



## Danfoss OPTYMA Plus Condensing Unit Instruction Manual

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ENGINEERING  
TOMORROW



**Condensing unit OPTYMATM**  
**Lighter and more compact,**  
**fast installation and simple maintenance**  
R22/R402B/R134a/R404A/R507/R448A/R449A/R452A/R513A



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## An optimal solution for refrigeration



### Reduction in the coolant charge

Condenser units with microchannel heat exchangers use up to 30% less coolant charge compared to units with a tube-fin condenser, resulting in significant savings for the installer.



### Faster installation

Reduction in the coolant charge time since the equipment uses less coolant;  
Reduction in the vacuum time as the volume inside the microchannel condenser is sufficiently reduced compared to an equivalent tube-fin condenser.  
Quicker installation improves the productivity of the installer (they can do more installations per day).  
The fact that it is lighter than conventional units further reduces the installation time.



### Lighter condenser unit

When compared with conventional units, the new condenser units with a microchannel condenser are up to 15 kg lighter.

The reduction in the weight of the unit makes it easier to handle.



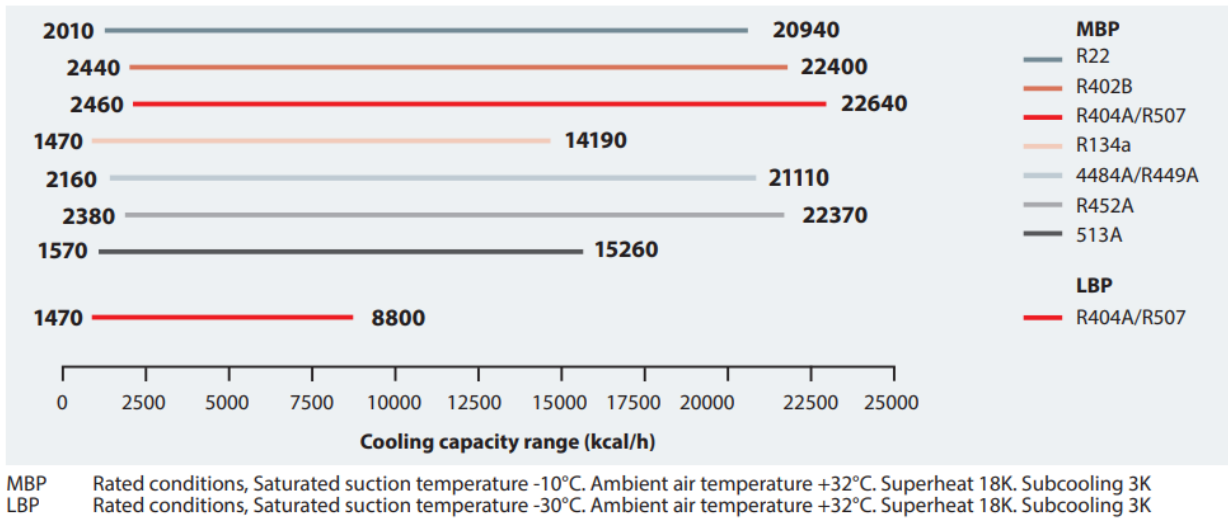
**Simpler maintenance**

The units have service valves in the suction and discharge connections, making maintenance easier and faster; Cleaning of the microchannel heat exchangers is simpler and faster than those in the tube-fin condensers; The two factors above mean preventative maintenance of these units is up to 50% faster than that of traditional units.

**Product range & Features**

| Crankcase resistance                                                                                                                                                                                                             | Microchannel condenser                                                                                                                                                                                                                                                     | Rotolok                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |                                                                                                                                                          |
| <ul style="list-style-type: none"><li>• The crankcase resistance reduces the risk of the compressor breaking as a result of flooding by up to 23.5% and as a result prolongs the operating life of the condenser unit.</li></ul> | <ul style="list-style-type: none"><li>• The microchannel condenser has a lower internal volume and therefore uses less coolant charge and is more efficient, reducing the charge time and the vacuum time. Cleaning and maintenance are also simpler and faster.</li></ul> | <ul style="list-style-type: none"><li>• The Rotolok joint allows for quick and easy replacement of the vacuum seal without the need for tools.</li></ul> |

**Nominal capacity ranges (Kcal/h)**



Condensing unit limits

Ambient temp [°C] Up to 43°C

| <b>T Evaporation [°C]</b> | <b>Min</b> | <b>Max</b> |
|---------------------------|------------|------------|
| MBP R22                   | -10        | 10         |
| MBP R402B                 | -20        | 10         |
| MBP R404A/R507            | -20        | 10         |
| MBP R134a                 | -10        | 10         |
| MBP R448A/R449A           | -15        | 10         |
| MBP R452A                 | -15        | 10         |
| MBP 513A                  | -10        | 10         |
| LBP R404A/R507            | -35        | -10        |

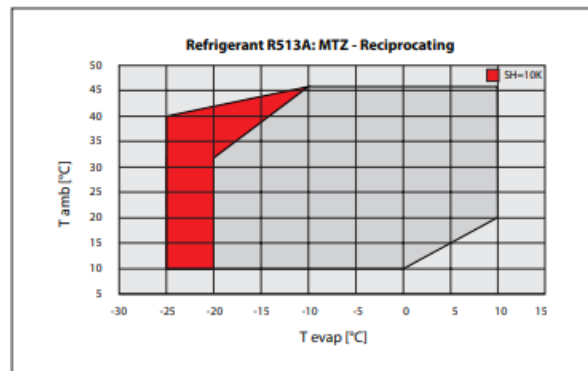
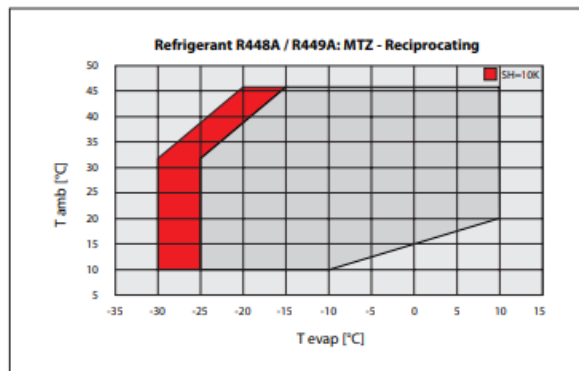
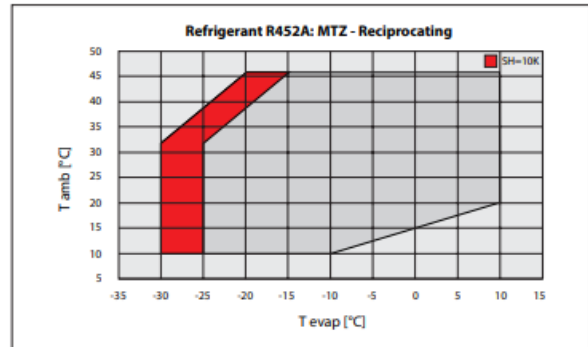
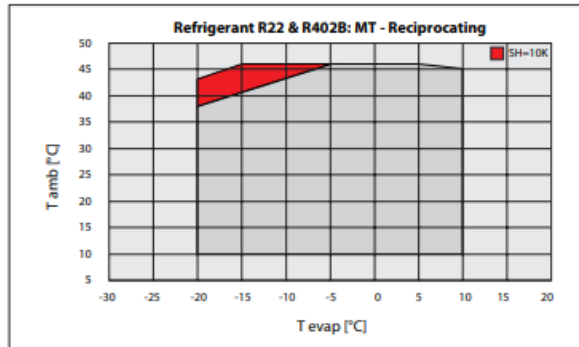
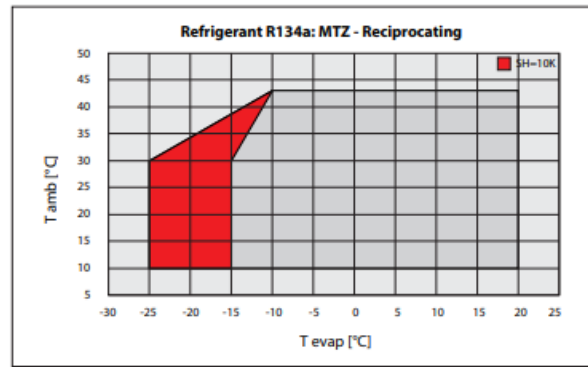
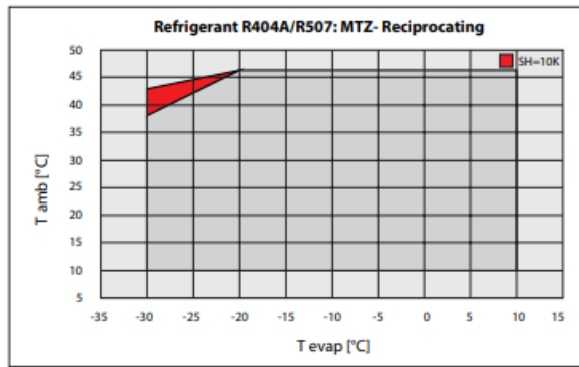
Limits depends on the selected unit



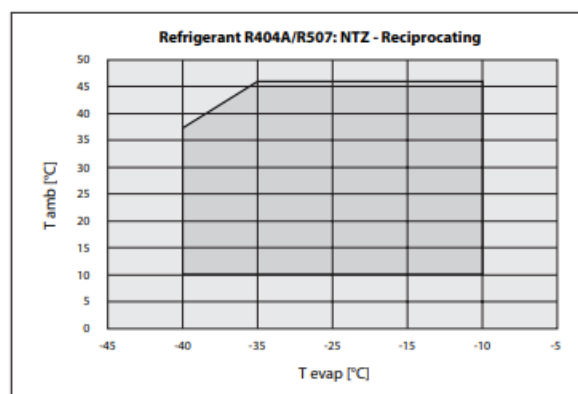
For more information, please refer to Coolselector® at [coolselector.danfoss.com](https://coolselector.danfoss.com) or contact Danfoss

## Application envelope

## MBP



## LBP



## Nomenclature

## Model designation

**OP- H J Z 019 D 20 N**

**1 2 3 4 5 6 7**

|   |                                                                                                                                  |   |                                                                                                                                                                                                   |
|---|----------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Application:<br>H = MBP<br>L = LBP                                                                                               | 5 | Platform:<br>D = Microchannel technology                                                                                                                                                          |
| 2 | Design:<br>J = condenser unit with a fan and a hermetic compressor<br>G = condenser unit with two fans and a hermetic compressor | 6 | Equipment level:<br>20 / 39 / 49 = See table below                                                                                                                                                |
| 3 | Refrigerant/Lubricant:<br>M = R22/R402B – Mineral oil<br>Z = R134a/R404A/R507 – POE                                              | 7 | Voltage code:<br>N = Compressor 230V / 1F / 60Hz,<br>Fan 230V/ 1F / 60 Hz<br>Q = Compressor 230V / 3F / 60Hz,<br>Fan 230V/ 1F / 60 Hz<br>V = Compressor 380V / 3F / 60Hz,<br>Fan 230V/ 1F / 60 Hz |
| 4 | Compressor model:<br>MT and MTZ family for MBP<br>NTZ family for LBP                                                             |   |                                                                                                                                                                                                   |

#### Note

The unit may only be used with the coolants listed in the capacity tables.

#### Label – Designation

|                                    |                                                                                      |                                                                                                        |                                            |
|------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|
| OPTYMA™                            |                                                                                      | <br>MADE IN BRAZIL |                                            |
| A – Modelo:                        |  | <b>HJZ019D20N</b>                                                                                      |                                            |
| B – Código:                        |   | <b>115F0064</b>                                                                                        |                                            |
| C – Serial:                        |  | <b>HA 18 0295248</b>                                                                                   |                                            |
| D – Compressor:                    | 230V 60Hz 1Ph LRA 51A RLA 9,2A                                                       | Teste:                                                                                                 | LP(BP): 174 psi HP(AP): 331 psi – <b>E</b> |
| Ventilador:                        | 230V 60Hz 1Ph FLA0,96                                                                | Refrigerante:                                                                                          | R404A/R507/R134a – <b>F</b>                |
| MCA: 14.2A                         |                                                                                      | Óleo Tipo:                                                                                             | Polyolester – <b>G</b>                     |
| Danfoss do Brasil Ind. E Com. Ltda |                                                                                      | Diagrama Elétr.:                                                                                       |                                            |
|                                    |                                                                                      | CNPJ: 62.158.480/0001-70                                                                               |                                            |

A: Model

B: Code number

C: Serial number and bar code

D: Supply voltage, Locked Rotor Ampere

E: Housing service pressure

F: Refrigerant gas

G: Oil type

#### Version – Equipment level

|                                                                     | D20 | D39 | D49 |
|---------------------------------------------------------------------|-----|-----|-----|
| Receiver                                                            | X   | X   | X   |
| Danfoss Filter drier                                                | X   | X   | X   |
| Danfoss Sight glass                                                 | X   | X   | X   |
| Low pressure switch – KP1 Danfoss                                   | X   | X   | X   |
| High pressure switch – Danfoss cartridge design                     | X   | X   | X   |
| Oil separator                                                       |     |     | X   |
| Suction accumulator                                                 |     |     | X   |
| Crankcase heater                                                    | X   | X   | X   |
| Rotolok suction and discharge valves                                | X   | X   | X   |
| Electric terminals and connectors                                   | X   |     |     |
| Electric box with a circuit breaker, meter and sequence phase relay |     | X   | X   |

### General data – MBP

| Model       | Condenser |                 |                     | Fan motor Ø [mm] | Receiver [l] | Connection    |             | Weight [kg] |          |
|-------------|-----------|-----------------|---------------------|------------------|--------------|---------------|-------------|-------------|----------|
|             | Type      | Air flow [m³/h] | Internal volume [l] |                  |              | Suction line  | Liquid line | Gross       | Net      |
| OP-HJM(Z)19 | D8        | 2400            | 0,4                 | 1×350            | 4            | 1/2"          | 3/8"        | D20 = 62    | D20 = 53 |
|             |           |                 |                     |                  |              |               |             | D39 = 64    | D39 = 55 |
|             |           |                 |                     |                  |              |               |             | D49 = 69    | D49 = 60 |
| OP-HJM(Z)22 | D8        | 2400            | 0,4                 | 1×350            | 4            | 1/2" 5/8" (N) | 3/8"        | D20 = 62    | D20 = 53 |
|             |           |                 |                     |                  |              |               |             | D39 = 64    | D39 = 55 |
|             |           |                 |                     |                  |              |               |             | D49 = 69    | D49 = 60 |
| OP-HJM(Z)28 | G8        | 4800            | 0,5                 | 1×450            | 6            | 1/2" 5/8" (N) | 1/2"        | D20 = 83    | D20 = 71 |
|             |           |                 |                     |                  |              |               |             | D39 = 85    | D39 = 73 |
|             |           |                 |                     |                  |              |               |             | D49 = 90    | D49 = 78 |
| OP-HJM(Z)32 | G8        | 4800            | 0,5                 | 1×450            | 8            | 5/8"          | 1/2"        | D20 = 85    | D20 = 73 |
|             |           |                 |                     |                  |              |               |             | D39 = 87    | D39 = 75 |
|             |           |                 |                     |                  |              |               |             | D49 = 93    | D49 = 81 |
| OP-HJM(Z)36 | G8        | 4800            | 0,5                 | 1×450            | 8            | 5/8"          | 1/2"        | D20 = 85    | D20 = 73 |
|             |           |                 |                     |                  |              |               |             | D39 = 87    | D39 = 75 |
|             |           |                 |                     |                  |              |               |             | D49 = 93    | D49 = 81 |

|              |    |      |     |       |    |        |      |           |           |
|--------------|----|------|-----|-------|----|--------|------|-----------|-----------|
| OP-HJM(Z)40  | J8 | 6300 | 1,3 | 1×450 | 8  | 5/8"   | 1/2" | D20 = 93  | D20 = 80  |
|              |    |      |     |       |    |        |      | D39 = 95  | D39 = 82  |
|              |    |      |     |       |    |        |      | D49 = 101 | D49 = 88  |
| OP-HJM(Z)44  | J8 | 6300 | 1,3 | 1×450 | 8  | 7/8"   | 1/2" | D20 = 104 | D20 = 91  |
|              |    |      |     |       |    |        |      | D39 = 107 | D39 = 94  |
|              |    |      |     |       |    |        |      | D49 = 115 | D49 = 102 |
| OP-HJM(Z)50  | J8 | 6300 | 1,3 | 1×450 | 8  | 7/8"   | 1/2" | D20 = 104 | D20 = 91  |
|              |    |      |     |       |    |        |      | D39 = 107 | D39 = 94  |
|              |    |      |     |       |    |        |      | D49 = 115 | D49 = 102 |
| OP-HJM(Z)56  | J8 | 6300 | 1,3 | 1×450 | 8  | 7/8"   | 1/2" | D20 = 104 | D20 = 91  |
|              |    |      |     |       |    |        |      | D39 = 107 | D39 = 94  |
|              |    |      |     |       |    |        |      | D49 = 115 | D49 = 102 |
| OP-HJM(Z)64  | J8 | 6300 | 1,3 | 1×450 | 8  | 7/8"   | 1/2" | D20 = 104 | D20 = 91  |
|              |    |      |     |       |    |        |      | D39 = 107 | D39 = 94  |
|              |    |      |     |       |    |        |      | D49 = 115 | D49 = 102 |
| OP-HGM(Z)072 | N8 | 8800 | 1,6 | 2×450 | 14 | 1 1/8" | 5/8" | D20 = 140 | D20 = 125 |
|              |    |      |     |       |    |        |      | D39 = 143 | D39 = 128 |
|              |    |      |     |       |    |        |      | D49 = 152 | D49 =137  |
| OP-HGM(Z)080 | N8 | 8800 | 1,6 | 2×450 | 14 | 1 1/8" | 5/8" | D20 = 143 | D20 = 128 |
|              |    |      |     |       |    |        |      | D39 = 146 | D39 = 131 |
|              |    |      |     |       |    |        |      | D49 = 155 | D49 = 140 |



|                  |    |       |     |       |    |        |      |               |               |
|------------------|----|-------|-----|-------|----|--------|------|---------------|---------------|
| OP-HGM<br>(Z)100 | N8 | 8800  | 1,6 | 2×450 | 14 | 1 1/8" | 5/8" | D20 = 15<br>9 | D20 = 15<br>4 |
|                  |    |       |     |       |    |        |      | D39 = 16<br>2 | D39 = 14<br>7 |
|                  |    |       |     |       |    |        |      | D49 = 17<br>1 | D49 = 15<br>6 |
| OP-HGM<br>(Z)125 | Q8 | 13980 | 2,5 | 2×600 | 18 | 1 1/8" | 5/8" | D20 = 24<br>3 | D20 = 22<br>5 |
|                  |    |       |     |       |    |        |      | D39 = 24<br>7 | D39 = 22<br>9 |
|                  |    |       |     |       |    |        |      | D40 = 28<br>7 | D40 = 26<br>9 |
|                  |    |       |     |       |    |        |      | D49 = 25<br>7 | D49 = 23<br>9 |
| OP-HGM<br>(Z)144 | Q8 | 13980 | 2,5 | 2×600 | 18 | 1 1/8" | 5/8" | D20 = 24<br>8 | D20 = 23<br>0 |
|                  |    |       |     |       |    |        |      | D39 = 25<br>2 | D39 = 23<br>4 |
|                  |    |       |     |       |    |        |      | D49 = 26<br>2 | D49 = 24<br>4 |
| OP-HGM<br>(Z)160 | Q8 | 13980 | 2,5 | 2×600 | 18 | 1 1/8" | 5/8" | D20 = 24<br>8 | D20 = 23<br>0 |
|                  |    |       |     |       |    |        |      | D39 = 25<br>2 | D39 = 23<br>4 |
|                  |    |       |     |       |    |        |      | D49 = 26<br>2 | D49 = 24<br>4 |

**General data – LBP**

| Model      | Condenser |                 |                     | Fan motor Ø [mm] | Receiver [l] | Connection   |             | Weight [kg] |           |
|------------|-----------|-----------------|---------------------|------------------|--------------|--------------|-------------|-------------|-----------|
|            | Type      | Air flow [m³/h] | Internal volume [l] |                  |              | Suction line | Liquid line | Gross       | Net       |
| OP-LJZ048D | D8        | 2400            | 0,4                 | 1×350            | 4            | D20 5/8"     | 3/8"        | D20 = 62    | D20 = 53  |
|            |           |                 |                     |                  |              | D49 1/2"     |             | D49 = 69    | D49 = 60  |
| OP-LJZ068D | D8        | 2400            | 0,4                 | 1×350            | 4            | D20 5/8"     | 3/8"        | D20 = 62    | D20 = 53  |
|            |           |                 |                     |                  |              | D49 1/2"     |             | D49 = 69    | D49 = 60  |
| OP-LJZ096D | G8        | 4800            | 0,5                 | 1×450            | 8            | 7/8"         | 1/2"        | D20 = 96    | D20 = 86  |
|            |           |                 |                     |                  |              |              |             | D49 = 93    | D49 = 81  |
| OP-LJZ108D | J8        | 6300            | 1,3                 | 1×450            | 8            | 7/8"         | 1/2"        | D20 = 104   | D20 = 91  |
|            |           |                 |                     |                  |              |              |             | D49 = 115   | D49 = 102 |
| OP-LJZ136D | J8        | 6300            | 1,3                 | 1×450            | 8            | 7/8"         | 1/2"        | D20 = 104   | D20 = 91  |
|            |           |                 |                     |                  |              |              |             | D49 = 115   | D49 = 102 |
| OP-LGZ215D | N8        | 8800            | 1,6                 | 2×450            | 14           | 1 1/8"       | 5/8"        | D20 = 159   | D20 = 154 |
|            |           |                 |                     |                  |              |              |             | D49 = 171   | D49 = 156 |
| OP-LGZ271D | N8        | 8800            | 1,6                 | 2×450            | 14           | 1 1/8"       | 5/8"        | D20 = 159   | D20 = 154 |
|            |           |                 |                     |                  |              |              |             | D49 = 171   | D49 = 156 |

