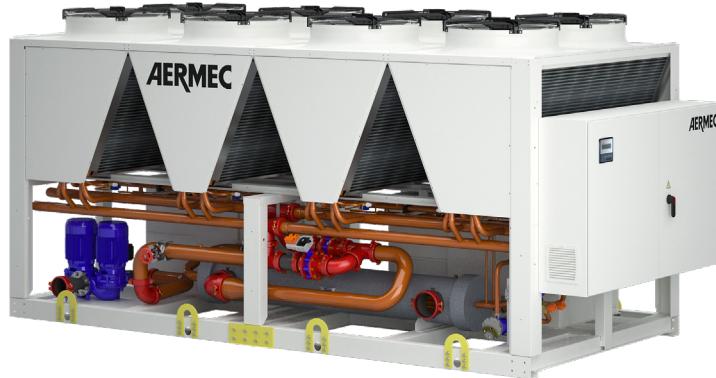


NSM 1402-9603 F

Air-water chiller with free-cooling

Cooling capacity 306 ÷ 2028 kW

- Microchannel coil
- Night mode
- Operation up to 50 °C outdoor air
- High efficiency also at partial loads



DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in residential/commercial complexes or industrial applications. These are outdoor units with screw compressors, axial fans, micro-channel coils, and shell and tube heat exchangers. The base, the structure and the panels are made of galvanized steel treated with polyester paint RAL 9003.

VERSIONS

- A** High efficiency
- E** Silenced high efficiency
- N** Silenced very high efficiency
- U** Very high efficiency

FEATURES

Operating field

Operation at full load up to 50 °C external air temperature depending on size and version. For further details refer to the selection software/technical documentation.

Unit with 2/3 cooling circuits

Unit with 2/3 refrigerant circuits designed to provide maximum efficiency at full load, ensuring high efficiency at partial loads also and ensuring continuity in case one of the circuits stops.

Condensation control temperature

Fitted as standard with a device for electronic condensation control so that the unit can work even with low temperatures, adapting the air flow rate to the actual system request in order to reduce consumption.

Aluminium microchannel coils

The whole range uses microchannel condenser coils allowing reduction of refrigerant charge but keeping the same high efficiency.

Free-cooling water coils

These units also have a water coil dedicated to free-cooling mode. Free-cooling offers significant energy saving in applications that require cooling all year round.

As soon as the outside air temperature allows, a valve makes the water flow towards the free-cooling battery which is cooled directly by the air. The compressors are completely shut down, if possible, leading to considerable electrical savings.

A "P" free-cooling plus model with the oversized water battery can be chosen for applications in which a higher free-cooling performance is required.

Electronic expansion valve

Electronic thermostatic as standard from size 5202 to 6402 and from 8403 to 9603.

The possibility to use electronic expansion valve, offers significant benefits, especially when the chiller is working with partial loads, increasing the energy efficiency of the unit.

Integrated hydronic kit

To obtain a solution that offers economic savings and easy installation, these units can be configured with an integrated hydronic kit on both the service side and the recovery side.

The kit contains the main hydraulic components, and is available in various configurations with a single pump or a standby pump too, so the customer can choose the right useful head.

CONTROL

Microprocessor adjustment, with keyboard and LCD display, for easy access on the unit is a menu available in several languages.

- The presence of a programmable timer allows functioning time periods and a possible second set-point to be set.
- The temperature control takes place with the integral proportional logic, based on the water output temperature.
- **Night Mode:** it is possible to set a silenced operation profile. Perfect for night operation since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.

ACCESSORIES

AER485P1 x n° 2: RS-485 interface for supervision systems with MODBUS protocol.

AER485P1 x n° 3: RS-485 interface for supervision systems with MOD-BUS protocol.

AERBACP: Ethernet communication Interface for protocols Bacnet/IP, Modbus TCP/IP, SNMP

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

MULTICHILLER_EVO: Control, switch-on and switch-off system of the single chillers where multiple units are installed in parallel, always ensuring constant flow rate to the evaporators.

PRV3: Allows you to control the chiller at a distance.

AVX: Spring anti-vibration supports.

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

GP_: Anti-intrusion grid kit

KRS: Electric heater for the heat exchanger

ACCESSORIES COMPATIBILITY

| Model | Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| AER485P1 x n° 2 (1) | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AERBACP | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AERNET | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| MULTICHILLER_EVO | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| PRV3 | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Model | Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
| AER485P1 x n° 2 (1) | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AER485P1 x n° 3 (1) | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AERBACP | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AERNET | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| MULTICHILLER_EVO | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| PRV3 | A,E,N,U | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

(1) x Indicates the quantity of accessories to match.

