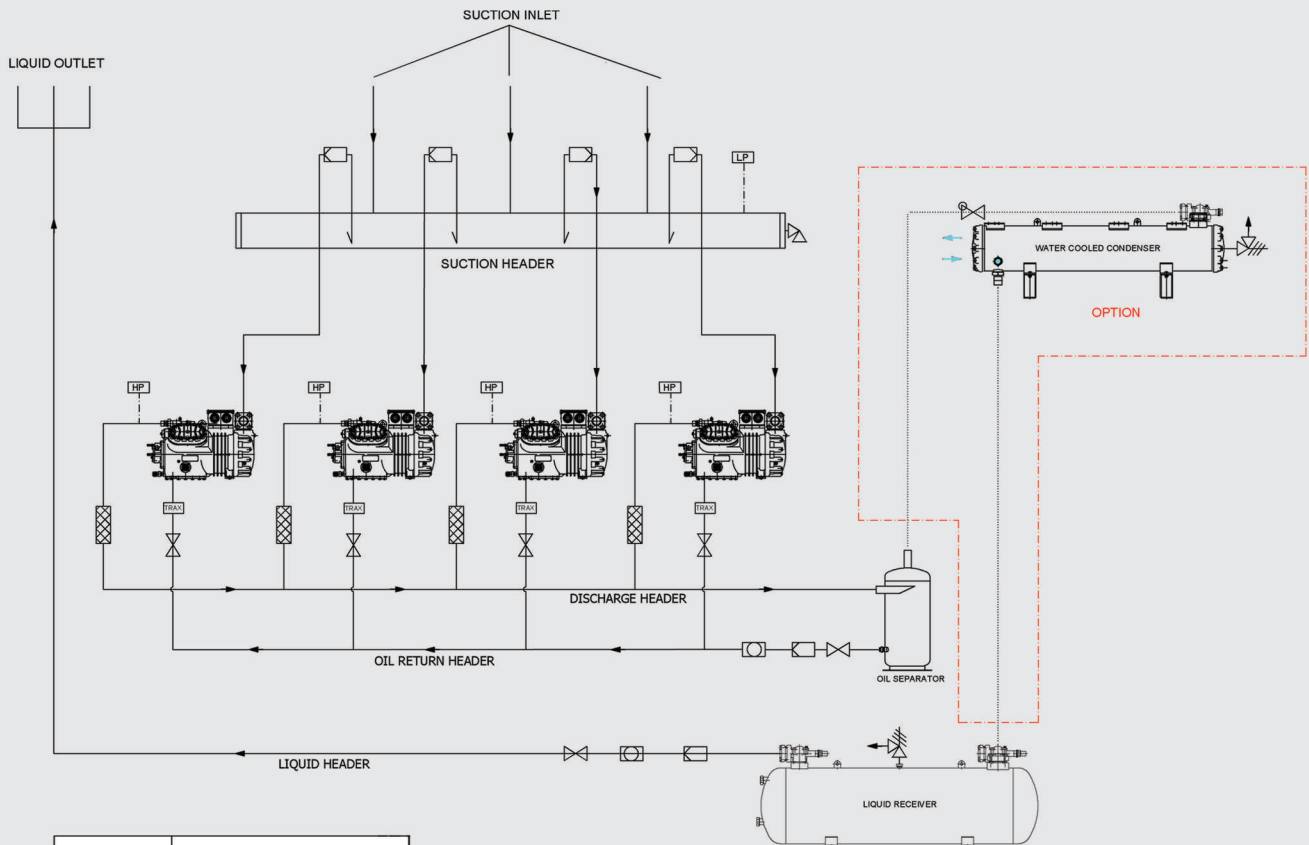


- |                                             |                                  |                                     |
|---------------------------------------------|----------------------------------|-------------------------------------|
| 1 Suction connections                       | 8 Liquid line filter demountable | 15 Electronic oil return and safety |
| 2 Suction filter demountable per compressor | 9 Liquid line sight glass        | 16 Oil line filter                  |
| 3 Liquid receiver pressure relief valve     | 10 Liquid outlet connection      | 17 Oil line sight glass             |
| 4 Liquid receiver inlet connection          | 11 Suction header                | 18 Pressure safety switch           |
| 5 Liquid receiver                           | 12 Discharge header              | 19 Electrical panel                 |
| 6 Bitzer reciprocating compressor           | 13 Discharge connection          |                                     |
| 7 Solid metal frame                         | 14 Oil separator                 |                                     |