### Condensing unit R22 (MBP)

| Fan                                                                                 | Model                                                                               | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                                                                     |                                                                                     | D20                  | D39      | D49      |                 |            |                          | -20°C                                                         |       | -15°C |       | -10°C |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |       |      |
|                                                                                     |                                                                                     |                      |          |          |                 |            |                          | CC                                                            | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    |      |
|    | OP-HJM019                                                                           | 115F0001             | 115F0127 | 115F0227 | N               | MT019      | 32                       | 1075                                                          | 1155  | 1498  | 1291  | 2010  | 1425  | 2618  | 1553  | 3324  | 1675  | 4130  | 1791  | 5034  | 1900  |      |
|                                                                                     |                                                                                     | 115F0002             | 115F0128 | 115F0228 | Q               |            | 35                       | 1008                                                          | 1172  | 1415  | 1313  | 1907  | 1452  | 2490  | 1586  | 3168  | 1716  | 3942  | 1840  | 4812  | 1959  |      |
|                                                                                     |                                                                                     | 115F0004             | 115F0129 | 115F0229 | V               |            | 38                       | 944                                                           | 1188  | 1333  | 1333  | 1803  | 1478  | 2361  | 1619  | 3011  | 1757  | 3752  | 1890  | 4586  | 2018  |      |
|                                                                                     | OP-HJM022                                                                           | 115F0006             | 115F0131 | 115F0230 | N               | MT022      | 43                       | 843                                                           | 1210  | 1200  | 1365  | 1631  | 1519  | 2145  | 1673  | 2744  | 1824  | 3430  | 1972  | 4202  | 2117  |      |
|                                                                                     |                                                                                     | 115F0007             | 115F0132 | 115F0231 | Q               |            | 32                       | 1569                                                          | 1384  | 2160  | 1590  | 2832  | 1792  | 3586  | 1989  | 4421  | 2179  | 5334  | 2360  | 6321  | 2532  |      |
|                                                                                     |                                                                                     | 115F0009             | 115F0133 | 115F0232 | V               |            | 35                       | 1451                                                          | 1402  | 2026  | 1612  | 2678  | 1821  | 3408  | 2026  | 4215  | 2225  | 5097  | 2416  | 6051  | 2600  |      |
|                                                                                     | OP-HJM028                                                                           | 115F0011             | 115F0135 | 115F0233 | N               | MT028      | 38                       | 1333                                                          | 1415  | 1891  | 1630  | 2523  | 1846  | 3229  | 2059  | 4008  | 2268  | 4859  | 2470  | 5777  | 2666  |      |
|                                                                                     |                                                                                     | 115F0012             | 115F0136 | 115F0234 | Q               |            | 43                       | 1141                                                          | 1428  | 1669  | 1653  | 2263  | 1881  | 2926  | 2108  | 3657  | 2334  | 4454  | 2555  | 5314  | 2771  |      |
|                                                                                     |                                                                                     | 115F0014             | 115F0137 | 115F0235 | V               |            | 32                       | 2558                                                          | 2564  | 3363  | 2783  | 4269  | 2993  | 5279  | 3189  | 6395  | 3370  | 7616  | 3534  | 8943  | 3679  |      |
|                                                                                     | OP-HJM032                                                                           | 115F0016             | 115F0139 | 115F0236 | N               | MT032      | 35                       | 2414                                                          | 2580  | 3202  | 2810  | 4086  | 3034  | 5071  | 3247  | 6156  | 3449  | 7344  | 3635  | 8632  | 3806  |      |
|                                                                                     |                                                                                     | 115F0017             | 115F0140 | 115F0237 | Q               |            | 38                       | 2269                                                          | 2593  | 3038  | 2834  | 3900  | 3072  | 4857  | 3304  | 5912  | 3526  | 7064  | 3736  | 8313  | 3934  |      |
|                                                                                     |                                                                                     | 115F0019             | 115F0141 | 115F0238 | V               |            | 43                       | 2025                                                          | 2604  | 2761  | 2867  | 3581  | 3132  | 4492  | 3394  | 5492  | 3653  | 6584  | 3905  | 7765  | 4149  |      |
| OP-HJM036                                                                           | 115F0021                                                                            | 115F0143             | 115F0239 | N        | MT036           | 32         | 2691                     | 2847                                                          | 3531  | 3101  | 4494  | 3351  | 5584  | 3596  | 6806  | 3834  | 8159  | 4065  | 9643  | 4290  |       |      |
|                                                                                     | 115F0022                                                                            | 115F0144             | 115F0240 | Q        |                 | 35         | 2524                     | 2873                                                          | 3345  | 3136  | 4284  | 3399  | 5347  | 3660  | 6535  | 3917  | 7850  | 4170  | 9291  | 4419  |       |      |
|                                                                                     | 115F0024                                                                            | 115F0145             | 115F0241 | V        |                 | 38         | 2363                     | 2895                                                          | 3164  | 3170  | 4079  | 3447  | 5112  | 3725  | 6266  | 4001  | 7542  | 4276  | 8939  | 4550  |       |      |
| OP-HJM040                                                                           | 115F0026                                                                            | 115F0147             | 115F0242 | N        | MT040           | 43         | 2113                     | 2927                                                          | 2879  | 3222  | 3748  | 3524  | 4729  | 3831  | 5824  | 4141  | 7032  | 4454  | 8353  | 4771  |       |      |
|                                                                                     | 115F0027                                                                            | 115F0148             | 115F0243 | Q        |                 | 32         | 3277                     | 3081                                                          | 4247  | 3358  | 5324  | 3642  | 6508  | 3934  | 7796  | 4234  | 9185  | 4542  | 10670 | 4861  |       |      |
|                                                                                     | 115F0028                                                                            | 115F0149             | 115F0244 | V        |                 | 35         | 3085                     | 3122                                                          | 4034  | 3409  | 5087  | 3707  | 6241  | 4015  | 7495  | 4333  | 8844  | 4663  | 10280 | 5006  |       |      |
| OP-HJM044                                                                           | 115F0030                                                                            | 115F0151             | 115F0245 | N        | MT044           | 38         | 2891                     | 3162                                                          | 3820  | 3460  | 4846  | 3772  | 5970  | 4097  | 7188  | 4434  | 8497  | 4786  | 9892  | 5153  |       |      |
|                                                                                     | 115F0031                                                                            | 115F0152             | 115F0246 | Q        |                 | 43         | 2569                     | 3225                                                          | 3459  | 3543  | 4438  | 3880  | 5508  | 4233  | 6665  | 4604  | 7905  | 4993  | 9223  | 5402  |       |      |
|                                                                                     | 115F0032                                                                            | 115F0153             | 115F0247 | V        |                 | 32         | 3692                     | 3222                                                          | 4791  | 3573  | 6032  | 3912  | 7421  | 4232  | 8967  | 4526  | 10670 | 4790  | 12550 | 5020  |       |      |
| OP-HJM050                                                                           | 115F0034                                                                            | 115F0155             | 115F0248 | N        | MT050           | 35         | 3466                     | 3286                                                          | 4553  | 3650  | 5779  | 4006  | 7150  | 4346  | 8675  | 4664  | 10360 | 4957  | 12210 | 5220  |       |      |
|                                                                                     | 115F0035                                                                            | 115F0156             | 115F0249 | Q        |                 | 38         | 3239                     | 3343                                                          | 4314  | 3720  | 5524  | 4093  | 6877  | 4455  | 8380  | 4799  | 10040 | 5121  | 11860 | 5417  |       |      |
|                                                                                     | 115F0036                                                                            | 115F0157             | 115F0250 | V        |                 | 43         | 2865                     | 3419                                                          | 3917  | 3822  | 5096  | 4226  | 6417  | 4624  | 7882  | 5012  | 9597  | 5384  | 11270 | 5738  |       |      |
| OP-HJM056                                                                           | 115F0038                                                                            | 115F0159             | 115F0251 | N        | MT056           | 32         | 3346                     | 3191                                                          | 4556  | 3483  | 5958  | 3760  | 7555  | 4029  | 9348  | 4296  | 11330 | 4568  | 13510 | 4852  |       |      |
|                                                                                     | 115F0039                                                                            | 115F0160             | 115F0252 | Q        |                 | 35         | 3158                     | 3229                                                          | 4332  | 3545  | 5689  | 3845  | 7232  | 4134  | 8964  | 4421  | 10880 | 4712  | 12980 | 5012  |       |      |
|                                                                                     | 115F0040                                                                            | 115F0161             | 115F0253 | V        |                 | 38         | 2970                     | 3257                                                          | 4107  | 3599  | 5418  | 3922  | 6908  | 4234  | 8580  | 4542  | 10430 | 4852  | 12460 | 5170  |       |      |
| OP-HJM064                                                                           | 115F0042                                                                            | 115F0163             | 115F0254 | N        | MT064           | 43         | 2659                     | 3280                                                          | 3734  | 3666  | 4965  | 4033  | 6366  | 4385  | 7936  | 4730  | 9676  | 5075  | 11580 | 5427  |       |      |
|                                                                                     | 115F0043                                                                            | 115F0164             | 115F0255 | Q        |                 | 32         | 4011                     | 3610                                                          | 5315  | 3942  | 6824  | 4263  | 8541  | 4580  | 10460 | 4902  | 12590 | 5235  | 14910 | 5586  |       |      |
|                                                                                     | 115F0044                                                                            | 115F0165             | 115F0256 | V        |                 | 35         | 3819                     | 3671                                                          | 5080  | 4029  | 6536  | 4375  | 8192  | 4716  | 10050 | 5059  | 12100 | 5413  | 14330 | 5783  |       |      |
|  | OP-HGM072                                                                           | 115F0046             | 115F0167 | 115F0257 | Q               | MT072      | 38                       | 3628                                                          | 3721  | 4847  | 4107  | 6251  | 4480  | 7846  | 4845  | 9632  | 5213  | 11610 | 5588  | 13760 | 5979  |      |
|                                                                                     |                                                                                     | 115F0047             | 115F0168 | 115F0258 | V               |            | 43                       | 3317                                                          | 3778  | 4466  | 4215  | 5781  | 4635  | 7276  | 5046  | 8950  | 5455  | 10800 | 5870  | 12820 | 6297  |      |
|                                                                                     |                                                                                     | 115F0049             | 115F0169 | 115F0259 | N               |            | 32                       | 4576                                                          | 3930  | 6032  | 4308  | 7691  | 4684  | 9554  | 5064  | 11620 | 5456  | 13880 | 5866  | 16320 | 6302  |      |
|                                                                                     | OP-HGM080                                                                           | 115F0038             | 115F0159 | 115F0251 | N               | MT056      | 35                       | 4325                                                          | 3977  | 5738  | 4381  | 7344  | 4782  | 9147  | 5186  | 11140 | 5601  | 13330 | 6033  | 15700 | 6491  |      |
|                                                                                     |                                                                                     | 115F0039             | 115F0160 | 115F0252 | Q               |            | 38                       | 4078                                                          | 4015  | 5447  | 4447  | 7002  | 4874  | 8744  | 5303  | 10670 | 5742  | 12790 | 6198  | 15080 | 6678  |      |
|                                                                                     |                                                                                     | 115F0040             | 115F0161 | 115F0253 | V               |            | 43                       | 3678                                                          | 4057  | 4975  | 4537  | 6441  | 5011  | 8085  | 5485  | 9904  | 5967  | 11900 | 6464  | 14050 | 6983  |      |
|                                                                                     | OP-HJM064                                                                           | 115F0042             | 115F0163 | 115F0254 | N               | MT064      | 32                       | 5198                                                          | 4365  | 6743  | 4770  | 8538  | 5194  | 10580 | 5644  | 12860 | 6125  | 15360 | 6643  | 18080 | 7203  |      |
|                                                                                     |                                                                                     | 115F0043             | 115F0164 | 115F0255 | Q               |            | 35                       | 4988                                                          | 4450  | 6474  | 4875  | 8200  | 5320  | 10160 | 5791  | 12360 | 6291  | 14770 | 6829  | 17390 | 7408  |      |
|                                                                                     |                                                                                     | 115F0044             | 115F0165 | 115F0256 | V               |            | 38                       | 4783                                                          | 4530  | 6207  | 4977  | 7862  | 5444  | 9746  | 5935  | 11850 | 6456  | 14170 | 7013  | 16690 | 7612  |      |
|                                                                                     |  | OP-HGM072            | 115F0046 | 115F0167 | 115F0257        | Q          | MT072                    | 43                                                            | 4455  | 4649  | 5771  | 5134  | 7303  | 5637  | 9052  | 6165  | 11010 | 6721  | 13170 | 7311  | 15520 | 7942 |
|                                                                                     |                                                                                     |                      | 115F0047 | 115F0168 | 115F0258        | V          |                          | 32                                                            | 6138  | 5564  | 7986  | 6083  | 10140 | 6607  | 12600 | 7142  | 15370 | 7692  | 18460 | 8262  | 21840 | 8860 |
|                                                                                     |                                                                                     |                      | 115F0049 | 115F0169 | 115F0259        | N          |                          | 35                                                            | 5844  | 5638  | 7631  | 6183  | 9711  | 6734  | 12090 | 7296  | 14780 | 7873  | 17760 | 8472  | 21040 | 9096 |
| OP-HGM080                                                                           |                                                                                     | 115F0046             | 115F0167 | 115F0257 | Q               | MT072      | 38                       | 5554                                                          | 5707  | 7278  | 6279  | 9285  | 6857  | 11580 | 7446  | 14180 | 8051  | 17060 | 8677  | 20240 | 9330  |      |
|                                                                                     |                                                                                     | 115F0047             | 115F0168 | 115F0258 | V               |            | 43                       | 5090                                                          | 5805  | 6704  | 6423  | 8581  | 7049  | 10740 | 7685  | 13180 | 8337  | 15890 | 9010  | 18890 | 9709  |      |
|                                                                                     |                                                                                     | 115F0049             | 115F0170 | 115F0259 | N               |            | 32                       | 6959                                                          | 6174  | 9032  | 6748  | 11410 | 7346  | 14110 | 7981  | 17120 | 8662  | 20440 | 9401  | 24040 | 10210 |      |
| OP-HGM100                                                                           |                                                                                     | 115F0049             | 115F0170 | 115F0259 | Q               | MT080      | 35                       | 6651                                                          | 6266  | 8663  | 6871  | 10970 | 7501  | 13580 | 8167  | 16500 | 8880  | 19700 | 9650  | 23190 | 10490 |      |
|                                                                                     |                                                                                     | 115F0050             | 115F0171 | 115F0260 | V               |            | 38                       | 6337                                                          | 6346  | 8289  | 6986  | 10520 | 7650  | 13050 | 8349  | 15860 | 9095  | 18960 | 9899  | 22330 | 10770 |      |
|                                                                                     |                                                                                     | 115F0052             | 115F0173 | 115F0261 | N               |            | 43                       | 5812                                                          | 6448  | 7660  | 7151  | 9767  | 7877  | 12150 | 8638  | 14800 | 9443  | 17710 | 10310 | 20880 | 11240 |      |
| OP-HGM100                                                                           |                                                                                     | 115F0052             | 115F0173 | 115F0261 | Q               | MT100      | 32                       | 7594                                                          | 7264  | 9859  | 7947  | 12480 | 8627  | 15480 | 9300  | 18850 | 9969  | 22580 | 10640 | 26660 | 11330 |      |
|                                                                                     |                                                                                     | 115F0053             | 115F0174 | 115F0262 | V               |            | 35                       | 7078                                                          | 7318  | 9287  | 8032  | 11840 | 8751  | 14750 | 9471  | 18020 | 10200 | 21630 | 10930 | 25580 | 11690 |      |
|                                                                                     |                                                                                     | 115F0055             | 115F0176 | 115F0263 | N               |            | 38                       | 6593                                                          | 7368  | 8742  | 8115  | 11220 | 8875  | 14040 | 9645  | 17200 | 10430 | 20700 | 11230 | 24520 | 12060 |      |
| OP-HGM125                                                                           | 115F0055                                                                            | 115F0176             | 115F0263 | Q        | MT125           | 43         | 5869                     | 7441                                                          | 7909  | 8250  | 10250 | 9085  | 12910 | 9943  | 15890 | 10830 | 19180 | 11740 | 22770 | 12700 |       |      |
|                                                                                     | 115F0056                                                                            | 115F0177             | 115F0264 | V        |                 | 32         | 10570                    | 8995                                                          | 13670 | 9837  | 17250 | 10690 | 21320 | 11560 | 25910 | 12440 | 30980 | 13330 | 36540 | 14240 |       |      |
|                                                                                     | 115F0058                                                                            | 115F0179             | 115F0265 | N        |                 | 35         | 10000                    | 9164                                                          | 13000 | 10040 | 16470 | 10930 | 20400 | 11840 | 24820 | 12770 | 29720 | 13720 | 35070 | 14700 |       |      |
| OP-HGM144                                                                           | 115F0058                                                                            | 115F0179             | 115F0265 | Q        | MT144           | 38         | 9456                     | 9317                                                          | 12360 | 10220 | 15690 | 11150 | 19490 | 12110 | 23740 | 13090 | 28440 | 14100 | 33590 | 15150 |       |      |
|                                                                                     | 115F0059                                                                            | 115F0180             | 115F0266 | V        |                 | 43         | 8603                     | 9537                                                          | 11320 | 10500 | 14430 | 11500 | 17970 | 12540 | 21930 | 13620 | 26310 | 14730 | 33100 | 15890 |       |      |
|                                                                                     | 115F0058                                                                            | 115F0179             | 115F0265 | N        |                 | 32         | 11900                    | 9926                                                          | 15300 | 10880 | 19220 | 11860 | 23680 | 12870 | 28670 | 13900 | 34180 | 14980 | 40180 | 16100 |       |      |
| OP-HGM160                                                                           | 115F0058                                                                            | 115F0179             | 115F0265 | Q        | MT144           | 35         | 11250                    | 10100                                                         | 14530 |       |       |       |       |       |       |       |       |       |       |       |       |      |

| Fan                                                                               | Model     | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-----------------------------------------------------------------------------------|-----------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                                                                   |           | D20                  | D39      | D49      |                 |            |                          | -20°C                                                         |       | -15°C |       | -10°C |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |      |
|                                                                                   |           |                      |          |          |                 |            |                          | CC                                                            | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC   |
|  | OP-HJM019 | 115F0001             | 115F0127 | 115F0227 | N               | MT019      | 32                       | 1371                                                          | 1570  | 1869  | 1726  | 2437  | 1862  | 3077  | 1986  | 3786  | 2100  | 4561  | 2209  | 5399  | 2316 |
|                                                                                   |           | 115F0002             | 115F0128 | 115F0228 | Q               |            | 35                       | 1268                                                          | 1570  | 1745  | 1738  | 2289  | 1888  | 2901  | 2024  | 3579  | 2147  | 4321  | 2265  | 5125  | 2380 |
|                                                                                   |           | 115F0004             | 115F0129 | 115F0229 | V               |            | 38                       | 1163                                                          | 1565  | 1620  | 1747  | 2138  | 1911  | 2722  | 2057  | 3369  | 2192  | 4079  | 2320  | 4848  | 2443 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 988                                                           | 1545  | 1407  | 1752  | 1883  | 1937  | 2419  | 2104  | 3015  | 2257  | 3669  | 2400  | 4382  | 2536 |
|                                                                                   | OP-HJM022 | 115F0006             | 115F0131 | 115F0230 | N               | MT022      | 32                       | 1935                                                          | 1734  | 2518  | 1917  | 3179  | 2102  | 3917  | 2291  | 4726  | 2488  | 5599  | 2694  | 6527  | 2913 |
|                                                                                   |           | 115F0007             | 115F0132 | 115F0231 | Q               |            | 35                       | 1819                                                          | 1756  | 2373  | 1949  | 3003  | 2144  | 3704  | 2343  | 4471  | 2549  | 5299  | 2764  | 6182  | 2991 |
|                                                                                   |           | 115F0009             | 115F0133 | 115F0232 | V               |            | 38                       | 1697                                                          | 1773  | 2223  | 1977  | 2819  | 2182  | 3482  | 2391  | 4208  | 2607  | 4994  | 2830  | 5831  | 3066 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1483                                                          | 1788  | 1960  | 2011  | 2499  | 2233  | 3099  | 2458  | 3757  | 2689  | 4471  | 2926  | 5237  | 3174 |
|                                                                                   | OP-HJM028 | 115F0011             | 115F0135 | 115F0233 | N               | MT028      | 32                       | 2733                                                          | 2772  | 3490  | 2995  | 4350  | 3213  | 5314  | 3428  | 6383  | 3644  | 7550  | 3861  | 8814  | 4085 |
|                                                                                   |           | 115F0012             | 115F0136 | 115F0234 | Q               |            | 35                       | 2584                                                          | 2803  | 3311  | 3040  | 4134  | 3273  | 5058  | 3503  | 6079  | 3731  | 7195  | 3963  | 8405  | 4199 |
|                                                                                   |           | 115F0014             | 115F0137 | 115F0235 | V               |            | 38                       | 2429                                                          | 2829  | 3125  | 3082  | 3912  | 3329  | 4794  | 3573  | 5768  | 3816  | 6833  | 4062  | 7988  | 4311 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 2163                                                          | 2861  | 2805  | 3139  | 3528  | 3411  | 4337  | 3678  | 5232  | 3944  | 6213  | 4210  | 7279  | 4481 |
| OP-HJM032                                                                         | 115F0016  | 115F0139             | 115F0236 | N        | MT032           | 32         | 2915                     | 2927                                                          | 3747  | 3207  | 4699  | 3484  | 5765  | 3758  | 6942  | 4028  | 8222  | 4292  | 9599  | 4548  |      |
|                                                                                   | 115F0017  | 115F0140             | 115F0237 | Q        |                 | 35         | 2755                     | 2964                                                          | 3547  | 3257  | 4451  | 3548  | 5463  | 3836  | 6580  | 4118  | 7796  | 4396  | 9107  | 4663  |      |
|                                                                                   | 115F0019  | 115F0141             | 115F0238 | V        |                 | 38         | 2594                     | 2997                                                          | 3346  | 3304  | 4202  | 3608  | 5160  | 3910  | 6217  | 4206  | 7372  | 4495  | 8616  | 4775  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 2321                     | 3038                                                          | 3007  | 3367  | 3784  | 3693  | 4653  | 4015  | 5613  | 4331  | 6664  | 4638  | 7801  | 4936  |      |
| OP-HJM036                                                                         | 115F0021  | 115F0143             | 115F0239 | N        | MT036           | 32         | 3292                     | 3162                                                          | 4243  | 3488  | 5318  | 3828  | 6513  | 4187  | 7821  | 4567  | 9234  | 4973  | 10742 | 5407  |      |
|                                                                                   | 115F0022  | 115F0144             | 115F0240 | Q        |                 | 35         | 3082                     | 3184                                                          | 3991  | 3523  | 5016  | 3879  | 6157  | 4253  | 7405  | 4650  | 8755  | 5073  | 10197 | 5525  |      |
|                                                                                   | 115F0024  | 115F0145             | 115F0241 | V        |                 | 38         | 2873                     | 3204                                                          | 3738  | 3556  | 4715  | 3927  | 5800  | 4317  | 6989  | 4730  | 8276  | 5170  | 9653  | 5640  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 2525                     | 3229                                                          | 3319  | 3605  | 4213  | 3999  | 5207  | 4413  | 6297  | 4852  | 7481  | 5316  | 8754  | 5810  |      |
| OP-HJM040                                                                         | 115F0026  | 115F0147             | 115F0242 | N        | MT040           | 32         | 3937                     | 3450                                                          | 5094  | 3785  | 6414  | 4131  | 7902  | 4496  | 9554  | 4881  | 11365 | 5295  | 13325 | 5740  |      |
|                                                                                   | 115F0027  | 115F0148             | 115F0243 | Q        |                 | 35         | 3697                     | 3484                                                          | 4802  | 3835  | 6065  | 4199  | 7485  | 4580  | 9064  | 4983  | 10801 | 5413  | 12682 | 5903  |      |
|                                                                                   | 115F0028  | 115F0149             | 115F0244 | V        |                 | 38         | 3458                     | 3517                                                          | 4511  | 3886  | 5714  | 4267  | 7069  | 4665  | 8575  | 5087  | 10227 | 5534  | 12029 | 6015  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 3064                     | 3566                                                          | 4030  | 3964  | 5132  | 4374  | 6374  | 4801  | 7758  | 5249  | 9282  | 5724  | 10940 | 6230  |      |
| OP-HJM044                                                                         | 115F0030  | 115F0151             | 115F0245 | N        | MT044           | 32         | 4157                     | 3634                                                          | 5416  | 3973  | 6851  | 4299  | 8465  | 4613  | 10256 | 4923  | 12227 | 5232  | 14355 | 5546  |      |
|                                                                                   | 115F0031  | 115F0152             | 115F0246 | Q        |                 | 35         | 3853                     | 3643                                                          | 5058  | 4007  | 6431  | 4356  | 7975  | 4695  | 9691  | 5028  | 11573 | 5360  | 13622 | 5696  |      |
|                                                                                   | 115F0032  | 115F0153             | 115F0247 | V        |                 | 38         | 3547                     | 3641                                                          | 4698  | 4030  | 6007  | 4404  | 7481  | 4767  | 9120  | 5124  | 10920 | 5480  | 12880 | 5838  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 3038                     | 3614                                                          | 4094  | 4043  | 5297  | 4458  | 6652  | 4861  | 8162  | 5257  | 9826  | 5649  | 11642 | 6042  |      |
| OP-HJM050                                                                         | 115F0034  | 115F0155             | 115F0248 | N        | MT050           | 32         | 4802                     | 4055                                                          | 6172  | 4421  | 7734  | 4779  | 9491  | 5133  | 11435 | 5493  | 13573 | 5862  | 15890 | 6248  |      |
|                                                                                   | 115F0035  | 115F0156             | 115F0249 | Q        |                 | 35         | 4488                     | 4088                                                          | 5804  | 4482  | 7303  | 4866  | 8987  | 5246  | 10860 | 5630  | 12910 | 6024  | 15127 | 6434  |      |
|                                                                                   | 115F0036  | 115F0157             | 115F0250 | V        |                 | 38         | 4168                     | 4109                                                          | 5429  | 4531  | 6862  | 4943  | 8472  | 5351  | 10256 | 5761  | 12227 | 6180  | 14355 | 6613  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 3627                     | 4118                                                          | 4790  | 4589  | 6111  | 5047  | 7597  | 5498  | 9251  | 5950  | 11068 | 6407  | 13058 | 6877  |      |
| OP-HJM056                                                                         | 115F0038  | 115F0159             | 115F0251 | N        | MT056           | 32         | 5383                     | 4453                                                          | 6915  | 4903  | 8636  | 5345  | 10544 | 5787  | 12613 | 6240  | 14850 | 6712  | 17226 | 7214  |      |
|                                                                                   | 115F0039  | 115F0160             | 115F0252 | Q        |                 | 35         | 5007                     | 4476                                                          | 6476  | 4955  | 8122  | 5421  | 9940  | 5885  | 11930 | 6356  | 14068 | 6844  | 16355 | 7359  |      |
|                                                                                   | 115F0040  | 115F0161             | 115F0253 | V        |                 | 38         | 4631                     | 4485                                                          | 6033  | 4996  | 7605  | 5489  | 9844  | 5976  | 11246 | 6468  | 13286 | 6973  | 15474 | 7502  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 4004                     | 4469                                                          | 5294  | 5034  | 6738  | 5576  | 8338  | 6104  | 10088 | 6630  | 11979 | 7164  | 14018 | 7715  |      |
| OP-HJM064                                                                         | 115F0042  | 115F0163             | 115F0254 | N        | MT064           | 32         | 5920                     | 4942                                                          | 7539  | 5467  | 9356  | 5991  | 11365 | 6524  | 13543 | 7075  | 15890 | 7653  | 18374 | 8267  |      |
|                                                                                   | 115F0043  | 115F0164             | 115F0255 | Q        |                 | 35         | 5530                     | 4970                                                          | 7076  | 5524  | 8808  | 6074  | 10722 | 6629  | 12801 | 7201  | 15038 | 7797  | 17424 | 8427  |      |
|                                                                                   | 115F0044  | 115F0165             | 115F0256 | V        |                 | 38         | 5137                     | 4985                                                          | 6608  | 5569  | 8256  | 6146  | 10078 | 6727  | 12058 | 7320  | 14197 | 7936  | 16464 | 8582  |      |
|                                                                                   |           |                      |          |          |                 | 43         | 4480                     | 4977                                                          | 5826  | 5614  | 7330  | 6238  | 8993  | 6860  | 10811 | 7488  | 12771 | 8134  | 14880 | 8805  |      |
| OP-HGM072                                                                         | 115F0046  | 115F0167             | 115F0257 | N        | MT072           | 32         | 6995                     | 6456                                                          | 8912  | 7022  | 11098 | 7581  | 13533 | 8139  | 16236 | 8703  | 19186 | 9279  | 22364 | 9875  |      |
|                                                                                   | 115F0047  | 115F0168             | 115F0258 | Q        |                 | 35         | 6541                     | 6500                                                          | 8369  | 7097  | 10454 | 7686  | 12781 | 8273  | 15365 | 8865  | 18176 | 9467  | 21226 | 10088 |      |
|                                                                                   |           |                      |          | V        |                 | 38         | 6088                     | 6532                                                          | 7826  | 7161  | 9804  | 7780  | 12029 | 8397  | 14484 | 9017  | 17177 | 9647  | 20087 | 10296 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 5336                     | 6555                                                          | 6921  | 7237  | 8726  | 7907  | 10751 | 8571  | 13009 | 9236  | 15494 | 9910  | 18186 | 10583 |      |
| OP-HGM080                                                                         | 115F0049  | 115F0170             | 115F0259 | N        | MT080           | 32         | 7909                     | 7279                                                          | 9940  | 8005  | 12227 | 8731  | 14781 | 9465  | 17582 | 10217 | 20622 | 10989 | 23879 | 11801 |      |
|                                                                                   | 115F0050  | 115F0171             | 115F0260 | Q        |                 | 35         | 7435                     | 7360                                                          | 9370  | 8119  | 11553 | 8873  | 13989 | 9633  | 16662 | 10405 | 19562 | 11197 | 22681 | 12029 |      |
|                                                                                   |           |                      |          | V        |                 | 38         | 6958                     | 7423                                                          | 8798  | 8217  | 10870 | 9002  | 13187 | 9788  | 15731 | 10583 | 18503 | 11395 | 21483 | 12236 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 6158                     | 7487                                                          | 7834  | 8339  | 9726  | 9175  | 11840 | 10009 | 14167 | 10841 | 16711 | 11682 | 19473 | 12543 |      |
| OP-HGM100                                                                         | 115F0052  | 115F0173             | 115F0261 | N        | MT100           | 32         | 8610                     | 8197                                                          | 10959 | 8957  | 13583 | 9702  | 16474 | 10454 | 19602 | 11217 | 22948 | 12019 | 26492 | 12870 |      |
|                                                                                   | 115F0053  | 115F0174             | 115F0262 | Q        |                 | 35         | 8007                     | 8227                                                          | 10247 | 9034  | 12751 | 9826  | 15503 | 10613 | 18483 | 11425 | 21681 | 12266 | 25067 | 13147 |      |
|                                                                                   |           |                      |          | V        |                 | 38         | 7409                     | 8239                                                          | 9541  | 9095  | 11920 | 9930  | 14533 | 10771 | 17365 | 11623 | 20414 | 12494 | 23651 | 13415 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 6423                     | 8220                                                          | 8367  | 9160  | 10534 | 10078 | 12920 | 10989 | 15513 | 11900 | 18315 | 12840 | 21305 | 13811 |      |
| OP-HGM125                                                                         | 115F0055  | 115F0176             | 115F0263 | N        | MT125           | 32         | 12009                    | 10207                                                         | 15028 | 11128 | 18444 | 12048 | 22255 | 12989 | 26453 | 13959 | 31027 | 14959 | 35967 | 16008 |      |
|                                                                                   | 115F0056  | 115F0177             | 115F0264 | Q        |                 | 35         | 11256                    | 10306                                                         | 14147 | 11276 | 17414 | 12266 | 21047 | 13266 | 25067 | 14296 | 29443 | 15365 | 34175 | 16474 |      |
|                                                                                   |           |                      |          | V        |                 | 38         | 10494                    | 10385                                                         | 13256 | 11415 | 16365 | 12464 | 19840 | 13523 | 23671 | 14612 | 27849 | 15741 | 32373 | 16909 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 9221                     | 10454                                                         | 11751 | 11583 | 14612 | 12722 | 17800 | 13880 | 21325 | 15068 | 25186 | 16276 | 29373 | 17533 |      |
| OP-HGM144                                                                         | 115F0058  | 115F0179             | 115F0265 | N        | MT144           | 32         | 13919                    | 11494                                                         | 17285 | 12543 | 21077 | 13642 | 25275 | 14801 | 29878 | 16048 | 34858 | 17404 | 40174 | 18899 |      |
|                                                                                   | 115F0059  | 115F0180             | 115F0266 | Q        |                 | 35         | 13058                    | 11603                                                         | 16276 | 12722 | 19889 | 13870 | 23909 | 15078 | 28304 | 16365 | 33056 | 17771 | 38145 | 19295 |      |
|                                                                                   |           |                      |          | V        |                 | 38         | 12187                    | 11702                                                         | 15256 | 12870 | 18691 | 14078 | 22513 | 15335 | 26700 | 16682 | 31244 | 18127 | 36115 | 19701 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 10742                    | 11791                                                         | 13533 | 13068 | 16682 | 14375 | 20176 | 15721 | 24017 | 17147 | 28205 | 18652 | 32710 | 20295 |      |
| OP-HGM160                                                                         | 115F0061  | 115F0182             | 115F0267 | N        | MT160           | 32         | 14999                    | 12652                                                         | 18473 | 13929 | 22414 | 15296 | 26760 | 16761 | 31492 | 18345 | 36590 | 20067 | 42016 | 21938 |      |