Antivibration - NSM free - cooling

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | |
| A | AVX929 | AVX929 | AVX929 | AVX932 | AVX933 | AVX933 | AVX933 | AVX934 | AVX937 | AVX937 | AVX937 | AVX938 | AVX938 | AVX942 |
| E,U | AVX929 | AVX929 | AVX930 | AVX933 | AVX933 | AVX934 | AVX934 | AVX935 | AVX935 | AVX935 | AVX935 | AVX939 | AVX939 | AVX940 |
| N | AVX930 | AVX930 | AVX931 | AVX931 | AVX934 | AVX935 | AVX935 | AVX936 | AVX936 | AVX936 | AVX936 | AVX940 | AVX941 | AVX943 |
| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | |
| A | AVX942 | AVX944 | AVX944 | AVX944 | AVX945 | AVX947 | AVX947 | AVX953 | AVX953 | AVX957 | AVX954 | AVX954 | AVX956 | AVX955 |
| E,U | AVX941 | AVX945 | AVX947 | AVX947 | AVX950 | AVX952 | AVX948 | AVX954 | AVX956 | AVX956 | AVX958 | - | - | - |
| N | AVX943 | AVX946 | AVX948 | AVX949 | AVX951 | AVX951 | AVX951 | AVX955 | - | - | - | - | - | - |

Anti-intrusion grid

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|
| A | GP4V | GP4V | GP4V | GP4V | GPSV | GP5V | GP5V | GP6V | GP6V | GP6V | GP7V | GP7V | GP8V | |
| E,U | GP4V | GP4V | GP5V | GPSV | GPSV | GP6V | GP6V | GP7V | GP7V | GP7V | GP8V | GP8V | GP9V | |
| N | GP5V | GP5V | GP6V | GP6V | GP7V | GP7V | GP8V | GP8V | GP8V | GP8V | GP9V | GP10V | GP11V | |

A grey background indicates the accessory must be assembled in the factory

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|-----|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|--|
| A | GP8V | GP9V | GP9V | GP9V | - | GP11V | GP11V | GP4V+GP8V | GP4V+GP8V | GP9V | GP5V+GP9V | GP5V+GP10V | GP6V+GP11V | |
| E,U | GP10V | GP10V | GP11V | GP11V | GP6V+GP6V | GP6V+GP7V | GP7V+GP7V | GP5V+GP9V | GP5V+GP10V | GP5V+GP10V | GP6V+GP11V | - | - | |
| N | GP11V | GP6V+GP7V | GP7V+GP7V | GP7V+GP8V | GP8V+GP8V | GP8V+GP8V | GP8V | GP6V+GP11V | - | - | - | - | - | |

The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory

Heater exchangers

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | KRS22 | KRS22 | KRS23 | KRS24 | KRS24 | KRS24 |
| E,N,U | KRS23 | KRS24 | KRS24 | KRS24 |

A grey background indicates the accessory must be assembled in the factory

| Ver | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|-----|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| A | KRS24 | KRS24 | KRS23 | KRS24 | KRS24 | KRS24 | KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | |
| E,U | KRS24 | KRS24 | KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS23 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | KRS23+KRS24 | |
| N | KRS24 | KRS23+KRS23 | |

The accessory cannot be fitted on the configurations indicated with -

A grey background indicates the accessory must be assembled in the factory

Power factor correction

| Ver | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352Q | RIFNSM2502Q | RIFNSM2652Q | RIFNSM2802C |
| E | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002Q | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| N | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802C | RIFNSM2002Q | RIFNSM2202C | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |
| U | RIFNSM1402Q | RIFNSM1602Q | RIFNSM1802Q | RIFNSM2002C | RIFNSM2202Q | RIFNSM2352C | RIFNSM2502C | RIFNSM2652Q | RIFNSM2802C |

A grey background indicates the accessory must be assembled in the factory

| Ver | 3002 | 3202 | 3402 | 3602 | 3902 | 4202 | 4502 | 4802 | 5202 |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| A,E,U | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | RIFNSM4502C | RIFNSM4802C | RIFNSM5202C |
| N | RIFNSM3002C | RIFNSM3202C | RIFNSM3402C | RIFNSM3602C | RIFNSM3902C | RIFNSM4202C | - | - | - |

The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

| Ver | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----|-------------|-------------|-------------|------|------|------|------|------|------|
| A | RIFNSM5602C | RIFNSM6002C | RIFNSM6402C | - | - | - | - | - | - |

The accessory cannot be fitted on the configurations indicated with -
A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

| Field | Description |
|---------|--|
| 1,2,3 | NSM |
| | Size |
| 4,5,6,7 | 1402, 1602, 1802, 2002, 2202, 2352, 2502, 2652, 2802, 3002, 3202, 3402, 3602, 3902, 4202, 4502, 4802, 5202, 5602, 6002, 6402, 6503, 6703, 6903, 7203, 8403, 9603 |
| 8 | Operating field |
| | ◦ Standard mechanic thermostatic valve (1) |
| X | Electronic thermostatic expansion valve (2) |
| Y | Low temperature mechanic thermostatic valve (3) |
| Z | Low temperature electronic thermostatic valve (3) |
| 9 | Model |
| F | Free-cooling |
| P | Free-cooling plus (4) |
| 10 | Heat recovery |
| | ◦ Without heat recovery |
| D | With desuperheater |
| 11 | Version |
| A | High efficiency |
| E | Silenced high efficiency |
| N | Silenced very high efficiency |
| U | Very high efficiency |
| 12 | Coils / free-cooling coils |
| | ◦ Alluminium microchannel / Copper - aluminium |
| I | Copper-aluminium / Copper-aluminium |
| O | Painted alluminium microchannel / Copper painted aluminium |
| R | Copper-copper/Copper-copper |
| S | Copper-Tinned copper / Copper -Tinned copper |
| V | Copper-painted aluminim / Copper-painted aluminim |
| 13 | Fans |
| | ◦ Standard |
| J | Inverter |
| 14 | Power supply |
| | ◦ 400V ~ 3 50Hz with fuses |
| 2 | 230V ~ 3 50Hz with fuses (5) |