## SAMPLE SCHEMATIC DIAGRAM

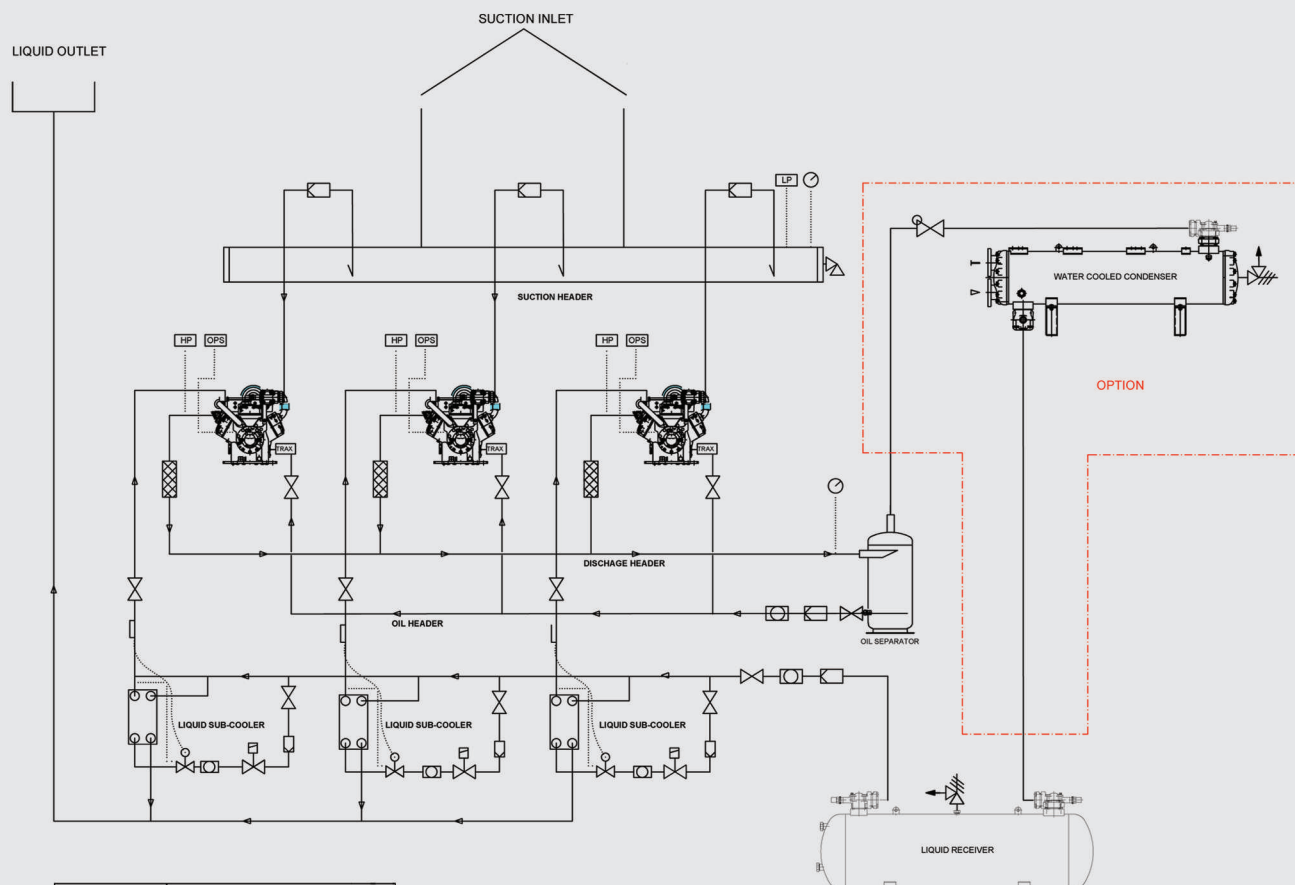
# MP 304



| ITEM | DESCRIPTION                    |
|------|--------------------------------|
| TRAX | ELECTRONIC OIL LEVEL REGULATOR |
| ○    | PRESSURE GAUGES                |
| LP   | LOW PRESSURE SWITCH            |
| HP   | HIGH PRESSURE SWITCH           |
| □    | SOLENOID VALVE                 |
| ○    | EXPANSION VALVES               |
| ◇    | BALL VALVE / HAND VALVE        |
| ○    | CHECK VALVE                    |
| ⚡    | PRESSURE RELIEF VALVE          |
| △    | ANGLE VALVE                    |
| □    | FILTERS                        |
| □    | SIGHT GLASS                    |
| ⊗    | VIBRATION ELIMINATOR           |

# SAMPLE SCHEMATIC DIAGRAM

CP 703



| ITEM | DESCRIPTION                    |
|------|--------------------------------|
| TRAX | ELECTRONIC OIL LEVEL REGULATOR |
| ⊙    | PRESSURE GAUGES                |
| LP   | LOW PRESSURE SWITCH            |
| HP   | HIGH PRESSURE SWITCH           |
| OPS  | OIL PRESSURE SWITCH            |
| ⊗    | SOLENOID VALVE                 |
| ⊗    | EXPANSION VALVE                |
| ⊗    | BALL VALVE / HAND VALVE        |
| ⊗    | CHECK VALVE                    |
| ⊗    | PRESSURE RELIEFE VALVE         |
| ⊗    | ANGLE VALVE                    |
| ⊗    | FILTERS                        |
| ⊗    | SIGHT GLASS                    |
| ⊗    | VIBRATION ELIMINATOR           |





