

ENGINEERING  
TOMORROW

*Danfoss*

Catalogue

# Optyma™ Condensing Units

## Lightweight and compact solution

R22 – R134a – R404A – R507, 60 Hz

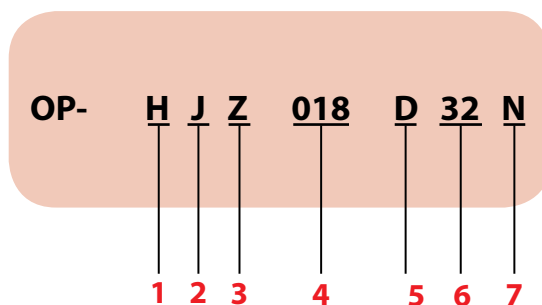


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**OPTYMA™**  
DANFOSS CONDENSING UNITS

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## Nomenclature



|          |                                                                                                                                                                                                                                                                                                    |          |                                                                                                                                                                                                                         |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <b>Application:</b><br><b>H</b> = High and medium evaporating temperature (MBP)<br><b>L</b> = Low evaporating temperature (LBP)                                                                                                                                                                    | <b>5</b> | <b>Platform:</b><br><b>D</b> = Micro-channel technology                                                                                                                                                                 |
| <b>2</b> | <b>Design:</b><br><b>J</b> = Condensing unit with reciprocating compressor and one fan<br><b>N</b> = Condensing unit with scroll compressor and one fan<br><b>G</b> = Condensing unit with reciprocating compressor and two fans<br><b>R</b> = Condensing unit with scroll compressor and two fans | <b>6</b> | <b>Product configuration:</b><br><b>32 / 40</b> = See table below                                                                                                                                                       |
| <b>3</b> | <b>Refrigerant - Type of oil:</b><br><b>M</b> = R22 - Mineral<br><b>Z</b> = R134a/R404A/R507 - Polyolester<br><b>U</b> = R22/R134a/R404A/R507 - Polyvinyl ether                                                                                                                                    | <b>7</b> | <b>Voltage code:</b><br><b>N</b> = Compressor 230 V/1-ph/60 Hz , fan 230 V/1-ph/60 Hz<br><b>Q</b> = Compressor 230 V/3-ph/60 Hz , fan 230 V/1-ph/60 Hz<br><b>R</b> = Compressor 460 V/3-ph/60 Hz , fan 460 V/1-ph/60 Hz |
| <b>4</b> | <b>Compressor model:</b><br><b>MT and MTZ series</b> for MBP reciprocating compressor<br><b>NTZ series</b> for LBP scroll compressor<br><b>MLZ series</b> for MBP scroll compressor                                                                                                                |          |                                                                                                                                                                                                                         |

## Version - Product configuration

|                           | <b>D32</b> | <b>D40</b> |
|---------------------------|------------|------------|
| Receiver                  | X          | X          |
| Filter drier              | X          | X          |
| Sight glass               | X          | X          |
| Low pressure switch - KP1 | X          | X          |
| High-pressure cartridge   | X          | X          |
| Oil separator             |            | X          |
| Suction accumulator       |            | X          |
| Outdoor housing           |            | X          |
| Crankcase heater          | X          | X*         |
| Rotolock suction valve    | X          | X*         |
| Rotolock discharge valve  | X          | X*         |
| Pre-wired electrical box  | X          | X          |
| Contactors                | X          | X          |
| Sequence phase relay      |            | X**        |

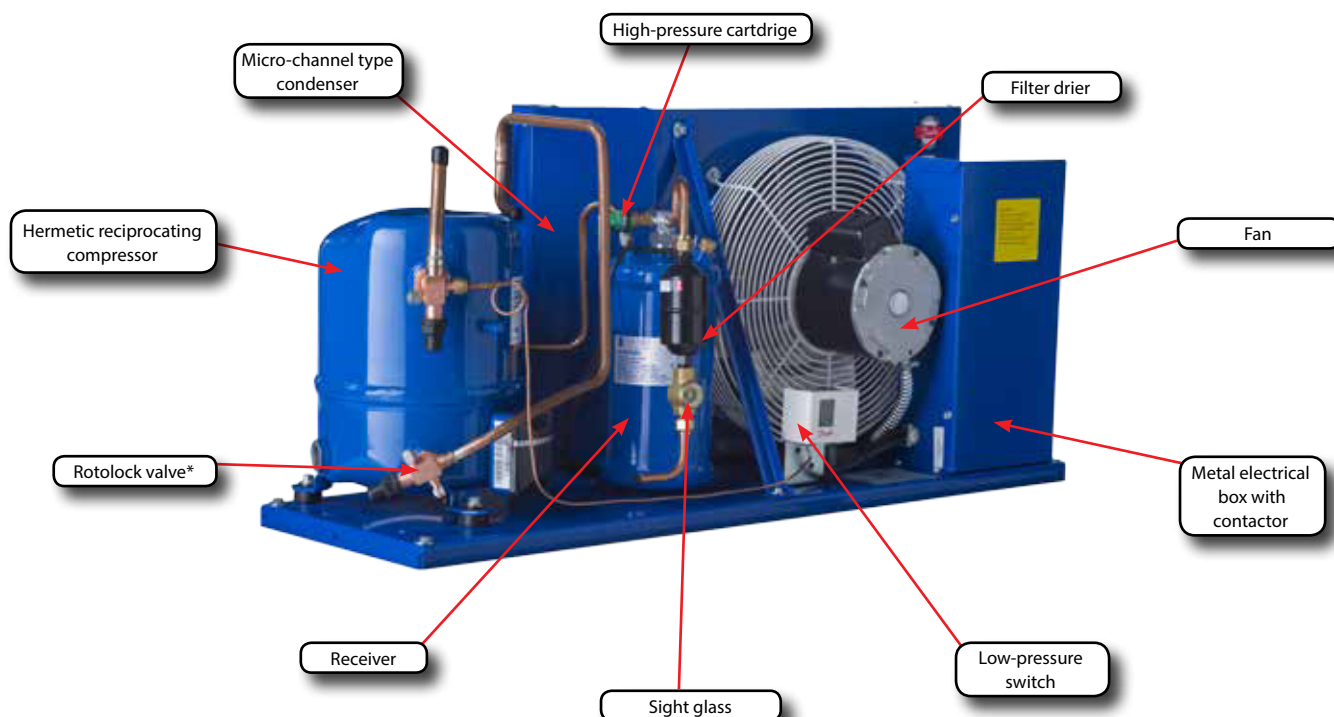
### Note

The unit may only be operated with the types of refrigerants stated in the capacity tables.

\* Not available for units equipped with scroll compressors.

\*\* Only for units equipped with scroll compressors.

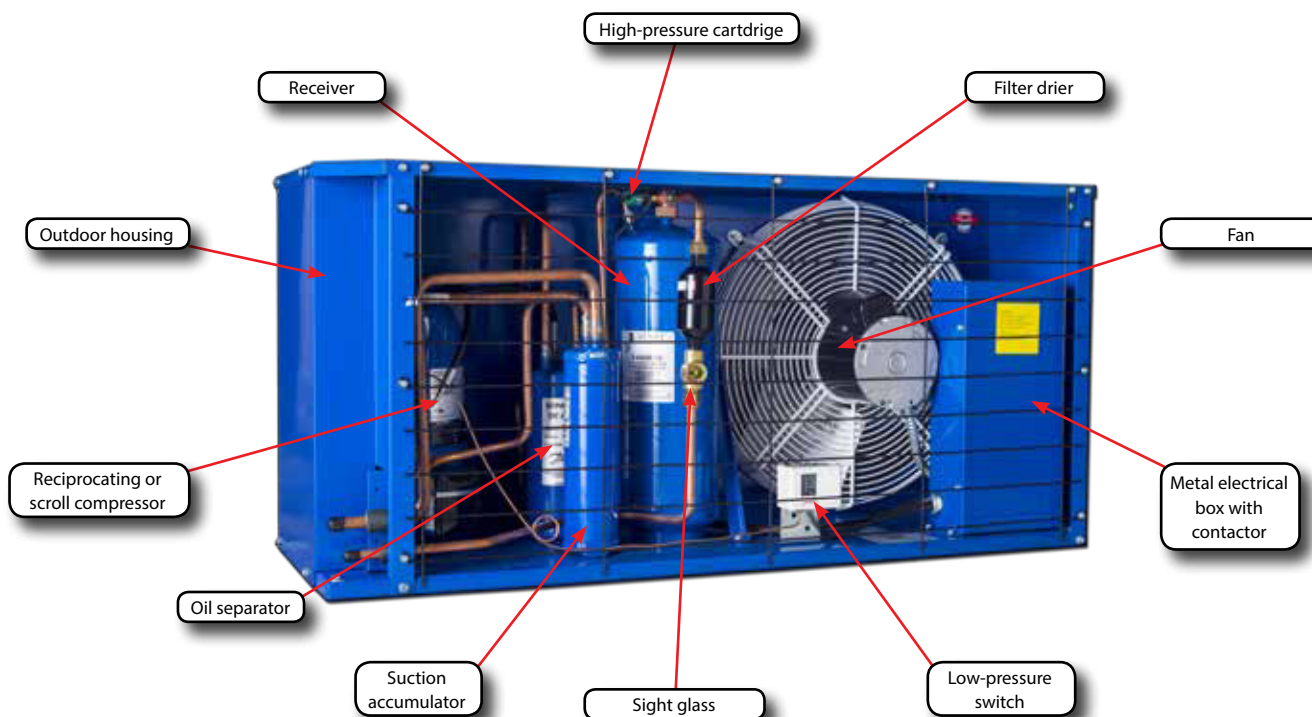
### D32 version



**Note:**

\*Not available for units equipped with scroll compressors.

### D40 version





### Reduced refrigerant charge

Condensing units with micro-channel condensers use up to 30% less refrigerant charge than those equipped with fin and tube type condensers, thus streamlining the installer's workload.



### Lighter condensing unit

New condensing units equipped with micro-channel condensers are up to 15 kg lighter than conventional ones.



### Faster installation

Refrigerant charging time is significantly reduced since less amount of refrigerant is used.

Refrigerant evacuation time is significantly reduced since the internal volume of the micro-channel condenser is quite small when compared to any equivalent fin and tube type condenser.

Faster installation enhances installer's productivity (this allows the latter to carry out a greater number of installations per day).

The fact that it is lighter than conventional units also further shortens installation time.



### Easier to maintain

Units feature suction and discharge valves allowing fast and easy maintenance.

Cleaning micro-channel type condensers is easier and faster than fin and tube ones.

Both factors combined allow preventive maintenance on these units to be performed up to 50% faster than on conventional ones.



### Greater efficiency

Scroll units are designed to deliver greater energy efficiency compared to other technologies, which translates into less power consumption and lower energy costs.

Provided that the refrigeration appliance operates mainly as close as possible to the optimum point (-10°C), scroll technology will certainly deliver significant energy savings.



### Less noise emissions

During operation, scroll compressors generate lower noise levels compared to other technologies. Hence, they can be used in a wide variety of locations where noise may be an issue.



### Faster and easier upgrade

The oil used by scroll compressors is suitable for any type of refrigerant: This may be of great advantage for installations currently operating with R22, but which are expected to upgrade to an alternative type of refrigerant in the future, as no oil change will be required.

## Main product features

Crankcase heater



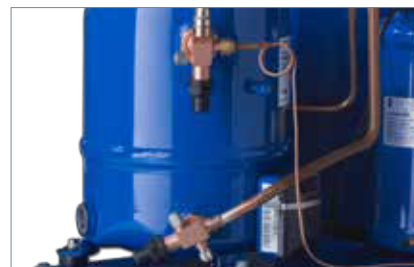
- The crankcase heater reduces by 23.5% the risk of the compressor failing under flooded start-up conditions, thus extending the operating life of the condensing unit.

Micro-channel condenser



- As the micro-channel condenser has a reduced internal volume, it uses a smaller amount of refrigerant charge and is more efficient, hence reducing refrigerant evacuation and charging time even further. Cleaning and maintenance are also easier and faster.

Rotolock valve



- The presence of Rotolock valves on the condensing unit suction and discharge lines allows for faster compressor replacement and reduces the time needed for refrigerant evacuation, thus speeding up maintenance operations.

## How to select the technology that best fits your application

Condensing units equipped with scroll or reciprocating compressors can be used for any kind of refrigeration application, provided that the application limits of the unit are being observed. However, you may enjoy more benefits when you choose a technology that is particularly suited for the application in mind.

The following table provides some recommendations on which technologies to use under specific conditions.

| Application or condition                                                  | Compressor type |        | Reason                                                                   |
|---------------------------------------------------------------------------|-----------------|--------|--------------------------------------------------------------------------|
|                                                                           | Reciprocating   | Scroll |                                                                          |
| Noise level                                                               |                 | 👍      | Reduced noise level                                                      |
| Retrofit or upgrade                                                       |                 | 👍      | Oil for multiple refrigerant types                                       |
| Low temperatures                                                          | 👍               |        | Lower temperature range                                                  |
| Medium and high temperatures                                              | 👍               | 👍      | Wide temperature range                                                   |
| Applications with stable evaporating temp. between -15°C and -5°C         |                 | 👍      | Improved annual energy efficiency level using a scroll compressor        |
| Applications with stable evaporating temp. beyond the -15°C to -5°C range | 👍               |        | Improved annual energy efficiency level using a reciprocating compressor |
| Applications with variable evaporating temp.                              | 👍               |        | Improved annual energy efficiency level using a reciprocating compressor |

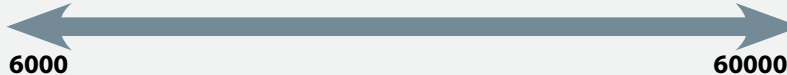
### Rated capacity ranges (Btu/h)\*

#### Units with reciprocating compressors

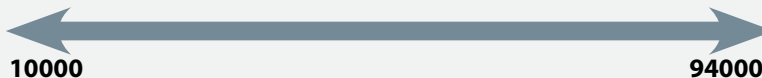
OP-H units... with R22



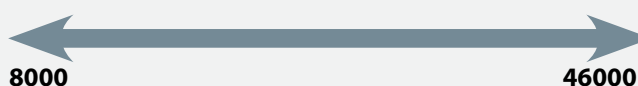
OP-H units... with R134a



OP-H units... with R404A/R507

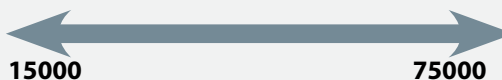


OP-L units... with R404A/R507



#### Units with scroll compressors

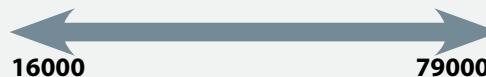
OP-H units... with R22



OP-H units... with R134a



OP-H units... with R404A/R507

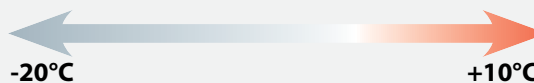


\* Evaporating temperature for OP-H units...: -10°C. Evaporating temperature for OP-L units...: -25°C

### Application limits (evaporating temperature in °C)

#### Units with reciprocating compressors

OP-H units... with R22



OP-H units... with R134a



OP-H units... with R404A/R507

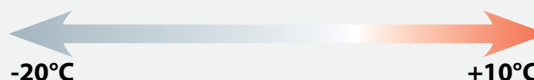


OP-L units... with R404A/R507

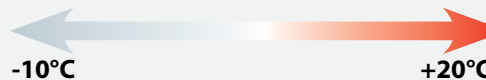


#### Units with scroll compressors

OP-H units... with R22



OP-H units... with R134a



OP-H units... with R404A/R507



### How to select a Danfoss condensing unit

1) Calculate the cooling capacity required for the application.