| Field | Description |
|-------|--|
| 4 | 230V ~ 3 50Hz with magnet circuit breakers (5) |
| 8 | 400V ~ 3 50Hz with magnet circuit breakers |
| 15,16 | Integrated hydronic kit |
| 00 | Without hydronic kit |
| PA | Pump A |
| PB | Pump B |
| PC | Pump C |
| PD | Pump D |
| PE | Pump E |
| PF | Pump F |
| PG | Pump G |
| PH | Pump H |
| PI | Pump I |
| PJ | Pump J (6) |
| DA | Pump A + stand-by pump |
| DB | Pump B + stand-by pump |
| DC | Pump C + stand-by pump |
| DD | Pump D + stand-by pump |
| DE | Pump E + stand-by pump |
| DF | Pump F + stand-by pump |
| DG | Pump G + stand-by pump |
| DH | Pump H + stand-by pump |
| DI | Pump I + stand-by pump |
| DJ | Pump J + stand-by pump (6) |
| TF | Double pump F (7) |
| TG | Double pump G (7) |
| TH | Double pump H (7) |
| TI | Double pump I (7) |
| TJ | Double pump J (7) |

- (1) Water produced from 4 °C ÷ 15 °C
- (2) Water produced from 4 °C ÷ -18 °C
- (3) Water produced from 4 °C ÷ -6 °C
- (4) The Free-Cooling Plus "P" models are only compatible with "O" ed "0"
- (5) available only for size from 1402 to 2202
- (6) For all configurations including pump J please contact the factory.
- (7) The unit from 5603 to 9603 can only have hydronic kit "TF - TG - TH - TI - TJ"

PERFORMANCE SPECIFICATIONS

NSM - A

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Model: F

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | | |
|-----------------------------|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 306,5 | 350,2 | 396,8 | 450,5 | 505,3 | 522,5 | 556,5 | 600,8 | 649,8 | 678,4 | 726,3 | 813,3 | 872,8 | 954,1 |
| Input power | kW | 102,8 | 117,6 | 136,7 | 158,3 | 168,9 | 180,5 | 194,5 | 203,0 | 220,4 | 235,0 | 252,8 | 269,7 | 295,6 | 317,9 |
| Cooling total input current | A | 182,3 | 206,2 | 230,6 | 268,0 | 291,3 | 311,4 | 335,2 | 351,3 | 378,4 | 400,0 | 426,5 | 450,9 | 486,5 | 530,4 |
| EER | W/W | 2,98 | 2,98 | 2,90 | 2,85 | 2,99 | 2,90 | 2,86 | 2,96 | 2,95 | 2,89 | 2,87 | 3,02 | 2,95 | 3,00 |
| Water flow rate system side | l/h | 52654 | 60163 | 68174 | 77407 | 86812 | 89765 | 95621 | 103224 | 111642 | 116561 | 124785 | 139737 | 149958 | 163932 |
| Pressure drop system side | kPa | 45 | 59 | 54 | 36 | 45 | 48 | 54 | 63 | 67 | 73 | 65 | 43 | 50 | 61 |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | | |
|----------------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 347,7 | 362,0 | 373,1 | 381,9 | 468,1 | 471,2 | 476,5 | 560,7 | 569,1 | 573,2 | 578,8 | 671,5 | 677,9 | 770,2 |
| Input power | kW | 15,0 | 15,0 | 15,0 | 15,0 | 18,7 | 18,7 | 18,7 | 22,5 | 22,5 | 22,5 | 22,5 | 26,2 | 26,2 | 30,0 |
| Free cooling total input current | A | 30,4 | 30,4 | 30,4 | 30,4 | 38,0 | 38,0 | 38,0 | 45,6 | 45,6 | 45,6 | 45,6 | 53,2 | 53,2 | 60,8 |
| EER | W/W | 23,18 | 24,14 | 24,88 | 25,47 | 24,97 | 25,14 | 25,42 | 24,93 | 25,30 | 25,48 | 25,73 | 25,59 | 25,83 | 25,68 |
| Water flow rate system side | l/h | 60230 | 68250 | 77490 | 86910 | 89860 | 95730 | 103340 | 111770 | 116690 | 124920 | 139890 | 150120 | 164110 | 171460 |
| Pressure drop system side | kPa | 66 | 86 | 85 | 76 | 78 | 84 | 95 | 98 | 107 | 116 | 113 | 87 | 99 | 107 |