## TECHNICAL DATA

| MODEL             | No. of comp. | Total displacement (m³/h) | System              |                    | Oil Separator Charge (dm³) | Liquid receiver pump down (kg) |       |
|-------------------|--------------|---------------------------|---------------------|--------------------|----------------------------|--------------------------------|-------|
|                   |              |                           | Voltage (V) / Phase | Max current (Amps) |                            | R134a                          | R404A |
| MP-102-K-2DES-4Y  | 2            | 26.8                      | 380-420 / 3 / 50    | 15.0               | 7                          | 43                             | 37.5  |
| MP-103-K-2DES-6Y  | 3            | 40.2                      |                     | 22.5               | 7                          | 59.6                           | 51.9  |
| MP-104-K-2DES-8Y  | 4            | 53.2                      |                     | 30.0               | 7                          | 59.6                           | 51.9  |
| MP-102-H-2DES-6Y  | 2            | 26.8                      |                     | 17.2               | 7                          | 43                             | 37.5  |
| MP-103-H-2DES-9Y  | 3            | 40.2                      |                     | 25.2               | 7                          | 59.6                           | 51.9  |
| MP-104-H-2DES-12Y | 4            | 53.2                      |                     | 34.4               | 7                          | 59.6                           | 51.9  |
| MP-102-K-2CES-6Y  | 2            | 32.4                      |                     | 18.2               | 7                          | 43                             | 37.5  |
| MP-103-K-2CES-9Y  | 3            | 48.6                      |                     | 27.3               | 7                          | 59.6                           | 51.9  |
| MP-104-K-2CES-12Y | 4            | 64.8                      |                     | 36.4               | 7                          | 59.6                           | 51.9  |
| MP-102-H-2CES-8Y  | 2            | 32.4                      |                     | 20.0               | 7                          | 43                             | 37.5  |
| MP-103-H-2CES-12Y | 3            | 48.6                      |                     | 30.0               | 7                          | 59.6                           | 51.9  |
| MP-104-H-2CES-16Y | 4            | 64.8                      |                     | 40.0               | 7                          | 59.6                           | 51.9  |
| MP-102-K-4FES-6Y  | 2            | 36.2                      |                     | 19.0               | 7                          | 43                             | 37.5  |
| MP-103-K-4FES-9Y  | 3            | 54.3                      |                     | 28.5               | 7                          | 59.6                           | 51.9  |
| MP-104-K-4FES-12Y | 4            | 72.4                      |                     | 38.0               | 7                          | 59.6                           | 51.9  |
| MP-102-H-4FES-10Y | 2            | 36.2                      |                     | 21.6               | 7                          | 43                             | 37.5  |
| MP-103-H-4FES-15Y | 3            | 54.3                      |                     | 32.4               | 7                          | 59.6                           | 51.9  |
| MP-104-H-4FES-20Y | 4            | 72.4                      |                     | 43.2               | 7                          | 59.6                           | 51.9  |
| MP-102-K-4EES-8Y  | 2            | 45.4                      |                     | 24.4               | 7                          | 43                             | 37.5  |
| MP-103-K-4EES-12Y | 3            | 68.1                      |                     | 36.6               | 7                          | 59.6                           | 51.9  |
| MP-104-K-4EES-16Y | 4            | 90.8                      |                     | 48.8               | 7                          | 59.6                           | 51.9  |
| MP-102-H-4EES-12Y | 2            | 45.4                      |                     | 27.2               | 7                          | 43                             | 37.5  |
| MP-103-H-4EES-18Y | 3            | 68.1                      |                     | 40.8               | 7                          | 59.6                           | 51.9  |
| MP-104-H-4EES-24Y | 4            | 90.8                      |                     | 54.4               | 7                          | 59.6                           | 51.9  |
| MP-102-K-4DES-10Y | 2            | 53.6                      |                     | 29.0               | 7                          | 43                             | 37.5  |
| MP-103-K-4DES-15Y | 3            | 80.4                      |                     | 43.5               | 7                          | 59.6                           | 51.9  |
| MP-104-K-4DES-20Y | 4            | 107.2                     |                     | 58.0               | 7                          | 59.6                           | 51.9  |
| MP-102-H-4DES-14Y | 2            | 53.6                      |                     | 33.0               | 7                          | 43                             | 37.5  |
| MP-103-H-4DES-21Y | 3            | 80.4                      |                     | 49.5               | 7                          | 59.6                           | 51.9  |
| MP-104-H-4DES-28Y | 4            | 107.2                     |                     | 66.0               | 7                          | 59.6                           | 51.9  |
| MP-102-K-4CES-12Y | 2            | 65.0                      |                     | 35.4               | 7                          | 43                             | 37.5  |
| MP-103-K-4CES-18Y | 3            | 97.5                      |                     | 53.1               | 7                          | 59.6                           | 51.9  |
| MP-104-K-4CES-24Y | 4            | 130.0                     |                     | 70.8               | 7                          | 59.6                           | 51.9  |
| MP-102-H-4CES-18Y | 2            | 65.0                      |                     | 40.4               | 7                          | 43                             | 37.5  |
| MP-103-H-4CES-27Y | 3            | 97.5                      |                     | 60.6               | 7                          | 59.6                           | 51.9  |
| MP-104-H-4CES-36Y | 4            | 130.0                     |                     | 80.8               | 7                          | 59.6                           | 51.9  |
| MP-202-K-4VES-14Y | 2            | 69.4                      | 380-420 / 3 / 50    | 33.2               | 7                          | 80.5                           | 70.2  |
| MP-203-K-4VES-21Y | 3            | 104.1                     |                     | 49.8               | 7                          | 80.5                           | 70.2  |
| MP-204-K-4VES-28Y | 4            | 138.8                     |                     | 66.4               | 7                          | 80.5                           | 70.2  |
| MP-202-H-4VES-20Y | 2            | 69.4                      |                     | 39.8               | 7                          | 80.5                           | 70.2  |
| MP-203-H-4VES-30Y | 3            | 104.1                     |                     | 59.7               | 7                          | 80.5                           | 70.2  |
| MP-204-H-4VES-40Y | 4            | 138.8                     |                     | 79.6               | 7                          | 80.5                           | 70.2  |
| MP-202-K-4TES-18Y | 2            | 82.6                      |                     | 39.8               | 7                          | 80.5                           | 70.2  |
| MP-203-K-4TES-27Y | 3            | 123.9                     |                     | 59.7               | 7                          | 80.5                           | 70.2  |
| MP-204-K-4TES-36Y | 4            | 165.2                     |                     | 79.6               | 7                          | 80.5                           | 70.2  |
| MP-202-H-4TES-24Y | 2            | 82.6                      |                     | 50.2               | 7                          | 80.5                           | 70.2  |
| MP-203-H-4TES-36Y | 3            | 123.9                     |                     | 75.3               | 7                          | 80.5                           | 70.2  |
| MP-204-H-4TES-48Y | 4            | 165.2                     |                     | 100.4              | 7                          | 80.5                           | 70.2  |
| MP-202-K-4PES-24Y | 2            | 97.0                      |                     | 45.4               | 7                          | 80.5                           | 70.2  |
| MP-203-K-4PES-36Y | 3            | 145.5                     |                     | 68.1               | 7                          | 98.2                           | 85.5  |
| MP-204-K-4PES-48Y | 4            | 194.0                     |                     | 90.8               | 7                          | 98.2                           | 85.5  |
| MP-202-H-4PES-30Y | 2            | 97.0                      |                     | 56.4               | 7                          | 80.5                           | 70.2  |
| MP-203-H-4PES-45Y | 3            | 145.5                     |                     | 84.6               | 7                          | 98.2                           | 85.5  |
| MP-204-H-4PES-60Y | 4            | 194.0                     |                     | 112.8              | 7                          | 98.2                           | 85.5  |