| Fan                                                                                                                                                                        | Model     | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |       |       |       |       |       |       |       |       |       |       |       |       |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                                                                                                                                                            |           | D20                  | D39      | D49      |                 |            |                          | -10°C                                                         |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |       | 15°C  |       | 20°C  |      |
|                                                                                                                                                                            |           |                      |          |          |                 |            |                          | CC                                                            | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC   |
|                                                                                           | OP-HJZ019 | 115F0064             | 115F0269 | 115F0369 | N               | MTZ019     | 32                       | 1469                                                          | 1067  | 1900  | 1143  | 2424  | 1217  | 3049  | 1289  | 3781  | 1362  | 4621  | 1441  | 5571  | 1530 |
|                                                                                                                                                                            |           | 115F0065             | 115F0270 | 115F0370 | Q               |            | 35                       | 1382                                                          | 1085  | 1800  | 1168  | 2310  | 1249  | 2918  | 1331  | 3629  | 1415  | 4446  | 1506  | 5369  | 1609 |
|                                                                                                                                                                            |           | 115F0067             | 115F0271 | 115F0371 | V               |            | 38                       | 1294                                                          | 1098  | 1700  | 1188  | 2195  | 1277  | 2784  | 1369  | 3474  | 1465  | 4267  | 1569  | 5164  | 1686 |
|                                                                                                                                                                            |           |                      |          |          |                 |            | 43                       | 1149                                                          | 1107  | 1532  | 1209  | 1999  | 1313  | 2557  | 1422  | 3211  | 1537  | 3963  | 1662  | 4814  | 1802 |
|                                                                                                                                                                            | OP-HJZ022 | 115F0069             | 115F0273 | 115F0372 | N               | MTZ022     | 32                       | 1758                                                          | 1222  | 2309  | 1328  | 2952  | 1430  | 3688  | 1528  | 4516  | 1621  | 5432  | 1711  | 6432  | 1799 |
|                                                                                                                                                                            |           | 115F0070             | 115F0274 | 115F0373 | Q               |            | 35                       | 1664                                                          | 1240  | 2192  | 1351  | 2809  | 1459  | 3515  | 1564  | 4310  | 1665  | 5190  | 1765  | 6153  | 1863 |
|                                                                                                                                                                            |           | 115F0072             | 115F0275 | 115F0374 | V               |            | 38                       | 1569                                                          | 1256  | 2074  | 1372  | 2664  | 1487  | 3341  | 1599  | 4103  | 1709  | 4948  | 1819  | 5873  | 1928 |
|                                                                                                                                                                            |           |                      |          |          |                 |            | 43                       | 1409                                                          | 1276  | 1876  | 1402  | 2422  | 1528  | 3049  | 1654  | 3757  | 1779  | 4544  | 1904  | 5407  | 2030 |
|                                                                                                                                                                            | OP-HJZ028 | 115F0074             | 115F0277 | 115F0375 | N               | MTZ028     | 32                       | 2315                                                          | 2033  | 3003  | 2154  | 3830  | 2277  | 4806  | 2402  | 5938  | 2529  | 7231  | 2662  | 8686  | 2803 |
|                                                                                                                                                                            |           | 115F0075             | 115F0278 | 115F0376 | Q               |            | 35                       | 2202                                                          | 2061  | 2865  | 2189  | 3661  | 2319  | 4600  | 2452  | 5692  | 2590  | 6940  | 2734  | 8347  | 2887 |
|                                                                                                                                                                            |           | 115F0077             | 115F0279 | 115F0377 | V               |            | 38                       | 2087                                                          | 2088  | 2724  | 2222  | 3488  | 2360  | 4392  | 2503  | 5443  | 2651  | 6647  | 2806  | 8006  | 2973 |
|                                                                                                                                                                            |           |                      |          |          |                 |            | 43                       | 1889                                                          | 2129  | 2484  | 2275  | 3197  | 2427  | 4041  | 2585  | 5024  | 2750  | 6154  | 2925  | 7433  | 3112 |
| OP-HJZ032                                                                                                                                                                  | 115F0079  | 115F0281             | 115F0378 | N        | MTZ032          | 32         | 2614                     | 2318                                                          | 3405  | 2491  | 4351  | 2656  | 5464  | 2811  | 6750  | 2955  | 8213  | 3089  | 9854  | 3214  |      |
|                                                                                                                                                                            | 115F0080  | 115F0282             | 115F0379 | Q        |                 | 35         | 2482                     | 2345                                                          | 3243  | 2526  | 4154  | 2699  | 5227  | 2865  | 6468  | 3021  | 7883  | 3169  | 9471  | 3310  |      |
|                                                                                                                                                                            | 115F0082  | 115F0283             | 115F0380 | V        |                 | 38         | 2348                     | 2369                                                          | 3079  | 2558  | 3955  | 2741  | 4988  | 2918  | 6184  | 3087  | 7549  | 3249  | 9086  | 3406  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 2121                     | 2403                                                          | 2802  | 2606  | 3620  | 2806  | 4585  | 3002  | 5707  | 3192  | 6990  | 3378  | 8439  | 3561  |      |
| OP-HJZ036                                                                                                                                                                  | 115F0084  | 115F0285             | 115F0381 | N        | MTZ036          | 32         | 3306                     | 2534                                                          | 4212  | 2716  | 5250  | 2895  | 6423  | 3072  | 7728  | 3247  | 9162  | 3421  | 10720 | 3596  |      |
|                                                                                                                                                                            | 115F0085  | 115F0286             | 115F0382 | Q        |                 | 35         | 3168                     | 2576                                                          | 4046  | 2766  | 5050  | 2956  | 6182  | 3145  | 7442  | 3334  | 8826  | 3524  | 10330 | 3718  |      |
|                                                                                                                                                                            | 115F0087  | 115F0287             | 115F0383 | V        |                 | 38         | 3026                     | 2615                                                          | 3874  | 2814  | 4843  | 3015  | 5934  | 3217  | 7149  | 3420  | 8484  | 3627  | 9935  | 3839  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 2780                     | 2615                                                          | 3577  | 2813  | 4487  | 3013  | 5510  | 3214  | 6648  | 3417  | 7900  | 3622  | 9261  | 3832  |      |
| OP-HJZ040                                                                                                                                                                  | 115F0089  | 115F0289             | 115F0384 | N        | MTZ040          | 32         | 3629                     | 2650                                                          | 4593  | 2809  | 5730  | 2965  | 7055  | 3117  | 8580  | 3266  | 10310 | 3414  | 12260 | 3562  |      |
|                                                                                                                                                                            | 115F0090  | 115F0290             | 115F0385 | Q        |                 | 35         | 3468                     | 2710                                                          | 4402  | 2878  | 5505  | 3046  | 6792  | 3212  | 8273  | 3377  | 9958  | 3543  | 11850 | 3712  |      |
|                                                                                                                                                                            | 115F0091  | 115F0291             | 115F0386 | V        |                 | 38         | 3307                     | 2767                                                          | 4211  | 2946  | 5280  | 3125  | 6527  | 3306  | 7964  | 3487  | 9601  | 3672  | 11450 | 3862  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 3038                     | 2855                                                          | 3892  | 3052  | 4902  | 3253  | 6083  | 3458  | 7446  | 3668  | 9002  | 3883  | 10760 | 4108  |      |
| OP-HJZ044                                                                                                                                                                  | 115F0093  | 115F0293             | 115F0387 | N        | MTZ044          | 32         | 3780                     | 2728                                                          | 4916  | 2919  | 6269  | 3095  | 7852  | 3259  | 9674  | 3414  | 11740 | 3563  | 14050 | 3710  |      |
|                                                                                                                                                                            | 115F0094  | 115F0294             | 115F0388 | Q        |                 | 35         | 3569                     | 2759                                                          | 4660  | 2968  | 5962  | 3160  | 7487  | 3340  | 9246  | 3510  | 11250 | 3674  | 13490 | 3837  |      |
|                                                                                                                                                                            | 115F0095  | 115F0295             | 115F0389 | V        |                 | 38         | 3362                     | 2786                                                          | 4409  | 3012  | 5659  | 3222  | 7127  | 3419  | 8824  | 3605  | 10760 | 3786  | 12930 | 3963  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 3026                     | 2818                                                          | 4000  | 3077  | 5165  | 3317  | 6539  | 3543  | 8132  | 3757  | 9954  | 3964  | 12010 | 4167  |      |
| OP-HJZ050                                                                                                                                                                  | 115F0097  | 115F0297             | 115F0390 | N        | MTZ050          | 32         | 4284                     | 3114                                                          | 5590  | 3338  | 7135  | 3545  | 8932  | 3742  | 10990 | 3934  | 13300 | 4127  | 15870 | 4326  |      |
|                                                                                                                                                                            | 115F0098  | 115F0298             | 115F0391 | Q        |                 | 35         | 4041                     | 3148                                                          | 5292  | 3390  | 6776  | 3616  | 8505  | 3831  | 10490 | 4041  | 12720 | 4252  | 15220 | 4469  |      |
|                                                                                                                                                                            | 115F0099  | 115F0299             | 115F0392 | V        |                 | 38         | 3807                     | 3180                                                          | 5005  | 3442  | 6429  | 3687  | 8092  | 3921  | 10000 | 4150  | 12160 | 4379  | 14580 | 4615  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 3437                     | 3223                                                          | 4551  | 3521  | 5877  | 3801  | 7431  | 4068  | 9223  | 4329  | 11260 | 4589  | 13540 | 4856  |      |
| OP-HJZ056                                                                                                                                                                  | 115F0101  | 115F0301             | 115F0393 | N        | MTZ056          | 32         | 4494                     | 3245                                                          | 5856  | 3499  | 7496  | 3747  | 9434  | 3995  | 11690 | 4248  | 14260 | 4516  | 17170 | 4809  |      |
|                                                                                                                                                                            | 115F0102  | 115F0302             | 115F0394 | Q        |                 | 35         | 4234                     | 3263                                                          | 5546  | 3538  | 7131  | 3808  | 9008  | 4080  | 11200 | 4359  | 13700 | 4654  | 16530 | 4975  |      |
|                                                                                                                                                                            | 115F0103  | 115F0303             | 115F0395 | V        |                 | 38         | 3980                     | 3286                                                          | 5243  | 3582  | 6773  | 3875  | 8589  | 4171  | 10710 | 4475  | 13150 | 4797  | 15910 | 5146  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 3574                     | 3331                                                          | 4755  | 3661  | 6191  | 3992  | 7907  | 4326  | 9919  | 4671  | 12240 | 5033  | 14880 | 5423  |      |
| OP-HJZ064                                                                                                                                                                  | 115F0105  | 115F0305             | 115F0396 | N        | MTZ064          | 32         | 5498                     | 3589                                                          | 6741  | 3905  | 8582  | 4212  | 10710 | 4517  | 13140 | 4829  | 15860 | 5157  | 18870 | 5509  |      |
|                                                                                                                                                                            | 115F0106  | 115F0306             | 115F0397 | Q        |                 | 35         | 4906                     | 3625                                                          | 6412  | 3963  | 8190  | 4293  | 10250 | 4623  | 12600 | 4959  | 15240 | 5311  | 18170 | 5689  |      |
|                                                                                                                                                                            | 115F0107  | 115F0307             | 115F0398 | V        |                 | 38         | 4637                     | 3657                                                          | 6087  | 4019  | 7802  | 4373  | 9794  | 4727  | 12070 | 5088  | 14630 | 5466  | 17470 | 5870  |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 43         | 4198                     | 3701                                                          | 5556  | 4103  | 7165  | 4499  | 9040  | 4894  | 11190 | 5296  | 13610 | 5715  | 16310 | 6160  |      |
| <br> | OP-HGZ072 | 115F0109             | 115F0309 | 115F0399 | Q               | MTZ072     | 32                       | 6025                                                          | 4850  | 7816  | 5201  | 9952  | 5544  | 12460 | 5887  | 15360 | 6239  | 18650 | 6610  | 22340 | 7010 |
|                                                                                                                                                                            |           | 115F0110             | 115F0310 | 115F0400 | V               |            | 35                       | 5752                                                          | 4907  | 7486  | 5283  | 9557  | 5648  | 11990 | 6014  | 14800 | 6388  | 18000 | 6781  | 21590 | 7203 |
|                                                                                                                                                                            |           |                      |          |          |                 |            | 43                       | 5473                                                          | 4959  | 7151  | 5359  | 9154  | 5750  | 11510 | 6139  | 14230 | 6536  | 17330 | 6953  | 20820 | 7398 |
|                                                                                                                                                                            | OP-HGZ080 |                      |          |          |                 | MTZ080     | 43                       | 4999                                                          | 5027  | 6579  | 5474  | 8468  | 5908  | 10690 | 6340  | 13270 | 6778  | 16210 | 7233  | 19530 | 7717 |
|                                                                                                                                                                            |           | 115F0112             | 115F0312 | 115F0401 | Q               |            | 32                       | 7122                                                          | 5385  | 9095  | 5761  | 11420 | 6144  | 14130 | 6542  | 17220 | 6967  | 20700 | 7429  | 24580 | 7940 |
|                                                                                                                                                                            |           | 115F0113             | 115F0313 | 115F0402 | V               |            | 35                       | 6797                                                          | 5446  | 8706  | 5851  | 10960 | 6263  | 13570 | 6691  | 16570 | 7145  | 19950 | 7637  | 23710 | 8176 |
|                                                                                                                                                                            | OP-HGZ100 |                      |          |          |                 | MTZ100     | 38                       | 6470                                                          | 5510  | 8314  | 5944  | 10490 | 6385  | 13020 | 6843  | 15920 | 7326  | 19190 | 7846  | 22840 | 8414 |
|                                                                                                                                                                            |           | 115F0115             | 115F0315 | 115F0403 | Q               |            | 43                       | 5921                                                          | 5509  | 7656  | 5942  | 9704  | 6382  | 12090 | 6838  | 14830 | 7319  | 17930 | 7836  | 21390 | 8400 |
|                                                                                                                                                                            |           | 115F0116             | 115F0316 | 115F0404 | V               |            | 32                       | 8011                                                          | 5971  | 10380 | 6423  | 13140 | 6865  | 16280 | 7298  | 19810 | 7725  | 23710 | 8154  | 27960 | 8596 |
|                                                                                                                                                                            |           |                      |          |          |                 |            | 35                       | 7614                                                          | 6058  | 9899  | 6534  | 12560 | 7004  | 15590 | 7470  | 18990 | 7935  | 22760 | 8408  | 26870 | 8899 |
|                                                                                                                                                                            | OP-HGZ125 |                      |          |          |                 | MTZ125     | 38                       | 7216                                                          | 6138  | 9414  | 6638  | 11970 | 7138  | 14890 | 7639  | 18170 | 8144  | 21800 | 8662  | 25770 | 9203 |
|                                                                                                                                                                            |           | 115F0118             | 115F0318 | 115F0405 | Q               |            | 43                       | 6555                                                          | 6252  | 8608  | 6795  | 10990 | 7346  | 13730 | 7906  | 16800 | 8477  | 20210 | 9067  | 23950 | 9685 |
| 115F0119                                                                                                                                                                   |           | 115F0319             | 115F0406 | V        | 32              |            | 10420                    | 6794                                                          | 13450 | 7369  | 16980 | 7914  | 21030 | 8424  | 25620 | 8897  | 30740 | 9337  | 36400 | 9749  |      |
|                                                                                                                                                                            |           |                      |          |          | 35              |            | 9891                     | 6875                                                          | 12810 | 7480  | 16220 | 8061  | 20140 | 8613  | 24570 | 9137  | 29530 | 9634  | 35000 | 10110 |      |
| OP-HGZ144                                                                                                                                                                  |           |                      |          |          | MTZ144          | 38         | 9357                     | 6942                                                          | 12170 | 7578  | 15460 | 8197  | 19230 | 8796  | 23520 | 9372  | 28310 | 9928  | 33600 | 10470 |      |
|                                                                                                                                                                            | 115F0121  | 115F0321             | 115F0407 | Q        |                 | 43         | 8462                     | 7021                                                          | 11100 | 7714  | 14170 | 8401  | 17720 | 9078  | 21740 | 9743  | 26260 | 10400 | 31250 | 11050 |      |
|                                                                                                                                                                            | 115F0122  | 115F0322             | 115F0408 | V        |                 | 32         | 12940                    | 8166                                                          | 16460 | 8829  | 20490 | 9497  | 25060 | 10170 | 30140 | 10850 | 35730 | 11540 | 41820 | 12260 |      |
|                                                                                                                                                                            |           |                      |          |          |                 | 35         | 12350                    | 8300                                                          | 15750 | 9899  | 19650 | 9688  | 24060 | 10400 | 28970 | 11120 | 34390 | 11860 | 40280 | 12630 |      |
| OP-HGZ160                                                                                                                                                                  |           |                      |          |          | MTZ160          | 38         | 11740                    | 8427                                                          | 15020 | 9143  | 18790 | 9876  | 23040 | 10620 | 27790 | 11390 | 33020 | 12180 | 38720 | 13000 |      |
|                                                                                                                                                                            | 115F0124  | 115F0324             | 115F0409 | Q        |                 | 43         | 10720                    | 8618                                                          | 13800 | 9382  | 17340 | 10170 | 21340 | 10980 | 25800 | 11820 | 30720 | 12690 | 36090 | 13600 |      |
|                                                                                                                                                                            | 115F0125  | 115F0325             | 115F0410 | V        |                 | 32         | 14190                    | 8712                                                          | 17990 | 9484  | 22330 | 10290 | 27200 | 11130 | 32590 | 12012 |       |       |       |       |      |