Model: P

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | | |
|-----------------------------|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 305,8 | 349,3 | 395,0 | 447,3 | 502,1 | 519,1 | 552,6 | 597,2 | 645,4 | 674,3 | 721,9 | 807,8 | 865,0 | 946,8 |
| Input power | kW | 103,7 | 118,8 | 138,1 | 160,2 | 170,8 | 182,6 | 197,0 | 205,3 | 223,1 | 238,4 | 257,1 | 273,3 | 299,3 | 321,8 |
| Cooling total input current | A | 182,3 | 206,2 | 230,6 | 268,0 | 291,3 | 311,4 | 335,2 | 351,3 | 378,4 | 400,0 | 426,5 | 450,9 | 486,5 | 530,4 |
| EER | W/W | 2,95 | 2,94 | 2,86 | 2,79 | 2,94 | 2,84 | 2,81 | 2,91 | 2,89 | 2,83 | 2,81 | 2,96 | 2,89 | 2,94 |
| Water flow rate system side | l/h | 52546 | 60019 | 67864 | 76853 | 86266 | 89180 | 94948 | 102598 | 110891 | 115859 | 124023 | 138789 | 148609 | 162675 |
| Pressure drop system side | kPa | 45 | 59 | 54 | 36 | 45 | 48 | 54 | 63 | 67 | 73 | 65 | 43 | 50 | 61 |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | | |
|----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 371,8 | 388,1 | 400,1 | 409,1 | 501,9 | 505,2 | 510,5 | 601,2 | 610,0 | 614,2 | 619,7 | 719,2 | 725,2 | 824,6 |
| Input power | kW | 15,2 | 15,2 | 15,2 | 15,2 | 19,0 | 19,0 | 19,0 | 22,9 | 22,9 | 22,9 | 22,9 | 26,7 | 26,7 | 30,5 |
| Free cooling total input current | A | 30,7 | 30,7 | 30,7 | 30,7 | 38,4 | 38,4 | 38,4 | 46,1 | 46,1 | 46,1 | 46,1 | 53,7 | 53,7 | 61,4 |
| EER | W/W | 24,41 | 25,48 | 26,27 | 26,86 | 26,36 | 26,53 | 26,81 | 26,31 | 26,69 | 26,88 | 27,12 | 26,98 | 27,20 | 27,07 |
| Water flow rate system side | l/h | 52710 | 60230 | 68250 | 77490 | 86910 | 89860 | 95730 | 103340 | 111770 | 116690 | 124920 | 139890 | 150120 | 164110 |
| Pressure drop system side | kPa | 66 | 86 | 86 | 76 | 79 | 84 | 95 | 98 | 107 | 117 | 114 | 87 | 100 | 108 |

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / * °C; External air 2°C

NSM - A

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Model: F

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | |
|-----------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 996,8 | 1082,3 | 1128,3 | 1167,3 | 1222,8 | 1304,9 | 1346,7 | 1459,2 | 1501,9 | 1659,0 | 1705,0 | 1838,1 | 2028,1 |
| Input power | kW | 346,1 | 365,7 | 391,9 | 422,5 | 438,9 | 452,7 | 472,4 | 492,1 | 520,2 | 557,2 | 583,3 | 659,0 | 704,1 |
| Cooling total input current | A | 581,4 | 614,0 | 654,6 | 703,8 | 733,3 | 761,1 | 795,9 | 821,1 | 872,1 | 945,1 | 985,8 | 1100,0 | 1197,7 |
| EER | W/W | 2,88 | 2,96 | 2,88 | 2,76 | 2,79 | 2,88 | 2,85 | 2,97 | 2,89 | 2,98 | 2,92 | 2,79 | 2,88 |
| Water flow rate system side | l/h | 171269 | 185947 | 193855 | 200561 | 210092 | 224201 | 231379 | 250713 | 258050 | 285029 | 292937 | 315803 | 348457 |
| Pressure drop system side | kPa | 66 | 81 | 88 | 75 | 82 | 96 | 102 | 61 | 66 | 81 | 88 | 82 | 102 |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | | |
|----------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 774,7 | 867,5 | 872,2 | 875,9 | 966,0 | 1058,3 | 1062,8 | 1158,4 | 1162,7 | 1346,7 | 1346,7 | 1351,7 | 1449,5 | 1636,8 |
| Input power | kW | 30,0 | 33,7 | 33,7 | 33,7 | 37,5 | 41,2 | 41,2 | 45,0 | 45,0 | 52,5 | 52,5 | 56,2 | 63,7 | |
| Free cooling total input current | A | 60,8 | 68,4 | 68,4 | 68,4 | 76,0 | 83,6 | 83,6 | 91,2 | 91,2 | 106,4 | 106,4 | 114,0 | 129,2 | |
| EER | W/W | 25,83 | 25,71 | 25,85 | 25,96 | 25,77 | 25,66 | 25,77 | 25,75 | 25,85 | 25,66 | 25,75 | 25,78 | 25,68 | |
| Water flow rate system side | l/h | 186150 | 194070 | 200780 | 210330 | 224450 | 231640 | 250990 | 258340 | 285350 | 293260 | 316150 | 348840 | 348457 | |
| Pressure drop system side | kPa | 117 | 130 | 141 | 131 | 134 | 145 | 154 | 107 | 117 | 130 | 141 | 134 | 155 | |