## TECHNICAL DATA

| MODEL             | No. of comp. | Total displacement (m <sup>3</sup> /h) | System              |                    | Oil Separator Charge (dm <sup>3</sup> ) | Liquid receiver pump down (kg) |       |
|-------------------|--------------|----------------------------------------|---------------------|--------------------|-----------------------------------------|--------------------------------|-------|
|                   |              |                                        | Voltage (V) / Phase | Max current (Amps) |                                         | R134a                          | R404A |
| MP-202-K-4NES-28Y | 2            | 112.4                                  | 380-420 / 3 / 50    | 53.2               | 7                                       | 80.5                           | 70.2  |
| MP-203-K-4NES-42Y | 3            | 168.6                                  |                     | 79.8               | 7                                       | 98.2                           | 85.5  |
| MP-204-K-4NES-56Y | 4            | 224.8                                  |                     | 106.4              | 7                                       | 98.2                           | 85.5  |
| MP-202-H-4NES-40Y | 2            | 112.4                                  |                     | 66.4               | 7                                       | 80.5                           | 70.2  |
| MP-203-H-4NES-60Y | 3            | 168.6                                  |                     | 99.6               | 7                                       | 98.2                           | 85.5  |
| MP-204-H-4NES-80Y | 4            | 224.8                                  |                     | 132.8              | 7                                       | 98.2                           | 85.5  |
| MP-302-K-4JE-30Y  | 2            | 127.0                                  | 380-420 / 3 / 50    | 61.6               | 7                                       | 98.2                           | 85.5  |
| MP-303-K-4JE-45Y  | 3            | 193.5                                  |                     | 92.4               | 7                                       | 98.2                           | 85.5  |
| MP-304-K-4JE-60Y  | 4            | 262.0                                  |                     | 123.2              | 7                                       | 123.6                          | 107.7 |
| MP-302-H-4JE-44Y  | 2            | 127.0                                  |                     | 74.4               | 7                                       | 98.2                           | 85.5  |
| MP-303-H-4JE-66Y  | 3            | 193.5                                  |                     | 111.6              | 7                                       | 98.2                           | 85.5  |
| MP-304-H-4JE-88Y  | 4            | 262.0                                  |                     | 148.8              | 7                                       | 123.6                          | 107.7 |
| MP-302-K-4HE-36Y  | 2            | 147.4                                  |                     | 73.4               | 7                                       | 98.2                           | 85.5  |
| MP-303-K-4HE-54Y  | 3            | 221.1                                  |                     | 110.1              | 7                                       | 98.2                           | 85.5  |
| MP-304-K-4HE-72Y  | 4            | 294.8                                  |                     | 146.8              | 7                                       | 123.6                          | 107.7 |
| MP-302-H-4HE-50Y  | 2            | 147.4                                  |                     | 88.0               | 7                                       | 98.2                           | 85.5  |
| MP-303-H-4HE-75Y  | 3            | 221.1                                  |                     | 132.0              | 7                                       | 98.2                           | 85.5  |
| MP-304-H-4HE-100Y | 4            | 294.8                                  |                     | 176.0              | 7                                       | 123.6                          | 107.7 |
| MP-302-K-4GE-46Y  | 2            | 169.2                                  |                     | 87.8               | 7                                       | 98.2                           | 85.5  |
| MP-303-K-4GE-69Y  | 3            | 253.8                                  |                     | 131.7              | 7                                       | 123.6                          | 107.7 |
| MP-304-K-4GE-92Y  | 4            | 338.4                                  |                     | 175.6              | 7                                       | 123.6                          | 107.7 |
| MP-302-H-4GE-60Y  | 2            | 169.2                                  |                     | 102.4              | 7                                       | 98.2                           | 85.5  |
| MP-303-H-4GE-90Y  | 3            | 253.8                                  |                     | 153.6              | 7                                       | 123.6                          | 107.7 |
| MP-304-H-4GE-120Y | 4            | 338.4                                  |                     | 204.8              | 7                                       | 123.6                          | 107.7 |
| MP-302-K-4FE-56Y  | 2            | 203.6                                  |                     | 105.6              | 7                                       | 98.2                           | 85.5  |
| MP-303-K-4FE-84Y  | 3            | 305.4                                  |                     | 158.4              | 7                                       | 123.6                          | 107.7 |
| MP-304-K-4FE-112Y | 4            | 407.2                                  |                     | 211.2              | 7                                       | 123.6                          | 107.7 |
| MP-302-H-4FE-70Y  | 2            | 203.6                                  |                     | 124.2              | 7                                       | 98.2                           | 85.5  |
| MP-303-H-4FE-105Y | 3            | 305.4                                  |                     | 186.3              | 7                                       | 123.6                          | 107.7 |
| MP-304-H-4FE-140Y | 4            | 407.2                                  |                     | 248.4              | 7                                       | 123.6                          | 107.7 |
| MP-302-K-6JE-50Y  | 2            | 190.6                                  |                     | 92.8               | 7                                       | 98.2                           | 85.5  |
| MP-303-K-6JE-75Y  | 3            | 285.9                                  |                     | 139.2              | 7                                       | 123.6                          | 107.7 |
| MP-304-K-6JE-100Y | 4            | 381.2                                  |                     | 185.6              | 7                                       | 123.6                          | 107.7 |
| MP-302-H-6JE-66Y  | 2            | 190.6                                  |                     | 106.4              | 7                                       | 98.2                           | 85.5  |
| MP-303-H-6JE-99Y  | 3            | 285.9                                  |                     | 159.6              | 7                                       | 123.6                          | 107.7 |
| MP-304-H-6JE-132Y | 4            | 381.2                                  |                     | 212.8              | 7                                       | 123.6                          | 107.7 |
| MP-302-K-6HE-56Y  | 2            | 221.0                                  |                     | 106.4              | 7                                       | 98.2                           | 85.5  |
| MP-303-K-6HE-84Y  | 3            | 331.5                                  |                     | 159.6              | 7                                       | 123.6                          | 107.7 |
| MP-304-K-6HE-112Y | 4            | 442.0                                  |                     | 212.8              | 7                                       | 123.6                          | 107.7 |