| Fan                                                                               | Model     | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |      |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-----------------------------------------------------------------------------------|-----------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                                                                   |           | D20                  | D39      | D49      |                 |            |                          | -30°C                                                         |      | -25°C |      | -20°C |       | -15°C |       | -10°C |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |      |
|                                                                                   |           |                      |          |          |                 |            |                          | CC                                                            | PC   | CC    | PC   | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC   |
|  | OP-HJZ019 | 115F0064             | 115F0269 | 115F0369 | N               | MTZ019     | 32                       | 586                                                           | 1201 | 952   | 1407 | 1385  | 1586  | 1888  | 1743  | 2462  | 1881  | 3108  | 2006  | 3824  | 2121  | 4607  | 2231  | 5454  | 2339 |
|                                                                                   |           | 115F0065             | 115F0270 | 115F0370 | Q               |            | 35                       | 511                                                           | 1171 | 865   | 1392 | 1281  | 1586  | 1763  | 1756  | 2312  | 1907  | 2930  | 2044  | 3615  | 2169  | 4365  | 2288  | 5177  | 2404 |
|                                                                                   |           | 115F0067             | 115F0271 | 115F0371 | V               |            | 38                       | 437                                                           | 1135 | 777   | 1372 | 1175  | 1581  | 1636  | 1765  | 2160  | 1930  | 2749  | 2078  | 3403  | 2214  | 4120  | 2343  | 4897  | 2468 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 306                                                           | 1060 | 613   | 1325 | 998   | 1561  | 1421  | 1770  | 1902  | 1957  | 2443  | 2125  | 3045  | 2280  | 3706  | 2424  | 4426  | 2562 |
|                                                                                   | OP-HJZ022 | 115F0069             | 115F0273 | 115F0372 | N               | MTZ022     | 32                       | 1023                                                          | 1377 | 1449  | 1566 | 1955  | 1752  | 2543  | 1936  | 3211  | 2123  | 3957  | 2314  | 4774  | 2513  | 5656  | 2721  | 6593  | 2942 |
|                                                                                   |           | 115F0070             | 115F0274 | 115F0373 | Q               |            | 35                       | 943                                                           | 1378 | 1353  | 1577 | 1837  | 1774  | 2397  | 1969  | 3033  | 2166  | 3741  | 2367  | 4516  | 2575  | 5353  | 2792  | 6244  | 3021 |
|                                                                                   |           | 115F0072             | 115F0275 | 115F0374 | V               |            | 38                       | 859                                                           | 1372 | 1253  | 1583 | 1714  | 1791  | 2245  | 1997  | 2847  | 2204  | 3517  | 2415  | 4251  | 2633  | 5044  | 2859  | 5890  | 3097 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 693                                                           | 1349 | 1045  | 1580 | 1498  | 1806  | 1980  | 2031  | 2524  | 2256  | 3130  | 2483  | 3795  | 2716  | 4516  | 2956  | 5290  | 3206 |
|                                                                                   | OP-HJZ028 | 115F0074             | 115F0277 | 115F0375 | N               | MTZ028     | 32                       | 1531                                                          | 2324 | 2098  | 2567 | 2761  | 2800  | 3525  | 3025  | 4394  | 3245  | 5368  | 3463  | 6447  | 3681  | 7626  | 3900  | 8903  | 4126 |
|                                                                                   |           | 115F0075             | 115F0278 | 115F0376 | Q               |            | 35                       | 1422                                                          | 2327 | 1971  | 2583 | 2610  | 2831  | 3344  | 3071  | 4176  | 3306  | 5109  | 3538  | 6140  | 3769  | 7268  | 4003  | 8490  | 4241 |
|                                                                                   |           | 115F0077             | 115F0279 | 115F0377 | V               |            | 38                       | 1310                                                          | 2323 | 1840  | 2595 | 2454  | 2858  | 3157  | 3113  | 3952  | 3363  | 4842  | 3609  | 5826  | 3855  | 6902  | 4103  | 8069  | 4355 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1086                                                          | 2304 | 1568  | 2602 | 2185  | 2890  | 2833  | 3171  | 3564  | 3445  | 4381  | 3715  | 5285  | 3984  | 6276  | 4253  | 7353  | 4526 |
|                                                                                   | OP-HJZ032 | 115F0079             | 115F0281 | 115F0378 | N               | MTZ032     | 32                       | 1616                                                          | 2394 | 2222  | 2674 | 2944  | 2957  | 3785  | 3239  | 4746  | 3519  | 5823  | 3796  | 7012  | 4069  | 8305  | 4335  | 9696  | 4594 |
|                                                                                   |           | 115F0080             | 115F0282 | 115F0379 | Q               |            | 35                       | 1510                                                          | 2405 | 2093  | 2698 | 2783  | 2994  | 3583  | 3290  | 4496  | 3584  | 5518  | 3875  | 6646  | 4160  | 7875  | 4440  | 9199  | 4710 |
|                                                                                   |           | 115F0082             | 115F0283 | 115F0380 | V               |            | 38                       | 1402                                                          | 2412 | 1962  | 2718 | 2620  | 3027  | 3380  | 3337  | 4244  | 3644  | 5212  | 3949  | 6280  | 4248  | 7446  | 4540  | 8703  | 4823 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1178                                                          | 2410 | 1687  | 2738 | 2344  | 3069  | 3037  | 3401  | 3822  | 3730  | 4700  | 4056  | 5670  | 4375  | 6731  | 4685  | 7880  | 4986 |
|                                                                                   | OP-HJZ036 | 115F0084             | 115F0285 | 115F0381 | N               | MTZ036     | 32                       | 1779                                                          | 2575 | 2490  | 2879 | 3325  | 3194  | 4286  | 3523  | 5372  | 3867  | 6579  | 4229  | 7900  | 4613  | 9327  | 5023  | 10850 | 5462 |
|                                                                                   |           | 115F0085             | 115F0286 | 115F0382 | Q               |            | 35                       | 1629                                                          | 2573 | 2313  | 2888 | 3113  | 3216  | 4031  | 3559  | 5067  | 3918  | 6219  | 4296  | 7480  | 4697  | 8843  | 5124  | 10300 | 5581 |
|                                                                                   |           | 115F0087             | 115F0287 | 115F0383 | V               |            | 38                       | 1480                                                          | 2568 | 2137  | 2895 | 2902  | 3236  | 3776  | 3592  | 4763  | 3967  | 5859  | 4361  | 7060  | 4778  | 8360  | 5222  | 9750  | 5697 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1200                                                          | 2555 | 1792  | 2900 | 2551  | 3262  | 3353  | 3641  | 4256  | 4039  | 5260  | 4458  | 6361  | 4901  | 7557  | 5370  | 8842  | 5869 |
|                                                                                   | OP-HJZ040 | 115F0089             | 115F0289 | 115F0384 | N               | MTZ040     | 32                       | 2122                                                          | 2829 | 2972  | 3155 | 3977  | 3485  | 5145  | 3823  | 6479  | 4173  | 7982  | 4541  | 9650  | 4930  | 11480 | 5348  | 13460 | 5798 |
|                                                                                   |           | 115F0090             | 115F0290 | 115F0385 | Q               |            | 35                       | 1954                                                          | 2831 | 2772  | 3173 | 3734  | 3519  | 4851  | 3874  | 6126  | 4241  | 7561  | 4626  | 9156  | 5033  | 10910 | 5468  | 12810 | 5963 |
|                                                                                   |           | 115F0091             | 115F0291 | 115F0386 | V               |            | 38                       | 1790                                                          | 2831 | 2574  | 3189 | 3493  | 3553  | 4557  | 3925  | 5772  | 4310  | 7140  | 4712  | 8662  | 5138  | 10330 | 5590  | 12150 | 6076 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1479                                                          | 2821 | 2185  | 3209 | 3095  | 3602  | 4071  | 4004  | 5184  | 4418  | 6438  | 4849  | 7836  | 5302  | 9376  | 5782  | 11050 | 6293 |
|                                                                                   | OP-HJZ044 | 115F0093             | 115F0293 | 115F0387 | N               | MTZ044     | 32                       | 2168                                                          | 2927 | 3101  | 3310 | 4199  | 3671  | 5471  | 4013  | 6920  | 4342  | 8551  | 4660  | 10360 | 4973  | 12350 | 5285  | 14500 | 5602 |
|                                                                                   |           | 115F0094             | 115F0294 | 115F0388 | Q               |            | 35                       | 1940                                                          | 2888 | 2839  | 3295 | 3892  | 3680  | 5109  | 4047  | 6496  | 4400  | 8056  | 4742  | 9789  | 5079  | 11690 | 5414  | 13760 | 5754 |
|                                                                                   |           | 115F0095             | 115F0295 | 115F0389 | V               |            | 38                       | 1715                                                          | 2837 | 2576  | 3268 | 3583  | 3678  | 4745  | 4071  | 6068  | 4448  | 7557  | 4815  | 9212  | 5176  | 11030 | 5535  | 13010 | 5897 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1307                                                          | 2724 | 2082  | 3197 | 3069  | 3650  | 4135  | 4084  | 5350  | 4503  | 6719  | 4910  | 8244  | 5310  | 9925  | 5706  | 11760 | 6103 |
|                                                                                   | OP-HJZ050 | 115F0097             | 115F0297 | 115F0390 | N               | MTZ050     | 32                       | 2630                                                          | 3307 | 3652  | 3711 | 4850  | 4096  | 6234  | 4466  | 7812  | 4827  | 9587  | 5185  | 11550 | 5548  | 13710 | 5921  | 16050 | 6311 |
|                                                                                   |           | 115F0098             | 115F0298 | 115F0391 | Q               |            | 35                       | 2392                                                          | 3284 | 3380  | 3717 | 4533  | 4129  | 5863  | 4527  | 7377  | 4915  | 9078  | 5299  | 10970 | 5687  | 13040 | 6085  | 15280 | 6499 |
|                                                                                   |           | 115F0099             | 115F0299 | 115F0392 | V               |            | 38                       | 2154                                                          | 3247 | 3104  | 3710 | 4210  | 4151  | 5484  | 4577  | 6931  | 4993  | 8558  | 5405  | 10360 | 5819  | 12350 | 6242  | 14500 | 6680 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1707                                                          | 3153 | 2565  | 3667 | 3664  | 4160  | 4838  | 4635  | 6173  | 5098  | 7674  | 5554  | 9344  | 6010  | 11180 | 6472  | 13190 | 6946 |
|                                                                                   | OP-HJZ056 | 115F0101             | 115F0301 | 115F0393 | N               | MTZ056     | 32                       | 2918                                                          | 3511 | 4082  | 4021 | 5437  | 4498  | 6985  | 4953  | 8723  | 5399  | 10650 | 5845  | 12740 | 6303  | 15000 | 6780  | 17400 | 7287 |
|                                                                                   |           | 115F0102             | 115F0302 | 115F0394 | Q               |            | 35                       | 2638                                                          | 3464 | 3758  | 4011 | 5058  | 4521  | 6541  | 5005  | 8204  | 5476  | 10040 | 5944  | 12050 | 6420  | 14210 | 6913  | 16520 | 7433 |
|                                                                                   |           | 115F0103             | 115F0303 | 115F0395 | V               |            | 38                       | 2359                                                          | 3400 | 3435  | 3985 | 4678  | 4530  | 6094  | 5046  | 7682  | 5544  | 9438  | 6036  | 11360 | 6533  | 13420 | 7043  | 15630 | 7578 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 1844                                                          | 3252 | 2813  | 3907 | 4044  | 4514  | 5347  | 5085  | 6806  | 5632  | 8422  | 6166  | 10190 | 6697  | 12100 | 7236  | 14160 | 7793 |
|                                                                                   | OP-HJZ064 | 115F0105             | 115F0305 | 115F0396 | N               | MTZ064     | 32                       | 3316                                                          | 3884 | 4548  | 4449 | 5980  | 4992  | 7615  | 5522  | 9450  | 6052  | 11480 | 6590  | 13680 | 7146  | 16050 | 7730  | 18560 | 8350 |
|                                                                                   |           | 115F0106             | 115F0306 | 115F0397 | Q               |            | 35                       | 3030                                                          | 3847 | 4214  | 4446 | 5586  | 5020  | 7147  | 5580  | 8897  | 6135  | 10830 | 6696  | 12930 | 7274  | 15190 | 7876  | 17600 | 8512 |
|                                                                                   |           | 115F0107             | 115F0307 | 115F0398 | V               |            | 38                       | 2744                                                          | 3793 | 3880  | 4428 | 5189  | 5035  | 6675  | 5625  | 8339  | 6208  | 10180 | 6795  | 12180 | 7394  | 14340 | 8016  | 16630 | 8669 |
|                                                                                   |           |                      |          |          |                 |            | 43                       | 2205                                                          | 3664 | 3225  | 4362 | 4525  | 5027  | 5885  | 5671  | 7404  | 6301  | 9084  | 6929  | 10920 | 7564  | 12900 | 8216  | 15030 | 8894 |
| OP-HGZ072                                                                         | 115F0109  | 115F0309             | 115F0399 | Q        | MTZ072          | 32         | 3973                     | 5329                                                          | 5393 | 5935  | 7066 | 6521  | 9002  | 7093  | 11210 | 7658  | 13670 | 8221  | 16400 | 8791  | 19380 | 9373  | 22590 | 9975  |      |
|                                                                                   | 115F0110  | 115F0310             | 115F0400 | V        |                 | 35         | 3649                     | 5308                                                          | 5010 | 5947  | 6607 | 6566  | 8454  | 7169  | 10560 | 7764  | 12910 | 8357  | 15520 | 8955  | 18360 | 9563  | 21440 | 10190 |      |
|                                                                                   |           |                      |          |          |                 | 38         | 3330                     | 5274                                                          | 4628 | 5946  | 6149 | 6598  | 7905  | 7233  | 9903  | 7859  | 12150 | 8482  | 14630 | 9108  | 17350 | 9744  | 20290 | 10400 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 2728                     | 5185                                                          | 3884 | 5914  | 5390 | 6621  | 6991  | 7310  | 8814  | 7987  | 10860 | 8658  | 13140 | 9329  | 15650 | 10010 | 18370 | 10690 |      |
| OP-HGZ080                                                                         | 115F0112  | 115F0312             | 115F0401 | Q        | MTZ080          | 32         | 4677                     | 5845                                                          | 6205 | 6610  | 7989 | 7353  | 10040 | 8086  | 12350 | 8819  | 14930 | 9561  | 17760 | 10320 | 20830 | 11100 | 24120 | 11920 |      |
|                                                                                   | 115F0113  | 115F0313             | 115F0402 | V        |                 | 35         | 4339                     | 5847                                                          | 5805 | 6653  | 7510 | 7434  | 9465  | 8201  | 11670 | 8963  | 14130 | 9730  | 16830 | 10510 | 19760 | 11310 | 22910 | 12150 |      |
|                                                                                   |           |                      |          |          |                 | 38         | 4003                     | 5830                                                          | 5404 | 6678  | 7028 | 7498  | 8887  | 8300  | 10980 | 9093  | 13320 | 9887  | 15890 | 10690 | 18690 | 11510 | 21700 | 12360 |      |
|                                                                                   |           |                      |          |          |                 | 43         | 3346                     | 5756                                                          | 4595 | 6677  | 6220 | 7563  | 7913  | 8423  | 9824  | 9268  | 11960 | 10110 | 14310 | 10950 | 16880 | 11800 | 19670 | 12670 |      |
| OP-HGZ100                                                                         | 115F0115  | 115F0315             | 115F0403 | Q        | MTZ100          | 32         | 4788                     | 6645                                                          | 6603 | 7484  | 8697 | 8280  | 11070 | 9047  | 13720 | 9800  | 16640 | 10560 | 19800 | 11330 | 23180 | 12140 | 26760 | 13000 |      |
|                                                                                   | 115F0116  | 115F0316             | 115F0404 | V        |                 | 35         | 4346                     | 6574                                                          | 6087 | 7464  | 8088 | 8310  | 10350 | 9125  | 12880 | 9925  | 15660 | 10720 | 18670 | 11540 | 21900 | 12390 | 25320 | 13280 |      |
|                                                                                   |           |                      |          |          |                 | 38         | 3912                     | 6481                                                          | 5577 | 7424  | 7484 | 8322  | 9637  | 9187  |       |       |       |       |       |       |       |       |       |       |      |