Model: P

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | |
|-----------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 988,7 | 1074,2 | 1119,1 | 1156,4 | 1212,7 | 1295,2 | 1336,2 | 1447,7 | 1489,6 | 1646,9 | 1691,9 | 1822,8 | 2013,1 |
| Input power | kW | 350,6 | 370,3 | 397,1 | 428,3 | 444,3 | 458,0 | 478,2 | 498,2 | 527,1 | 564,0 | 590,8 | 667,0 | 712,4 |
| Cooling total input current | A | 581,4 | 614,0 | 654,6 | 703,8 | 733,3 | 761,1 | 795,9 | 821,1 | 872,1 | 945,1 | 985,8 | 1100,0 | 1197,7 |
| EER | W/W | 2,82 | 2,90 | 2,82 | 2,70 | 2,73 | 2,83 | 2,79 | 2,91 | 2,83 | 2,92 | 2,86 | 2,73 | 2,83 |
| Water flow rate system side | l/h | 169873 | 184553 | 192278 | 198678 | 208362 | 222522 | 229577 | 248739 | 255936 | 282961 | 290686 | 313186 | 345875 |
| Pressure drop system side | kPa | 66 | 81 | 88 | 75 | 82 | 96 | 102 | 61 | 66 | 81 | 88 | 82 | 102 |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | |
|----------------------------------|----|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 828,9 | 928,7 | 933,1 | 936,5 | 1033,8 | 1133,1 | 1137,4 | 1239,8 | 1243,9 | 1442,0 | 1446,8 | 1551,1 | 1752,4 |
| Input power | kW | 30,5 | 34,3 | 34,3 | 34,3 | 38,1 | 41,9 | 41,9 | 45,7 | 45,7 | 53,3 | 53,3 | 57,1 | 64,7 |
| Free cooling total input current | A | 61,4 | 69,1 | 69,1 | 69, | | | | | | | | | |

NSM - E

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 | |
|---|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 319,8 | 365,8 | 417,7 | 473,0 | 509,1 | 549,8 | 568,8 | 618,6 | 646,3 | 675,1 | 715,5 | 796,7 | 851,7 | 929,6 |
| Input power | kW | 105,5 | 123,3 | 137,5 | 159,4 | 178,3 | 183,3 | 195,5 | 205,2 | 220,4 | 235,9 | 253,5 | 270,8 | 297,1 | 320,1 |
| Cooling total input current | A | 177,3 | 205,7 | 223,1 | 261,0 | 294,5 | 304,8 | 325,9 | 341,6 | 365,4 | 388,5 | 414,7 | 437,5 | 474,1 | 516,8 |
| EER | W/W | 3,03 | 2,97 | 3,04 | 2,97 | 2,85 | 3,00 | 2,91 | 3,01 | 2,93 | 2,86 | 2,82 | 2,94 | 2,87 | 2,90 |
| Water flow rate system side | l/h | 54946 | 62848 | 71763 | 81260 | 87462 | 94455 | 97732 | 106280 | 111041 | 115993 | 122937 | 136886 | 146332 | 159723 |
| Pressure drop system side | kPa | 33 | 37 | 32 | 37 | 43 | 50 | 54 | 53 | 58 | 64 | 66 | 43 | 49 | 60 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 308,8 | 317,5 | 389,9 | 399,1 | 403,2 | 476,4 | 479,1 | 552,1 | 556,5 | 560,4 | 564,7 | 643,3 | 648,3 | 727,0 |
| Input power | kW | 11,0 | 11,0 | 13,7 | 13,7 | 13,7 | 16,5 | 16,5 | 19,2 | 19,2 | 19,2 | 19,2 | 22,0 | 22,0 | 24,7 |
| Free cooling total input current | A | 15,9 | 15,9 | 19,9 | 19,9 | 19,9 | 23,9 | 23,9 | 27,9 | 27,9 | 27,9 | 27,9 | 31,8 | 31,8 | 35,8 |
| EER | W/W | 28,07 | 28,87 | 28,36 | 29,03 | 29,33 | 28,88 | 29,04 | 28,69 | 28,91 | 29,11 | 29,34 | 29,25 | 29,47 | 29,38 |
| Water flow rate system side | l/h | 55010 | 62920 | 71840 | 81350 | 87560 | 94560 | 97840 | 106400 | 111160 | 116120 | 123070 | 137040 | 146490 | 159900 |
| Pressure drop system side | kPa | 56 | 67 | 56 | 68 | 78 | 80 | 85 | 82 | 90 | 98 | 102 | 77 | 88 | 97 |