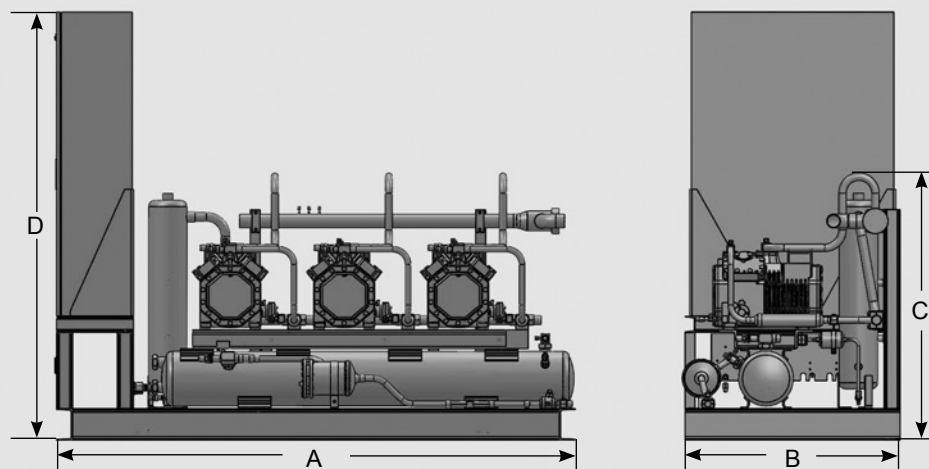


## TECHNICAL DATA

| MODEL                 | No. of comp. | Total displacement (m³/h) | System              |                    | Oil Separator Charge (dm³) | Liquid receiver pump down (kg) |       |
|-----------------------|--------------|---------------------------|---------------------|--------------------|----------------------------|--------------------------------|-------|
|                       |              |                           | Voltage (V) / Phase | Max current (Amps) |                            | R134a                          | R404A |
| MP-302-H-6HE-70Y      | 2            | 221.0                     | 380-420 / 3 / 50    | 128.8              | 7                          | 98.2                           | 85.5  |
| MP-303-H-6HE-105Y     | 3            | 331.5                     |                     | 193.2              | 7                          | 123.6                          | 107.7 |
| MP-304-H-6HE-140Y     | 4            | 442.0                     |                     | 257.6              | 7                          | 123.6                          | 107.7 |
| MP-302-K-6GE-68Y      | 2            | 253.6                     |                     | 131.0              | 7                          | 98.2                           | 85.5  |
| MP-303-K-6GE-102Y     | 3            | 380.4                     |                     | 196.5              | 7                          | 123.6                          | 107.7 |
| MP-304-K-6GE-136Y     | 4            | 507.2                     |                     | 262.0              | 7                          | 123.6                          | 107.7 |
| MP-302-H-6GE-80Y      | 2            | 253.6                     |                     | 147.8              | 7                          | 98.2                           | 85.5  |
| MP-303-H-6GE-120Y     | 3            | 380.4                     |                     | 221.7              | 7                          | 123.6                          | 107.7 |
| MP-304-H-6GE-160Y     | 4            | 507.2                     |                     | 295.6              | 7                          | 123.6                          | 107.7 |
| MP-302-K-6FE-88Y      | 2            | 303.2                     |                     | 166.4              | 7                          | 98.2                           | 85.5  |
| MP-303-K-6FE-132Y     | 3            | 454.8                     |                     | 249.6              | 7                          | 123.6                          | 107.7 |
| MP-304-K-6FE-176Y     | 4            | 606.4                     |                     | 332.8              | 7                          | 123.6                          | 107.7 |
| MP-302-H-6FE-100Y     | 2            | 303.2                     |                     | 192.4              | 7                          | 98.2                           | 85.5  |
| MP-303-H-6FE-150Y     | 3            | 454.8                     |                     | 288.6              | 7                          | 123.6                          | 107.7 |
| MP-304-H-6FE-200Y     | 4            | 606.4                     |                     | 384.8              | 7                          | 251.6                          | 219.2 |
| CP-702-L-S4T-10.2(Y)  | 2            | 25.2                      | 380-420 / 3 / 50    | 28                 | 7                          | 98.2                           | 85.5  |
| CP-703-L-S4T-15.2(Y)  | 3            | 37.8                      |                     | 42                 | 7                          | 98.2                           | 85.5  |
| CP-704-L-S4T-20.2(Y)  | 4            | 50.4                      |                     | 56                 | 7                          | 123.6                          | 107.7 |
| CP-702-L-S4N-16.2(Y)  | 2            | 35.8                      |                     | 34                 | 7                          | 98.2                           | 85.5  |
| CP-703-L-S4N-24.2(Y)  | 3            | 53.7                      |                     | 51                 | 7                          | 98.2                           | 85.5  |
| CP-704-L-S4N-32.2(Y)  | 4            | 71.6                      |                     | 68                 | 7                          | 123.6                          | 107.7 |
| CP-702-L-S4G-24.2(Y)  | 2            | 54.0                      |                     | 48                 | 7                          | 98.2                           | 85.5  |
| CP-703-L-S4G-36.2(Y)  | 3            | 81.0                      |                     | 72                 | 7                          | 98.2                           | 85.5  |
| CP-704-L-S4G-48.2(Y)  | 4            | 108.0                     |                     | 96                 | 7                          | 123.6                          | 107.7 |
| CP-702-L-S6J-32.2(Y)  | 2            | 63.6                      |                     | 62                 | 7                          | 98.2                           | 85.5  |
| CP-703-L-S6J-48.2(Y)  | 3            | 95.4                      |                     | 93                 | 7                          | 98.2                           | 85.5  |
| CP-704-L-S6J-64.2(Y)  | 4            | 127.2                     |                     | 124                | 7                          | 123.6                          | 107.7 |
| CP-702-L-S6H-40.2(Y)  | 2            | 73.8                      |                     | 74                 | 7                          | 98.2                           | 85.5  |
| CP-703-L-S6H-60.2(Y)  | 3            | 110.7                     |                     | 111                | 7                          | 123.6                          | 107.7 |
| CP-704-L-S6H-80.2(Y)  | 4            | 147.6                     |                     | 148                | 7                          | 123.6                          | 107.7 |
| CP-702-L-S6G-50.2(Y)  | 2            | 84.6                      |                     | 86                 | 7                          | 123.6                          | 107.7 |
| CP-703-L-S6G-75.2(Y)  | 3            | 126.9                     |                     | 129                | 7                          | 123.6                          | 107.7 |
| CP-704-L-S6G-100.2(Y) | 4            | 169.2                     |                     | 172                | 7                          | 251.6                          | 219.2 |
| CP-702-L-S6F-60.2(Y)  | 2            | 101.0                     |                     | 102                | 7                          | 123.6                          | 107.7 |
| CP-703-L-S6F-90.2(Y)  | 3            | 151.5                     |                     | 153                | 7                          | 123.6                          | 107.7 |
| CP-704-L-S6F-120.2(Y) | 4            | 202.0                     |                     | 204                | 7                          | 251.6                          | 219.2 |