2) Select your preferred type of coolant and then a unit with sufficient capacity to suit the evaporating temperature required for the project, as well as the maximum ambient temperature conditions prevailing at the location where the condensing unit is to be installed. Never extrapolate values or use equipment under operating conditions beyond the application limits stated above. Should the unit be likely to operate sporadically beyond said limits, specific controls shall be added, such as pressure regulators, thermostats, etc. in order to protect the equipment.

3) The unit code number can be found in the actual capacity table, tallying with the required voltage code (N, Q, or R) and preferred configuration (D32 or D40).

| Fans | Test conditions                | Model      | version code |          | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |         |         |         |         |
|------|--------------------------------|------------|--------------|----------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|---------|---------|---------|---------|
|      |                                |            | D32          | D40      |                 |            |                     | -20°C                                               | -15°C  | -10°C  | -5°C    | 0°C     | 5°C     | 10°C    |
|      | Superheat 18K<br>subcooling 3K | OP-HJM018D | 114N3200     | 114N3201 | N               | MT018      | 32°C                | 4 350                                               | 6 100  | 8 150  | 10 600  | 13 500  | 16 800  | 20 450  |
|      |                                |            | 114N3203     | 114N3204 | Q               |            | 35°C                | 4 100                                               | 5 750  | 7 750  | 10 100  | 12 900  | 16 050  | 19 550  |
|      |                                |            |              |          |                 |            | 38°C                | 3 850                                               | 5 400  | 7 350  | 9 600   | 12 250  | 15 250  | 18 650  |
|      |                                |            |              |          |                 |            | 43°C                | 3 400                                               | 4 900  | 6 650  | 8 750   | 11 150  | 14 000  | 17 150  |
|      |                                | OP-HJM022D | 114N3216     | 114N3217 | N               | MT022      | 32°C                | 6 350                                               | 8 750  | 11 500 | 14 550  | 17 950  | 21 700  | 25 750  |
|      |                                |            | 114N3219     | 114N3220 | Q               |            | 35°C                | 5 900                                               | 8 250  | 10 900 | 13 850  | 17 150  | 20 750  | 24 650  |
|      |                                |            |              |          |                 |            | 38°C                | 5 400                                               | 7 700  | 10 250 | 13 150  | 16 300  | 19 800  | 23 550  |
|      |                                |            |              |          |                 |            | 43°C                | 4 650                                               | 6 800  | 9 200  | 11 950  | 14 900  | 18 200  | 21 700  |
|      |                                | OP-HJM028D | 114N3232     | 114N3233 | N               | MT028      | 32°C                | 10 400                                              | 13 650 | 17 350 | 21 450  | 26 000  | 30 950  | 36 350  |
|      |                                |            | 114N3235     | 114N3236 | Q               |            | 35°C                | 9 800                                               | 13 000 | 16 600 | 20 600  | 25 050  | 29 850  | 35 100  |
|      |                                |            |              |          |                 |            | 38°C                | 9 200                                               | 12 350 | 15 850 | 19 750  | 24 050  | 28 750  | 33 850  |
|      |                                |            |              |          |                 |            | 43°C                | 8 250                                               | 11 250 | 14 600 | 18 300  | 22 400  | 26 850  | 31 650  |
|      |                                | OP-HJM036D | 114N3244     | 114N3245 | N               | MT036      | 32°C                | 13 300                                              | 17 250 | 21 650 | 26 450  | 31 700  | 37 350  | 43 400  |
|      |                                |            | 114N3247     | 114N3248 | Q               |            | 35°C                | 12 550                                              | 16 400 | 20 700 | 25 400  | 30 500  | 36 000  | 41 850  |
|      |                                |            |              |          |                 |            | 38°C                | 11 750                                              | 15 550 | 19 700 | 24 300  | 29 250  | 34 600  | 40 300  |
|      |                                |            |              |          |                 |            | 43°C                | 10 450                                              | 14 100 | 18 100 | 22 450  | 27 200  | 32 250  | 37 650  |
|      |                                | OP-HJM040D | 114N3259     | 114N3260 | N               | MT040      | 32°C                | 15 000                                              | 19 450 | 24 500 | 30 100  | 36 400  | 43 350  | 51 000  |
|      |                                |            | 114N3262     | 114N3263 | Q               |            | 35°C                | 14 100                                              | 18 500 | 23 450 | 29 050  | 35 250  | 42 100  | 49 600  |
|      |                                |            |              |          |                 |            | 38°C                | 13 150                                              | 17 550 | 22 450 | 27 950  | 34 050  | 40 850  | 48 250  |
|      |                                |            |              |          |                 |            | 43°C                | 11 650                                              | 15 950 | 20 750 | 26 150  | 32 100  | 38 700  | 45 950  |
|      |                                | OP-HJM050D | 114N3274     | 114N3275 | N               | MT050      | 32°C                | 16 300                                              | 21 600 | 27 700 | 34 700  | 42 500  | 51 150  | 60 600  |
|      |                                |            | 114N3277     | 114N3278 | Q               |            | 35°C                | 15 500                                              | 20 650 | 26 550 | 33 300  | 40 850  | 49 200  | 58 300  |
|      |                                |            |              |          |                 |            | 38°C                | 14 750                                              | 19 700 | 25 400 | 31 900  | 39 200  | 47 250  | 56 050  |
|      |                                |            |              |          |                 |            | 43°C                | 13 500                                              | 18 150 | 23 550 | 29 650  | 36 500  | 44 050  | 52 300  |
|      |                                | OP-HGM064D | 114N3289     | 114N3290 | N               | MT064      | 32°C                | 21 100                                              | 27 400 | 34 700 | 43 000  | 52 300  | 62 500  | 73 600  |
|      |                                |            | 114N3292     | 114N3293 | Q               |            | 35°C                | 20 300                                              | 26 300 | 33 350 | 41 350  | 50 300  | 60 150  | 70 800  |
|      |                                |            |              |          |                 |            | 38°C                | 19 450                                              | 25 250 | 32 000 | 39 700  | 48 300  | 57 750  | 68 050  |
|      |                                |            |              |          |                 |            | 43°C                | 18 150                                              | 23 500 | 29 750 | 36 900  | 44 950  | 53 800  | 63 450  |
|      |                                | OP-HGM080D | 114N3303     | 114N3304 | Q               | MT080      | 32°C                | 28 250                                              | 36 700 | 46 350 | 57 350  | 69 600  | 83 050  | 97 800  |
|      |                                |            |              |          |                 |            | 35°C                | 27 050                                              | 35 200 | 44 600 | 55 250  | 67 100  | 80 200  | 94 400  |
|      |                                |            |              |          |                 |            | 38°C                | 25 750                                              | 33 700 | 42 800 | 53 100  | 64 600  | 77 250  | 91 000  |
|      |                                |            |              |          |                 |            | 43°C                | 23 650                                              | 31 200 | 39 800 | 49 500  | 60 350  | 72 300  | 85 250  |
|      |                                | OP-HGM100D | 114N3313     | 114N3314 | Q               | MT100      | 32°C                | 30 850                                              | 40 050 | 50 750 | 62 950  | 76 650  | 91 850  | 108 550 |
|      |                                |            |              |          |                 |            | 35°C                | 28 750                                              | 37 750 | 48 150 | 60 000  | 73 350  | 88 100  | 104 250 |
|      |                                |            |              |          |                 |            | 38°C                | 26 800                                              | 35 550 | 45 650 | 57 200  | 70 100  | 84 400  | 100 000 |
|      |                                |            |              |          |                 |            | 43°C                | 23 900                                              | 32 200 | 41 800 | 52 650  | 64 850  | 78 350  | 93 000  |
|      |                                | OP-HGM125D | 114N3323     | 114N3324 | Q               | MT125      | 32°C                | 42 950                                              | 55 500 | 70 050 | 86 650  | 105 250 | 125 950 | 148 600 |
|      |                                |            |              |          |                 |            | 35°C                | 40 650                                              | 52 850 | 66 900 | 82 950  | 100 950 | 120 900 | 142 750 |
|      |                                |            |              |          |                 |            | 38°C                | 38 450                                              | 50 250 | 63 800 | 79 250  | 96 650  | 115 800 | 136 850 |
|      |                                |            |              |          |                 |            | 43°C                | 35 000                                              | 46 050 | 58 750 | 73 200  | 89 400  | 107 300 | 126 900 |
|      |                                | OP-HGM160D | 114N3333     | 114N3334 | Q               | MT160      | 32°C                | 53 000                                              | 67 900 | 85 100 | 104 650 | 126 450 | 150 500 | 176 550 |
|      |                                |            |              |          |                 |            | 35°C                | 50 250                                              | 64 700 | 81 350 | 100 100 | 121 150 | 144 300 | 169 350 |
|      |                                |            |              |          |                 |            | 38°C                | 47 600                                              | 61 500 | 77 550 | 95 650  | 115 850 | 138 050 | 162 100 |
|      |                                |            |              |          |                 |            | 43°C                | 43 400                                              | 56 450 | 71 350 | 88 200  | 106 950 | 127 600 | 149 950 |

**Electrical codes:**

N - Compressor 230 V/1-ph/60 Hz, Fan(s)230 V/1-ph/60 Hz

Q - Compressor 230 V/3-ph/60 Hz,Fan(s) 230 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

The consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

| Model      | Condenser |                 |                     | Fan Ø [mm] | Receiver [l] | Power consumption [Btu/h] at evaporating temp. |       | Dimensions [mm]    |               |              |               |                  |             | Weight [kg]          |                      |
|------------|-----------|-----------------|---------------------|------------|--------------|------------------------------------------------|-------|--------------------|---------------|--------------|---------------|------------------|-------------|----------------------|----------------------|
|            | Type      | Air flow [m³/h] | Internal volume [l] |            |              | -10°C                                          | 5°C   | Figure             | Height H [mm] | Depth D [mm] | Length L [mm] | Suction line     | Liquid line | Gross                | Net                  |
| OP-HJM018D | D8        | 2400            | 0.4                 | 1x355      | 3            | 1400                                           | 1800  | D32= 1A<br>D40= 1B | 463           | 310          | 1000          | 1/2"             | 3/8"        | D32= 64<br>D40= 80   | D32= 55<br>D40= 71   |
| OP-HJM022D | D8        | 2400            | 0.4                 | 1x355      | 3            | 1800                                           | 2350  | D32= 1A<br>D40= 1B | 463           | 310          | 1000          | 1/2"<br>5/8" (N) | 3/8"        | D32= 64<br>D40= 80   | D32= 55<br>D40= 71   |
| OP-HJM028D | G8        | 4800            | 0.5                 | 1x457      | 6            | 3000                                           | 3550  | D32= 1A<br>D40= 1B | 538           | 420          | 1150          | 1/2"<br>5/8" (N) | 1/2"        | D32= 83<br>D40= 107  | D32= 71<br>D40= 95   |
| OP-HJM036D | G8        | 4800            | 0.5                 | 1x457      | 8            | 3650                                           | 4550  | D32= 1A<br>D40= 1B | 538           | 420          | 1150          | 5/8"             | 1/2"        | D32= 85<br>D40= 109  | D32= 73<br>D40= 97   |
| OP-HJM040D | J8        | 6300            | 1.3                 | 1x457      | 8            | 3900                                           | 4800  | D32= 1A<br>D40= 1B | 688           | 420          | 1150          | 5/8"             | 1/2"        | D32=93<br>D40=120    | D32= 80<br>D40= 107  |
| OP-HJM050D | J8        | 6300            | 1.3                 | 1x457      | 8            | 4250                                           | 5250  | D32= 1A<br>D40= 1B | 688           | 420          | 1150          | 7/8"             | 1/2"        | D32= 104<br>D40= 134 | D32= 91<br>D40= 121  |
| OP-HGM064D | N8        | 8800            | 1.6                 | 2x457      | 10           | 5950                                           | 7200  | D32= 2A<br>D40= 2B | 715           | 800          | 1200          | 1 1/8"           | 1/2"        | D32= 140<br>D40= 182 | D32= 125<br>D40= 167 |
| OP-HGM080D | N8        | 8800            | 1.6                 | 2x457      | 14           | 7350                                           | 9400  | D32= 2A<br>D40= 2B | 715           | 800          | 1200          | 1 1/8"           | 5/8"        | D32= 143<br>D40= 185 | D32= 128<br>D40= 170 |
| OP-HGM100D | N8        | 8800            | 1.6                 | 2x457      | 14           | 8650                                           | 10650 | D32= 2A<br>D40= 2B | 715           | 800          | 1200          | 1 1/8"           | 5/8"        | D32= 159<br>D40= 201 | D32= 144<br>D40= 186 |
| OP-HGM125D | Q8        | 13,980          | 2.5                 | 2x550      | 14           | 10700                                          | 13350 | D32= 2A<br>D40= 2B | 971           | 800          | 1500          | 1 1/8"           | 5/8"        | D32= 243<br>D40= 302 | D32= 225<br>D40= 284 |
| OP-HGM160D | Q8        | 13,980          | 2.5                 | 2x550      | 14           | 13150                                          | 16850 | D32= 2A<br>D40= 2B | 971           | 800          | 1500          | 1 1/8"           | 5/8"        | D32= 248<br>D40= 307 | D32= 230<br>D40= 289 |