Model: P

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | | |
|---|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 316,7 | 363,1 | 414,5 | 469,5 | 504,1 | 545,4 | 564,0 | 613,8 | 640,8 | 669,8 | 710,9 | 790,6 | 843,5 | 921,3 |
| Input power | kW | 106,6 | 124,7 | 138,6 | 161,1 | 181,0 | 185,4 | 197,8 | 207,6 | 223,1 | 239,2 | 257,8 | 274,6 | 301,1 | 324,4 |
| Cooling total input current | A | 177,3 | 205,7 | 223,1 | 261,0 | 294,5 | 304,8 | 325,9 | 341,6 | 365,4 | 388,5 | 414,7 | 437,5 | 474,1 | 516,8 |
| EER | W/W | 2,97 | 2,91 | 2,99 | 2,91 | 2,79 | 2,94 | 2,85 | 2,96 | 2,87 | 2,80 | 2,76 | 2,88 | 2,80 | 2,84 |
| Water flow rate system side | l/h | 54406 | 62391 | 71215 | 80666 | 86616 | 93710 | 96909 | 105464 | 110105 | 115087 | 122135 | 135840 | 144915 | 158291 |
| Pressure drop system side | kPa | 33 | 37 | 32 | 37 | 43 | 50 | 54 | 54 | 59 | 64 | 65 | 43 | 49 | 60 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 328,8 | 338,7 | 415,7 | 425,8 | 429,8 | 508,2 | 511,0 | 589,0 | 593,7 | 597,7 | 602,1 | 686,0 | 690,6 | 774,8 |
| Input power | kW | 11,2 | 11,2 | 13,9 | 13,9 | 13,9 | 16,7 | 16,7 | 19,5 | 19,5 | 19,5 | 19,5 | 22,3 | 22,3 | 25,1 |
| Free cooling total input current | A | 16,1 | 16,1 | 20,1 | 20,1 | 20,1 | 24,1 | 24,1 | 28,1 | 28,1 | 28,1 | 28,1 | 32,2 | 32,2 | 36,2 |
| EER | W/W | 29,48 | 30,36 | 29,81 | 30,53 | 30,82 | 30,37 | 30,54 | 30,17 | 30,41 | 30,62 | 30,84 | 30,75 | 30,95 | 30,87 |
| Water flow rate system side | l/h | 55010 | 62920 | 71840 | 81350 | 87560 | 94560 | 97840 | 106400 | 111160 | 116120 | 123070 | 137040 | 146490 | 159900 |
| Pressure drop system side | kPa | 57 | 67 | 57 | 68 | 78 | 80 | 86 | 83 | 90 | 98 | 103 | 77 | 88 | 98 |

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / * °C; External air 2°C

NSM - E

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|---|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---|
| Model: F | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Cooling capacity | kW | 995,2 | 1051,6 | 1137,0 | 1159,2 | 1217,3 | 1279,4 | 1341,6 | 1434,0 | 1499,6 | 1598,6 | 1684,0 | - | - |
| Input power | kW | 339,9 | 370,0 | 389,4 | 418,0 | 436,6 | 448,9 | 461,2 | 491,1 | 510,9 | 568,9 | 588,3 | - | - |
| Cooling total input current | A | 554,8 | 601,5 | 631,6 | 677,8 | 708,4 | 731,9 | 755,4 | 803,9 | 832,3 | 923,9 | 945,4 | - | - |
| EER | W/W | 2,93 | 2,84 | 2,92 | 2,77 | 2,79 | 2,85 | 2,91 | 2,92 | 2,93 | 2,81 | 2,86 | - | - |
| Water flow rate system side | l/h | 170980 | 180685 | 195353 | 199172 | 209139 | 219823 | 230507 | 246385 | 257643 | 274665 | 289333 | - | - |
| Pressure drop system side | kPa | 68 | 79 | 73 | 76 | 67 | 72 | 82 | 60 | 68 | 79 | 73 | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Cooling capacity | kW | 804,0 | 809,4 | 888,6 | 890,5 | 967,2 | 1043,7 | 1119,7 | 1129,8 | 1206,8 | 1215,8 | 1295,1 | - | - |
| Input power | kW | 27,5 | 27,5 | 30,2 | 30,2 | 33,0 | 35,7 | 38,5 | 38,5 | 41,2 | 41,2 | 44,0 | - | - |
| Free cooling total input current | A | 39,8 | 39,8 | 43,8 | 43,8 | 47,8 | 51,7 | 55,7 | 55,7 | 59,7 | 59,7 | 63,7 | - | - |
| EER | W/W | 29,24 | 29,44 | 29,38 | 29,44 | 29,31 | 29,20 | 29,09 | 29,35 | 29,26 | 29,48 | 29,44 | - | - |
| Water flow rate system side | l/h | 171170 | 180890 | 195570 | 199390 | 209370 | 220070 | 230760 | 246660 | 257930 | 274970 | 289650 | - | - |
| Pressure drop system side | kPa | 104 | 119 | 113 | 117 | 107 | 111 | 120 | 98 | 105 | 119 | 113 | - | - |
| Model: P | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Cooling capacity | kW | 987,5 | 1041,9 | 1127,1 | 1148,0 | 1206,7 | 1269,3 | 1332,0 | 1421,7 | 1487,9 | 1583,2 | 1668,4 | - | - |
| Input power | kW | 344,2 | 375,3 | 394,8 | 424,0 | 442,2 | 454,4 | 466,6 | 497,6 | 517,4 | 577,4 | 596,8 | - | - |
| Cooling total input current | A | 554,8 | 601,5 | 631,6 | 677,8 | 708,4 | 731,9 | 755,4 | 803,9 | 832,3 | 923,9 | 945,4 | - | - |
| EER | W/W | 2,87 | 2,78 | 2,86 | 2,71 | 2,73 | 2,79 | 2,85 | 2,86 | 2,88 | 2,74 | 2,80 | - | - |
| Water flow rate system side | l/h | 169667 | 179011 | 193652 | 197235 | 207320 | 218083 | 228845 | 244269 | 255645 | 272005 | 286645 | - | - |
| Pressure drop system side | kPa | 69 | 80 | 74 | 76 | 68 | 72 | 82 | 60 | 69 | 80 | 74 | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Cooling capacity | kW | 857,5 | 862,4 | 947,1 | 948,8 | 1031,1 | 1113,1 | 1194,5 | 1204,3 | 1286,9 | 1295,0 | 1379,9 | - | - |
| Input power | kW | 27,9 | 27,9 | 30,7 | 30,7 | 33,5 | 36,3 | 39,0 | 39,0 | 41,8 | 41,8 | 44,6 | - | - |
| Free cooling total input current | A | 40,2 | 40,2 | 44,2 | 44,2 | 48,2 | 52,3 | 56,3 | 56,3 | 60,3 | 60,3 | 64,3 | - | - |
| EER | W/W | 30,74 | 30,92 | 30,87 | 30,92 | 30,81 | 30,70 | 30,59 | 30,84 | 30,76 | 30,95 | 30,92 | - | - |
| Water flow rate system side | l/h | 171170 | 180890 | 195570 | 199390 | 209370 | 220070 | 230760 | 246660 | 257930 | 274970 | 289650 | - | - |
| Pressure drop system side | kPa | 105 | 119 | 113 | 117 | 107 | 111 | 120 | 98 | 105 | 119 | 113 | - | - |