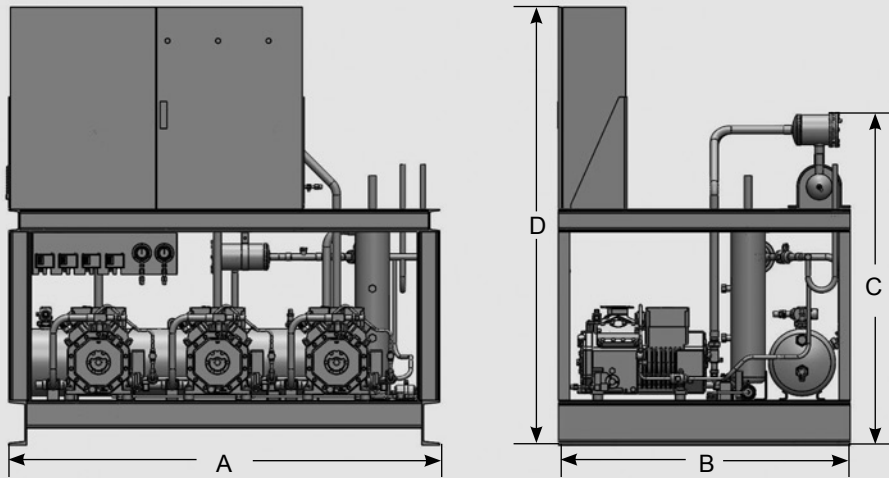
## DIMENSION DRAWINGS

MP 100



| MODEL             | Dimension in mm |     |      |      | Suction line connection (inch) | Oil separator outlet connection (inch) | Liquid receiver inlet connection (inch) | Liquid connection (inch) |
|-------------------|-----------------|-----|------|------|--------------------------------|----------------------------------------|-----------------------------------------|--------------------------|
|                   | A               | B   | C    | D    |                                |                                        |                                         |                          |
| MP-102-K-2DES-4Y  | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-K-2DES-6Y  | 2050            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-K-2DES-8Y  | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-H-2DES-6Y  | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-H-2DES-9Y  | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-H-2DES-12Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 3/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-K-2CES-6Y  | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-K-2CES-9Y  | 2050            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-K-2CES-12Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-H-2CES-8Y  | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-H-2CES-12Y | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-H-2CES-16Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 3/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-K-4FES-6Y  | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-K-4FES-9Y  | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-K-4FES-12Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-H-4FES-10Y | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-H-4FES-15Y | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 3/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-H-4FES-20Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 3/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-K-4EES-8Y  | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-K-4EES-12Y | 2050            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-K-4EES-16Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-H-4EES-12Y | 1745            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-H-4EES-18Y | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 3/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-H-4EES-24Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 5/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-K-4DES-10Y | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-K-4DES-15Y | 2050            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-K-4DES-20Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-H-4DES-14Y | 1745            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-H-4DES-21Y | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 3/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-H-4DES-28Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 5/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-K-4CES-12Y | 1745            | 850 | 1040 | 1690 | 1 5/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-K-4CES-18Y | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-K-4CES-24Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 1 1/8                    |
| MP-102-H-4CES-18Y | 1745            | 850 | 1040 | 1690 | 2 1/8                          | 1 1/8                                  | 1 1/8                                   | 7/8                      |
| MP-103-H-4CES-27Y | 2050            | 850 | 1040 | 1690 | 2 1/8                          | 1 5/8                                  | 1 1/8                                   | 7/8                      |
| MP-104-H-4CES-36Y | 2500            | 850 | 1040 | 1690 | 2 1/8                          | 1 5/8                                  | 1 1/8                                   | 1 1/8                    |

\* Connection size is only an indication. Final connection size is provided with the P&ID of the unit and calculated according to the operating conditions.