| Fan                                                                               | Model      | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-----------------------------------------------------------------------------------|------------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                                                                   |            | D20                  | D39      | D49      |                 |            |                          | -25°C                                                         |       | -20°C |       | -15°C |       | -10°C |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |      |
|                                                                                   |            |                      |          |          |                 |            |                          | CC                                                            | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    |       |      |
|  | OP-HJZ019D | 115F0064             | 115F0269 | 115F0369 | N               | MTZ019     | 32                       | 824                                                           | 1119  | 1208  | 1278  | 1653  | 1431  | 2160  | 1577  | 2728  | 1717  | 3357  | 1851  | 4043  | 1979  | 4784  | 2103 |
|                                                                                   |            | 115F0065             | 115F0270 | 115F0370 | Q               |            | 35                       | 742                                                           | 1113  | 1115  | 1280  | 1541  | 1442  | 2027  | 1598  | 2573  | 1749  | 3176  | 1893  | 3826  | 2033  | 4550  | 2167 |
|                                                                                   |            | 115F0067             | 115F0271 | 115F0371 | V               |            | 38                       | 667                                                           | 1105  | 1025  | 1280  | 1433  | 1451  | 1898  | 1617  | 2420  | 1778  | 2999  | 1933  | 3633  | 2083  | 4319  | 2229 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | -                                                             | -     | -     | -     | 1259  | 1462  | 1690  | 1644  | 2174  | 1821  | 2711  | 1994  | 3301  | 2163  | 3942  | 2327 |
|                                                                                   | OP-HJZ022D | 115F0069             | 115F0273 | 115F0372 | N               | MTZ022     | 32                       | 1370                                                          | 1412  | 1786  | 1563  | 2284  | 1722  | 2867  | 1893  | 3537  | 2077  | 4291  | 2279  | 5126  | 2502  | 6033  | 2753 |
|                                                                                   |            | 115F0070             | 115F0274 | 115F0373 | Q               |            | 35                       | 1288                                                          | 1432  | 1695  | 1591  | 2168  | 1759  | 2722  | 1940  | 3359  | 2135  | 4078  | 2348  | 4874  | 2584  | 5743  | 2847 |
|                                                                                   |            | 115F0072             | 115F0275 | 115F0374 | V               |            | 38                       | 1215                                                          | 1451  | 1604  | 1618  | 2053  | 1795  | 2578  | 1986  | 3183  | 2192  | 3867  | 2417  | 4626  | 2664  | 5455  | 2940 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | -                                                             | -     | -     | -     | 1863  | 1853  | 2342  | 2061  | 2894  | 2286  | 3519  | 2530  | 4216  | 2799  | 4982  | 3096 |
|                                                                                   | OP-HJZ028D | 115F0074             | 115F0277 | 115F0375 | N               | MTZ028     | 32                       | 1744                                                          | 2271  | 2282  | 2450  | 2932  | 2637  | 2704  | 2833  | 4601  | 3041  | 5626  | 3264  | 6776  | 3505  | 8045  | 3771 |
|                                                                                   |            | 115F0075             | 115F0278 | 115F0376 | Q               |            | 35                       | 1642                                                          | 2296  | 2167  | 2485  | 2785  | 2683  | 3518  | 2892  | 4373  | 3114  | 5350  | 3351  | 6448  | 3608  | 7663  | 3891 |
|                                                                                   |            | 115F0077             | 115F0279 | 115F0377 | V               |            | 38                       | 1550                                                          | 2319  | 2052  | 2518  | 2640  | 2728  | 3336  | 2950  | 4147  | 3185  | 5077  | 3438  | 6124  | 3711  | 7285  | 4010 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | -                                                             | -     | -     | -     | 2401  | 2800  | 3037  | 3044  | 3778  | 3303  | 4629  | 3582  | 5592  | 3882  | 6665  | 4210 |
|                                                                                   | OP-HJZ032D | 115F0079             | 115F0281 | 115F0378 | N               | MTZ032     | 32                       | 2005                                                          | 2432  | 2615  | 2637  | 3340  | 2852  | 4188  | 3082  | 5165  | 3331  | 6270  | 3606  | 7499  | 3916  | 8846  | 4269 |
|                                                                                   |            | 115F0080             | 115F0282 | 115F0379 | Q               |            | 35                       | 1870                                                          | 2441  | 2467  | 2661  | 3158  | 2893  | 3967  | 3140  | 4899  | 3409  | 5954  | 3705  | 7129  | 4036  | 8418  | 4411 |
|                                                                                   |            | 115F0082             | 115F0283 | 115F0380 | V               |            | 38                       | 1744                                                          | 2450  | 2316  | 2684  | 2975  | 2932  | 3745  | 3197  | 4631  | 3485  | 5636  | 3802  | 6757  | 4154  | 7990  | 4550 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | -                                                             | -     | -     | -     | 2667  | 2991  | 3371  | 3286  | 4183  | 3606  | 5105  | 3955  | 6137  | 4342  | 7276  | 4773 |
|                                                                                   | OP-HJZ036D | 115F0084             | 115F0285 | 115F0381 | N               | MTZ036     | 32                       | 2167                                                          | 2645  | 2899  | 2924  | 3759  | 3214  | 4746  | 3518  | 5858  | 3839  | 7088  | 4183  | 8428  | 4554  | 9867  | 4960 |
|                                                                                   |            | 115F0085             | 115F0286 | 115F0382 | Q               |            | 35                       | 2032                                                          | 2670  | 2747  | 2963  | 3569  | 3269  | 4512  | 3589  | 5575  | 3928  | 6752  | 4291  | 8035  | 4682  | 9414  | 5108 |
|                                                                                   |            | 115F0087             | 115F0287 | 115F0383 | V               |            | 38                       | 1911                                                          | 2693  | 2595  | 3000  | 3379  | 3321  | 4278  | 3658  | 5292  | 4016  | 6415  | 4397  | 7641  | 4809  | 8960  | 5255 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | -                                                             | -     | -     | -     | 3064  | 3404  | 3889  | 3770  | 4821  | 4158  | 5855  | 4572  | 6985  | 5018  | 8206  | 5500 |
|                                                                                   | OP-HJZ040D | 115F0089             | 115F0289 | 115F0384 | N               | MTZ040     | 32                       | 2510                                                          | 2869  | 3382  | 3177  | 4410  | 3496  | 5596  | 3827  | 6938  | 4173  | 8431  | 4536  | 10070 | 4921  | 11840 | 5334 |
|                                                                                   |            | 115F0090             | 115F0290 | 115F0385 | Q               |            | 35                       | 2352                                                          | 2898  | 3202  | 3220  | 4185  | 3556  | 5319  | 3907  | 6604  | 4274  | 8034  | 4660  | 9604  | 5070  | 11310 | 5508 |
|                                                                                   |            | 115F0091             | 115F0291 | 115F0386 | V               |            | 38                       | 2211                                                          | 2925  | 3024  | 3262  | 3961  | 3614  | 5043  | 3984  | 6270  | 4372  | 7638  | 4782  | 9140  | 5216  | 10770 | 5681 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | -                                                             | -     | -     | -     | 3591  | 3708  | 4585  | 4110  | 5714  | 4534  | 6976  | 4982  | 8366  | 5458  | 9879  | 5967 |
| OP-HJZ044D                                                                        | 115F0093   | 115F0293             | 115F0387 | N        | MTZ044          | 32         | 2484                     | 2858                                                          | 3416  | 3165  | 4523  | 3475  | 5814  | 3791  | 7289  | 4114  | 8945  | 4450  | 10770 | 4803  | 12770 | 5178  |      |
|                                                                                   | 115F0094   | 115F0294             | 115F0388 | Q        |                 | 35         | 2294                     | 2865                                                          | 3202  | 3189  | 4261  | 3519  | 5494  | 3854  | 6904  | 4199  | 8490  | 4557  | 10240 | 4932  | 12160 | 5330  |      |
|                                                                                   | 115F0095   | 115F0295             | 115F0389 | V        |                 | 38         | 2117                     | 2866                                                          | 2988  | 3207  | 3999  | 3555  | 5176  | 3910  | 6522  | 4276  | 8037  | 4656  | 9717  | 5053  | 11550 | 5473  |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 3565  | 3598  | 4648  | 3987  | 5889  | 4388  | 7289  | 4803  | 8845  | 5238  | 10550 | 5696  |      |
| OP-HJZ050D                                                                        | 115F0097   | 115F0297             | 115F0390 | N        | MTZ050          | 32         | 2741                     | 3006                                                          | 3796  | 3398  | 5048  | 3798  | 6502  | 4204  | 8158  | 4619  | 10010 | 5045  | 12050 | 5484  | 14270 | 5941  |      |
|                                                                                   | 115F0098   | 115F0298             | 115F0391 | Q        |                 | 35         | 2545                     | 3017                                                          | 3574  | 3430  | 4774  | 3851  | 6166  | 4280  | 7753  | 4718  | 9529  | 5168  | 11490 | 5631  | 13610 | 6112  |      |
|                                                                                   | 115F0099   | 115F0299             | 115F0392 | V        |                 | 38         | 2360                     | 3020                                                          | 3350  | 3452  | 4498  | 3894  | 5829  | 4346  | 7345  | 4808  | 9045  | 5281  | 10920 | 5768  | 12960 | 6273  |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 4032  | 3946  | 5261  | 4435  | 6662  | 4935  | 8235  | 5447  | 9975  | 5974  | 11880 | 6518  |      |
| OP-HJZ056D                                                                        | 115F0101   | 115F0301             | 115F0393 | N        | MTZ056          | 32         | 3140                     | 3264                                                          | 4348  | 3701  | 5781  | 4147  | 7445  | 4601  | 9340  | 5065  | 11460 | 5543  | 13790 | 6036  | 16320 | 6551  |      |
|                                                                                   | 115F0102   | 115F0302             | 115F0394 | Q        |                 | 35         | 2916                     | 3276                                                          | 4096  | 3736  | 5469  | 4205  | 7063  | 4685  | 8877  | 5176  | 10910 | 5681  | 13140 | 6202  | 15570 | 6743  |      |
|                                                                                   | 115F0103   | 115F0303             | 115F0395 | V        |                 | 38         | 2705                     | 3279                                                          | 3840  | 3760  | 5155  | 4254  | 6677  | 4759  | 8411  | 5276  | 10350 | 5808  | 12500 | 6356  | 14830 | 6925  |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 4624  | 4311  | 6030  | 4858  | 7631  | 5419  | 9427  | 5995  | 11410 | 6588  | 13580 | 7202  |      |
| OP-HJZ064D                                                                        | 115F0105   | 115F0305             | 115F0396 | N        | MTZ064          | 32         | 3720                     | 3664                                                          | 5095  | 4137  | 6721  | 4609  | 8604  | 5080  | 10750 | 5550  | 13160 | 6023  | 15820 | 6505  | 18730 | 6999  |      |
|                                                                                   | 115F0106   | 115F0306             | 115F0397 | Q        |                 | 35         | 3440                     | 3678                                                          | 4779  | 4177  | 6338  | 4678  | 8146  | 5180  | 10210 | 5685  | 12520 | 6195  | 15090 | 6715  | 17900 | 7250  |      |
|                                                                                   | 115F0107   | 115F0307             | 115F0398 | V        |                 | 38         | 3184                     | 3686                                                          | 4469  | 4211  | 5960  | 4742  | 7692  | 5276  | 9670  | 5815  | 11890 | 6362  | 14360 | 6921  | 17070 | 7497  |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 5342  | 4837  | 6946  | 5425  | 8782  | 6023  | 10850 | 6632  | 13160 | 7256  | 15700 | 7901  |      |
| OP-HGZ072D                                                                        | 115F0109   | 115F0309             | 115F0399 | Q        | MTZ072          | 32         | 4233                     | 5000                                                          | 5788  | 5556  | 7619  | 6114  | 9732  | 6674  | 12130 | 7242  | 14810 | 7543  | 17750 | 8424  | 20960 | 9053  |      |
|                                                                                   | 115F0110   | 115F0310             | 115F0400 | V        |                 | 35         | 3913                     | 5014                                                          | 5428  | 5600  | 7184  | 6191  | 9212  | 6787  | 11510 | 7394  | 14090 | 8016  | 16930 | 8659  | 20020 | 9334  |      |
|                                                                                   |            |                      |          |          |                 | 38         | 3622                     | 5022                                                          | 5074  | 5638  | 6754  | 6262  | 8696  | 6895  | 10900 | 7540  | 13380 | 8203  | 16110 | 8890  | 19080 | 9609  |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 6051  | 6368  | 7848  | 7063  | 9898  | 7774  | 12200 | 8506  | 14750 | 9266  | 17540 | 10060 |      |
| OP-HGZ080D                                                                        |            |                      |          | Q        | MTZ080          | 32         | 5248                     | 5771                                                          | 6946  | 6387  | 8930  | 7025  | 11210 | 7686  | 13780 | 8378  | 16630 | 9105  | 19760 | 9878  | 23140 | 10710 |      |
|                                                                                   | 115F0112   | 115F0312             | 115F0401 | V        |                 | 35         | 4910                     | 5812                                                          | 6573  | 6457  | 8478  | 7127  | 10660 | 7824  | 13130 | 8553  | 15870 | 9321  | 18880 | 10140 | 22130 | 11010 |      |
|                                                                                   | 115F0113   | 115F0313             | 115F0402 | V        |                 | 38         | 4600                     | 5845                                                          | 6200  | 6518  | 8023  | 7220  | 10120 | 7952  | 12480 | 8719  | 15110 | 9526  | 17990 | 10380 | 21120 | 11300 |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 7264  | 7355  | 9199  | 8145  | 11390 | 8974  | 13830 | 9847  | 16510 | 10770 | 19430 | 11760 |      |
| OP-HGZ100D                                                                        |            |                      |          | Q        | MTZ100          | 32         | 5524                     | 6407                                                          | 7505  | 7132  | 9843  | 7880  | 12540 | 8652  | 15600 | 9456  | 18990 | 10300 | 22710 | 11200 | 26710 | 12170 |      |
|                                                                                   | 115F0115   | 115F0315             | 115F0403 | V        |                 | 35         | 5116                     | 6435                                                          | 7042  | 7193  | 9276  | 7978  | 11860 | 8793  | 14780 | 9643  | 18040 | 10540 | 21610 | 11490 | 25460 | 12510 |      |
|                                                                                   | 115F0116   | 115F0316             | 115F0404 | V        |                 | 38         | 4746                     | 6456                                                          | 6589  | 7247  | 8719  | 8070  | 11180 | 8927  | 13980 | 9823  | 17090 | 10770 | 20520 | 11770 | 24220 | 12840 |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 7809  | 8208  | 10080 | 9135  | 12660 | 10110 | 15540 | 11130 | 18720 | 12220 | 22180 | 13380 |      |
| OP-HGZ125D                                                                        |            |                      |          | Q        | MTZ125          | 32         | 7347                     | 7714                                                          | 10010 | 8717  | 13180 | 9715  | 16870 | 10700 | 21090 | 11680 | 25840 | 12640 | 31100 | 13600 | 36850 | 14550 |      |
|                                                                                   | 115F0118   | 115F0318             | 115F0405 | V        |                 | 35         | 6807                     | 7766                                                          | 9392  | 8813  | 12420 | 9861  | 15960 | 10900 | 20000 | 11940 | 24560 | 12960 | 29620 | 13980 | 35170 | 15000 |      |
|                                                                                   | 115F0119   | 115F0319             | 115F0406 | V        |                 | 38         | 6317                     | 7810                                                          | 8789  | 8900  | 11680 | 9995  | 15050 | 11090 | 18930 | 12180 | 23300 | 13270 | 28160 | 14350 | 33500 | 15430 |      |
|                                                                                   |            |                      |          |          |                 | 43         | -                        | -                                                             | -     | -     | 10460 | 10200 | 13580 | 11380 | 17160 | 12560 | 21220 | 13740 | 25750 | 14980 | 30750 | 16120 |      |
| OP-HGZ144D                                                                        |            |                      |          | Q        | MTZ144          | 32         | 9462                     | 9038                                                          | 12370 | 10060 | 15740 | 11090 | 19570 | 12170 | 23860 | 13300 | 28590 | 14530 | 33740 | 15870 | 392   |       |      |



| Fan                                                                               | Model      | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-----------------------------------------------------------------------------------|------------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                                                                   |            | D20                  | D39      | D49      |                 |            |                          | -20°C                                                         |       | -15°C |       | -10°C |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |      |
|                                                                                   |            |                      |          |          |                 |            |                          | CC                                                            | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC   |
|  | OP-HJZ019D | 115F0064             | 115F0269 | 115F0369 | N               | MTZ019     | 32                       | 1418                                                          | 1451  | 1868  | 1607  | 2384  | 1751  | 2966  | 1887  | 3611  | 2014  | 4318  | 2135  | 5083  | 2250 |
|                                                                                   |            | 115F0065             | 115F0270 | 115F0370 | N               |            | 35                       | 1312                                                          | 1452  | 1741  | 1619  | 2233  | 1775  | 2787  | 1922  | 3403  | 2061  | 4078  | 2192  | 4811  | 2318 |
|                                                                                   |            | 115F0067             | 115F0271 | 115F0371 | V               |            | 38                       | 1207                                                          | 1449  | 1615  | 1627  | 2083  | 1795  | 2609  | 1953  | 3195  | 2103  | 3840  | 2246  | 4540  | 2382 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | 1034                                                          | 1432  | 1408  | 1630  | 1834  | 1818  | 2316  | 1996  | 2853  | 2165  | 3446  | 2326  | 4094  | 2480 |
|                                                                                   | OP-HJZ022D | 115F0069             | 115F0273 | 115F0372 | N               | MTZ022     | 32                       | 1988                                                          | 1719  | 2528  | 1895  | 3138  | 2075  | 3815  | 2259  | 4555  | 2450  | 5354  | 2650  | 6207  | 2863 |
|                                                                                   |            | 115F0070             | 115F0274 | 115F0373 | N               |            | 35                       | 1860                                                          | 1739  | 2375  | 1926  | 2956  | 2117  | 3601  | 2314  | 4307  | 2518  | 5070  | 2733  | 5886  | 2961 |
|                                                                                   |            | 115F0072             | 115F0275 | 115F0374 | V               |            | 38                       | 1734                                                          | 1758  | 2224  | 1955  | 2776  | 2158  | 3389  | 2368  | 4061  | 2587  | 4789  | 2816  | 5569  | 3060 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | 1530                                                          | 1787  | 1977  | 2003  | 2481  | 2226  | 3041  | 2458  | 3657  | 2700  | 4327  | 2954  | 5049  | 3224 |
|                                                                                   | OP-HJZ028D | 115F0074             | 115F0277 | 115F0375 | N               | MTZ028     | 32                       | 2597                                                          | 2671  | 3230  | 2851  | 3988  | 3040  | 4878  | 3242  | 5903  | 3459  | 7062  | 3697  | 8348  | 3960 |
|                                                                                   |            | 115F0075             | 115F0278 | 115F0376 | N               |            | 35                       | 2461                                                          | 2706  | 3059  | 2898  | 3774  | 3100  | 4616  | 3316  | 5588  | 3548  | 6689  | 3801  | 7916  | 4079 |
|                                                                                   |            | 115F0077             | 115F0279 | 115F0377 | V               |            | 38                       | 2323                                                          | 2737  | 2885  | 2941  | 3558  | 3156  | 4351  | 3386  | 5270  | 3632  | 6314  | 3900  | 7481  | 4192 |
|                                                                                   |            |                      |          |          |                 |            | 43                       | 2088                                                          | 2779  | 2589  | 3002  | 3190  | 3239  | 3903  | 3491  | 4733  | 3762  | 5682  | 4053  | 6752  | 4371 |
| OP-HJZ032D                                                                        | 115F0079   | 115F0281             | 115F0378 | N        | MTZ032          | 32         | 2819                     | 2817                                                          | 3585  | 3051  | 4465  | 3290  | 5457  | 3538  | 6559  | 3801  | 7765  | 4084  | 9067  | 4392  |      |
|                                                                                   | 115F0080   | 115F0282             | 115F0379 | N        |                 | 35         | 2643                     | 2841                                                          | 3373  | 3094  | 4209  | 3354  | 5153  | 3624  | 6202  | 3908  | 7350  | 4211  | 8593  | 4539  |      |
|                                                                                   | 115F0082   | 115F0283             | 115F0380 | V        |                 | 38         | 2464                     | 2863                                                          | 3157  | 3135  | 3951  | 3415  | 4846  | 3705  | 5841  | 4009  | 6933  | 4332  | 8117  | 4679  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 2164                     | 2888                                                          | 2794  | 3192  | 3515  | 3503  | 4329  | 3825  | 5236  | 4161  | 6236  | 4516  | 7324  | 4893  |      |
| OP-HJZ036D                                                                        | 115F0084   | 115F0285             | 115F0381 | N        | MTZ036          | 32         | 3227                     | 3128                                                          | 4041  | 3403  | 4984  | 3686  | 6056  | 3981  | 7254  | 4291  | 8571  | 4622  | 10000 | 4979  |      |
|                                                                                   | 115F0085   | 115F0286             | 115F0382 | N        |                 | 35         | 3053                     | 3167                                                          | 3826  | 3458  | 4721  | 3758  | 5738  | 4071  | 6876  | 4399  | 8130  | 4749  | 9491  | 5124  |      |
|                                                                                   | 115F0087   | 115F0287             | 115F0383 | V        |                 | 38         | 2874                     | 3198                                                          | 3606  | 3506  | 4452  | 3824  | 5414  | 4154  | 6492  | 4501  | 7681  | 4870  | 8977  | 5264  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 2566                     | 3233                                                          | 3227  | 3570  | 3991  | 3917  | 4861  | 4278  | 5838  | 4657  | 6923  | 5058  | 8112  | 5485  |      |
| OP-HJZ040D                                                                        | 115F0089   | 115F0289             | 115F0384 | N        | MTZ040          | 32         | 3808                     | 3470                                                          | 4807  | 3778  | 5967  | 4092  | 7291  | 4414  | 8775  | 4751  | 10410 | 5108  | 12190 | 5492  |      |
|                                                                                   | 115F0090   | 115F0290             | 115F0385 | N        |                 | 35         | 3614                     | 3517                                                          | 4564  | 3845  | 5666  | 4178  | 6922  | 4522  | 8330  | 4881  | 9884  | 5261  | 11580 | 5668  |      |
|                                                                                   | 115F0091   | 115F0291             | 115F0386 | V        |                 | 38         | 3412                     | 3555                                                          | 4312  | 3903  | 5354  | 4258  | 6541  | 4624  | 7873  | 5005  | 9346  | 5409  | 10950 | 5840  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 3060                     | 3597                                                          | 3873  | 3980  | 4814  | 4372  | 5886  | 4777  | 7092  | 5198  | 8430  | 5641  | 9896  | 6114  |      |
| OP-HJZ044D                                                                        | 115F0093   | 115F0293             | 115F0387 | N        | MTZ044          | 32         | 3887                     | 3482                                                          | 5038  | 3786  | 6359  | 4087  | 7845  | 4391  | 9492  | 4703  | 11290 | 5031  | 13220 | 5380  |      |
|                                                                                   | 115F0094   | 115F0294             | 115F0388 | N        |                 | 35         | 3639                     | 3512                                                          | 4737  | 3835  | 5994  | 4155  | 7409  | 4477  | 8978  | 4807  | 10690 | 5153  | 12540 | 5519  |      |
|                                                                                   | 115F0095   | 115F0295             | 115F0389 | V        |                 | 38         | 3390                     | 3537                                                          | 4433  | 3881  | 5626  | 4221  | 6970  | 4562  | 8462  | 4912  | 10090 | 5276  | 11850 | 5661  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 2969                     | 3568                                                          | 3921  | 3950  | 5008  | 4327  | 6233  | 4703  | 7596  | 5087  | 9091  | 5484  | 10710 | 5902  |      |
| OP-HJZ050D                                                                        | 115F0097   | 115F0297             | 115F0390 | N        | MTZ050          | 32         | 4291                     | 3783                                                          | 5580  | 4187  | 7052  | 4584  | 8703  | 4981  | 10520 | 5382  | 12500 | 5794  | 14620 | 6221  |      |
|                                                                                   | 115F0098   | 115F0298             | 115F0391 | N        |                 | 35         | 4033                     | 3820                                                          | 5263  | 4248  | 6667  | 4669  | 8240  | 5087  | 9976  | 5510  | 11860 | 5941  | 13890 | 6387  |      |
|                                                                                   | 115F0099   | 115F0299             | 115F0392 | V        |                 | 38         | 3769                     | 3852                                                          | 4940  | 4306  | 6274  | 4750  | 7769  | 5192  | 9420  | 5636  | 11220 | 6089  | 13150 | 6554  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 3319                     | 3890                                                          | 4389  | 4390  | 5606  | 4878  | 6970  | 5362  | 8480  | 5845  | 10130 | 6334  | 11920 | 6835  |      |
| OP-HJZ056D                                                                        | 115F0101   | 115F0301             | 115F0393 | N        | MTZ056          | 32         | 4879                     | 4089                                                          | 6349  | 4532  | 8031  | 4969  | 9919  | 5407  | 12000 | 5849  | 14270 | 6301  | 16700 | 6768  |      |
|                                                                                   | 115F0102   | 115F0302             | 115F0394 | N        |                 | 35         | 4588                     | 4131                                                          | 5992  | 4600  | 7595  | 5062  | 9395  | 5524  | 11380 | 5990  | 13550 | 6464  | 15870 | 6953  |      |
|                                                                                   | 115F0103   | 115F0303             | 115F0395 | V        |                 | 38         | 4290                     | 4168                                                          | 5627  | 4664  | 7151  | 5153  | 8862  | 5640  | 10750 | 6130  | 12810 | 6628  | 15030 | 7139  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 3782                     | 4214                                                          | 5004  | 4758  | 6395  | 5294  | 7956  | 5825  | 9686  | 6358  | 11580 | 6898  | 13630 | 7448  |      |
| OP-HJZ064D                                                                        | 115F0105   | 115F0305             | 115F0396 | N        | MTZ064          | 32         | 5825                     | 4591                                                          | 7504  | 5049  | 9426  | 5492  | 11590 | 5931  | 14000 | 6375  | 16640 | 6835  | 19510 | 7321  |      |
|                                                                                   | 115F0106   | 115F0306             | 115F0397 | N        |                 | 35         | 5464                     | 4638                                                          | 7071  | 5128  | 8909  | 5601  | 10980 | 6067  | 13290 | 6538  | 15820 | 7024  | 18570 | 7535  |      |
|                                                                                   | 115F0107   | 115F0307             | 115F0398 | V        |                 | 38         | 5103                     | 4686                                                          | 6636  | 5209  | 8390  | 5714  | 10370 | 6212  | 12570 | 6712  | 14990 | 7225  | 17630 | 7763  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 4505                     | 4764                                                          | 5911  | 5350  | 7520  | 5914  | 9338  | 6467  | 11370 | 7020  | 13610 | 7584  | 16060 | 8170  |      |
| OP-HGZ072D                                                                        | 115F0109   | 115F0309             | 115F0399 | N        | MTZ072          | 32         | 6614                     | 6083                                                          | 8505  | 6625  | 10660 | 7154  | 13080 | 7682  | 15750 | 8223  | 18670 | 8788  | 21820 | 9389  |      |
|                                                                                   | 115F0110   | 115F0310             | 115F0400 | V        |                 | 35         | 6201                     | 6138                                                          | 8009  | 6716  | 10070 | 7279  | 12380 | 7841  | 14940 | 8413  | 17740 | 9009  | 20750 | 9640  |      |
|                                                                                   |            |                      |          |          |                 | 38         | 5788                     | 6193                                                          | 7512  | 6810  | 9476  | 7411  | 11680 | 8008  | 14120 | 8614  | 16800 | 9242  | 19690 | 9906  |      |
|                                                                                   |            |                      |          |          |                 | 43         | 5105                     | 6283                                                          | 6684  | 6972  | 8483  | 7641  | 10510 | 8302  | 12750 | 8970  | 15220 | 9657  | 17910 | 10380 |      |
| OP-HGZ080D                                                                        | 115F0112   | 115F0312             | 115F0401 | N        | MTZ080          | 32         | 7451                     | 6789                                                          | 9362  | 7369  | 11530 | 7952  | 13960 | 8550  | 16650 | 9178  | 19570 | 9848  | 22710 | 10570 |      |
|                                                                                   | 115F0113   | 115F0313             | 115F0402 | V        |                 | 35         | 7044                     | 6874                                                          | 8871  | 7489  | 10950 | 8104  | 13270 | 8734  | 15830 | 9392  | 18620 | 10090 | 21630 | 10840 |      |
|                                                                                   |            |                      |          |          |                 | 38         | 6629                     | 6956                                                          | 8372  | 7609  | 10350 | 8260  | 12560 | 8924  | 15000 | 9613  | 17670 | 10340 | 20540 | 11120 |      |
|                                                                                   |            |                      |          |          |                 | 43         | 5925                     | 7085                                                          | 7520  | 7806  | 9328  | 8522  | 11350 | 9247  | 13590 | 9995  | 16050 | 10780 | 18710 | 11610 |      |
| OP-HGZ100D                                                                        | 115F0115   | 115F0315             | 115F0403 | N        | MTZ100          | 32         | 8523                     | 7843                                                          | 10900 | 8596  | 13580 | 9359  | 16570 | 10140 | 19830 | 10940 | 23350 | 11780 | 27090 | 12660 |      |
|                                                                                   | 115F0116   | 115F0316             | 115F0404 | V        |                 | 35         | 7991                     | 7942                                                          | 10250 | 8740  | 12810 | 9545  | 15650 | 10370 | 18760 | 11210 | 22110 | 12080 | 25690 | 12990 |      |
|                                                                                   |            |                      |          |          |                 | 38         | 7457                     | 8021                                                          | 9610  | 8865  | 12040 | 9714  | 14730 | 10580 | 17680 | 11460 | 20880 | 12370 | 24290 | 13320 |      |
|                                                                                   |            |                      |          |          |                 | 43         | 6561                     | 8105                                                          | 8531  | 9029  | 10740 | 9955  | 13200 | 10890 | 15900 | 11850 | 18830 | 12830 | 21990 | 13840 |      |
| OP-HGZ125D                                                                        | 115F0118   | 115F0318             | 115F0405 | N        | MTZ125          | 32         | 11210                    | 9687                                                          | 14410 | 10610 | 18070 | 11520 | 22190 | 12430 | 26750 | 13360 | 31730 | 14310 | 37100 | 15300 |      |
|                                                                                   | 115F0119   | 115F0319             | 115F0406 | V        |                 | 35         | 10520                    | 9826                                                          | 13570 | 10810 | 17060 | 11780 | 20990 | 12750 | 25340 | 13730 | 30110 | 14720 | 35260 | 15760 |      |
|                                                                                   |            |                      |          |          |                 | 38         | 9818                     | 9939                                                          | 12730 | 10990 | 16050 | 12020 | 19790 | 13040 | 23930 | 14070 | 28480 | 15120 | 33410 | 16200 |      |
|                                                                                   |            |                      |          |          |                 | 43         | 8652                     | 10070                                                         | 11310 | 11220 | 14350 | 12360 | 17770 | 13480 | 21580 | 14610 | 25770 | 15750 | 30340 | 16910 |      |
| OP-HGZ144D                                                                        | 115F0121   | 115F0321             | 115F0407 | N        | MTZ144          | 32         | 13480                    | 11200                                                         | 16670 | 12240 | 20280 | 13250 | 24300 | 14280 | 28740 | 15360 | 33570 | 16510 | 38760 | 17760 |      |
|                                                                                   | 115F0122   | 115F0322             | 115F0408 | V        |                 | 35         | 12680                    | 11400                                                         | 15720 | 12530 | 19160 | 13600 | 23010 | 14670 | 27260 | 15770 | 31900 | 16930 | 36900 | 18180 |      |
|                                                                                   |            |                      |          |          |                 | 38         | 11870                    | 11560                                                         | 14770 | 12770 | 18050 | 13910 | 21720 | 15030 | 25780 | 16160 | 30220 | 17340 | 35030 | 18590 |      |
|                                                                                   |            |                      |          |          |                 | 43         | 10550                    | 11690                                                         | 13200 | 13060 | 16210 | 14340 | 19580 | 15560 | 23330 | 16760 | 27450 | 17970 | 31950 | 19240 |      |
| OP-HGZ160D                                                                        | 115F0124   | 115F0324             | 115F0409 | N        | MTZ160          | 32         | 14950                    | 12550                                                         | 18440 | 13680 | 22370 | 14860 | 26720 | 16130 | 31470 | 17530 | 36610 | 19080 |       |       |      |