NSM - U

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Model: F

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | | |
|-----------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 328,1 | 378,5 | 429,3 | 491,9 | 531,3 | 568,6 | 589,0 | 638,0 | 667,8 | 695,1 | 735,8 | 824,8 | 891,0 | 967,9 |
| Input power | kW | 105,3 | 121,3 | 136,2 | 155,8 | 172,9 | 180,0 | 191,0 | 202,4 | 216,1 | 228,4 | 242,4 | 263,0 | 288,2 | 311,5 |
| Cooling total input current | A | 185,8 | 211,5 | 232,0 | 266,3 | 297,1 | 312,9 | 332,3 | 352,6 | 374,2 | 392,3 | 413,0 | 442,7 | 477,2 | 522,6 |
| EER | W/W | 3,12 | 3,12 | 3,15 | 3,16 | 3,07 | 3,16 | 3,08 | 3,15 | 3,09 | 3,04 | 3,04 | 3,14 | 3,09 | 3,11 |
| Water flow rate system side | l/h | 56372 | 65027 | 73755 | 84508 | 91287 | 97691 | 101204 | 109611 | 114731 | 119418 | 126414 | 141715 | 153088 | 166304 |
| Pressure drop system side | kPa | 35 | 39 | 34 | 40 | 46 | 53 | 57 | 57 | 62 | 68 | 68 | 46 | 53 | 65 |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | | |
|----------------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 356,2 | 369,9 | 451,2 | 466,4 | 473,4 | 555,1 | 559,4 | 641,6 | 648,6 | 654,2 | 661,5 | 753,3 | 763,5 | 854,0 |
| Input power | kW | 15,0 | 15,0 | 18,7 | 18,7 | 18,7 | 22,5 | 22,5 | 26,2 | 26,2 | 26,2 | 26,2 | 30,0 | 30,0 | 33,7 |
| Free cooling total input current | A | 30,4 | 30,4 | 38,0 | 38,0 | 38,0 | 45,6 | 45,6 | 53,2 | 53,2 | 53,2 | 53,2 | 60,8 | 60,8 | 68,4 |
| EER | W/W | 23,76 | 24,67 | 24,07 | 24,88 | 25,26 | 24,68 | 24,87 | 24,45 | 24,71 | 24,93 | 25,21 | 25,12 | 25,46 | 25,31 |
| Water flow rate system side | l/h | 56430 | 65100 | 73840 | 84600 | 91390 | 97800 | 101320 | 109730 | 114860 | 119550 | 126550 | 141870 | 153260 | 166490 |
| Pressure drop system side | kPa | 59 | 71 | 60 | 73 | 85 | 85 | 92 | 88 | 96 | 104 | 108 | 82 | 96 | 105 |