| Fans                                                                                                                                                                                                                                                         | Test conditions                | Model      | Version code | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |        |         |         |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|--------|---------|---------|---------|
|                                                                                                                                                                                                                                                              |                                |            | D40          |                 |            |                     | -20°C                                               | -15°C  | -10°C  | -5°C   | 0°C     | 5°C     | 10°C    |
| <br><br><br> | Superheat 18K<br>subcooling 3K | OP-HNU015D | 114N3366     | N<br>Q<br>R     | MLZ015     | 32°C                | 10 000                                              | 12 400 | 15 100 | 18 150 | 21 550  | 25 300  | 29 350  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3367     |                 |            | 35°C                | 9 650                                               | 12 000 | 14 650 | 17 650 | 20 950  | 24 600  | 28 600  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3368     |                 |            | 38°C                | 9 250                                               | 11 550 | 14 200 | 17 100 | 20 350  | 23 900  | 27 800  |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 10 950 | 13 450 | 16 250 | 19 350  | 22 800  | 26 550  |
|                                                                                                                                                                                                                                                              |                                | OP-HNU021D | 114N3370     | N<br>Q<br>R     | MLZ021     | 32°C                | 13 800                                              | 17 050 | 20 800 | 25 050 | 29 700  | 34 700  | 40 050  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3371     |                 |            | 35°C                | 13 350                                              | 16 550 | 20 200 | 24 300 | 28 850  | 33 750  | 39 000  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3372     |                 |            | 38°C                | 12 900                                              | 15 950 | 19 550 | 23 550 | 27 950  | 32 750  | 37 900  |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 15 000 | 18 400 | 22 250 | 26 500  | 31 100  | 36 050  |
|                                                                                                                                                                                                                                                              |                                | OP-HNU030D | 114N3374     | N<br>Q<br>R     | MLZ030     | 32°C                | 20 000                                              | 24 900 | 30 600 | 37 000 | 44 050  | 51 650  | 59 700  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3375     |                 |            | 35°C                | 19 450                                              | 24 200 | 29 750 | 36 000 | 42 900  | 50 300  | 58 250  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3376     |                 |            | 38°C                | 18 800                                              | 23 450 | 28 850 | 34 950 | 41 650  | 48 950  | 56 700  |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 22 050 | 27 200 | 33 050 | 39 500  | 46 500  | 53 950  |
|                                                                                                                                                                                                                                                              |                                | OP-HRU038D | 114N3378     | N<br>Q<br>R     | MLZ038     | 32°C                | 23 550                                              | 29 450 | 36 350 | 44 200 | 52 750  | 61 950  | 71 600  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3379     |                 |            | 35°C                | 22 900                                              | 28 600 | 35 350 | 43 000 | 51 350  | 60 350  | 69 800  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3380     |                 |            | 38°C                | 22 200                                              | 27 750 | 34 300 | 41 750 | 49 950  | 58 750  | 68 000  |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 26 150 | 32 400 | 39 550 | 47 400  | 55 900  | 64 850  |
|                                                                                                                                                                                                                                                              |                                | OP-HRU048D | 114N3382     | Q<br>R          | MLZ048     | 32°C                | 31 450                                              | 39 200 | 48 000 | 57 800 | 68 600  | 80 350  | 92 900  |
|                                                                                                                                                                                                                                                              |                                |            | 114N3383     |                 |            | 35°C                | 30 250                                              | 37 800 | 46 400 | 56 000 | 66 600  | 78 050  | 90 400  |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 38°C                | 29 000                                              | 36 400 | 44 750 | 54 150 | 64 450  | 75 700  | 87 750  |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 33 900 | 41 900 | 50 900 | 60 750  | 71 550  | 83 200  |
|                                                                                                                                                                                                                                                              |                                | OP-HRU058D | 114N3385     | Q<br>R          | MLZ058     | 32°C                | 37 000                                              | 46 100 | 56 850 | 69 200 | 83 000  | 98 200  | 114 700 |
|                                                                                                                                                                                                                                                              |                                |            | 114N3386     |                 |            | 35°C                | 36 000                                              | 44 800 | 55 250 | 67 250 | 80 750  | 95 650  | 111 800 |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 38°C                | 34 900                                              | 43 400 | 53 500 | 65 200 | 78 350  | 92 900  | 108 800 |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 40 850 | 50 400 | 61 500 | 74 050  | 88 100  | 103 400 |
|                                                                                                                                                                                                                                                              |                                | OP-HRU076D | 114N3388     | Q<br>R          | MLZ076     | 32°C                | 48 600                                              | 60 650 | 74 700 | 90 400 | 107 500 | 125 700 | 144 650 |
|                                                                                                                                                                                                                                                              |                                |            | 114N3389     |                 |            | 35°C                | 47 250                                              | 58 950 | 72 600 | 87 950 | 104 600 | 122 350 | 140 950 |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 38°C                | 45 700                                              | 57 100 | 70 400 | 85 350 | 101 600 | 118 950 | 137 050 |
|                                                                                                                                                                                                                                                              |                                |            |              |                 |            | 43°C                |                                                     | 53 500 | 66 250 | 80 600 | 96 150  | 112 850 | 130 250 |

**Electrical codes:**

N - Compressor 230 V/1-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

Q - Compressor 230 V/3-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

R - Compressor 460 V/3-ph/60 Hz , fan(s) 460 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

The consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

| Model      | Condenser |                    |                           | Fan<br>Ø [mm] | Receiver [l] | Power consumption<br>[Btu/h] at<br>evaporating temp. |       | Dimensions [mm] |                     |                 |                     |                 |                | Weight [kg] |     |
|------------|-----------|--------------------|---------------------------|---------------|--------------|------------------------------------------------------|-------|-----------------|---------------------|-----------------|---------------------|-----------------|----------------|-------------|-----|
|            | Type      | Air flow<br>[m³/h] | Internal<br>volume<br>[l] |               |              | -10°C                                                | 5°C   | Figure          | Height<br>H<br>[mm] | Depth D<br>[mm] | Length<br>L<br>[mm] | Suction<br>line | Liquid<br>line | Gross       | Net |
| OP-HNU015D | G8        | 4800               | 0.5                       | 1x457         | 6            | 2450                                                 | 2650  | 3A              | 538                 | 420             | 1150                | 5/8"            | 1/2"           | 115         | 103 |
| OP-HNU021D | G8        | 4800               | 0.5                       | 1x457         | 6            | 3100                                                 | 3400  | 3A              | 538                 | 420             | 1150                | 5/8"            | 1/2"           | 115         | 103 |
| OP-HNU030D | J8        | 6300               | 1.3                       | 1x457         | 8            | 4050                                                 | 4550  | 3A              | 688                 | 420             | 1150                | 7/8"            | 1/2"           | 136         | 123 |
| OP-HRU038D | N8        | 8800               | 1.6                       | 2x457         | 10           | 5400                                                 | 5950  | 4A              | 715                 | 800             | 1200                | 7/8"            | 1/2"           | 182         | 167 |
| OP-HRU048D | N8        | 8800               | 1.6                       | 2x457         | 10           | 6750                                                 | 7550  | 4A              | 715                 | 800             | 1200                | 7/8"            | 1/2"           | 182         | 167 |
| OP-HRU058D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 7600                                                 | 8350  | 4A              | 971                 | 800             | 1500                | 1 1/8"          | 5/8"           | 287         | 269 |
| OP-HRU076D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 9750                                                 | 10900 | 4A              | 971                 | 800             | 1500                | 1 1/8"          | 5/8"           | 288         | 270 |

| Fans | Test conditions                | Model      | Version code |          | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |         |         |         |         |
|------|--------------------------------|------------|--------------|----------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|---------|---------|---------|---------|
|      |                                |            | D32          | D40      |                 |            |                     | -10°C                                               | -5°C   | 0°C    | 5°C     | 10°C    | 15°C    | 20°C    |
|      | Superheat 18K<br>subcooling 3K | OP-HJZ018D | 114N3207     | 114N3208 | N               | MTZ018     | 32°C                | 6 000                                               | 7 750  | 9 900  | 12 450  | 15 400  | 18 850  | 22 750  |
|      |                                |            | 114N3209     | 114N3210 | Q               |            | 35°C                | 5 650                                               | 7 350  | 9 400  | 11 900  | 14 800  | 18 150  | 21 950  |
|      |                                |            | 114N3211     | 114N3212 | R               |            | 38°C                | 5 300                                               | 6 950  | 8 950  | 11 350  | 14 200  | 17 450  | 21 100  |
|      |                                |            |              |          |                 |            | 43°C                | 4 700                                               | 6 250  | 8 200  | 10 450  | 13 150  | 16 200  | 19 700  |
|      |                                | OP-HJZ022D | 114N3223     | 114N3224 | N               | MTZ022     | 32°C                | 7 600                                               | 9 900  | 12 600 | 15 750  | 19 300  | 23 250  | 27 600  |
|      |                                |            | 114N3225     | 114N3226 | Q               |            | 35°C                | 7 250                                               | 9 450  | 12 100 | 15 100  | 18 550  | 22 400  | 26 600  |
|      |                                |            | 114N3227     | 114N3228 | R               |            | 38°C                | 6 850                                               | 9 000  | 11 550 | 14 450  | 17 800  | 21 450  | 25 500  |
|      |                                |            |              |          |                 |            | 43°C                | 6 250                                               | 8 250  | 10 650 | 13 350  | 16 450  | 19 900  | 23 700  |
|      |                                | OP-HJZ028D | 114N3238     | 114N3239 | N               | MTZ028     | 32°C                | 10 400                                              | 13 500 | 17 000 | 21 000  | 25 500  | 30 400  | 35 850  |
|      |                                |            | 114N3240     | 114N3241 | Q               |            | 35°C                | 9 950                                               | 12 950 | 16 400 | 20 250  | 24 600  | 29 400  | 34 700  |
|      |                                |            |              |          |                 |            | 38°C                | 9 450                                               | 12 350 | 15 700 | 19 500  | 23 700  | 28 400  | 33 500  |
|      |                                |            |              |          |                 |            | 43°C                | 8 600                                               | 11 400 | 14 600 | 18 150  | 22 150  | 26 600  | 31 450  |
|      |                                | OP-HJZ036D | 114N3251     | 114N3252 | N               | MTZ036     | 32°C                | 13 500                                              | 17 100 | 21 250 | 26 000  | 31 300  | 37 150  | 43 550  |
|      |                                |            | 114N3253     | 114N3254 | Q               |            | 35°C                | 12 800                                              | 16 350 | 20 400 | 25 000  | 30 150  | 35 850  | 42 050  |
|      |                                |            | 114N3255     | 114N3256 | R               |            | 38°C                | 12 150                                              | 15 600 | 19 550 | 24 000  | 29 000  | 34 550  | 40 550  |
|      |                                |            |              |          |                 |            | 43°C                | 11 050                                              | 14 300 | 18 100 | 22 300  | 27 050  | 32 300  | 38 000  |
|      |                                | OP-HJZ040D | 114N3267     | 114N3268 | N               | MTZ040     | 32°C                | 17 050                                              | 21 100 | 25 700 | 31 050  | 37 050  | 43 850  | 51 350  |
|      |                                |            | 114N3269     | 114N3270 | Q               |            | 35°C                | 16 000                                              | 20 000 | 24 550 | 29 800  | 35 700  | 42 350  | 49 800  |
|      |                                |            | 114N3271     | 114N3272 | R               |            | 38°C                | 15 000                                              | 18 900 | 23 400 | 28 550  | 34 350  | 40 950  | 48 200  |
|      |                                |            |              |          |                 |            | 43°C                | 13 350                                              | 17 150 | 21 500 | 26 550  | 32 200  | 38 550  | 45 650  |
|      |                                | OP-HJZ050D | 114N3281     | 114N3282 | N               | MTZ050     | 32°C                | 16 950                                              | 22 500 | 29 000 | 36 450  | 45 000  | 54 550  | 65 100  |
|      |                                |            | 114N3283     | 114N3284 | Q               |            | 35°C                | 16 300                                              | 21 700 | 28 050 | 35 300  | 43 600  | 52 900  | 63 150  |
|      |                                |            | 114N3285     | 114N3286 | R               |            | 38°C                | 15 600                                              | 20 900 | 27 000 | 34 100  | 42 150  | 51 150  | 61 050  |
|      |                                |            |              |          |                 |            | 43°C                | 14 300                                              | 19 350 | 25 200 | 31 900  | 39 500  | 48 050  | 57 450  |
|      |                                | OP-HGZ064D | 114N3296     | 114N3297 | N               | MTZ064     | 32°C                | 21 800                                              | 28 750 | 36 750 | 45 850  | 56 000  | 67 100  | 79 100  |
|      |                                |            | 114N3298     | 114N3299 | Q               |            | 35°C                | 20 900                                              | 27 650 | 35 400 | 44 250  | 54 050  | 64 800  | 76 400  |
|      |                                |            | 114N3300     | 114N3301 | R               |            | 38°C                | 19 950                                              | 26 500 | 34 050 | 42 550  | 52 050  | 62 450  | 73 650  |
|      |                                |            |              |          |                 |            | 43°C                | 18 200                                              | 24 450 | 31 600 | 39 700  | 48 600  | 58 400  | 69 000  |
|      |                                | OP-HGZ080D | 114N3308     | 114N3309 | Q               | MTZ080     | 32°C                | 29 000                                              | 37 600 | 47 600 | 59 000  | 71 850  | 86 100  | 101 700 |
|      |                                |            | 114N3310     | 114N3311 | R               |            | 35°C                | 27 750                                              | 36 150 | 45 850 | 56 900  | 69 350  | 83 200  | 98 300  |
|      |                                |            |              |          |                 |            | 38°C                | 26 500                                              | 34 650 | 44 050 | 54 800  | 66 850  | 80 250  | 94 900  |
|      |                                |            |              |          |                 |            | 43°C                | 24 400                                              | 32 100 | 41 000 | 51 150  | 62 600  | 75 250  | 89 150  |
|      |                                | OP-HGZ100D | 114N3318     | 114N3319 | Q               | MTZ100     | 32°C                | 33 250                                              | 43 200 | 54 700 | 67 600  | 82 050  | 97 950  | 115 150 |
|      |                                |            | 114N3320     | 114N3321 | R               |            | 35°C                | 31 350                                              | 41 000 | 52 150 | 64 650  | 78 650  | 93 950  | 110 600 |
|      |                                |            |              |          |                 |            | 38°C                | 29 450                                              | 38 800 | 49 550 | 61 650  | 75 150  | 89 950  | 106 000 |
|      |                                |            |              |          |                 |            | 43°C                | 26 250                                              | 35 100 | 45 150 | 56 550  | 69 250  | 83 150  | 98 250  |
|      |                                | OP-HGZ125D | 114N3328     | 114N3329 | Q               | MTZ125     | 32°C                | 42 950                                              | 55 750 | 70 650 | 87 600  | 106 750 | 127 900 | 151 050 |
|      |                                |            | 114N3330     | 114N3331 | R               |            | 35°C                | 40 600                                              | 53 050 | 67 450 | 83 900  | 102 350 | 122 800 | 145 200 |
|      |                                |            |              |          |                 |            | 38°C                | 38 300                                              | 50 350 | 64 250 | 80 100  | 97 950  | 117 650 | 139 250 |
|      |                                |            |              |          |                 |            | 43°C                | 34 450                                              | 45 800 | 58 850 | 73 700  | 90 350  | 108 850 | 129 050 |
|      |                                | OP-HGZ160D | 114N3338     | 114N3339 | Q               | MTZ160     | 32°C                | 60 400                                              | 75 500 | 92 550 | 111 500 | 132 400 | 155 100 | 179 550 |
|      |                                |            | 114N3340     | 114N3341 | R               |            | 35°C                | 57 700                                              | 72 400 | 89 000 | 107 450 | 127 700 | 149 700 | 173 400 |
|      |                                |            |              |          |                 |            | 38°C                | 54 950                                              | 69 250 | 85 400 | 103 250 | 122 900 | 144 200 | 167 150 |
|      |                                |            |              |          |                 |            | 43°C                | 50 250                                              | 63 850 | 79 100 | 96 050  | 114 600 | 134 750 | 156 400 |

**Electrical codes:**

N - compressor 230 V/1-ph/60 Hz, fan(s) 230 V/1-ph/60 Hz

Q - compressor 230 V/3-ph/60 Hz, fan(s) 230 V/1-ph/60 Hz

R - compressor 460 V/3-ph/60 Hz, fan(s) 460 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

The consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

| Model      | Condenser |                    |                           | Fan<br>Ø [mm] | Receiver [l] | power consumption<br>[Btu/h] at<br>evaporating temp. |       | Dimensions [mm]    |                     |                 |                     |                  |                | Weight [kg]          |                      |
|------------|-----------|--------------------|---------------------------|---------------|--------------|------------------------------------------------------|-------|--------------------|---------------------|-----------------|---------------------|------------------|----------------|----------------------|----------------------|
|            | Type      | Air flow<br>[m³/h] | Internal<br>volume<br>[l] |               |              | -10°C                                                | 5°C   | Figure             | Height<br>H<br>[mm] | Depth D<br>[mm] | Length<br>L<br>[mm] | Suction<br>line  | Liquid<br>line | Gross                | Net                  |
| OP-HJZ018D | D8        | 2400               | 0.4                       | 1x355         | 3            | 1050                                                 | 1300  | D32= 1A<br>D40= 1B | 463                 | 310             | 1000                | 1/2"             | 3/8"           | D32= 64<br>D40= 80   | D32= 55<br>D40= 71   |
| OP-HJZ022D | D8        | 2400               | 0.4                       | 1x355         | 3            | 1250                                                 | 1600  | D32=1A<br>D40=1B   | 463                 | 310             | 1000                | 1/2"<br>5/8" (N) | 3/8"           | D32=64<br>D40=80     | D32=55<br>D40=71     |
| OP-HJZ028D | G8        | 4800               | 0.5                       | 1x457         | 6            | 2150                                                 | 2600  | D32=1A<br>D40=1B   | 538                 | 420             | 1150                | 1/2"<br>5/8" (N) | 1/2"           | D32=83<br>D40=107    | D32=71<br>D40=95     |
| OP-HJZ036D | G8        | 4800               | 0.5                       | 1x457         | 8            | 2650                                                 | 3350  | D32=1A<br>D40=1B   | 538                 | 420             | 1150                | 5/8"             | 1/2"           | D32= 85<br>D40= 109  | D32= 73<br>D40= 97   |
| OP-HJZ040D | J8        | 6300               | 1.3                       | 1x457         | 8            | 2850                                                 | 3600  | D32= 1A<br>D40= 1B | 688                 | 420             | 1150                | 5/8"             | 1/2"           | D32= 93<br>D40= 120  | D32= 80<br>D40= 107  |
| OP-HJZ050D | J8        | 6300               | 1.3                       | 1x457         | 8            | 3000                                                 | 3600  | D32= 1A<br>D40= 1B | 688                 | 420             | 1150                | 7/8"             | 1/2"           | D32= 104<br>D40= 134 | D32= 91<br>D40= 121  |
| OP-HGZ064D | N8        | 8800               | 1.6                       | 2x457         | 10           | 3600                                                 | 4550  | D32= 2A<br>D40= 2B | 715                 | 800             | 1200                | 7/8"             | 1/2"           | D32= 140<br>D40= 182 | D32= 125<br>D40= 167 |
| OP-HGZ080D | N8        | 8800               | 1.6                       | 2x457         | 14           | 5250                                                 | 6500  | D32= 2A<br>D40= 2B | 715                 | 800             | 1200                | 1 1/8"           | 5/8"           | D32= 143<br>D40= 185 | D32= 128<br>D40= 170 |
| OP-HGZ100D | N8        | 8800               | 1.6                       | 2x457         | 14           | 6050                                                 | 7600  | D32= 2A<br>D40= 2B | 715                 | 800             | 1200                | 1 1/8"           | 5/8"           | D32= 159<br>D40= 201 | D32= 144<br>D40= 186 |
| OP-HGZ125D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 6900                                                 | 8800  | D32= 2A<br>D40= 2B | 971                 | 800             | 1500                | 1 1/8"           | 5/8"           | D32= 243<br>D40= 302 | D32= 225<br>D40= 284 |
| OP-HGZ160D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 9200                                                 | 11800 | D32= 2A<br>D40= 2B | 971                 | 800             | 1500                | 1 1/8"           | 5/8"           | D32= 248<br>D40= 307 | D32= 230<br>D40= 289 |

| Fans                                                                             | Test conditions                | Model      | Version code | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |        |         |         |        |
|----------------------------------------------------------------------------------|--------------------------------|------------|--------------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|--------|---------|---------|--------|
|                                                                                  |                                |            | D40          |                 |            |                     | -15°C                                               | -10°C  | -5°C   | 0°C    | 5°C     | 10°C    | 15°C   |
|  | Superheat 18K<br>subcooling 3K | OP-HNU015D | 114N3366     | N               | MLZ015     | 32°C                | 7 500                                               | 9 500  | 11 900 | 14 600 | 17 600  | 20 900  | 24 450 |
|                                                                                  |                                |            | 114N3367     | Q               |            | 35°C                | 7 200                                               | 9 200  | 11 550 | 14 200 | 17 100  | 20 350  | 23 850 |
|                                                                                  |                                |            | 114N3368     | R               |            | 38°C                | 6 950                                               | 8 900  | 11 150 | 13 750 | 16 650  | 19 800  | 23 200 |
|                                                                                  |                                |            |              |                 |            | 43°C                | 6 450                                               | 8 350  | 10 500 | 13 000 | 15 750  | 18 800  | 22 100 |
|                                                                                  |                                | OP-HNU021D | 114N3370     | N               | MLZ021     | 32°C                | 10 300                                              | 13 300 | 16 650 | 20 400 | 24 650  | 29 300  | 34 500 |
|                                                                                  |                                |            | 114N3371     | Q               |            | 35°C                | 9 900                                               | 12 850 | 16 150 | 19 850 | 24 000  | 28 600  | 33 650 |
|                                                                                  |                                |            | 114N3372     | R               |            | 38°C                | 9 450                                               | 12 400 | 15 650 | 19 300 | 23 350  | 27 850  | 32 750 |
|                                                                                  |                                |            |              |                 |            | 43°C                | 8 750                                               | 11 600 | 14 800 | 18 300 | 22 200  | 26 550  | 31 250 |
|                                                                                  |                                | OP-HNU030D | 114N3374     | N               | MLZ030     | 32°C                | 15 600                                              | 19 850 | 24 800 | 30 500 | 36 900  | 43 950  | 51 600 |
|                                                                                  |                                |            | 114N3375     | Q               |            | 35°C                | 15 000                                              | 19 200 | 24 100 | 29 700 | 35 950  | 42 850  | 50 350 |
|                                                                                  |                                |            | 114N3376     | R               |            | 38°C                | 14 450                                              | 18 550 | 23 350 | 28 800 | 34 950  | 41 700  | 49 100 |
|                                                                                  |                                |            |              |                 |            | 43°C                | 13 450                                              | 17 400 | 22 050 | 27 350 | 33 250  | 39 750  | 46 850 |
| OP-HRU038D                                                                       |                                | 114N3378   | N            | MLZ038          | 32°C       | 18 300              | 23 050                                              | 28 750 | 35 400 | 42 850 | 51 000  | 59 800  |        |
|                                                                                  |                                | 114N3379   | Q            |                 | 35°C       | 17 700              | 22 300                                              | 27 900 | 34 400 | 41 700 | 49 700  | 58 350  |        |
|                                                                                  |                                | 114N3380   | R            |                 | 38°C       | 17 100              | 21 600                                              | 27 050 | 33 400 | 40 500 | 48 350  | 56 850  |        |
|                                                                                  |                                |            |              |                 | 43°C       | 16 100              | 20 350                                              | 25 550 | 31 600 | 38 500 | 46 050  | 54 200  |        |
| OP-HRU048D                                                                       |                                | 114N3382   | Q            | MLZ048          | 32°C       | 24 100              | 30 400                                              | 37 700 | 46 100 | 55 450 | 65 850  | 77 200  |        |
|                                                                                  |                                | 114N3383   | R            |                 | 35°C       | 23 200              | 29 300                                              | 36 450 | 44 650 | 53 800 | 63 950  | 75 050  |        |
|                                                                                  |                                |            |              |                 | 38°C       | 22 300              | 28 200                                              | 35 150 | 43 150 | 52 100 | 62 000  | 72 900  |        |
|                                                                                  |                                |            |              |                 | 43°C       | 20 700              | 26 350                                              | 32 950 | 40 550 | 49 150 | 58 700  | 69 100  |        |
| OP-HRU058D                                                                       |                                | 114N3385   | Q            | MLZ058          | 32°C       | 28 550              | 35 800                                              | 44 100 | 53 500 | 64 050 | 75 650  | 88 350  |        |
|                                                                                  |                                | 114N3386   | R            |                 | 35°C       | 27 600              | 34 600                                              | 42 650 | 51 850 | 62 100 | 73 500  | 85 950  |        |
|                                                                                  |                                |            |              |                 | 38°C       | 26 600              | 33 400                                              | 41 200 | 50 150 | 60 150 | 71 250  | 83 450  |        |
|                                                                                  |                                |            |              |                 | 43°C       | 25 000              | 31 350                                              | 38 750 | 47 250 | 56 800 | 67 450  | 79 150  |        |
| OP-HRU076D                                                                       |                                | 114N3388   | Q            | MLZ076          | 32°C       | 37 800              | 46 950                                              | 57 850 | 70 400 | 84 450 | 100 000 | 116 850 |        |
|                                                                                  |                                | 114N3389   | R            |                 | 35°C       | 36 450              | 45 450                                              | 56 100 | 68 350 | 82 100 | 97 250  | 113 650 |        |
|                                                                                  |                                |            |              |                 | 38°C       | 35 050              | 43 850                                              | 54 300 | 66 250 | 79 650 | 94 400  | 110 450 |        |
|                                                                                  |                                |            |              |                 | 43°C       | 32 650              | 41 150                                              | 51 150 | 62 600 | 75 450 | 89 600  | 104 900 |        |

**Electrical codes:**

N - compressor 230 V/1-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

Q - compressor 230 V/3-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

R - compressor 460 V/3-ph/60 Hz , fan(s) 460 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

The consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

| Model      | Condenser |                    |                           | Fan<br>Ø [mm] | Receiver [l] | Power consumption<br>[Btu/h] at<br>evaporating temp. |      | Dimensions [mm] |                     |                 |                     |                 |                | Weight [kg] |     |
|------------|-----------|--------------------|---------------------------|---------------|--------------|------------------------------------------------------|------|-----------------|---------------------|-----------------|---------------------|-----------------|----------------|-------------|-----|
|            | Type      | Air flow<br>[m³/h] | Internal<br>volume<br>[l] |               |              | -10°C                                                | 5°C  | figure          | Height<br>H<br>[mm] | Depth D<br>[mm] | Length<br>L<br>[mm] | Suction<br>line | Liquid<br>line | Gross       | Net |
| OP-HNU015D | G8        | 4800               | 0.5                       | 1x457         | 6            | 1350                                                 | 1500 | 3A              | 538                 | 420             | 1150                | 5/8"            | 1/2"           | 115         | 103 |
| OP-HNU021D | G8        | 4800               | 0.5                       | 1x457         | 6            | 2250                                                 | 2450 | 3A              | 538                 | 420             | 1150                | 5/8"            | 1/2"           | 115         | 103 |
| OP-HNU030D | J8        | 6300               | 1.3                       | 1x457         | 8            | 2950                                                 | 3200 | 3A              | 688                 | 420             | 1150                | 7/8"            | 1/2"           | 136         | 123 |
| OP-HRU038D | N8        | 8800               | 1.6                       | 2x457         | 10           | 3350                                                 | 3700 | 4A              | 715                 | 800             | 1200                | 7/8"            | 1/2"           | 182         | 167 |
| OP-HRU048D | N8        | 8800               | 1.6                       | 2x457         | 10           | 4850                                                 | 5250 | 4A              | 715                 | 800             | 1200                | 7/8"            | 1/2"           | 182         | 167 |
| OP-HRU058D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 5600                                                 | 6250 | 4A              | 971                 | 800             | 1500                | 1 1/8"          | 5/8"           | 287         | 269 |
| OP-HRU076D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 6800                                                 | 7550 | 4A              | 971                 | 800             | 1500                | 1 1/8"          | 5/8"           | 288         | 270 |