| Fan                                                                                 | Model      | Code for the version |          |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------|------------|----------------------|----------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                                     |            | D20                  | D39      | D49      |                 |            |                          | -10°C                                                         |       | -5°C  |       | 0°C   |       | 5°C   |       | 10°C  |       |
|                                                                                     |            |                      |          |          |                 |            |                          | CC                                                            | PC    | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    |
|    | OP-HJZ019D | 115F0064             | 115F0269 | 115F0369 | N<br>Q<br>V     | MTZ019     | 32                       | 1567                                                          | 1136  | 2033  | 1215  | 2567  | 1287  | 3170  | 1351  | 3843  | 1409  |
|                                                                                     |            | 115F0065             | 115F0270 | 115F0370 |                 |            | 35                       | 1475                                                          | 1146  | 1923  | 1233  | 2437  | 1312  | 3019  | 1383  | 3668  | 1448  |
|                                                                                     |            | 115F0067             | 115F0271 | 115F0371 |                 |            | 38                       | 1385                                                          | 1154  | 1815  | 1248  | 2309  | 1334  | 2868  | 1413  | 3494  | 1485  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 1239                                                          | 1162  | 1638  | 1269  | 2097  | 1367  | 2620  | 1457  | 3207  | 1541  |
|                                                                                     | OP-HJZ022D | 115F0069             | 115F0273 | 115F0372 | N<br>Q<br>V     | MTZ022     | 32                       | 2030                                                          | 1333  | 2588  | 1443  | 3223  | 1545  | 3936  | 1641  | 4725  | 1731  |
|                                                                                     |            | 115F0070             | 115F0274 | 115F0373 |                 |            | 35                       | 1921                                                          | 1342  | 2458  | 1462  | 3070  | 1574  | 3757  | 1679  | 4519  | 1779  |
|                                                                                     |            | 115F0072             | 115F0275 | 115F0374 |                 |            | 38                       | 1813                                                          | 1350  | 2329  | 1478  | 2918  | 1600  | 3580  | 1716  | 4315  | 1826  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 2475                                                          | 2220  | 3035  | 2448  | 3648  | 2685  | 4312  | 2933  | 5023  | 3193  |
|                                                                                     | OP-HJZ028D | 115F0074             | 115F0277 | 115F0375 | N<br>Q<br>V     | MTZ028     | 32                       | 2668                                                          | 2223  | 3389  | 2347  | 4214  | 2467  | 5144  | 2582  | 6181  | 2693  |
|                                                                                     |            | 115F0075             | 115F0278 | 115F0376 |                 |            | 35                       | 2537                                                          | 2255  | 3234  | 2390  | 4031  | 2520  | 4930  | 2646  | 5933  | 2767  |
|                                                                                     |            | 115F0077             | 115F0279 | 115F0377 |                 |            | 38                       | 2405                                                          | 2284  | 3077  | 2431  | 3846  | 2572  | 4714  | 2708  | 5683  | 2840  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 2183                                                          | 2321  | 2813  | 2489  | 3535  | 2651  | 4350  | 2806  | 5261  | 2956  |
|                                                                                     | OP-HJZ032D | 115F0079             | 115F0281 | 115F0378 | N<br>Q<br>V     | MTZ032     | 32                       | 3088                                                          | 2418  | 3915  | 2575  | 4848  | 2724  | 5889  | 2869  | 7036  | 3011  |
|                                                                                     |            | 115F0080             | 115F0282 | 115F0379 |                 |            | 35                       | 2943                                                          | 2453  | 3741  | 2620  | 4641  | 2780  | 5645  | 2934  | 6750  | 3085  |
|                                                                                     |            | 115F0082             | 115F0283 | 115F0380 |                 |            | 38                       | 2797                                                          | 2484  | 3565  | 2663  | 4432  | 2833  | 5398  | 2997  | 6462  | 3157  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 2550                                                          | 2529  | 3269  | 2728  | 4078  | 2917  | 4980  | 3097  | 5975  | 3273  |
|                                                                                     | OP-HJZ036D | 115F0084             | 115F0285 | 115F0381 | N<br>Q<br>V     | MTZ036     | 32                       | 3211                                                          | 2582  | 4097  | 2740  | 5118  | 2901  | 6276  | 3073  | 7572  | 3259  |
|                                                                                     |            | 115F0085             | 115F0286 | 115F0382 |                 |            | 35                       | 3069                                                          | 2636  | 3925  | 2808  | 4911  | 2983  | 6029  | 3165  | 7280  | 3359  |
|                                                                                     |            | 115F0087             | 115F0287 | 115F0383 |                 |            | 38                       | 2919                                                          | 2683  | 3746  | 2872  | 4696  | 3060  | 5774  | 3254  | 6980  | 3459  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 2656                                                          | 2742  | 3431  | 2962  | 4320  | 3177  | 5329  | 3395  | 6459  | 3620  |
|                                                                                     | OP-HJZ040D | 115F0089             | 115F0289 | 115F0384 | N<br>Q<br>V     | MTZ040     | 32                       | 3931                                                          | 2877  | 4988  | 3064  | 6207  | 3263  | 7591  | 3482  | 9143  | 3728  |
|                                                                                     |            | 115F0090             | 115F0290 | 115F0385 |                 |            | 35                       | 3731                                                          | 2916  | 4751  | 3113  | 5929  | 3321  | 7269  | 3547  | 8773  | 3799  |
|                                                                                     |            | 115F0091             | 115F0291 | 115F0386 |                 |            | 38                       | 3534                                                          | 2953  | 4515  | 3161  | 5651  | 3378  | 6946  | 3612  | 8403  | 3871  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 3211                                                          | 3010  | 4126  | 3238  | 5190  | 3473  | 6408  | 3722  | 7783  | 3995  |
|                                                                                     | OP-HJZ044D | 115F0093             | 115F0293 | 115F0387 | N<br>Q<br>V     | MTZ044     | 32                       | 4106                                                          | 2855  | 5306  | 3050  | 6693  | 3239  | 8268  | 3424  | 10030 | 3609  |
|                                                                                     |            | 115F0094             | 115F0294 | 115F0388 |                 |            | 35                       | 3868                                                          | 2889  | 5021  | 3099  | 6356  | 3302  | 7875  | 3502  | 9578  | 3701  |
|                                                                                     |            | 115F0095             | 115F0295 | 115F0389 |                 |            | 38                       | 3635                                                          | 2918  | 4739  | 3143  | 6021  | 3361  | 7483  | 3575  | 9127  | 3789  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 3256                                                          | 2959  | 4275  | 3207  | 5467  | 3449  | 6834  | 3687  | 8376  | 3926  |
|                                                                                     | OP-HJZ050D | 115F0097             | 115F0297 | 115F0390 | N<br>Q<br>V     | MTZ050     | 32                       | 4496                                                          | 3143  | 5731  | 3363  | 7167  | 3576  | 8807  | 3782  | 10650 | 3979  |
|                                                                                     |            | 115F0098             | 115F0298 | 115F0391 |                 |            | 35                       | 4266                                                          | 3200  | 5449  | 3438  | 6826  | 3669  | 8401  | 3893  | 10180 | 4109  |
|                                                                                     |            | 115F0099             | 115F0299 | 115F0392 |                 |            | 38                       | 4042                                                          | 3252  | 5173  | 3508  | 6491  | 3759  | 8002  | 4002  | 9710  | 4237  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 3678                                                          | 3324  | 4723  | 3612  | 5944  | 3895  | 7349  | 4172  | 8942  | 4440  |
|                                                                                     | OP-HJZ056D | 115F0101             | 115F0301 | 115F0393 | N<br>Q<br>V     | MTZ056     | 32                       | 5261                                                          | 3403  | 6739  | 3653  | 8435  | 3896  | 10350 | 4136  | 12500 | 4377  |
|                                                                                     |            | 115F0102             | 115F0302 | 115F0394 |                 |            | 35                       | 4972                                                          | 3451  | 6399  | 3721  | 8037  | 3983  | 9893  | 4240  | 11970 | 4499  |
|                                                                                     |            | 115F0103             | 115F0303 | 115F0395 |                 |            | 38                       | 4687                                                          | 3493  | 6060  | 3784  | 7641  | 4065  | 9433  | 4341  | 11440 | 4618  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 4217                                                          | 3551  | 5502  | 3876  | 6983  | 4192  | 8669  | 4501  | 10560 | 4809  |
|                                                                                     | OP-HJZ064D | 115F0105             | 115F0305 | 115F0396 | N<br>Q<br>V     | MTZ064     | 32                       | 5922                                                          | 3745  | 7610  | 4021  | 9540  | 4287  | 11720 | 4550  | 14150 | 4815  |
|                                                                                     |            | 115F0106             | 115F0306 | 115F0397 |                 |            | 35                       | 5611                                                          | 3801  | 7240  | 4100  | 9104  | 4388  | 11210 | 4670  | 13560 | 4953  |
|                                                                                     |            | 115F0107             | 115F0307 | 115F0398 |                 |            | 38                       | 5303                                                          | 3850  | 6873  | 4174  | 8669  | 4484  | 10700 | 4787  | 12970 | 5089  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 4800                                                          | 3915  | 6269  | 4283  | 7952  | 4634  | 9858  | 4974  | 11990 | 5310  |
|  | OP-HGZ072D | 115F0109             | 115F0309 | 115F0399 | Q<br>V          | MTZ072     | 32                       | 6696                                                          | 5046  | 8466  | 5377  | 10500 | 5704  | 12800 | 6030  | 15390 | 6356  |
|                                                                                     |            | 115F0110             | 115F0310 | 115F0400 |                 |            | 35                       | 6376                                                          | 5112  | 8086  | 5465  | 10050 | 5814  | 12280 | 6160  | 14790 | 6506  |
|                                                                                     |            |                      |          |          |                 |            | 38                       | 6053                                                          | 5172  | 7703  | 5549  | 9601  | 5919  | 11760 | 6287  | 14180 | 6654  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 5510                                                          | 5259  | 7058  | 5676  | 8841  | 6086  | 10870 | 6490  | 13150 | 6894  |
|                                                                                     | OP-HGZ080D | 115F0112             | 115F0312 | 115F0401 | Q<br>V          | MTZ080     | 32                       | 7629                                                          | 5579  | 9609  | 5968  | 11850 | 6357  | 14350 | 6756  | 17100 | 7169  |
|                                                                                     |            | 115F0113             | 115F0313 | 115F0402 |                 |            | 35                       | 7292                                                          | 5665  | 9203  | 6077  | 11360 | 6488  | 13770 | 6905  | 16440 | 7335  |
|                                                                                     |            |                      |          |          |                 |            | 38                       | 6953                                                          | 5745  | 8795  | 6181  | 10880 | 6614  | 13200 | 7052  | 15760 | 7501  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 6386                                                          | 5862  | 8112  | 6343  | 10060 | 6817  | 12230 | 7291  | 14630 | 7773  |
|                                                                                     | OP-HGZ100D | 115F0115             | 115F0315 | 115F0403 | Q<br>V          | MTZ100     | 32                       | 8931                                                          | 6387  | 11330 | 6833  | 14060 | 7275  | 17130 | 7720  | 20540 | 8176  |
|                                                                                     |            | 115F0116             | 115F0316 | 115F0404 |                 |            | 35                       | 8455                                                          | 6469  | 10760 | 6947  | 13400 | 7420  | 16360 | 7894  | 19660 | 8376  |
|                                                                                     |            |                      |          |          |                 |            | 38                       | 7980                                                          | 6538  | 10200 | 7051  | 12730 | 7555  | 15590 | 8059  | 18770 | 8570  |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 7189                                                          | 6623  | 9248  | 7196  | 11610 | 7758  | 14290 | 8316  | 17270 | 8876  |
|                                                                                     | OP-HGZ125D | 115F0118             | 115F0318 | 115F0405 | Q<br>V          | MTZ125     | 32                       | 12460                                                         | 7794  | 15550 | 8340  | 19070 | 8895  | 23040 | 9471  | 27460 | 10080 |
|                                                                                     |            | 115F0119             | 115F0319 | 115F0406 |                 |            | 35                       | 11840                                                         | 7915  | 14820 | 8499  | 18230 | 9087  | 22070 | 9694  | 26350 | 10330 |
|                                                                                     |            |                      |          |          |                 |            | 38                       | 11210                                                         | 8025  | 14090 | 8649  | 17380 | 9275  | 21090 | 9914  | 25240 | 10580 |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 10170                                                         | 8178  | 12870 | 8876  | 15960 | 9569  | 19450 | 10270 | 23270 | 10990 |
|                                                                                     | OP-HGZ144D | 115F0121             | 115F0321 | 115F0407 | Q<br>V          | MTZ144     | 32                       | 13980                                                         | 8738  | 17360 | 9375  | 21200 | 10040 | 25530 | 10750 | 30330 | 11530 |
|                                                                                     |            | 115F0122             | 115F0322 | 115F0408 |                 |            | 35                       | 13310                                                         | 8875  | 16570 | 9548  | 20290 | 10250 | 24480 | 10990 | 29140 | 11790 |
|                                                                                     |            |                      |          |          |                 |            | 38                       | 12630                                                         | 8999  | 15780 | 9713  | 19380 | 10450 | 23420 | 11220 | 27930 | 12040 |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 11490                                                         | 9175  | 14450 | 9966  | 17830 | 10770 | 21640 | 11600 | 25890 | 12470 |
|                                                                                     | OP-HGZ160D | 115F0124             | 115F0324 | 115F0409 | Q<br>V          | MTZ160     | 32                       | 15260                                                         | 9770  | 18880 | 10540 | 23020 | 11360 | 27660 | 12250 | 32820 | 13260 |
|                                                                                     |            | 115F0125             | 115F0325 | 115F0410 |                 |            | 35                       | 14590                                                         | 9945  | 18080 | 10750 | 22070 | 11590 | 26550 | 12510 | 31540 | 13530 |
|                                                                                     |            |                      |          |          |                 |            | 38                       | 13920                                                         | 10100 | 17270 | 10950 | 21110 | 11830 | 25430 | 12770 | 30240 | 13810 |
|                                                                                     |            |                      |          |          |                 |            | 43                       | 12790                                                         | 10330 | 15920 | 11260 | 19500 | 12200 | 23540 | 13190 | 28060 | 14270 |

Superheat 18K  
Subcooling 3K

**Superheat 10K**  
**Subcooling 3K**

CC: Cooling capacity (kcal/h)  
PC: Power input (W)

## Condensing unit R404A/R507 (LBP)

| Fan                                                                               | Model      | Code for the version |          | Electrical code | Compressor | Ambient temperature (°C) | Cooling capacity range in (Kcal/h) at evaporating temperature |      |       |      |       |      |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------------------------------|------------|----------------------|----------|-----------------|------------|--------------------------|---------------------------------------------------------------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                                   |            | D49                  | D20      |                 |            |                          | -40°C                                                         |      | -35°C |      | -30°C |      | -25°C |       | -20°C |       | -15°C |       | -10°C |       |
|                                                                                   |            |                      |          |                 |            |                          | CC                                                            | PC   | CC    | PC   | CC    | PC   | CC    | PC    | CC    | PC    | CC    | PC    | CC    | PC    |
|  | OP-LJZ048D | 115F0411             | 115F0526 | N               | NTZ048     | 32                       | 717                                                           | 1089 | 1063  | 1355 | 1469  | 1622 | 1937  | 1887  | 2466  | 2143  | 3057  | 2388  | 3710  | 2616  |
|                                                                                   |            | 115F0412             | 115F0527 | Q               |            | 35                       | 646                                                           | 1067 | 975   | 1343 | 1360  | 1622 | 1803  | 1899  | 2304  | 2169  | 2864  | 2428  | 3483  | 2671  |
|                                                                                   |            | 115F0413             | 115F0528 | V               |            | 38                       | 576                                                           | 1041 | 887   | 1327 | 1251  | 1617 | 1669  | 1906  | 2142  | 2190  | 2671  | 2462  | 3257  | 2720  |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 744   | 1287 | 1072  | 1595 | 1448  | 1904  | 1874  | 2209  | 2352  | 2504  | 2883  | 2786  |
|                                                                                   | OP-LJZ068D | 115F0415             | 115F0512 | N               | NTZ068     | 32                       | 1219                                                          | 1782 | 1683  | 2070 | 2216  | 2381 | 2813  | 2723  | 3470  | 3105  | 4183  | 3536  | 4943  | 4027  |
|                                                                                   |            | 115F0416             | 115F0513 | Q               |            | 35                       | 1116                                                          | 1788 | 1558  | 2088 | 2062  | 2412 | 2629  | 2768  | 3252  | 3165  | 3928  | 3611  | 4651  | 4119  |
|                                                                                   |            | 115F0417             | 115F0514 | V               |            | 38                       | 1019                                                          | 1792 | 1437  | 2105 | 1914  | 2443 | 2449  | 2813  | 3039  | 3225  | 3678  | 3688  | 4363  | 4212  |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 1246  | 2128 | 1678  | 2489 | 2161  | 2884  | 2693  | 3326  | 3273  | 3817  | 3896  | 4370  |
|                                                                                   | OP-LJZ096D | 115F0419             | 115F0518 | N               | NTZ096     | 32                       | 1451                                                          | 2530 | 2138  | 2993 | 2947  | 3482 | 3881  | 3997  | 4941  | 4544  | 6128  | 5128  | 7440  | 5759  |
|                                                                                   |            | 115F0420             | 115F0519 | Q               |            | 35                       | 1271                                                          | 2471 | 1931  | 2953 | 2705  | 3465 | 3599  | 4010  | 4614  | 4589  | 5751  | 5211  | 7010  | 5883  |
|                                                                                   |            |                      |          |                 |            | 38                       | 1092                                                          | 2404 | 1724  | 2902 | 2464  | 3438 | 3317  | 4010  | 4287  | 4622  | 5374  | 5279  | 6580  | 5991  |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 1383  | 2798 | 2065  | 3368 | 2852  | 3983  | 3746  | 4645  | 4750  | 5360  | 5869  | 6135  |
|                                                                                   | OP-LJZ108D | 115F0423             | 115F0520 | N               | NTZ108     | 32                       | 1661                                                          | 2992 | 2490  | 3419 | 3496  | 3900 | 4684  | 4433  | 6054  | 5018  | 6794  | 5808  | 8170  | 6587  |
|                                                                                   |            | 115F0424             | 115F0521 | Q               |            | 35                       | 1527                                                          | 2982 | 2316  | 3421 | 3269  | 3919 | 4392  | 4473  | 5688  | 5082  | 6364  | 5868  | 7660  | 6667  |
|                                                                                   |            | 115F0425             | 115F0522 | V               |            | 38                       | 1388                                                          | 2965 | 2137  | 3414 | 3037  | 3927 | 4096  | 4500  | 5317  | 5132  | 5933  | 5916  | 7148  | 6734  |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 1830  | 3384 | 2642  | 3917 | 3594  | 4519  | 4690  | 5185  | 5212  | 5971  | 6297  | 6821  |
|                                                                                   | OP-LJZ136D | 115F0427             | 115F0523 | N               | NTZ136     | 32                       | 2264                                                          | 3647 | 3260  | 4251 | 4430  | 4911 | 5778  | 5634  | 7305  | 6426  | 9008  | 7297  | 10880 | 8257  |
|                                                                                   |            | 115F0428             | 115F0524 | Q               |            | 35                       | 2056                                                          | 3621 | 3009  | 4241 | 4128  | 4920 | 5415  | 5666  | 6873  | 6483  | 8500  | 7382  | 10290 | 8372  |
|                                                                                   |            | 115F0429             | 115F0525 | V               |            | 38                       | 1850                                                          | 3588 | 2760  | 4223 | 3826  | 4922 | 5051  | 5690  | 6440  | 6532  | 7991  | 7458  | 9703  | 8477  |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 2349  | 4177 | 3325  | 4907 | 4446  | 5710  | 5718  | 6592  | 7141  | 7464  | 8719  | 8631  |
|  | OP-LGZ215D | 115F0431             | 115F0807 | Q               | NTZ215     | 32                       | 3612                                                          | 5638 | 5053  | 6633 | 6748  | 7691 | 8704  | 8812  | 10920 | 9998  | 13400 | 10850 | 16140 | 12050 |
|                                                                                   |            | 115F0432             | 115F0808 | V               |            | 35                       | 3268                                                          | 5715 | 4649  | 6672 | 6267  | 7684 | 8131  | 8751  | 10240 | 9877  | 12610 | 11070 | 15220 | 12340 |
|                                                                                   |            |                      |          |                 |            | 38                       | 2918                                                          | 5638 | 4235  | 6633 | 5775  | 7691 | 7547  | 8812  | 9554  | 9998  | 11800 | 11260 | 14280 | 12590 |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 3534  | 6515 | 4940  | 7644 | 6553  | 8848  | 8381  | 10120 | 10430 | 11490 | 12700 | 12940 |
|                                                                                   | OP-LGZ271D | 115F0434             | 115F0809 | Q               | NTZ271     | 32                       | 4895                                                          | 7266 | 6700  | 8403 | 8796  | 9613 | 11170 | 10910 | 13810 | 12310 | 16690 | 13840 | 19790 | 15510 |
|                                                                                   |            | 115F0435             | 115F0810 | V               |            | 35                       | 4506                                                          | 7262 | 6223  | 8438 | 8209  | 9690 | 10460 | 11030 | 12960 | 12480 | 15680 | 14050 | 18610 | 15770 |
|                                                                                   |            |                      |          |                 |            | 38                       | 4114                                                          | 7239 | 5740  | 8457 | 7617  | 9751 | 9737  | 11140 | 12090 | 12630 | 14660 | 14250 | 17430 | 16010 |
|                                                                                   |            |                      |          |                 |            | 43                       | -                                                             | -    | 4931  | 8448 | 6620  | 9813 | 8523  | 11270 | 10640 | 12840 | 12940 | 14540 | 15440 | 16380 |