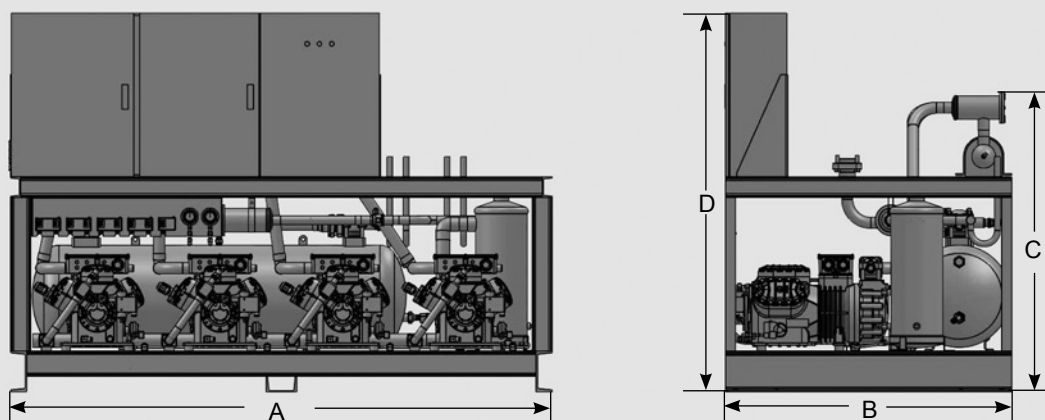


| MODEL             | Dimension in mm |      |      |      | Suction line connection (inch) | Oil separator outlet connection (inch) | Liquid receiver inlet connection (inch) | Liquid connection (inch) |
|-------------------|-----------------|------|------|------|--------------------------------|----------------------------------------|-----------------------------------------|--------------------------|
|                   | A               | B    | C    | D    |                                |                                        |                                         |                          |
| MP-202-K-4VES-14Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 1/8                                  | 1 3/8                                   | 7/8                      |
| MP-203-K-4VES-21Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 1/8                                  | 1 3/8                                   | 2 X 5/8                  |
| MP-204-K-4VES-28Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 3/8                      | 1 3/8                                  | 1 3/8                                   | 3 X 5/8                  |
| MP-202-H-4VES-20Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 3/8                                  | 1 3/8                                   | 1 1/8                    |
| MP-203-H-4VES-30Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 5/8                                  | 1 3/8                                   | 2 X 7/8                  |
| MP-204-H-4VES-40Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 5/8                      | 2 1/8                                  | 1 3/8                                   | 3 X 7/8                  |
| MP-202-K-4TES-18Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 1/8                                  | 1 3/8                                   | 7/8                      |
| MP-203-K-4TES-27Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 3/8                                  | 1 3/8                                   | 2 X 5/8                  |
| MP-204-K-4TES-36Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 5/8                      | 1 3/8                                  | 1 3/8                                   | 3 X 5/8                  |
| MP-202-H-4TES-24Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 3/8                                  | 1 3/8                                   | 1 1/8                    |
| MP-203-H-4TES-36Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 5/8                                  | 1 3/8                                   | 2 X 7/8                  |
| MP-204-H-4TES-48Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 5/8                      | 2 1/8                                  | 1 3/8                                   | 3 X 7/8                  |
| MP-202-K-4PES-24Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 1/8                                  | 1 3/8                                   | 7/8                      |
| MP-203-K-4PES-36Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 3/8                                  | 1 5/8                                   | 2 X 5/8                  |
| MP-204-K-4PES-48Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 5/8                      | 1 3/8                                  | 1 5/8                                   | 3 X 5/8                  |
| MP-202-H-4PES-30Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 3/8                                  | 1 3/8                                   | 1 1/8                    |
| MP-203-H-4PES-45Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 7/8                  |
| MP-204-H-4PES-60Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 5/8                      | 2 1/8                                  | 1 5/8                                   | 3 X 7/8                  |
| MP-202-K-4NES-28Y | 1645            | 1300 | 1381 | 1750 | 2 1/8                          | 1 1/8                                  | 1 3/8                                   | 7/8                      |
| MP-203-K-4NES-42Y | 1920            | 1300 | 1381 | 1750 | 2 X 1 5/8                      | 1 3/8                                  | 1 5/8                                   | 2 X 7/8                  |
| MP-204-K-4NES-56Y | 2450            | 1300 | 1381 | 1750 | 3 X 1 5/8                      | 1 3/8                                  | 1 5/8                                   | 3 X 5/8                  |
| MP-202-H-4NES-40Y | 1645            | 1300 | 1381 | 1750 | 2 5/8                          | 1 3/8                                  | 1 3/8                                   | 1 3/8                    |
| MP-203-H-4NES-60Y | 1920            | 1300 | 1381 | 1750 | 2 X 2 1/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 1 1/8                |
| MP-204-H-4NES-80Y | 2450            | 1300 | 1381 | 1750 | 3 X 2 1/8                      | 2 1/8                                  | 1 5/8                                   | 3 X 1 1/8                |

\* Connection size is only an indication. Final connection size is provided with the P&ID of the unit and calculated according to the operating conditions.

## DIMENSION DRAWINGS

### MP 300



| MODEL             | Dimension in mm |      |      |      | Suction line connection (inch) | Oil separator outlet connection (inch) | Liquid receiver inlet connection (inch) | Liquid connection (inch) |
|-------------------|-----------------|------|------|------|--------------------------------|----------------------------------------|-----------------------------------------|--------------------------|
|                   | A               | B    | C    | D    |                                |                                        |                                         |                          |
| MP-302-K-4JE-30Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 1/8                |
| MP-303-K-4JE-45Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 7/8                  |
| MP-304-K-4JE-60Y  | 2650            | 1400 | 1490 | 1850 | 3 X 2 1/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 7/8                  |
| MP-302-H-4JE-44Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 3/8                |
| MP-303-H-4JE-66Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 1 5/8                                   | 2 X 1 3/8                |
| MP-304-H-4JE-88Y  | 2650            | 1400 | 1490 | 1850 | 3 X 2 1/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 1/8                |
| MP-302-K-4HE-36Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 1/8                |
| MP-303-K-4HE-54Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 7/8                  |
| MP-304-K-4HE-72Y  | 2650            | 1400 | 1490 | 1850 | 3 X 2 1/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 7/8                  |
| MP-302-H-4HE-50Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 3/8                |
| MP-303-H-4HE-75Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 1 5/8                                   | 2 X 1 3/8                |
| MP-304-H-4HE-100Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 1/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 1/8                |
| MP-302-K-4GE-46Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 1/8                |
| MP-303-K-4GE-69Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 2 1/8                                   | 2 X 7/8                  |
| MP-304-K-4GE-92Y  | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 7/8                  |
| MP-302-H-4GE-60Y  | 1800            | 1400 | 1490 | 1850 | 1 X 3 1/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 3/8                |
| MP-303-H-4GE-90Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 3/8                |
| MP-304-H-4GE-120Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 3/8                |
| MP-302-K-4FE-56Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 1/8                |
| MP-303-K-4FE-84Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 2 1/8                                   | 2 X 1 1/8                |
| MP-304-K-4FE-112Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 1 1/8                |
| MP-302-H-4FE-70Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 1 3/8                |
| MP-303-H-4FE-105Y | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 3/8                |
| MP-304-H-4FE-140Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 3/8                |
| MP-302-K-6JE-50Y  | 1800            | 1400 | 1490 | 1850 | 1 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 1 X 1 1/8                |
| MP-303-K-6JE-75Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 2 1/8                                   | 2 X 1 1/8                |
| MP-304-K-6JE-100Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 1 1/8                |

\* Connection size is only an indication. Final connection size is provided with the P&ID of the unit and calculated according to the operating conditions.