| Fans | Test conditions                | Model      | version code |          | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |        |        |         |         |         |         |
|------|--------------------------------|------------|--------------|----------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|
|      |                                |            | D32          | D40      |                 |            |                     | -30°C                                               | -25°C  | -20°C  | -15°C  | -10°C  | -5°C    | 0°C     | 5°C     | 10°C    |
|      | Superheat 18K<br>Subcooling 3K | OP-HJZ018D | 114N3207     | 114N3208 | N               | MTZ018     | 32°C                | 2 400                                               | 3 950  | 5 700  | 7 800  | 10 150 | 12 850  | 15 800  | 19 050  | 22 600  |
|      |                                |            | 114N3209     | 114N3210 | Q               |            | 35°C                | 2 100                                               | 3 600  | 5 300  | 7 300  | 9 550  | 12 150  | 15 000  | 18 100  | 21 500  |
|      |                                |            | 114N3211     | 114N3212 | R               |            | 38°C                | 1 800                                               | 3 200  | 4 850  | 6 800  | 8 950  | 11 400  | 14 150  | 17 150  | 20 400  |
|      |                                |            |              |          |                 |            | 43°C                | 1 300                                               | 2 650  | 4 150  | 5 900  | 7 950  | 10 200  | 12 700  | 15 500  | 18 550  |
|      |                                | OP-HJZ022D | 114N3223     | 114N3224 | N               | MTZ022     | 32°C                | 4 250                                               | 6 000  | 8 100  | 10 500 | 13 300 | 16 400  | 19 800  | 23 450  | 27 400  |
|      |                                |            | 114N3225     | 114N3226 | Q               |            | 35°C                | 3 900                                               | 5 600  | 7 600  | 9 950  | 12 600 | 15 550  | 18 750  | 22 300  | 26 050  |
|      |                                |            | 114N3227     | 114N3228 | R               |            | 38°C                | 3 550                                               | 5 200  | 7 100  | 9 350  | 11 850 | 14 650  | 17 700  | 21 050  | 24 650  |
|      |                                |            |              |          |                 |            | 43°C                | 3 000                                               | 4 500  | 6 250  | 8 250  | 10 550 | 13 100  | 15 900  | 19 000  | 22 300  |
|      |                                | OP-HJZ028D | 114N3238     | 114N3239 | N               | MTZ028     | 32°C                | 6 300                                               | 8 650  | 11 400 | 14 550 | 18 150 | 22 150  | 26 650  | 31 500  | 36 800  |
|      |                                |            | 114N3240     | 114N3241 | Q               |            | 35°C                | 5 900                                               | 8 150  | 10 800 | 13 850 | 17 250 | 21 150  | 25 400  | 30 100  | 35 200  |
|      |                                |            |              |          | R               |            | 38°C                | 5 450                                               | 7 650  | 10 150 | 13 100 | 16 400 | 20 100  | 24 200  | 28 650  | 33 550  |
|      |                                |            |              |          |                 |            | 43°C                | 4 650                                               | 6 750  | 9 100  | 11 800 | 14 850 | 18 250  | 22 050  | 26 200  | 30 750  |
|      |                                | OP-HJZ036D | 114N3251     | 114N3252 | N               | MTZ036     | 32°C                | 7 350                                               | 10 300 | 13 750 | 17 700 | 22 200 | 27 200  | 32 700  | 38 650  | 45 050  |
|      |                                |            | 114N3253     | 114N3254 | Q               |            | 35°C                | 6 750                                               | 9 550  | 12 900 | 16 700 | 21 000 | 25 800  | 31 050  | 36 750  | 42 900  |
|      |                                |            | 114N3255     | 114N3256 | R               |            | 38°C                | 6 150                                               | 8 850  | 12 050 | 15 650 | 19 800 | 24 350  | 29 400  | 34 850  | 40 750  |
|      |                                |            |              |          |                 |            | 43°C                | 5 150                                               | 7 700  | 10 650 | 14 000 | 17 750 | 22 000  | 26 650  | 31 700  | 37 200  |
|      |                                | OP-HJZ040D | 114N3267     | 114N3268 | N               | MTZ040     | 32°C                | 8 750                                               | 12 250 | 16 400 | 21 200 | 26 700 | 32 900  | 39 850  | 47 400  | 56 650  |
|      |                                |            | 114N3269     | 114N3270 | Q               |            | 35°C                | 8 100                                               | 11 450 | 15 450 | 20 050 | 25 300 | 31 250  | 37 900  | 45 150  | 53 050  |
|      |                                |            | 114N3271     | 114N3272 | R               |            | 38°C                | 7 400                                               | 10 650 | 14 450 | 18 900 | 23 900 | 29 600  | 35 900  | 42 900  | 50 450  |
|      |                                |            |              |          |                 |            | 43°C                | 6 350                                               | 9 350  | 12 900 | 16 950 | 21 600 | 26 800  | 32 650  | 39 100  | 46 200  |
|      |                                | OP-HJZ050D | 114N3281     | 114N3282 | N               | MTZ050     | 32°C                | 10 850                                              | 15 100 | 20 000 | 25 750 | 32 250 | 39 600  | 47 750  | 56 750  | 66 500  |
|      |                                |            | 114N3283     | 114N3284 | Q               |            | 35°C                | 9 900                                               | 14 000 | 18 750 | 24 250 | 30 500 | 37 600  | 45 450  | 54 100  | 63 500  |
|      |                                |            | 114N3285     | 114N3286 | R               |            | 38°C                | 8 950                                               | 12 900 | 17 450 | 22 750 | 28 750 | 35 550  | 43 100  | 51 350  | 60 450  |
|      |                                |            |              |          |                 |            | 43°C                | 7 350                                               | 11 000 | 15 250 | 20 150 | 25 750 | 32 050  | 39 050  | 46 800  | 55 300  |
|      | Superheat 18K<br>Subcooling 3K | OP-HGZ064D | 114N3296     | 114N3297 | N               | MTZ064     | 32°C                | 13 700                                              | 18 800 | 24 700 | 31 500 | 39 100 | 47 550  | 56 700  | 66 600  | 77 200  |
|      |                                |            | 114N3298     | 114N3299 | Q               |            | 35°C                | 12 550                                              | 17 450 | 23 150 | 29 600 | 36 900 | 44 950  | 53 750  | 63 250  | 73 400  |
|      |                                |            | 114N3300     | 114N3301 | R               |            | 38°C                | 11 400                                              | 16 100 | 21 550 | 27 750 | 34 700 | 42 400  | 50 800  | 59 850  | 69 650  |
|      |                                |            |              |          |                 |            | 43°C                | 9 500                                               | 13 850 | 18 900 | 24 600 | 30 950 | 38 050  | 45 800  | 54 250  | 63 400  |
|      |                                | OP-HGZ080D | 114N3308     | 114N3309 | N               | MTZ080     | 32°C                | 19 300                                              | 25 650 | 33 000 | 41 500 | 51 100 | 61 800  | 73 550  | 86 350  | 100 150 |
|      |                                |            | 114N3310     | 114N3311 | Q               |            | 35°C                | 17 950                                              | 24 050 | 31 100 | 39 200 | 48 400 | 58 650  | 69 900  | 82 150  | 95 400  |
|      |                                |            |              |          | R               |            | 38°C                | 16 600                                              | 22 450 | 29 200 | 36 900 | 45 650 | 55 450  | 66 200  | 77 950  | 90 650  |
|      |                                |            |              |          |                 |            | 43°C                | 14 400                                              | 19 750 | 25 950 | 33 050 | 41 050 | 50 050  | 59 950  | 70 850  | 82 750  |
|      |                                | OP-HGZ100D | 114N3318     | 114N3319 | N               | MTZ100     | 32°C                | 19 800                                              | 27 300 | 35 950 | 45 800 | 56 850 | 68 950  | 82 150  | 96 300  | 111 400 |
|      |                                |            | 114N3320     | 114N3321 | Q               |            | 35°C                | 18 000                                              | 25 200 | 33 500 | 42 900 | 53 450 | 65 050  | 77 650  | 91 250  | 105 750 |
|      |                                |            |              |          | R               |            | 38°C                | 16 250                                              | 23 150 | 31 100 | 40 050 | 50 100 | 61 150  | 73 200  | 86 200  | 100 100 |
|      |                                |            |              |          |                 |            | 43°C                | 13 400                                              | 19 800 | 27 100 | 35 300 | 44 550 | 54 700  | 65 800  | 77 900  | 90 900  |
|      |                                | OP-HGZ125D | 114N3328     | 114N3329 | N               | MTZ125     | 32°C                | 29 600                                              | 39 100 | 50 100 | 62 700 | 76 950 | 92 950  | 110 500 | 129 750 | 150 550 |
|      |                                |            | 114N3330     | 114N3331 | Q               |            | 35°C                | 27 300                                              | 36 450 | 47 050 | 59 150 | 72 800 | 88 100  | 105 000 | 123 450 | 143 450 |
|      |                                |            |              |          | R               |            | 38°C                | 25 000                                              | 33 850 | 44 000 | 55 550 | 68 600 | 83 250  | 99 400  | 117 100 | 136 300 |
|      |                                |            |              |          |                 |            | 43°C                | 21 250                                              | 29 450 | 38 850 | 49 550 | 61 600 | 75 100  | 90 050  | 106 550 | 124 500 |
|      |                                | OP-HGZ160D | 114N3338     | 114N3339 | N               | MTZ160     | 32°C                | 38 250                                              | 49 550 | 62 500 | 77 250 | 93 750 | 112 000 | 132 000 | 153 550 | 176 700 |
|      |                                |            | 114N3340     | 114N3341 | Q               |            | 35°C                | 35 500                                              | 46 300 | 58 750 | 72 900 | 88 700 | 106 200 | 125 300 | 146 050 | 168 350 |
|      |                                |            |              |          | R               |            | 38°C                | 32 700                                              | 43 150 | 55 000 | 68 500 | 83 600 | 100 350 | 118 650 | 138 600 | 160 050 |
|      |                                |            |              |          |                 |            | 43°C                | 28 200                                              | 37 850 | 48 850 | 61 250 | 75 200 | 90 650  | 107 650 | 126 250 | 146 500 |

**Electrical codes:**

N - compressor 230 V/1-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

Q - compressor 230 V/3-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

R - compressor 460 V/3-ph/60 Hz , fan(s) 460 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

Power consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

| Model      | Condenser |                    |                           | Fan<br>Ø [mm] | Receiver [l] | Power consumption<br>[Btu/h] at<br>evaporating temp. |       | Dimensions [mm]    |                     |                 |                     |                  |                | Weight [kg]          |                      |
|------------|-----------|--------------------|---------------------------|---------------|--------------|------------------------------------------------------|-------|--------------------|---------------------|-----------------|---------------------|------------------|----------------|----------------------|----------------------|
|            | Type      | Air flow<br>[m³/h] | Internal<br>volume<br>[l] |               |              | -10°C                                                | 5°C   | Figure             | Height<br>H<br>[mm] | Depth D<br>[mm] | Length<br>L<br>[mm] | Suction<br>line  | liquid<br>line | Gross                | Net                  |
| OP-HJZ018D | D8        | 2400               | 0.4                       | 1x355         | 3            | 1900                                                 | 2250  | D32= 1A<br>D40= 1B | 463                 | 310             | 1000                | 1/2"             | 3/8"           | D32= 64<br>D40= 80   | D32= 55<br>D40= 71   |
| OP-HJZ022D | D8        | 2400               | 0.4                       | 1x355         | 3            | 2100                                                 | 2700  | D32= 1A<br>D40= 1B | 463                 | 310             | 1000                | 1/2"<br>5/8" (N) | 3/8"           | D32= 64<br>D40= 80   | D32= 55<br>D40= 71   |
| OP-HJZ028D | G8        | 4800               | 0.5                       | 1x457         | 6            | 3250                                                 | 3900  | D32= 1A<br>D40= 1B | 538                 | 420             | 1150                | 1/2"<br>5/8" (N) | 1/2"           | D32= 83<br>D40= 107  | D32= 71<br>D40= 95   |
| OP-HJZ036D | G8        | 4800               | 0.5                       | 1x457         | 8            | 3850                                                 | 5000  | D32= 1A<br>D40= 1B | 538                 | 420             | 1150                | 5/8"             | 1/2"           | D32= 85<br>D40= 109  | D32= 73<br>D40= 97   |
| OP-HJZ040D | J8        | 6300               | 1.3                       | 1x457         | 8            | 4150                                                 | 5350  | D32= 1A<br>D40= 1B | 688                 | 420             | 1150                | 5/8"             | 1/2"           | D32= 93<br>D40= 120  | D32= 80<br>D40= 107  |
| OP-HJZ050D | J8        | 6300               | 1.3                       | 1x457         | 8            | 4850                                                 | 5900  | D32= 1A<br>D40= 1B | 688                 | 420             | 1150                | 7/8"             | 1/2"           | D32= 104<br>D40= 134 | D32= 91<br>D40= 121  |
| OP-HGZ064D | N8        | 8800               | 1.6                       | 2x457         | 10           | 6850                                                 | 8350  | D32= 2A<br>D40= 2B | 715                 | 800             | 1200                | 7/8"             | 1/2"           | D32= 140<br>D40= 182 | D32= 125<br>D40= 167 |
| OP-HGZ080D | N8        | 8800               | 1.6                       | 2x457         | 14           | 8800                                                 | 11100 | D32= 2A<br>D40= 2B | 715                 | 800             | 1200                | 1 1/8"           | 5/8"           | D32= 143<br>D40= 185 | D32= 128<br>D40= 170 |
| OP-HGZ100D | N8        | 8800               | 1.6                       | 2x457         | 14           | 9800                                                 | 12150 | D32= 2A<br>D40= 2B | 715                 | 800             | 1200                | 1 1/8"           | 5/8"           | D32= 159<br>D40= 201 | D32= 144<br>D40= 186 |
| OP-HGZ125D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 12150                                                | 15100 | D32= 2A<br>D40= 2B | 971                 | 800             | 1500                | 1 1/8"           | 5/8"           | D32= 243<br>D40= 302 | D32= 225<br>D40= 284 |
| OP-HGZ160D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 15450                                                | 20250 | D32= 2A<br>D40= 2B | 971                 | 800             | 1500                | 1 1/8"           | 5/8"           | D32= 248<br>D40= 307 | D32= 230<br>D40= 289 |

| Fans                                                                             | Test conditions                | Model      | version code | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |        |        |         |         |         |        |
|----------------------------------------------------------------------------------|--------------------------------|------------|--------------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|--------|--------|---------|---------|---------|--------|
|                                                                                  |                                |            | D40          |                 |            |                     | -30℃                                                | -25℃   | -20℃   | -15℃   | -10℃   | -5℃     | 0℃      | 5℃      | 10℃    |
|  | Superheat 18K<br>subcooling 3K | OP-HNU015D | 114N3366     | N               | MLZ015     | 32℃                 | 6 400                                               | 8 400  | 10 700 | 13 250 | 16 100 | 19 350  | 23 000  | 27 100  | 31 600 |
|                                                                                  |                                |            | 114N3367     | Q               |            | 35℃                 |                                                     | 7 900  | 10 100 | 12 600 | 15 350 | 18 500  | 22 000  | 25 900  | 30 250 |
|                                                                                  |                                |            | 114N3368     | R               |            | 38℃                 |                                                     | 7 350  | 9 500  | 11 900 | 14 550 | 17 550  | 20 950  | 24 700  | 28 950 |
|                                                                                  |                                |            |              |                 |            | 43℃                 |                                                     |        | 8 450  | 10 700 | 13 200 | 16 000  | 19 150  | 22 700  | 26 650 |
|                                                                                  |                                | OP-HNU021D | 114N3370     | N               | MLZ021     | 32℃                 | 9 650                                               | 12 150 | 15 000 | 18 300 | 22 000 | 26 150  | 30 750  | 35 800  | 41 300 |
|                                                                                  |                                |            | 114N3371     | Q               |            | 35℃                 |                                                     | 11 550 | 14 300 | 17 450 | 21 000 | 25 000  | 29 450  | 34 350  | 39 750 |
|                                                                                  |                                |            | 114N3372     | R               |            | 38℃                 |                                                     | 10 900 | 13 550 | 16 550 | 19 950 | 23 800  | 28 100  | 32 900  | 38 150 |
|                                                                                  |                                |            |              |                 |            | 43℃                 |                                                     |        | 12 250 | 15 050 | 18 200 | 21 850  | 25 900  | 30 450  | 35 550 |
|                                                                                  |                                | OP-HNU030D | 114N3374     | N               | MLZ030     | 32℃                 | 14 400                                              | 18 000 | 22 150 | 27 000 | 32 500 | 38 700  | 45 600  | 53 200  | 61 500 |
|                                                                                  |                                |            | 114N3375     | Q               |            | 35℃                 |                                                     | 17 100 | 21 100 | 25 750 | 31 000 | 37 000  | 43 650  | 51 000  | 59 100 |
|                                                                                  |                                |            | 114N3376     | R               |            | 38℃                 |                                                     | 16 200 | 20 000 | 24 450 | 29 500 | 35 250  | 41 650  | 48 800  | 56 700 |
|                                                                                  |                                |            |              |                 |            | 43℃                 |                                                     |        | 18 100 | 22 200 | 26 900 | 32 250  | 38 300  | 45 100  | 52 700 |
| OP-HRU038D                                                                       |                                | 114N3378   | N            | MLZ038          | 32℃        | 16 950              | 21 650                                              | 27 000 | 33 000 | 39 800 | 47 350 | 55 850  | 65 300  | 75 700  |        |
|                                                                                  |                                | 114N3379   | Q            |                 | 35℃        |                     | 20 600                                              | 25 750 | 31 550 | 38 050 | 45 350 | 53 550  | 62 650  | 72 800  |        |
|                                                                                  |                                | 114N3380   | R            |                 | 38℃        |                     | 19 450                                              | 24 450 | 30 050 | 36 300 | 43 300 | 51 200  | 60 000  | 69 850  |        |
|                                                                                  |                                |            |              |                 | 43℃        |                     |                                                     | 22 150 | 27 350 | 33 250 | 39 800 | 47 200  | 55 500  | 64 850  |        |
| OP-HRU048D                                                                       |                                | 114N3382   | Q            | MLZ048          | 32℃        | 22 750              | 28 200                                              | 34 700 | 42 200 | 50 800 | 60 350 | 70 900  | 82 450  | 95 000  |        |
|                                                                                  |                                | 114N3383   | R            |                 | 35℃        |                     | 26 850                                              | 33 050 | 40 250 | 48 450 | 57 600 | 67 800  | 79 000  | 91 200  |        |
|                                                                                  |                                |            |              |                 | 38℃        |                     | 25 400                                              | 31 300 | 38 200 | 46 000 | 54 850 | 64 650  | 75 450  | 87 350  |        |
|                                                                                  |                                |            |              |                 | 43℃        |                     |                                                     | 28 300 | 34 600 | 41 850 | 50 100 | 59 250  | 69 500  | 80 900  |        |
| OP-HRU058D                                                                       |                                | 114N3385   | Q            | MLZ058          | 32℃        | 23 800              | 32 050                                              | 41 250 | 51 450 | 62 750 | 75 300 | 89 150  | 104 300 | 120 850 |        |
|                                                                                  |                                | 114N3386   | R            |                 | 35℃        |                     | 29 900                                              | 38 800 | 48 600 | 59 450 | 71 450 | 84 700  | 99 300  | 115 200 |        |
|                                                                                  |                                |            |              |                 | 38℃        |                     | 27 700                                              | 36 250 | 45 700 | 56 050 | 67 550 | 80 200  | 94 150  | 109 400 |        |
|                                                                                  |                                |            |              |                 | 43℃        |                     |                                                     | 31 950 | 40 650 | 50 200 | 60 750 | 72 400  | 85 300  | 99 450  |        |
| OP-HRU076D                                                                       |                                | 114N3388   | Q            | MLZ076          | 32℃        | 35 600              | 44 500                                              | 54 600 | 66 150 | 79 200 | 93 850 | 110 150 | 128 100 | 147 700 |        |
|                                                                                  |                                | 114N3389   | R            |                 | 35℃        |                     | 42 300                                              | 52 000 | 63 000 | 75 400 | 89 400 | 104 950 | 122 100 | 140 950 |        |
|                                                                                  |                                |            |              |                 | 38℃        |                     | 40 000                                              | 49 250 | 59 750 | 71 550 | 84 850 | 99 650  | 116 050 | 134 150 |        |
|                                                                                  |                                |            |              |                 | 43℃        |                     |                                                     | 44 550 | 54 150 | 64 950 | 77 050 | 90 650  | 105 800 | 122 650 |        |