Superheat 18K  
Subcooling 3K

**Superheat 10K**  
**Subcooling 3K**

CC: Cooling capacity (kcal/h)  
PC: Power input (W)

## Spare parts and optional items



| Application | Model        | Filter drier |        | Basket filter        | Sight glass |       | Suction valve(****)                              |          | Discharge valve        | Liquid valve           | Suction accumulator |        |
|-------------|--------------|--------------|--------|----------------------|-------------|-------|--------------------------------------------------|----------|------------------------|------------------------|---------------------|--------|
|             |              | Code         | Model  |                      | Code        | Code  | Model                                            | Code     |                        |                        | Voltage             | Code   |
| MBP         | OP-HJM(Z)019 | 023Z5040     | DML083 | 191U9905             | 014L0172    | SGP10 | 6804501V06 or 193U1216                           | N Q V    | 6804501V06 or 193U1216 | 6804500V01 or 193U1214 | 191U006010          | XF-204 |
|             | OP-HJM(Z)022 | 023Z5040     | DML083 | 191U9906<br>191U9905 | 014L0172    | SGP10 | 6804502V09 or 193U1217<br>6804501V06 or 193U1216 | N<br>Q V | 6804501V06 or 193U1216 | 6804500V01 or 193U1214 | 191U006010          | XF-204 |
|             | OP-HJM(Z)028 | 023Z5041     | DML084 | 191U9906<br>191U9905 | 014L0173    | SGP12 | 6804502V09 or 193U1217<br>6804501V06 or 193U1216 | N<br>Q V | 6804501V06 or 193U1216 | 6804501V06 or 193U1216 | 191U006110          | XF-205 |
|             | OP-HJM(Z)032 | 023Z5041     | DML084 | 191U9906             | 014L0173    | SGP12 | 6804502V09 or 193U1217                           | N Q V    | 6804501V06 or 193U1216 | 6804501V06 or 193U1216 | 191U006110          | XF-205 |
|             | OP-HJM(Z)036 | 023Z5041     | DML084 | 191U9906             | 014L0173    | SGP12 | 6804502V09 or 193U1217                           | N Q V    | 6804501V06 or 193U1216 | 6804501V06 or 193U1216 | 191U006110          | XF-205 |
|             | OP-HJM(Z)040 | 023Z5044     | DML164 | 191U9906             | 014L0173    | SGP12 | 6804502V09 or 193U1217                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006110          | XF-205 |
|             | OP-HJM(Z)044 | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-HJM(Z)050 | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-HJM(Z)056 | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-HJM(Z)064 | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804503V04 or 193U1218 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-HGM(Z)072 | 023Z5045     | DML165 | 191U9907             | 014L0174    | SGP16 | 6804506V02 or 193U1221                           | N Q V    | 6804503V04 or 193U1218 | 6804507V10 or 193U1223 | 191U006410          | XF-208 |
|             | OP-HGM(Z)080 | 023Z5045     | DML165 | 191U9907             | 014L0174    | SGP16 | 6804506V02 or 193U1221                           | N Q V    | 6804503V04 or 193U1218 | 6804507V10 or 193U1223 | 191U006410          | XF-208 |
|             | OP-HGM(Z)100 | 023Z5045     | DML165 | 191U9907             | 014L0174    | SGP16 | 6804506V02 or 193U1221                           | N Q V    | 6804503V04 or 193U1218 | 6804507V10 or 193U1223 | 191U006410          | XF-208 |
|             | OP-HGM(Z)125 | 023Z5046     | DML166 | 191U9907             | 014L0175    | SGP19 | 6804506V02 or 193U1221                           | N Q V    | 6804504V05 or 193U1219 | 6804503V04 or 193U1218 | 191U006610          | XF-209 |
|             | OP-HGM(Z)144 | 023Z5046     | DML166 | 191U9907             | 014L0175    | SGP19 | 6804506V02 or 193U1221                           | N Q V    | 6804504V05 or 193U1219 | 6804503V04 or 193U1218 | 191U006610          | XF-209 |
|             | OP-HGM(Z)160 | 023Z5046     | DML166 | 191U9907             | 014L0175    | SGP19 | 6804506V02 or 193U1221                           | N Q V    | 6804504V05 or 193U1219 | 6804503V04 or 193U1218 | 191U006610          | XF-209 |
| LRP         | OP-LJZ048    | 023Z5040     | DML083 | 191U9906             | 014L0172    | SGP10 | 6804502V09 or 193U1217                           | N Q V    | 6804501V06 or 193U1216 | 6804500V01 or 193U1214 | 191U006010          | XF-204 |
|             | OP-LJZ068    | 023Z5040     | DML083 | 191U9906             | 014L0172    | SGP10 | 6804502V09 or 193U1217                           | N Q V    | 6804501V06 or 193U1216 | 6804500V01 or 193U1214 | 191U006110          | XF-205 |
|             | OP-LJZ096    | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-LJZ108    | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-LJZ136    | 023Z5044     | DML164 | 191U9907             | 014L0173    | SGP12 | 6804505V07 or 193U1220                           | N Q V    | 6804502V09 or 193U1217 | 6804501V06 or 193U1216 | 191U006310          | XF-207 |
|             | OP-LGZ215    | 023Z5045     | DML165 | 191U9907             | 014L0174    | SGP16 | 6804506V02 or 193U1221                           | N Q V    | 6804503V04 or 193U1218 | 6804507V10 or 193U1223 | 191U006410          | XF-208 |
|             | OP-LGZ271    | 023Z5045     | DML165 | 191U9907             | 014L0174    | SGP16 | 6804506V02 or 193U1221                           | N Q V    | 6804503V04 or 193U1218 | 6804507V10 or 193U1223 | 191U006410          | XF-208 |

| Application | Model        | Receiver   |        | Housing (*)    |       | Oil separator |          | Run capacitor (440VAC) |        | Starting capacitor (330V) |         | Fan kit (**) |      | Condenser kit (***) |       |
|-------------|--------------|------------|--------|----------------|-------|---------------|----------|------------------------|--------|---------------------------|---------|--------------|------|---------------------|-------|
|             |              | Code       | Liters | Code           | Model | Code          | Model    | Code                   | Model  | Code                      | Model   | Code         | Ref. | Code                | Model |
| MBP         | OP-HJM(Z)019 | 118U600908 | 4      | 191U127367     | D8    | 191U007610    | XFW-5201 | 191U0135               | 25 µFD | 191U0126                  | 100 µFD | 119-8253E    | D350 | 193U8024E           | D8    |
|             | OP-HJM(Z)022 | 118U600908 | 4      | 191U127367     | D8    | 191U007610    | XFW-5201 | 191U0122               | 35 µFD | 191U0126                  | 100 µFD | 119-8253E    | D350 | 193U8024E           | D8    |
|             | OP-HJM(Z)028 | 118U601008 | 6      | 191U127467     | G8    | 191U007610    | XFW-5201 | 191U0136               | 50 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0643E           | G8    |
|             | OP-HJM(Z)032 | 118U601108 | 8      | 191U127467     | G8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0126                  | 100 µFD | 119-8254E    | D450 | 191U0643E           | G8    |
|             | OP-HJM(Z)036 | 118U601108 | 8      | 191U127467     | G8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0126                  | 100 µFD | 119-8254E    | D450 | 191U0643E           | G8    |
|             | OP-HJM(Z)040 | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0137               | 55 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-HJM(Z)044 | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-HJM(Z)050 | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-HJM(Z)056 | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0137               | 55 µFD | 191U0128                  | 200 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-HJM(Z)064 | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0137               | 55 µFD | 191U0134                  | 235 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-HGM(Z)072 | 118U6013   | 14     | 191U127767     | N8    | 191U007710    | XFW-5202 | ----                   | ----   | ----                      | ----    | 119-8254E    | D450 | 191U0645E           | N8    |
|             | OP-HGM(Z)080 | 118U6013   | 14     | 191U127767     | N8    | 191U007710    | XFW-5202 | ----                   | ----   | ----                      | ----    | 119-8254E    | D450 | 191U0645E           | N8    |
|             | OP-HGM(Z)100 | 118U6013   | 14     | 191U127767     | N8    | 191U007710    | XFW-5202 | ----                   | ----   | ----                      | ----    | 119-8254E    | D450 | 191U0645E           | N8    |
|             | OP-HGM(Z)125 | 118U6014   | 18     | 191U127867     | Q8    | 191U007810    | XFW-5203 | ----                   | ----   | ----                      | ----    | 119-8255E    | D600 | 193U8025E           | Q8    |
|             | OP-HGM(Z)144 | 118U6014   | 18     | 191U127867     | Q8    | 191U007810    | XFW-5203 | ----                   | ----   | ----                      | ----    | 119-8255E    | D600 | 193U8025E           | Q8    |
|             | OP-HGM(Z)160 | 118U6014   | 18     | 191U127867     | Q8    | 191U007810    | XFW-5203 | ----                   | ----   | ----                      | ----    | 119-8255E    | D600 | 193U8025E           | Q8    |
| LBP         | OP-LJZ048    | 118U600908 | 4      | 191U127367     | D8    | 191U007610    | XFW-5201 | 191U0125               | 45 µFD | 191U0126                  | 100 µFD | 119-8253E    | D350 | 193U8024E           | D8    |
|             | OP-LJZ068    | 118U601108 | 8      | 191U127367     | D8    | 191U007610    | XFW-5201 | 191U0136               | 50 µFD | 191U0129                  | 135 µFD | 119-8253E    | D350 | 193U8024E           | D8    |
|             | OP-LJZ096    | 118U601108 | 8      | Not Applicable | G8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0643E           | G8    |
|             | OP-LJZ108    | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-LJZ136    | 118U601108 | 8      | 191U127667     | J8    | 191U007710    | XFW-5202 | 191U0125               | 45 µFD | 191U0129                  | 135 µFD | 119-8254E    | D450 | 191U0644E           | J8    |
|             | OP-LGZ215    | 118U6013   | 14     | 191U127767     | N8    | 191U007710    | XFW-5202 | ----                   | ----   | ----                      | ----    | 119-8254E    | D450 | 191U0645E           | N8    |
|             | OP-LGZ271    | 118U6013   | 14     | 191U127767     | N8    | 191U007710    | XFW-5202 | ----                   | ----   | ----                      | ----    | 119-8254E    | D450 | 191U0645E           | N8    |

### All of the units are equipped with:

- Crankcase resistance PTC 35 W (code 120Z0459);
- High pressure switch model ACB 2UB – 215 W – 26.5/18.0 bar (code 061F6050);
- Low pressure switch model KP1 (code 060-110191).

### Lubricating oil:

- For units OP-HJM/OP-HGM: code 7754001 (2-liter pack);
- For units OP-HJZ/OP-HGZ: code 120Z0638 (1-liter pack);
- For units OP-LJZ/OP-LGZ: code 120Z0638 (1-liter pack);

### Notes:

- (\*) The housing is an optional item
- (\*\*) The fan kit consists of a motor, grill, propeller and capacitor.
- (\*\*\*) The condenser kit consists of a microchannel, hood and seal.
- (\*\*\*\*) Both valve codes have the same interface and functionality.

## Compressor

| A<br>pp<br>lic<br>ati<br>on | Model       | Compressor       |           |                  |           |                  |           |
|-----------------------------|-------------|------------------|-----------|------------------|-----------|------------------|-----------|
|                             |             | 220V 1F 60Hz (N) |           | 220V 3F 60Hz (Q) |           | 380V 3F 60Hz (V) |           |
|                             |             | Code             | Model     | Code             | Model     | Code             | Model     |
| M<br>B<br>P                 | OP-HJM019D  | MT19-1VI         | MT19-1VI  | MT19-3VI         | MT19-3VI  | MT19-4VI         | MT19-4VI  |
|                             | OP-HJZ019D  | MTZ19-1VI        | MTZ19-1VI | MTZ19-3VI        | MTZ19-3VI | MTZ19-4VI        | MTZ19-4VI |
|                             | OP-HJM022D  | MT22-1VI         | MT22-1VI  | MT22-3VI         | MT22-3VI  | MT22-9VI         | MT22-9VI  |
|                             | OP-HJMZ022D | MTZ22-1VI        | MTZ22-1VI | MTZ22-3VI        | MTZ22-3VI | MTZ22-9VI        | MTZ22-9VI |
|                             | OP-HJM028D  | MT28-1VI         | MT28-1VI  | MT28-3VI         | MT28-3VI  | MT28-9VI         | MT28-9VI  |
|                             | OP-HJZ028D  | MTZ28-1VI        | MTZ28-1VI | MTZ28-3VI        | MTZ28-3VI | MTZ28-9VI        | MTZ28-9VI |
|                             | OP-HJM032D  | MT32-1VI         | MT32-1VI  | MT32-3VI         | MT32-3VI  | MT32-9VI         | MT32-9VI  |
|                             | OP-HJZ032D  | MTZ32-1VI        | MTZ32-1VI | MTZ32-3VI        | MTZ32-3VI | MTZ32-9VI        | MTZ32-9VI |
|                             | OP-HJM036D  | MT36-1VI         | MT36-1VI  | MT36-3VI         | MT36-3VI  | MT36-9VI         | MT36-9VI  |
|                             | OP-HJZ036D  | MTZ36-1VI        | MTZ36-1VI | MTZ36-3VI        | MTZ36-3VI | MTZ36-9VI        | MTZ36-9VI |
|                             | OP-HJM040D  | MT40-1VI         | MT40-1VI  | MT40-3VI         | MT40-3VI  | MT40-4VI         | MT40-4VI  |
|                             | OP-HJMZ040D | MTZ40-1VI        | MTZ40-1VI | MTZ40-3VI        | MTZ40-3VI | MTZ40-4VI        | MTZ40-4VI |
|                             | OP-HJM044D  | MT44-1VI         | MT44-1VI  | MT44-3VI         | MT44-3VI  | MT44-9VI         | MT44-9VI  |
|                             | OP-HJZ044D  | MTZ44-1VI        | MTZ44-1VI | MTZ44-3VI        | MTZ44-3VI | MTZ44-9VI        | MTZ44-9VI |
|                             | OP-HJM050D  | MT50-1VI         | MT50-1VI  | MT50-3VI         | MT50-3VI  | MT50-9VI         | MT50-9VI  |
|                             | OP-HJZ050D  | MTZ50-1VI        | MTZ50-1VI | MTZ50-3VI        | MTZ50-3VI | MTZ50-9VI        | MTZ50-9VI |
|                             | OP-HJM056D  | MT56-1VI         | MT56-1VI  | MT56-3VI         | MT56-3VI  | MT56-9VI         | MT56-9VI  |
|                             | OP-HJZ056D  | MTZ56-1VI        | MTZ56-1VI | MTZ56-3VI        | MTZ56-3VI | MTZ56-9VI        | MTZ56-9VI |
|                             | OP-HJM064D  | MT64-1VI         | MT64-1VI  | MT64-3VI         | MT64-3VI  | MT64-9VI         | MT64-9VI  |



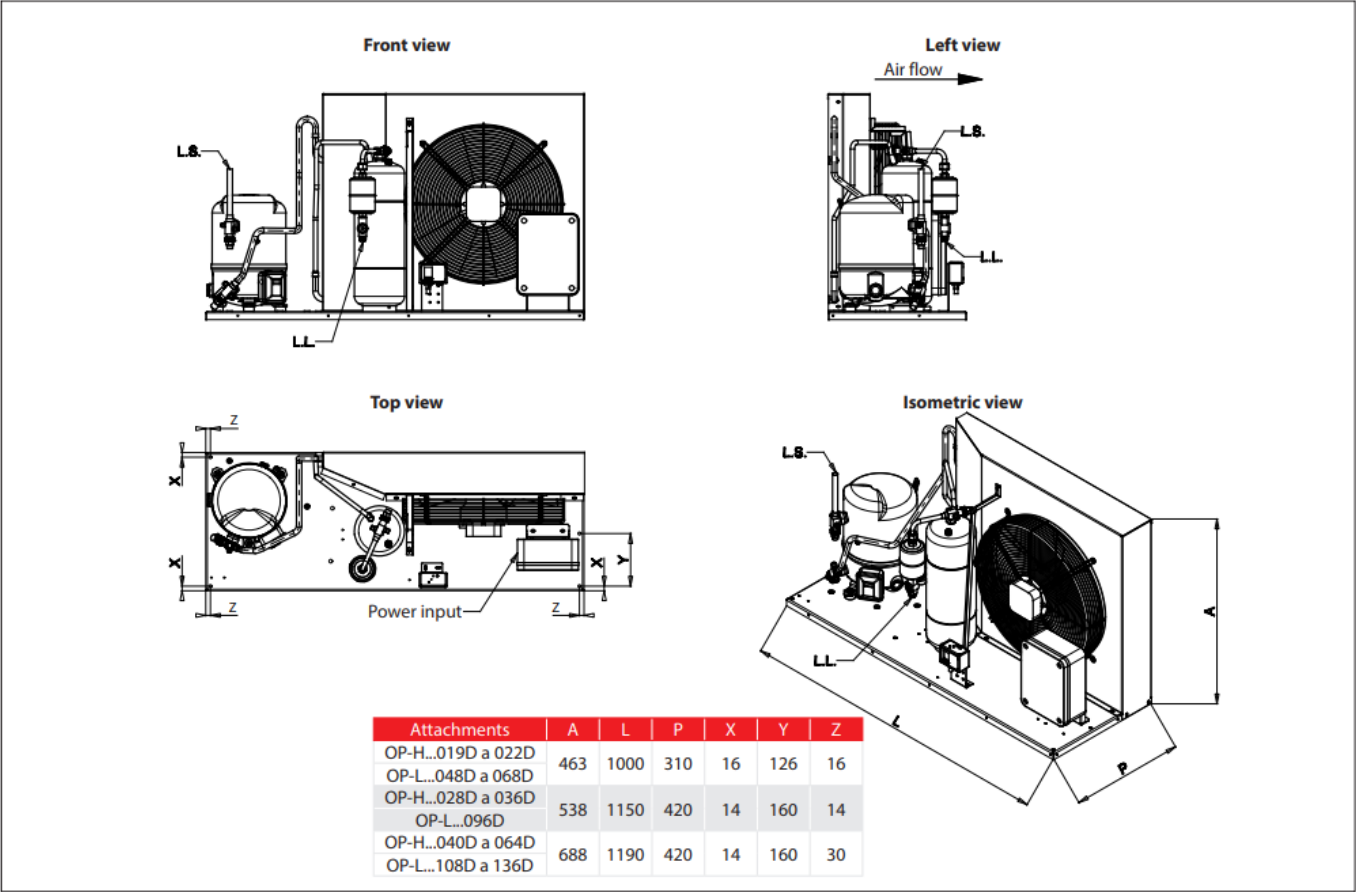
LB  
P

|            |           |           |            |            |            |            |
|------------|-----------|-----------|------------|------------|------------|------------|
| OP-HJZ064D | MTZ64-1VI | MTZ64-1VI | MTZ64-3VI  | MTZ64-3VI  | MTZ64-9VI  | MTZ64-9VI  |
| OP-HGM072D | —         | —         | MT72-3VI   | MT72-3VI   | MT72-9VI   | MT72-9VI   |
| OP-HGZ072D | —         | —         | MTZ72-3VI  | MTZ72-3VI  | MTZ72-9VI  | MTZ72-9VI  |
| OP-HGM080D | —         | —         | MT80-3VI   | MT80-3VI   | MT80-9VI   | MT80-9VI   |
| OP-HGZ080D | —         | —         | MTZ80-3VI  | MTZ80-3VI  | MTZ80-9VI  | MTZ80-9VI  |
| OP-HGM100D | —         | —         | MT100-3VI  | MT100-3VI  | MT100-9VI  | MT100-9VI  |
| OP-HGZ100D | —         | —         | MTZ100-3VI | MTZ100-3VI | MTZ100-9VI | MTZ100-9VI |
| OP-HGM125D | —         | —         | MT125-3VI  | MT125-3VI  | MT125-9VI  | MT125-9VI  |
| OP-HGZ125D | —         | —         | MTZ125-3VI | MTZ125-3VI | MTZ125-9VI | MTZ125-9VI |
| OP-HGM144D | —         | —         | MT144-3VI  | MT144-3VI  | MT144-9VI  | MT144-9VI  |
| OP-HGZ144D | —         | —         | MTZ144-3VI | MTZ144-3VI | MTZ144-9VI | MTZ144-9VI |
| OP-HGM160D | —         | —         | MT160-3VI  | MT160-3VI  | MT160-9VI  | MT160-9VI  |
| OP-HGZ160D | —         | —         | MTZ160-3VI | MTZ160-3VI | MTZ160-9VI | MTZ160-9VI |
| OP-LJZ048D | 120F0293  | NTZ048-1  | 120F0279   | NTZ048-3   | 120F0302   | NTZ048-9   |
| OP-LJZ068D | 120F0294  | NTZ068-1  | 120F0280   | NTZ068-3   | 120F0303   | NTZ068-9   |
| OP-LJZ096D | 120F0295  | NTZ096-1  | 120F0281   | NTZ096-3   | —          | —          |
| OP-LJZ108D | 120F0296  | NTZ108-1  | 120F0282   | NTZ108-3   | 120F0304   | NTZ108-9   |
| OP-LJZ136D | 120F0297  | NTZ136-1  | 120F0283   | NTZ136-3   | 120F0305   | NTZ136-9   |
| OP-LGZ215D | —         | —         | 120F0284   | NTZ215-3   | 120F0306   | NTZ215-9   |

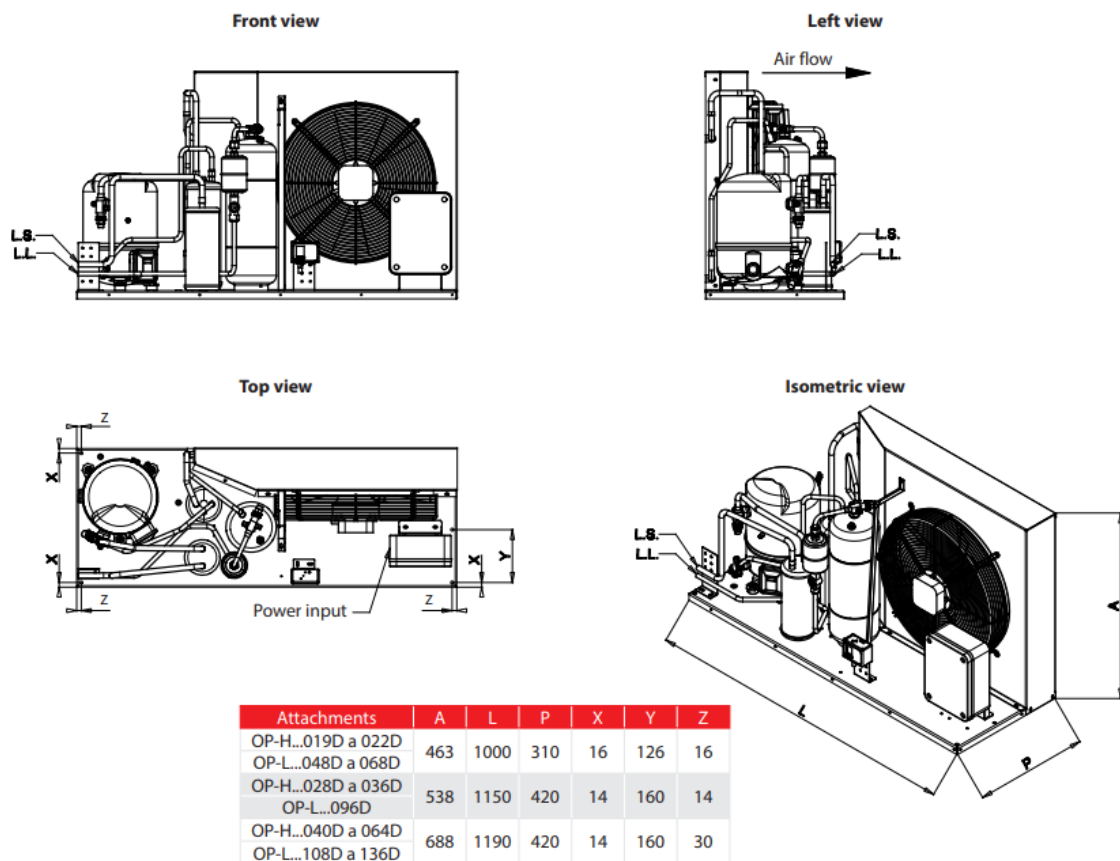
|                |   |   |          |          |          |          |
|----------------|---|---|----------|----------|----------|----------|
| OP-LGZ2<br>71D | — | — | 120F0285 | NTZ271-3 | 120F0307 | NTZ271-9 |
|----------------|---|---|----------|----------|----------|----------|