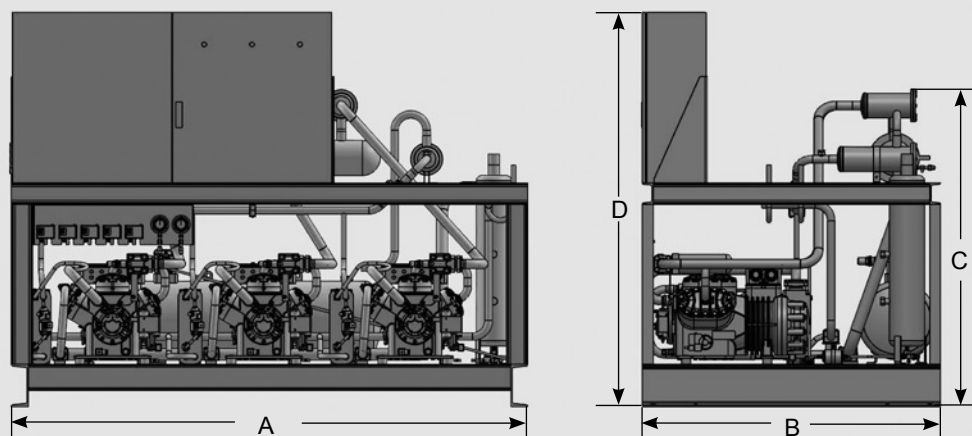
## DIMENSION DRAWINGS

| MODEL             | Dimension in mm |      |      |      | Suction line connection (inch) | Oil separator outlet connection (inch) | Liquid receiver inlet connection (inch) | Liquid connection (inch) |
|-------------------|-----------------|------|------|------|--------------------------------|----------------------------------------|-----------------------------------------|--------------------------|
|                   | A               | B    | C    | D    |                                |                                        |                                         |                          |
| MP-302-H-6JE-66Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 1 3/8                |
| MP-303-H-6JE-99Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 3/8                |
| MP-304-H-6JE-132Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 3/8                |
| MP-302-K-6HE-56Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 7/8                  |
| MP-303-K-6HE-84Y  | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 2 1/8                                   | 2 X 1 1/8                |
| MP-304-K-6HE-112Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 1 1/8                |
| MP-302-H-6HE-70Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 5/8                                   | 2 X 1 3/8                |
| MP-303-H-6HE-105Y | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 3/8                |
| MP-304-H-6HE-140Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 3/8                |
| MP-302-K-6GE-68Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 3/8                                   | 2 X 7/8                  |
| MP-303-K-6GE-102Y | 2160            | 1400 | 1490 | 1850 | 2 X 3 1/8                      | 1 5/8                                  | 2 1/8                                   | 2 X 1 1/8                |
| MP-304-K-6GE-136Y | 2650            | 1400 | 1490 | 1850 | 3 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 1 1/8                |
| MP-302-H-6GE-80Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 1 5/8                                  | 1 3/8                                   | 2 X 1 3/8                |
| MP-303-H-6GE-120Y | 2160            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 3/8                |
| MP-304-H-6GE-160Y | 2650            | 1400 | 1490 | 1850 | 3 X 3 1/8                      | 2 5/8                                  | 2 1/8                                   | 3 X 1 5/8                |
| MP-302-K-6FE-88Y  | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 1 3/8                                   | 2 X 1 1/8                |
| MP-303-K-6FE-132Y | 2160            | 1400 | 1490 | 1850 | 2 X 3 1/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 1/8                |
| MP-304-K-6FE-176Y | 2650            | 1400 | 1490 | 1850 | 3 X 3 1/8                      | 2 1/8                                  | 2 1/8                                   | 3 X 1 1/8                |
| MP-302-H-6FE-100Y | 1800            | 1400 | 1490 | 1850 | 2 X 2 5/8                      | 2 1/8                                  | 1 3/8                                   | 2 X 1 3/8                |
| MP-303-H-6FE-150Y | 2160            | 1400 | 1490 | 1850 | 3 X 3 1/8                      | 2 1/8                                  | 2 1/8                                   | 2 X 1 5/8                |
| MP-304-H-6FE-200Y | 2650            | 1400 | 1490 | 1850 | 3 X 3 1/8                      | 3 1/8                                  | 2 1/8                                   | 3 X 1 5/8                |

\* Connection size is only an indication. Final connection size is provided with the P&ID of the unit and calculated according to the operating conditions.

## DIMENSION DRAWINGS

CP 700



| MODEL                 | Dimension in mm |      |      |      | Suction line connection (inch)                                                                                                       | Oil separator outlet connection (inch) | Liquid receiver inlet connection (inch) | Liquid connection (inch) |
|-----------------------|-----------------|------|------|------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------|
|                       | A               | B    | C    | D    |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S4T-10.2(Y)  | 1660            | 1400 | 1488 | 1850 | Pipe sizes for 2-stage systems are engineered to order. Alternatively the connection sizes can be requested at the time of quotation |                                        |                                         |                          |
| CP-703-L-S4T-15.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S4T-20.2(Y)  | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S4N-16.2(Y)  | 1660            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-703-L-S4N-24.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S4N-32.2(Y)  | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S4G-24.2(Y)  | 1660            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-703-L-S4G-36.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S4G-48.2(Y)  | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S6J-32.2(Y)  | 1660            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-703-L-S6J-48.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S6J-64.2(Y)  | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S6H-40.2(Y)  | 1660            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-703-L-S6H-60.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S6H-80.2(Y)  | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S6G-50.2(Y)  | 1660            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-703-L-S6G-75.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S6G-100.2(Y) | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-702-L-S6F-60.2(Y)  | 1660            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-703-L-S6F-90.2(Y)  | 2425            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |
| CP-704-L-S6F-120.2(Y) | 3135            | 1400 | 1488 | 1850 |                                                                                                                                      |                                        |                                         |                          |



NOTES

Lined area for notes, consisting of multiple horizontal lines.



## NOTES

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