**Electrical codes:**

N - compressor 230 V/1-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

Q - compressor 230 V/3-ph/60 Hz , fan(s) 230 V/1-ph/60 Hz

R - compressor 460 V/3-ph/60 Hz , fan(s) 460 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

Power consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

| Model      | Condenser |                    |                           | Fan<br>Ø [mm] | Receiver [l] | Power consumption<br>[Btu/h] at<br>evaporating temp. |       | Dimensions [mm] |                     |                 |                     |                 |                | Weight [kg] |     |
|------------|-----------|--------------------|---------------------------|---------------|--------------|------------------------------------------------------|-------|-----------------|---------------------|-----------------|---------------------|-----------------|----------------|-------------|-----|
|            | Type      | Air flow<br>[m³/h] | Internal<br>volume<br>[l] |               |              | -10°C                                                | 5°C   | Figure          | Height<br>H<br>[mm] | Depth D<br>[mm] | Length<br>L<br>[mm] | Suction<br>line | Liquid<br>line | Gross       | Net |
| OP-HNU015D | G8        | 4800               | 0.5                       | 1x457         | 6            | 2350                                                 | 2600  | 3A              | 538                 | 420             | 1150                | 5/8"            | 1/2"           | 115         | 103 |
| OP-HNU021D | G8        | 4800               | 0.5                       | 1x457         | 6            | 3450                                                 | 3700  | 3A              | 538                 | 420             | 1150                | 5/8"            | 1/2"           | 115         | 103 |
| OP-HNU030D | J8        | 6300               | 1.3                       | 1x457         | 8            | 4450                                                 | 4850  | 3A              | 688                 | 420             | 1150                | 7/8"            | 1/2"           | 136         | 123 |
| OP-HRU038D | N8        | 8800               | 1.6                       | 2x457         | 10           | 5350                                                 | 5900  | 4A              | 715                 | 800             | 1200                | 7/8"            | 1/2"           | 182         | 167 |
| OP-HRU048D | N8        | 8800               | 1.6                       | 2x457         | 10           | 7550                                                 | 8250  | 4A              | 715                 | 800             | 1200                | 7/8"            | 1/2"           | 182         | 167 |
| OP-HRU058D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 8950                                                 | 10050 | 4A              | 971                 | 800             | 1500                | 1 1/8"          | 5/8"           | 287         | 269 |
| OP-HRU076D | Q8        | 13,980             | 2.5                       | 2x550         | 14           | 11000                                                | 12300 | 4A              | 971                 | 800             | 1500                | 1 1/8"          | 5/8"           | 288         | 270 |

| Fans                                                                                                                                                                 | Test conditions                | Model      | version code | Electrical code | Compressor | Ambient temperature | Cooling capacity [Btu/h] at evaporating temperature |        |        |        |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|--------------|-----------------|------------|---------------------|-----------------------------------------------------|--------|--------|--------|--------|
|                                                                                                                                                                      |                                |            | D40          |                 |            |                     | -40℃                                                | -35℃   | -30℃   | -25℃   | -20℃   |
|                                                                                      | Superheat 18K<br>Subcooling 3K | OP-LJZ048D | 114N3343     | N               | NTZ048     | 32℃                 | 2 950                                               | 4 400  | 6 100  | 8 000  | 10 200 |
|                                                                                                                                                                      |                                |            | 114N3344     | Q               |            | 35℃                 | 2 700                                               | 4 050  | 5 650  | 7 500  | 9 550  |
|                                                                                                                                                                      |                                |            |              |                 |            | 38℃                 | 2 400                                               | 3 700  | 5 200  | 6 950  | 8 900  |
|                                                                                                                                                                      |                                |            |              |                 |            | 43℃                 | 1 950                                               | 3 100  | 4 500  | 6 050  | 7 850  |
|                                                                                                                                                                      |                                | OP-LJZ068D | 114N3347     | N               | NTZ068     | 32℃                 | 5 050                                               | 7 000  | 9 200  | 11 700 | 14 450 |
|                                                                                                                                                                      |                                |            | 114N3348     | Q               |            | 35℃                 | 4 650                                               | 6 500  | 8 600  | 10 950 | 13 550 |
|                                                                                                                                                                      |                                |            | 114N3349     | R               |            | 38℃                 | 4 250                                               | 6 000  | 8 000  | 10 250 | 12 700 |
|                                                                                                                                                                      |                                |            |              |                 |            | 43℃                 | 3 650                                               | 5 250  | 7 050  | 9 100  | 11 350 |
|                                                                                                                                                                      |                                | OP-LJZ108D | 114N3352     | N               | NTZ108     | 32℃                 | 6 550                                               | 9 800  | 13 600 | 17 950 | 22 850 |
|                                                                                                                                                                      |                                |            | 114N3353     | Q               |            | 35℃                 | 6 050                                               | 9 100  | 12 700 | 16 800 | 21 450 |
|                                                                                                                                                                      |                                |            | 114N3354     | R               |            | 38℃                 | 5 500                                               | 8 400  | 11 800 | 15 650 | 20 050 |
|                                                                                                                                                                      |                                |            |              |                 |            | 43℃                 |                                                     | 7 150  | 10 250 | 13 750 | 17 650 |
|                                                                                                                                                                      |                                | OP-LJZ136D | 114N3356     | N               | NTZ136     | 32℃                 | 9 350                                               | 13 500 | 18 350 | 23 900 | 30 250 |
|                                                                                                                                                                      |                                |            | 114N3357     | Q               |            | 35℃                 | 8 550                                               | 12 500 | 17 100 | 22 450 | 28 550 |
|                                                                                                                                                                      |                                |            | 114N3358     | R               |            | 38℃                 | 7 700                                               | 11 500 | 15 900 | 21 000 | 26 800 |
|                                                                                                                                                                      |                                |            |              |                 |            | 43℃                 |                                                     | 9 800  | 13 900 | 18 600 | 23 950 |
| <br> | OP-LGZ215D                     | 114N3360   | Q            | NTZ215          | 32℃        | 14 900              | 20 800                                              | 27 750 | 35 800 | 44 950 |        |
|                                                                                                                                                                      |                                | 114N3361   | R            |                 | 35℃        | 13 500              | 19 200                                              | 25 850 | 33 500 | 42 250 |        |
|                                                                                                                                                                      |                                |            |              |                 | 38℃        | 12 100              | 17 500                                              | 23 900 | 31 200 | 39 500 |        |
|                                                                                                                                                                      |                                |            |              |                 | 43℃        | 9 700               | 14 700                                              | 20 500 | 27 200 | 34 800 |        |
|                                                                                                                                                                      | OP-LGZ271D                     | 114N3363   | Q            | NTZ271          | 32℃        | 20 200              | 27 600                                              | 36 250 | 46 000 | 56 900 |        |
|                                                                                                                                                                      |                                | 114N3364   | R            |                 | 35℃        | 18 600              | 25 700                                              | 33 900 | 43 200 | 53 500 |        |
|                                                                                                                                                                      |                                |            |              |                 | 38℃        | 17 050              | 23 800                                              | 31 550 | 40 300 | 50 050 |        |
|                                                                                                                                                                      |                                |            |              |                 | 43℃        | 14 400              | 20 550                                              | 27 550 | 35 500 | 44 300 |        |

**Electrical codes:**

N - compressor 230 V/1-ph/60 Hz, fan(s) 230 V/1-ph/60 Hz

Q - compressor 230 V/3-ph/60 Hz, fan(s) 230 V/1-ph/60 Hz

R - compressor 460 V/3-ph/60 Hz, fan(s) 460 V/1-ph/60 Hz

Cooling capacity for three-phase models shown. For single-phase models a difference of +/- 1% shall apply

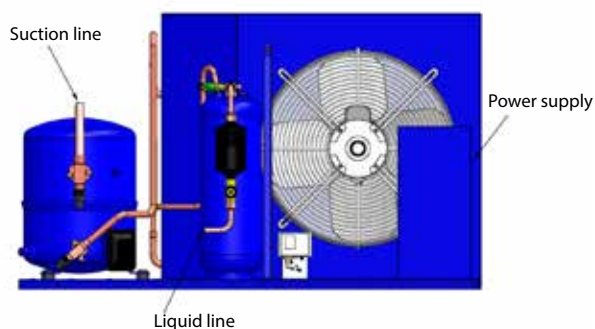
Power consumption values shown relate to an ambient temperature in the equipment room of 32°C.

Detailed settings for versions D32 and D40 can be found on page 03.

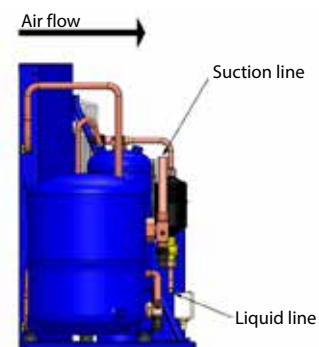
| Model      | Condenser |                    |                           | Fan<br>Ø [mm] | Receiver [l] | Power consumption<br>[Btu/h] at evaporating<br>temp. | Dimensions [mm] |                     |                 |                     |                 |                | Weight [kg] |     |
|------------|-----------|--------------------|---------------------------|---------------|--------------|------------------------------------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|----------------|-------------|-----|
|            | Type      | Air flow<br>[m³/h] | Internal<br>volume<br>[l] |               |              | -25°C                                                | Figure          | Height<br>H<br>[mm] | Depth D<br>[mm] | Length<br>L<br>[mm] | Suction<br>line | Liquid<br>line | Gross       | Net |
| OP-LJZ048D | D8        | 2400               | 0,4                       | 1x355         | 3            | 1900                                                 | 1B              | 463                 | 310             | 1000                | 5/8"            | 3/8"           | 85          | 76  |
| OP-LJZ068D | D8        | 2400               | 0,4                       | 1x355         | 3            | 2700                                                 | 1B              | 463                 | 310             | 1000                | 5/8"            | 3/8"           | 85          | 76  |
| OP-LJZ108D | J8        | 6300               | 1.3                       | 1x457         | 8            | 4450                                                 | 1B              | 688                 | 420             | 1150                | 7/8"            | 1/2"           | 134         | 121 |
| OP-LJZ136D | J8        | 6300               | 1.3                       | 1x457         | 8            | 5650                                                 | 1B              | 688                 | 420             | 1150                | 7/8"            | 1/2"           | 134         | 121 |
| OP-LGZ215D | N8        | 8800               | 1.6                       | 2x457         | 14           | 8650                                                 | 2B              | 715                 | 800             | 1200                | 1 1/8"          | 5/8"           | 201         | 186 |
| OP-LGZ271D | N8        | 8800               | 1.6                       | 2x457         | 14           | 10950                                                | 2B              | 715                 | 800             | 1200                | 1 1/8"          | 5/8"           | 201         | 186 |

**Figure 1A - D32 version (Reciprocating compressor - 1 fan)**

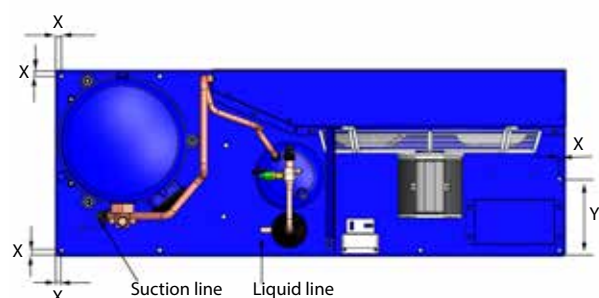
Front view



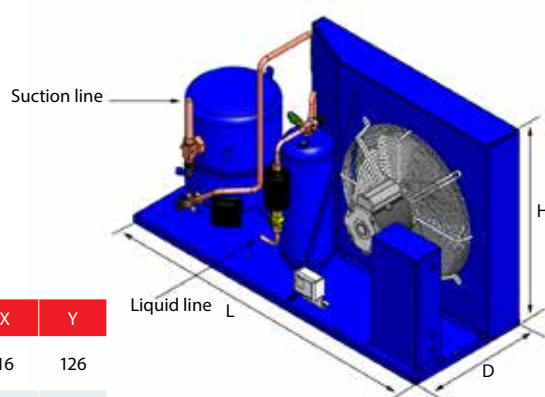
Viewed from rear left



Top view



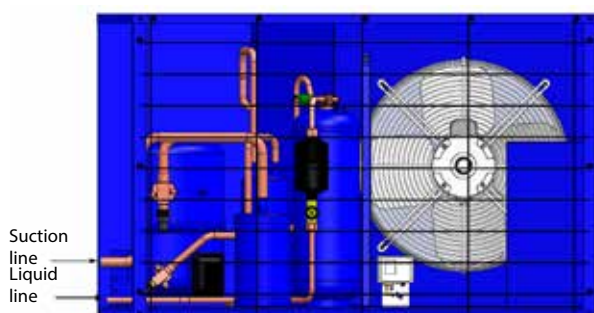
Isometric view



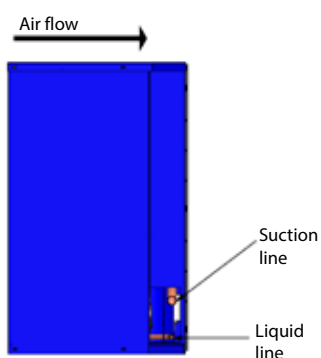
| Fixing points        | X  | Y   |
|----------------------|----|-----|
| OP-HJ...018D to 022D | 16 | 126 |
| OP-HJ...028D to 050D | 14 | 174 |

**Figure 1B - D40 version (Reciprocating compressor - 1 fan)**

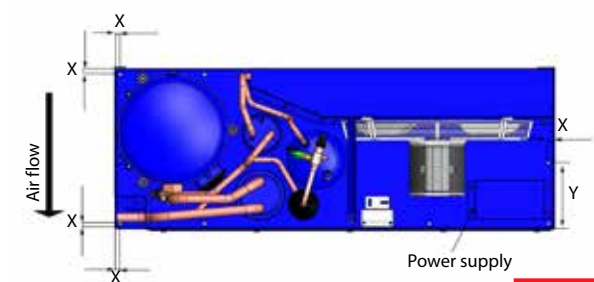
Front view



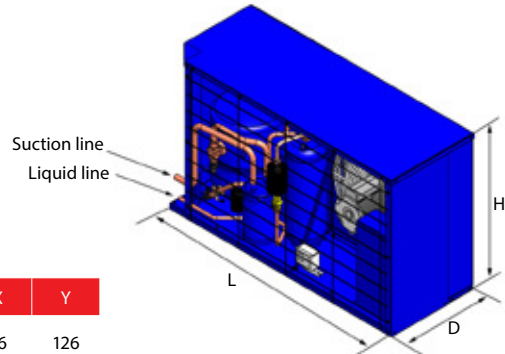
Viewed from rear left



Top view (without cover cap)