**Dimensions**

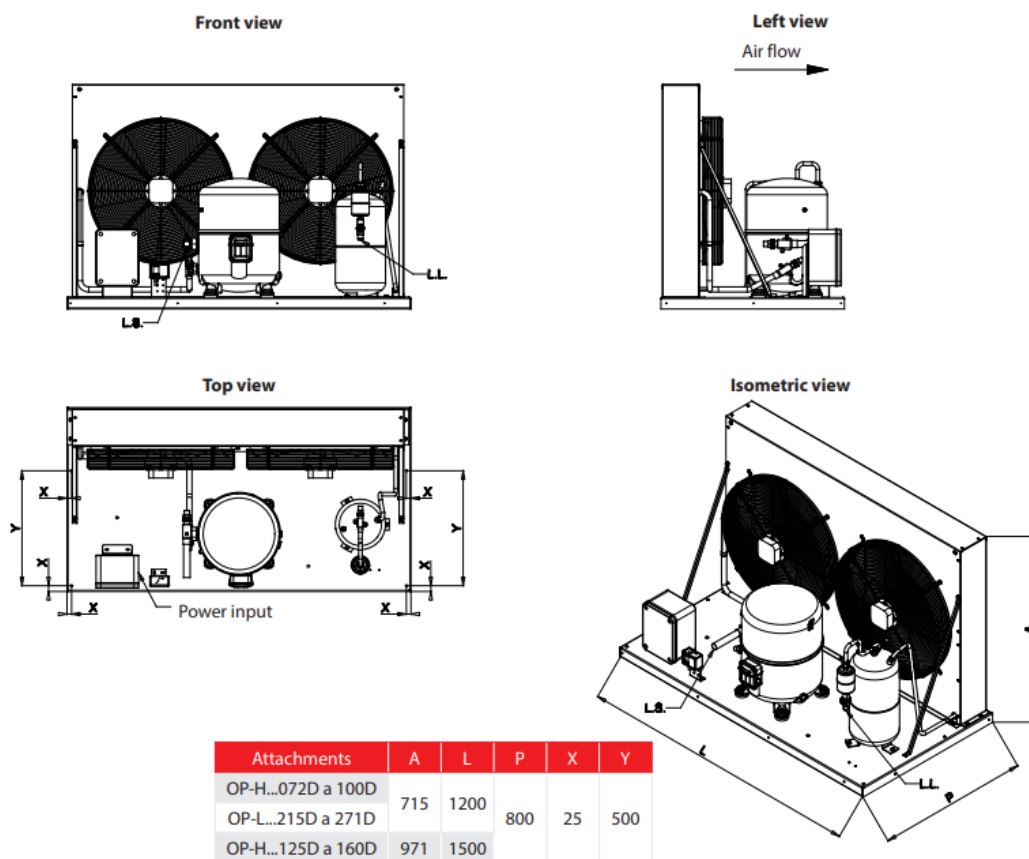
**Version D20 e D39 (1 Fan)**



**Version D49 (1 Fan)**

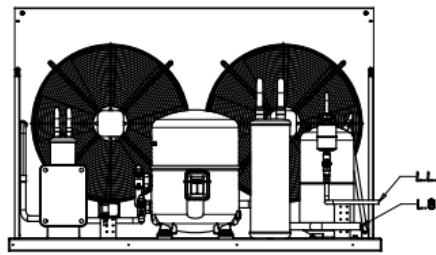


### Version D20 e D39 (2 Fans)



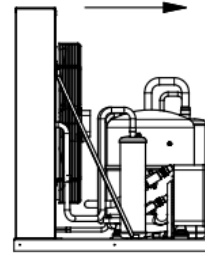
### Version 49 (2 Fans)

Front view

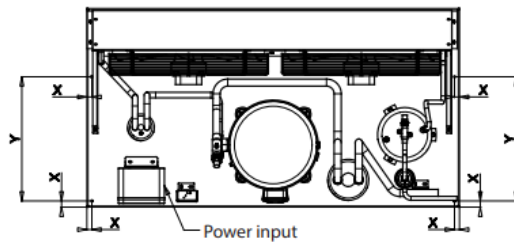


Right view

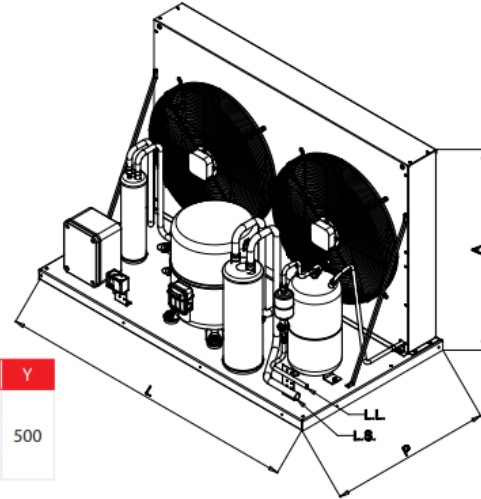
Air flow



Top view

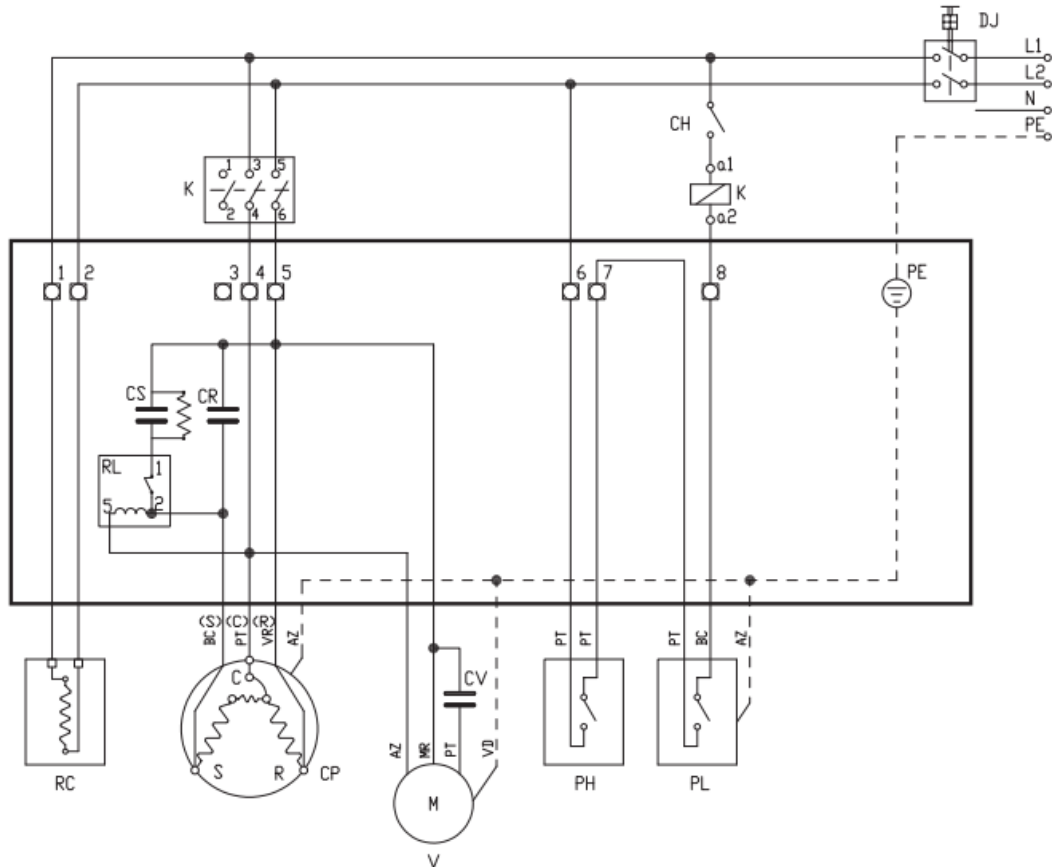


Isometric view



| Attachments        | A   | L    | P   | X  | Y   |
|--------------------|-----|------|-----|----|-----|
| OP-H...072D a 100D | 715 | 1200 |     |    |     |
| OP-L...215D a 271D |     |      | 800 | 25 | 500 |
| OP-H...125D a 160D | 971 | 1500 |     |    |     |

## Electrical wiring diagrams





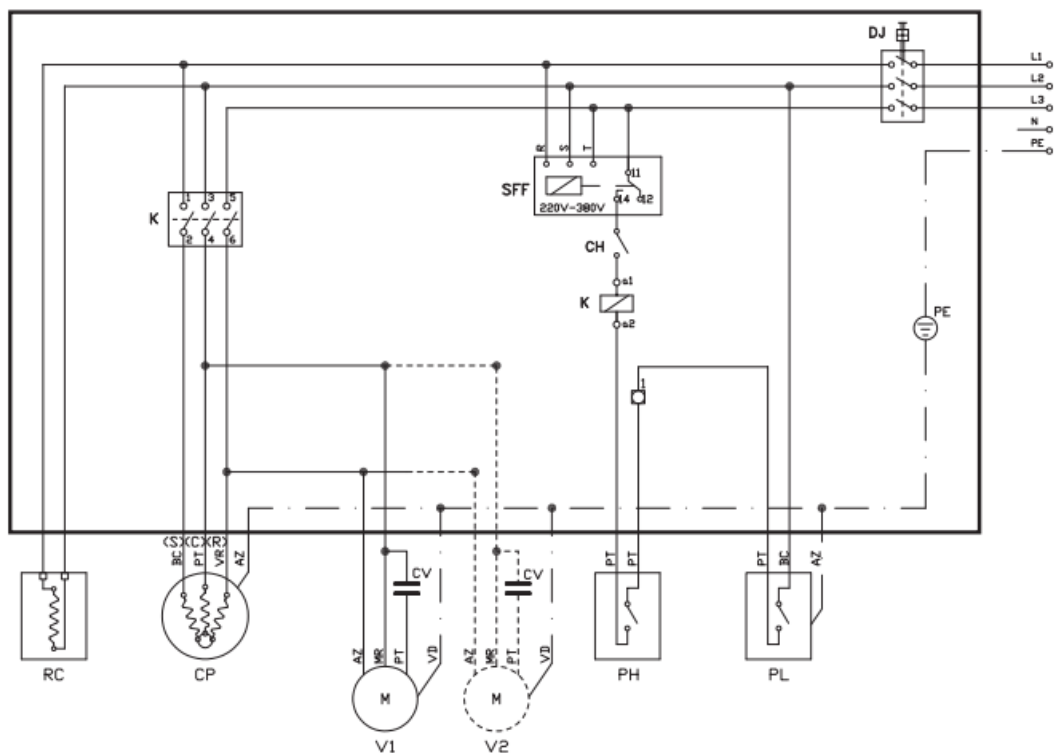
| Legenda |                      |
|---------|----------------------|
| CH      | Switch on/o          |
| CP      | Compressor           |
| CR      | Capacitor run        |
| CS      | Capacitor start      |
| CV      | Capacitor fan        |
| DJ*     | Circuit breaker      |
| K*      | Contactor            |
| PH      | High pressure switch |
| PL      | Low pressure switch  |
| RC      | Crankcase heater     |
| RL      | Relay                |
| V       | Fan                  |

\* Items not available for version D20.

| Application | Model        | Condensing unit | Compressor 230V / 1F |         | Fan 230V / 1F |              |
|-------------|--------------|-----------------|----------------------|---------|---------------|--------------|
|             |              | MCA [A]         | LRA [A]              | MCA [A] | FLA [A]       | Potência [W] |
| MBP         | OP-HJM(Z)019 | 14.40           | 53.0                 | 13.0    | 1.00          | 240          |
|             | OP-HJM(Z)022 | 18.40           | 53.0                 | 17.0    | 1.00          | 240          |
|             | OP-HJM(Z)028 | 27.76           | 81.0                 | 25.0    | 1.97          | 450          |
|             | OP-HJM(Z)032 | 29.26           | 84.0                 | 26.5    | 1.97          | 450          |
|             | OP-HJM(Z)036 | 32.76           | 84.0                 | 30.0    | 1.97          | 450          |
|             | OP-HJM(Z)040 | 336.76          | 99.0                 | 334.0   | 1.97          | 450          |
|             | OP-HJM(Z)044 | 33.76           | 97.0                 | 31.0    | 1.97          | 450          |
|             | OP-HJM(Z)050 | 38.76           | 114.0                | 36.0    | 1.97          | 450          |
|             | OP-HJM(Z)056 | 45.26           | 136.0                | 42.5    | 1.97          | 450          |
|             | OP-HJM(Z)064 | 48.76           | 143.0                | 46.0    | 1.97          | 450          |
| LBP         | OP-LJZ048    | 14.60           | 52.0                 | 13.2    | 1.00          | 240          |
|             | OP-LJZ068    | 22.40           | 76.0                 | 21.0    | 1.00          | 240          |
|             | OP-LJZ096    | 33.76           | 112.0                | 31.0    | 1.97          | 450          |
|             | OP-LJZ108    | 35.76           | 97.0                 | 33.0    | 1.97          | 450          |
|             | OP-LJZ136    | 43.76           | 140.0                | 41.0    | 1.97          | 450          |

MCA: Minimum Circuit Amps  
LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage

**Electrical code Q – 230V / 3F / 60Hz**



### Legenda

|       |                      |
|-------|----------------------|
| CH    | Switch on/o          |
| CP    | Compressor           |
| CV    | Capacitor fan        |
| DJ*   | Circuit breaker      |
| K*    | Contactor            |
| PH    | High pressure switch |
| PL    | Low pressure switch  |
| RC    | Crankcase heater     |
| SFF*  | Sequence phase relay |
| V1-V2 | Fan                  |

\* Items not available for version D20.

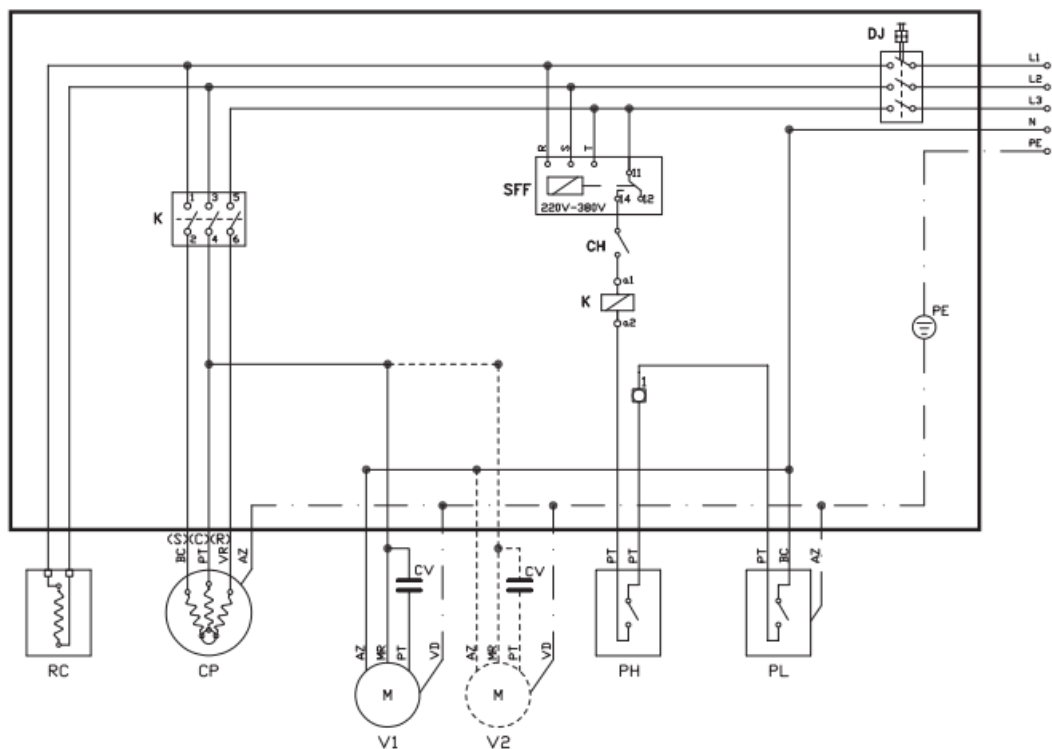
| Application | Model        | Condensing unit | Compressor 230V / 1F |         | Fan 230V / 1F |              |
|-------------|--------------|-----------------|----------------------|---------|---------------|--------------|
|             |              | MCA [A]         | LRA [A]              | MCA [A] | FLA [A]       | Potência [W] |
|             | OP-HJM(Z)019 | 10.40           | 38.0                 | 9.0     | 1.00          | 240          |
|             | OP-HJM(Z)022 | 12.40           | 38.0                 | 11.0    | 1.00          | 240          |
|             | OP-HJM(Z)028 | 18.76           | 57.0                 | 16.0    | 1.97          | 450          |

|     |              |       |       |      |      |          |
|-----|--------------|-------|-------|------|------|----------|
| MBP |              |       |       |      |      |          |
|     | OP-HJM(Z)032 | 20.76 | 60.0  | 18.0 | 1.97 | 450      |
|     | OP-HJM(Z)036 | 19.76 | 74.0  | 17.0 | 1.97 | 450      |
|     | OP-HJM(Z)040 | 24.76 | 98.0  | 22.0 | 1.97 | 450      |
|     | OP-HJM(Z)044 | 19.76 | 115.0 | 17.0 | 1.97 | 450      |
|     | OP-HJM(Z)050 | 24.76 | 120.0 | 22.0 | 1.97 | 450      |
|     | OP-HJM(Z)056 | 26.76 | 130.0 | 24.0 | 1.97 | 450      |
|     | OP-HJM(Z)064 | 30.76 | 135.0 | 28.0 | 1.97 | 450      |
|     | OP-HGM(Z)072 | 37.52 | 155.0 | 32.0 | 3.94 | 450 (x2) |
|     | OP-HGM(Z)080 | 41.52 | 140.0 | 36.0 | 3.94 | 450 (x2) |
|     | OP-HGM(Z)100 | 48.52 | 157.0 | 43.0 | 3.94 | 450 (x2) |
|     | OP-HGM(Z)125 | 61.84 | 210.0 | 54.0 | 5.60 | 600 (x2) |
|     | OP-HGM(Z)144 | 71.84 | 259.0 | 64.0 | 5.60 | 600 (x2) |
|     | OP-HGM(Z)160 | 77.84 | 259.0 | 70.0 | 5.60 | 600 (x2) |
| LBP | OP-LJZ048    | 11.50 | 32.0  | 10.1 | 1.00 | 240      |
|     | OP-LJZ068    | 16.20 | 48.5  | 14.8 | 1.00 | 240      |
|     | OP-LJZ096    | 23.16 | 72.0  | 20.4 | 1.97 | 450      |
|     | OP-LJZ108    | 24.16 | 72.0  | 21.4 | 1.97 | 450      |
|     | OP-LJZ136    | 31.76 | 97.2  | 29.0 | 1.97 | 450      |
|     | OP-LGZ215    | 47.82 | 147.7 | 42.3 | 3.94 | 450 (x2) |
|     | OP-LGZ271    | 62.02 | 198.0 | 56.5 | 3.94 | 450 (x2) |

MCA: Minimum Circuit Amps  
LRA: Locked Rotor Amperage  
MCC: Maximum Continuous Current  
FLA: Full Load Amperage

**Electrical code V – 380V / 3F / 60Hz**





### Legenda

|       |                      |
|-------|----------------------|
| CH    | Switch on/o          |
| CP    | Compressor           |
| CV    | Capacitor fan        |
| DJ*   | Circuit breaker      |
| K*    | Contactor            |
| PH    | High pressure switch |
| PL    | Low pressure switch  |
| RC    | Crankcase heater     |
| SFF*  | Sequence phase relay |
| V1-V2 | Fan                  |

\* Items not available for version D20.

| Application | Model        | Condensing unit | Compressor<br>230V / 1F |         | Fan<br>230V / 1F |              |
|-------------|--------------|-----------------|-------------------------|---------|------------------|--------------|
|             |              | MCA [A]         | LRA [A]                 | MCA [A] | FLA [A]          | Potência [W] |
|             | OP-HJM(Z)019 | 6.40            | 23.0                    | 5.0     | 1.00             | 240          |
|             | OP-HJM(Z)022 | 7.40            | 22.5                    | 6.0     | 1.00             | 240          |
|             | OP-HJM(Z)028 | 11.26           | 32.0                    | 8.5     | 1.97             | 450          |

|     |              |       |       |      |      |          |
|-----|--------------|-------|-------|------|------|----------|
| MBP | OP-HJM(Z)032 | 11.76 | 35.0  | 9.0  | 1.97 | 450      |
|     | OP-HJM(Z)036 | 12.26 | 35.0  | 9.5  | 1.97 | 450      |
|     | OP-HJM(Z)040 | 12.76 | 38.0  | 10.0 | 1.97 | 450      |
|     | OP-HJM(Z)044 | 15.76 | 78.0  | 13.0 | 1.97 | 450      |
|     | OP-HJM(Z)050 | 16.26 | 78.0  | 13.5 | 1.97 | 450      |
|     | OP-HJM(Z)056 | 17.76 | 72.0  | 15.0 | 1.97 | 450      |
|     | OP-HJM(Z)064 | 20.26 | 72.0  | 17.5 | 1.97 | 450      |
|     | OP-HGM(Z)072 | 24.02 | 100.0 | 18.5 | 3.94 | 450 (x2) |
|     | OP-HGM(Z)080 | 28.02 | 102.0 | 22.5 | 3.94 | 450 (x2) |
|     | OP-HGM(Z)100 | 31.52 | 110.0 | 26.0 | 3.94 | 450 (x2) |
|     | OP-HGM(Z)125 | 37.84 | 150.0 | 30.0 | 5.60 | 600 (x2) |
|     | OP-HGM(Z)144 | 47.84 | 165.0 | 40.0 | 5.60 | 600 (x2) |
|     | OP-HGM(Z)160 | 53.84 | 165.0 | 46.0 | 5.60 | 600 (x2) |
| LBP | OP-LJZ048    | 6.40  | 22.0  | 5.0  | 1.00 | 240      |
|     | OP-LJZ068    | 9.90  | 29.0  | 8.5  | 1.00 | 240      |
|     | OP-LJZ096    | 13.76 | 57.0  | 11.0 | 1.97 | 450      |
|     | OP-LJZ108    | 13.76 | 57.0  | 11.0 | 1.97 | 450      |
|     | OP-LJZ136    | 17.76 | 64.0  | 15.0 | 1.97 | 450      |
|     | OP-LGZ215    | 28.52 | 110.0 | 23.0 | 3.94 | 450 (x2) |
|     | OP-LGZ271    | 35.52 | 150.0 | 30.0 | 3.94 | 450 (x2) |

MCA: Minimum Circuit Amps

LRA: Locked Rotor Amperage

MCC: Maximum Continuous Current

FLA: Full Load Amperage

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## 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.



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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## Documents / Resources



[Danfoss OPTYMA Plus Condensing Unit](#) [pdf] Instruction Manual  
OPTYMA Plus Condensing Unit, OPTYMA, Plus Condensing Unit, Condensing Unit

## References

-  [Coolselector®2 free cooling calculation software | Danfoss](#)
-  [Danfoss - Engineering Tomorrow | Danfoss](#)
- [User Manual](#)

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