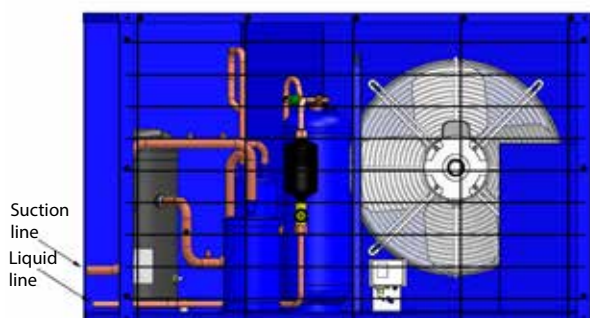
Isometric view



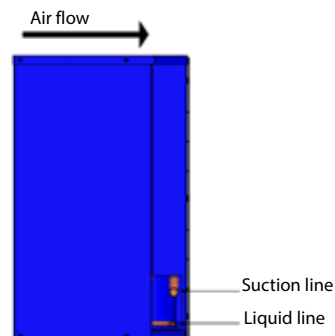
| Fixing points                                | X  | Y   |
|----------------------------------------------|----|-----|
| OP-HJ...018D to 022D<br>OP-LJ...048D to 068D | 16 | 126 |
| OP-HJ...028D to 050D<br>OP-LJ...108D to 136D | 14 | 174 |

**Figure 3A - D40 version (scroll compressor - 1 fan)**

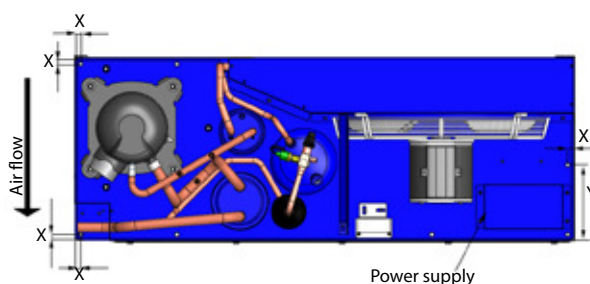
Front view



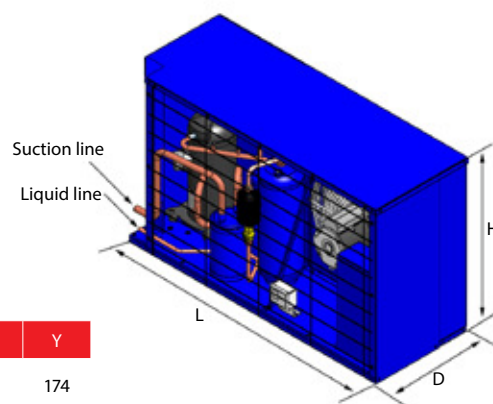
Viewed from rear left



Top view (without cover cap)



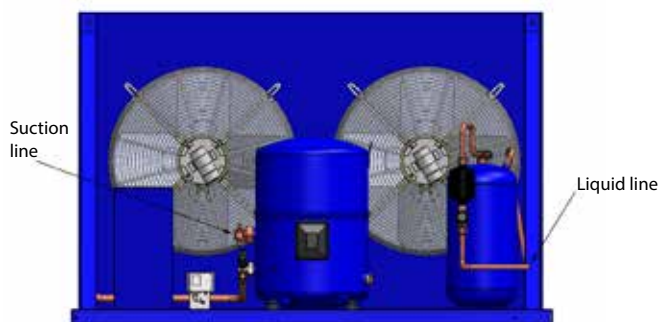
Isometric view



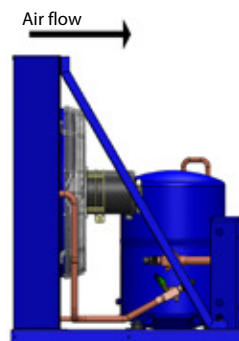
| Fixing points         | X  | Y   |
|-----------------------|----|-----|
| OP-HNU...015D to 030D | 14 | 174 |

**Figure 2A - D32 version (Reciprocating compressor - 2 fans)**

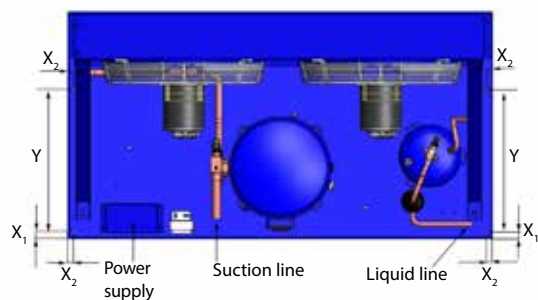
Front view



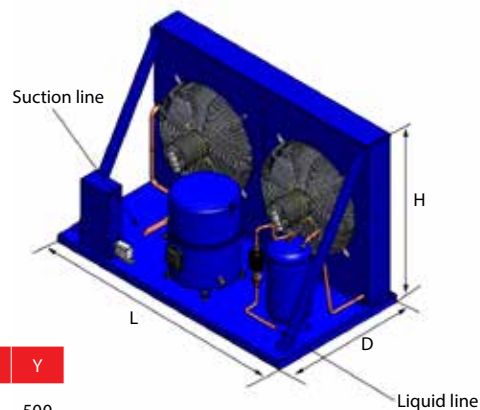
Viewed from rear left



Top view



Isometric view



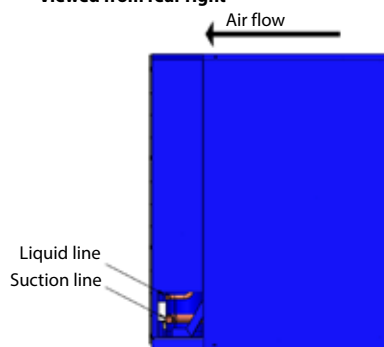
| Fixing points        | X <sub>1</sub> | X <sub>2</sub> | Y   |
|----------------------|----------------|----------------|-----|
| OP-HG...064D to 160D | 25             | 20             | 500 |

Figure 2B - D40 version (Reciprocating compressor - 2 fans)

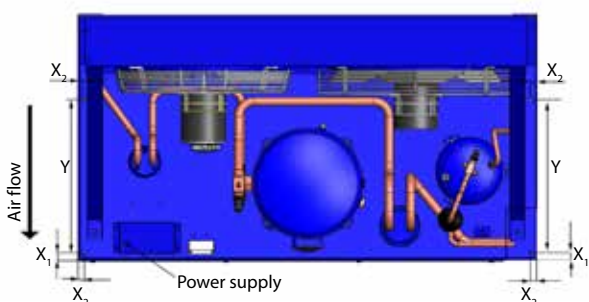
Front view



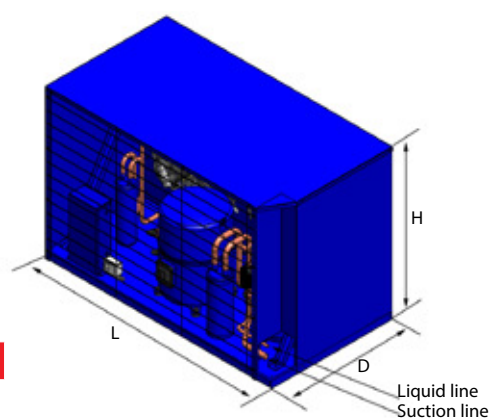
Viewed from rear right



Top view (without cover cap)



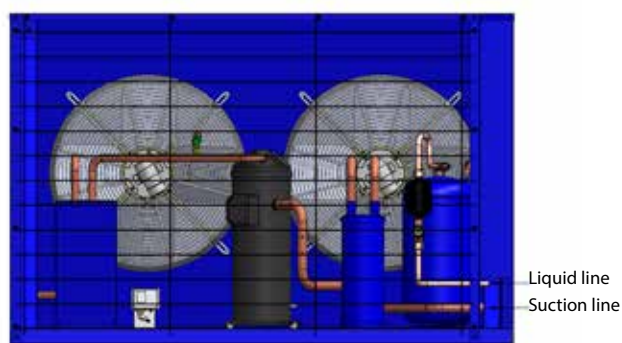
Isometric view



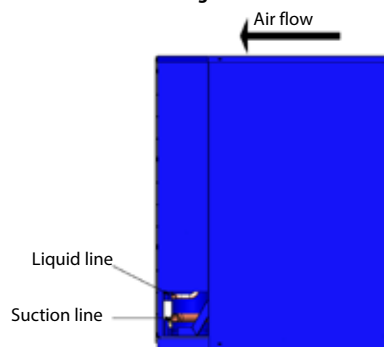
| Fixing points        | X <sub>1</sub> | X <sub>2</sub> | Y   |
|----------------------|----------------|----------------|-----|
| OP-HG...064D to 160D | 25             | 20             | 500 |
| OP-LG...215D to 271D |                |                |     |

Figure 4A - D40 version (scroll compressor - 2 fans)

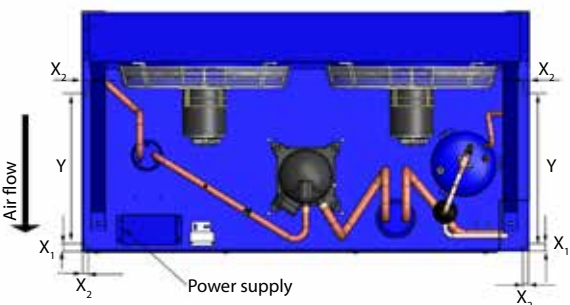
Front view



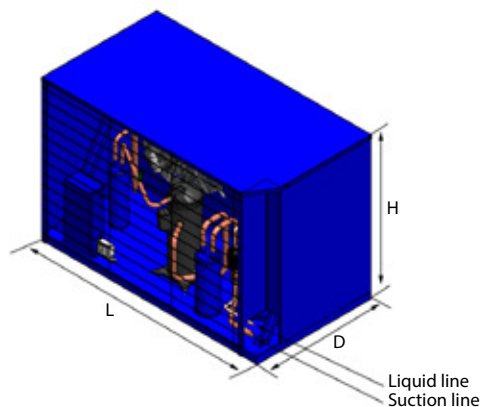
Viewed from rear right



Top view (without cover cap)

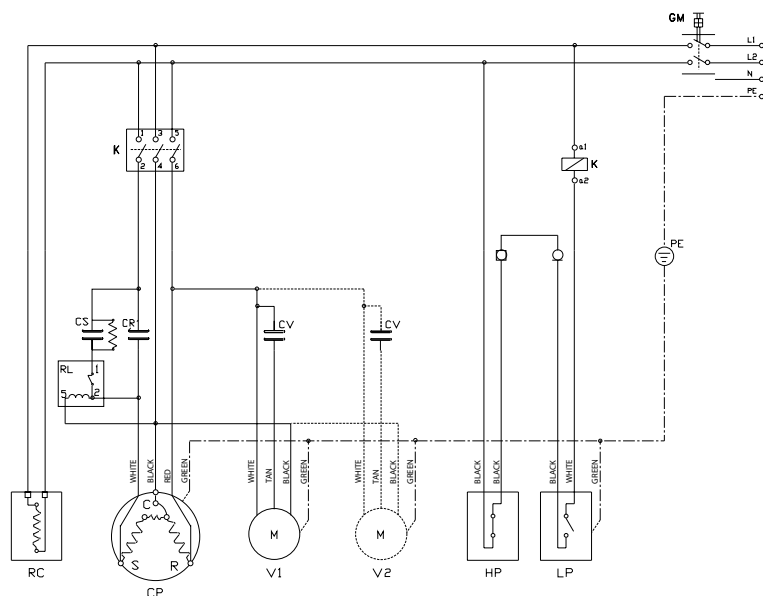


Isometric view



| Fixing points         | X <sub>1</sub> | X <sub>2</sub> | Y   |
|-----------------------|----------------|----------------|-----|
| OP-HRU...038D to 076D | 25             | 20             | 500 |

Electrical code N - 230 V/1-ph/60 Hz - Units equipped with reciprocating hermetic and scroll compressors



| Legend |                      |
|--------|----------------------|
| CP     | Compressor           |
| CR     | Run capacitor        |
| CS     | Starting capacitor   |
| CV     | Fan capacitor        |
| GM     | Motor protection     |
| K      | Contactor            |
| HP     | High-pressure switch |
| LP     | Low-pressure switch  |
| RC     | Crankcase heater     |
| RL     | Relay                |
| V      | Fan                  |

Reciprocating hermetic unit

| Application | Model         | LRA compressor<br>[A]<br>230 V/1-ph | MCC compressor<br>[A]<br>230 V/1-ph | FLA fan<br>[A]<br>230 V/1-ph | Fan(s) power<br>[W] | Unit max. power<br>consumption<br>(W) |
|-------------|---------------|-------------------------------------|-------------------------------------|------------------------------|---------------------|---------------------------------------|
| MBP         | OP-HJM(Z)018D | 51                                  | 13                                  | 1.2                          | 1 x 285             | 2569                                  |
|             | OP-HJM(Z)022D | 49.3                                | 17                                  | 1.2                          | 1 x 285             | 3217                                  |
|             | OP-HJM(Z)028D | 81                                  | 25                                  | 3.6                          | 1 x 889             | 4537                                  |
|             | OP-HJM(Z)036D | 84                                  | 30                                  | 3.6                          | 1 x 889             | 5885                                  |
|             | OP-HJM(Z)040D | 99                                  | 34                                  | 3.6                          | 1 x 889             | 6305                                  |
|             | OP-HJM(Z)050D | 114                                 | 36                                  | 3.6                          | 1 x 889             | 6966                                  |
| LBP         | OP-HGM(Z)064D | 143                                 | 46                                  | 7.2                          | 2 x 889             | 9526                                  |
|             | OP-LJZ048D    | 43.7                                | 13.2                                | 1.2                          | 1 x 285             | 2209                                  |
|             | OP-LJZ068D    | 72                                  | 21                                  | 1.2                          | 1 x 285             | 3325                                  |
|             | OP-LJZ108D    | 97                                  | 33                                  | 3.6                          | 1 x 889             | 5185                                  |
|             | OP-LJZ136D    | 140                                 | 41                                  | 3.6                          | 1 x 889             | 6594                                  |

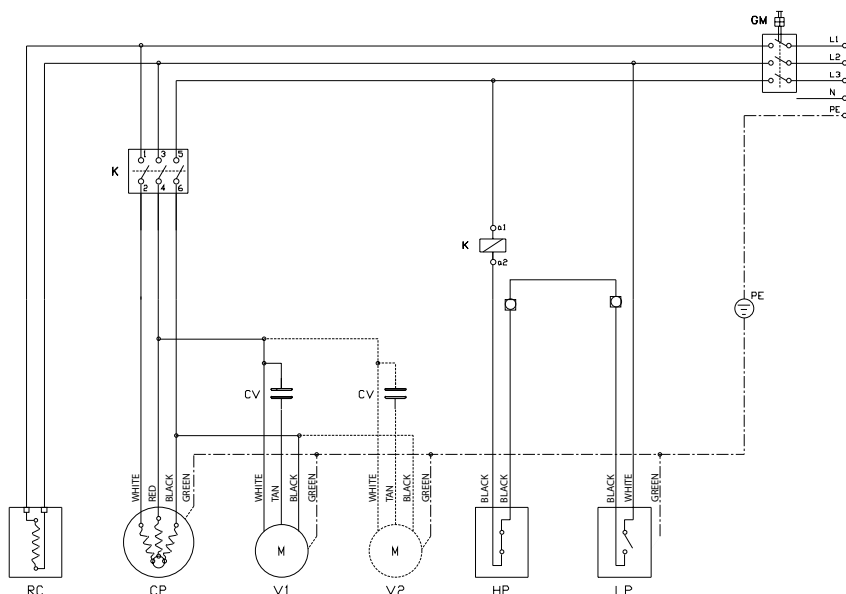
Scroll unit

| Application | Model      | LRA compressor<br>[A]<br>230 V/1-ph | MCC compressor<br>[A]<br>230 V/1-ph | FLA fan<br>[A]<br>230 V/1-ph | Fan(s) power<br>[W] | Unit max. power<br>consumption<br>(W) |
|-------------|------------|-------------------------------------|-------------------------------------|------------------------------|---------------------|---------------------------------------|
| MBP         | OP-HNU015D | 69                                  | 19                                  | 3.6                          | 1 x 889             | 3401                                  |
|             | OP-HNU021D | 97                                  | 24.5                                | 3.6                          | 1 x 889             | 4496                                  |
|             | OP-HNU030D | 150                                 | 38                                  | 3.6                          | 1 x 889             | 5961                                  |
|             | OP-HRU038D | 160                                 | 45                                  | 7.2                          | 2 x 889             | 7573                                  |

Legend:

LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage

Electrical code Q - 230 V/3-ph/60 Hz - Units equipped with reciprocating hermetic compressors



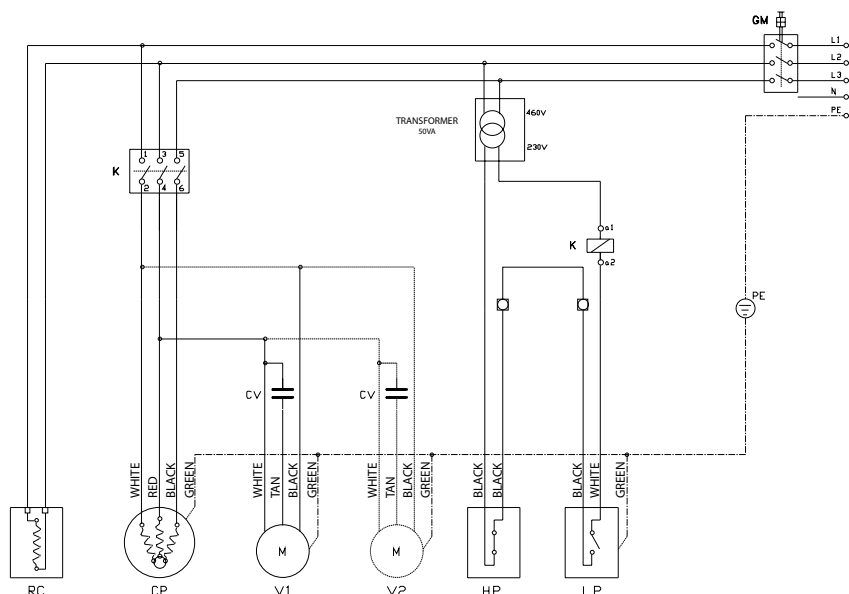
| Legend |                      |
|--------|----------------------|
| CP     | Compressor           |
| CV     | Fan capacitor        |
| GH     | Motor protection     |
| K      | Contactor            |
| HP     | High-pressure switch |
| LP     | Low-pressure switch  |
| RC     | Crankcase heater     |
| V1-V2  | Fan                  |

| Application | Model         | LRA compressor<br>[A]<br>230 V/3-ph | MCC compressor<br>[A]<br>230 V/3-ph | FLA fan<br>[A]<br>230 V/1-ph | Fan(s)<br>power<br>[W] | Max.<br>power consumption<br>(W) |
|-------------|---------------|-------------------------------------|-------------------------------------|------------------------------|------------------------|----------------------------------|
| MBP         | OP-HJM(Z)018D | 38                                  | 9                                   | 1.2                          | 1 x 285                | 2569                             |
|             | OP-HJM(Z)022D | 38                                  | 11                                  | 1.2                          | 1 x 285                | 3217                             |
|             | OP-HJM(Z)028D | 57                                  | 16                                  | 3.6                          | 1 x 889                | 4537                             |
|             | OP-HJM(Z)036D | 74                                  | 17                                  | 3.6                          | 1 x 889                | 5885                             |
|             | OP-HJM(Z)040D | 98                                  | 22                                  | 3.6                          | 1 x 889                | 6305                             |
|             | OP-HJM(Z)050D | 115                                 | 25                                  | 3.6                          | 1 x 889                | 6966                             |
|             | OP-HGM(Z)064D | 137                                 | 29                                  | 7.2                          | 2 x 889                | 9526                             |
|             | OP-HGM(Z)080D | 140                                 | 36                                  | 7.2                          | 2 x 889                | 12,694                           |
|             | OP-HGM(Z)100D | 157                                 | 43                                  | 7.2                          | 2 x 889                | 13,995                           |
|             | OP-HGM(Z)125D | 210                                 | 54                                  | 8.8                          | 2 x 987                | 17,761                           |
| LBP         | OP-HGM(Z)160D | 259                                 | 70                                  | 8.8                          | 2 x 987                | 23,772                           |
|             | OP-LJZ048D    | 32                                  | 10.1                                | 1.2                          | 1 x 285                | 2209                             |
|             | OP-LJZ068D    | 48.5                                | 14.8                                | 1.2                          | 1 x 285                | 3325                             |
|             | OP-LJZ108D    | 72                                  | 21.4                                | 3.6                          | 1 x 889                | 5185                             |
|             | OP-LJZ136D    | 97.2                                | 29                                  | 3.6                          | 1 x 889                | 6594                             |
|             | OP-LGZ215D    | 147.7                               | 42.3                                | 7.2                          | 2 x 889                | 10,134                           |
|             | OP-LGZ271D    | 198                                 | 56.5                                | 7.2                          | 2 x 889                | 12,861                           |

Legend:

LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage

Electrical code R - 460 V/3-ph/60 Hz - Units equipped with reciprocating hermetic compressors



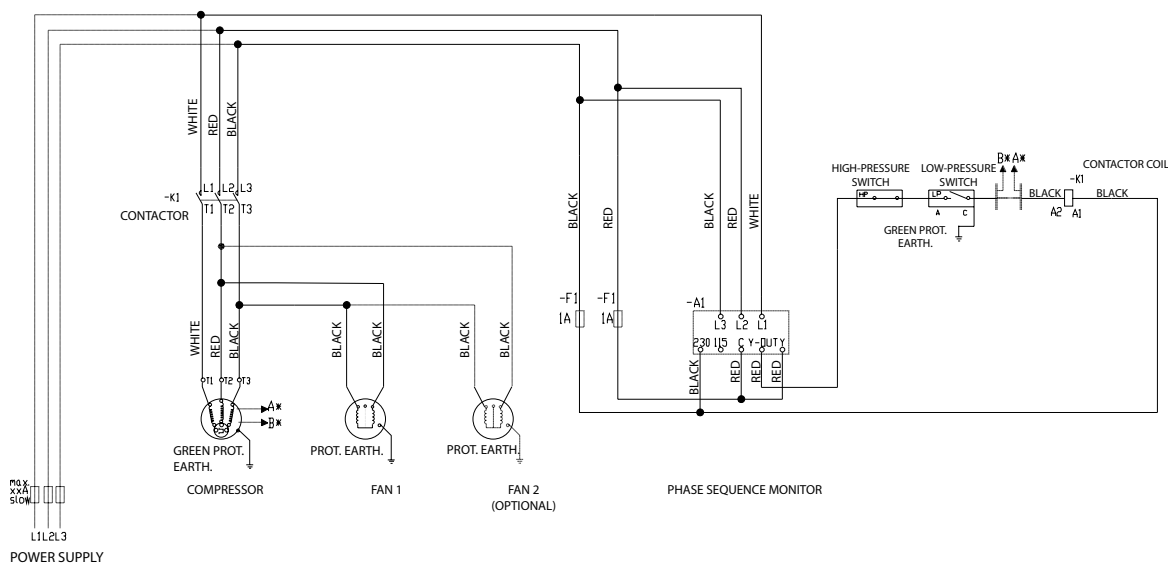
| Legend |                      |
|--------|----------------------|
| CP     | Compressor           |
| CV     | Fan capacitor        |
| GM     | Motor protection     |
| K      | Contactor            |
| HP     | High-pressure switch |
| LP     | Low-pressure switch  |
| RC     | Crankcase heater     |
| V1-V2  | Fan                  |

| Application | Model         | LRA compressor<br>[A]<br>460V/3-ph | MCC compressor<br>[A]<br>460V/3-ph | FLA fan<br>[A]<br>230 V/1-ph | Fan(s) power<br>[W] | Max. power<br>consumption<br>(W) |
|-------------|---------------|------------------------------------|------------------------------------|------------------------------|---------------------|----------------------------------|
| MBP         | OP-HJM(Z)018D | 20                                 | 5                                  | 0.6                          | 1 x 285             | 2569                             |
|             | OP-HJM(Z)022D | 16                                 | 6                                  | 0.6                          | 1 x 285             | 3217                             |
|             | OP-HJM(Z)028D | 23                                 | 7.5                                | 1.8                          | 1 x 889             | 4537                             |
|             | OP-HJM(Z)036D | 30                                 | 9                                  | 1.8                          | 1 x 889             | 5885                             |
|             | OP-HJM(Z)040D | 38                                 | 10                                 | 1.8                          | 1 x 889             | 6305                             |
|             | OP-HJM(Z)050D | 48.5                               | 11.5                               | 1.8                          | 1 x 889             | 6966                             |
|             | OP-HGM(Z)064D | 64                                 | 14                                 | 3.6                          | 2 x 889             | 9526                             |
|             | OP-HGM(Z)080D | 80                                 | 19                                 | 3.6                          | 2 x 889             | 12,694                           |
|             | OP-HGM(Z)100D | 90                                 | 22                                 | 3.6                          | 2 x 889             | 13,995                           |
|             | OP-HGM(Z)125D | 105                                | 27                                 | 4.4                          | 2 x 987             | 17,761                           |
| LBP         | OP-HGM(Z)160D | 130                                | 36                                 | 4.4                          | 2 x 987             | 23,772                           |
|             | OP-LJZ068D    | 25                                 | 8.4                                | 0.6                          | 1 x 285             | 3325                             |
|             | OP-LJZ108D    | 45                                 | 12.1                               | 1.8                          | 1 x 889             | 5185                             |
|             | OP-LJZ136D    | 51                                 | 14.3                               | 1.8                          | 1 x 889             | 6594                             |
|             | OP-LGZ215D    | 74                                 | 22.3                               | 3.6                          | 2 x 889             | 10,134                           |
|             | OP-LGZ271D    | 96                                 | 27                                 | 3.6                          | 2 x 889             | 12,861                           |

Legend:

LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage

Electrical code Q - 230 V/3-ph/60 Hz - Units equipped with scroll compressors

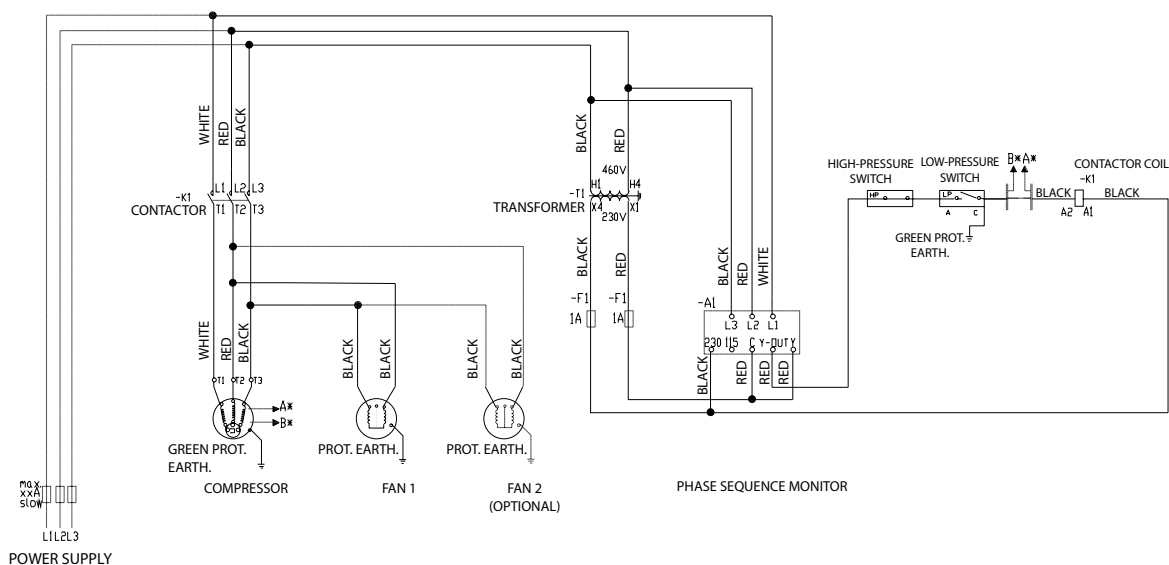


| Application | Model      | LRA compressor<br>[A]<br>230 V/3-ph | MCC compressor<br>[A]<br>230 V/3-ph | FLA fan<br>[A]<br>230 V/1-ph | Fan(s) power<br>[W] | Max. power<br>consumption<br>[W] |
|-------------|------------|-------------------------------------|-------------------------------------|------------------------------|---------------------|----------------------------------|
| MBP         | OP-HNU015D | 60                                  | 14.5                                | 3.6                          | 1 x 889             | 3401                             |
|             | OP-HNU021D | 95                                  | 17.5                                | 3.6                          | 1 x 889             | 4496                             |
|             | OP-HNU030D | 120                                 | 26                                  | 3.6                          | 1 x 889             | 5961                             |
|             | OP-HRU038D | 123                                 | 26                                  | 7.2                          | 2 x 889             | 7573                             |
|             | OP-HRU048D | 190                                 | 37                                  | 7.2                          | 2 x 889             | 9907                             |
|             | OP-HRU058D | 190                                 | 40                                  | 8.8                          | 2 x 987             | 11,198                           |
|             | OP-HRU076D | 235                                 | 50                                  | 8.8                          | 2 x 987             | 14,920                           |

Legend:

LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage

**Electrical code R - 460 V/3-ph/60 Hz - Units equipped with scroll compressors**



| Application | Model      | LRA compressor<br>[A]<br>460V/3-ph | MCC compressor<br>[A]<br>460V/3-ph | FLA fan<br>[A]<br>460 V/1-ph | Fan(s)<br>power<br>[W] | Max<br>power consumption<br>(W) |
|-------------|------------|------------------------------------|------------------------------------|------------------------------|------------------------|---------------------------------|
| MBP         | OP-HNU015D | 30                                 | 7                                  | 1.8                          | 1 x 889                | 3401                            |
|             | OP-HNU021D | 45                                 | 9.5                                | 1.8                          | 1 x 889                | 4496                            |
|             | OP-HNU030D | 60                                 | 13                                 | 1.8                          | 1 x 889                | 5961                            |
|             | OP-HRU038D | 70                                 | 15                                 | 3.6                          | 2 x 889                | 7573                            |
|             | OP-HRU048D | 87                                 | 16                                 | 3.6                          | 2 x 889                | 9907                            |
|             | OP-HRU058D | 95                                 | 20                                 | 4.4                          | 2 x 987                | 11,198                          |
|             | OP-HRU076D | 140                                | 25                                 | 4.4                          | 2 x 987                | 14,920                          |

Legend:

LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage





# Danfoss Commercial Compressors

is a worldwide manufacturer of compressors and condensing units for refrigeration and HVAC applications. With a wide range of high quality and innovative products we help your company to find the best possible energy efficient solution that respects the environment and reduces total life cycle costs.

We have 40 years of experience within the development of hermetic compressors which has brought us amongst the global leaders in our business, and positioned us as distinct variable speed technology specialists. Today we operate from engineering and manufacturing facilities spanning across three continents.



Danfoss Scrolls



Danfoss Inverter Scrolls



Danfoss Light Commercial Refrigeration Compressors



Danfoss Maneurop Reciprocating Compressors



Danfoss Turbocor Compressors



Danfoss Optyma Condensing Units

Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

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