Model: P

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | | |
|-----------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 326,9 | 376,7 | 427,6 | 488,8 | 527,6 | 565,4 | 585,6 | 634,6 | 664,0 | 691,7 | 732,5 | 820,3 | 884,7 | 961,8 |
| Input power | kW | 106,3 | 122,5 | 137,6 | 157,4 | 174,8 | 181,8 | 193,0 | 204,4 | 218,3 | 231,1 | 245,7 | 266,0 | 291,3 | 314,8 |
| Cooling total input current | A | 185,8 | 211,5 | 232,0 | 266,3 | 297,1 | 312,9 | 332,3 | 352,6 | 374,2 | 392,3 | 413,0 | 442,7 | 477,2 | 522,6 |
| EER | W/W | 3,08 | 3,07 | 3,11 | 3,10 | 3,02 | 3,11 | 3,03 | 3,10 | 3,04 | 2,99 | 2,98 | 3,08 | 3,04 | 3,06 |
| Water flow rate system side | l/h | 56168 | 64715 | 73458 | 83974 | 90642 | 97138 | 100613 | 109029 | 114089 | 118834 | 125850 | 140933 | 152002 | 165249 |
| Pressure drop system side | kPa | 35 | 40 | 34 | 40 | 47 | 54 | 58 | 57 | 63 | 68 | 69 | 46 | 54 | 65 |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | | |
|----------------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity | kW | 381,5 | 396,7 | 483,5 | 500,0 | 507,4 | 595,1 | 599,9 | 687,8 | 695,4 | 701,6 | 709,4 | 807,7 | 818,0 | 915,4 |
| Input power | kW | 15,2 | 15,2 | 19,0 | 19,0 | 19,0 | 22,9 | 22,9 | 26,7 | 26,7 | 26,7 | 26,7 | 30,5 | 30,5 | 34,3 |
| Free cooling total input current | A | 30,7 | 30,7 | 38,4 | 38,4 | 38,4 | 46,1 | 46,1 | 53,7 | 53,7 | 53,7 | 53,7 | 61,4 | 61,4 | 69,1 |
| EER | W/W | 25,04 | 26,04 | 25,39 | 26,26 | 26,65 | 26,05 | 26,25 | 25,80 | 26,09 | 26,32 | 26,61 | 26,51 | 26,85 | 26,71 |
| Water flow rate system side | l/h | 56430 | 65100 | 73840 | 84600 | 91390 | 97800 | 101320 | 109730 | 114860 | 119550 | 126550 | 141870 | 153260 | 166490 |
| Pressure drop system side | kPa | 60 | 72 | 60 | 74 | 85 | 86 | 92 | 88 | 96 | 104 | 109 | 83 | 96 | 106 |

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / * °C; External air 2°C

NSM - U

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Model: F

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | |
|-----------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|
| Cooling capacity | kW | 1031,1 | 1095,0 | 1181,2 | 1208,8 | 1265,8 | 1326,2 | 1386,6 | 1491,1 | 1554,3 | 1666,6 | 1752,7 | - | - |
| Input power | kW | 332,0 | 358,4 | 379,0 | 405,3 | 426,4 | 440,0 | 453,5 | 478,4 | 498,9 | 549,8 | 570,4 | - | - |
| Cooling total input current | A | 564,1 | 604,8 | 638,6 | 681,5 | 718,3 | 746,0 | 773,7 | 811,6 | 846,2 | 926,2 | 954,2 | - | - |
| EER | W/W | 3,11 | 3,06 | 3,12 | 2,98 | 2,97 | 3,01 | 3,06 | 3,12 | 3,12 | 3,03 | 3,07 | - | - |
| Water flow rate system side | l/h | 177155 | 188137 | 202935 | 207692 | 217477 | 227858 | 238239 | 256194 | 267046 | 286336 | 301135 | - | - |
| Pressure drop system side | kPa | 74 | 86 | 79 | 83 | 73 | 77 | 87 | 64 | 74 | 86 | 79 | - | - |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | |
|----------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|
| Cooling capacity | kW | 941,7 | 951,8 | 1043,5 | 1047,6 | 1134,8 | 1221,6 | 1307,8 | 1326,2 | 1413,8 | 1431,0 | 1522,9 | - | - |
| Input power | kW | 37,5 | 37,5 | 41,2 | 41,2 | 45,0 | 48,7 | 52,5 | 52,5 | 56,2 | 56,2 | 60,0 | - | - |
| Free cooling total input current | A | 76,0 | 76,0 | 83,6 | 83,6 | 91,2 | 98,8 | 106,4 | 106,4 | 114,0 | 114,0 | 121,6 | - | - |
| EER | W/W | 25,12 | 25,39 | 25,30 | 25,40 | 25,22 | 25,07 | 24,92 | 25,27 | 25,14 | 25,45 | 25,39 | - | - |
| Water flow rate system side | l/h | 177350 | 188350 | 203160 | 207920 | 217720 | 228110 | 238500 | 256480 | 267340 | 286650 | 301470 | - | - |
| Pressure drop system side | kPa | 112 | 129 | 122 | 127 | 115 | 119 | 128 | 105 | 112 | 129 | 122 | - | - |

Model: P

Cooling performance chiller operation (1)

| | | | | | | | | | | | | | | |
|-----------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|
| Cooling capacity | kW | 1025,3 | 1088,1 | 1174,0 | 1200,9 | 1257,9 | 1318,5 | 1379,2 | 1482,0 | 1545,4 | 1655,7 | 1741,6 | - | - |
| Input power | kW | 335,5 | 362,4 | 383,1 | 409,7 | 430,7 | 444,3 | 457,9 | 483,4 | 504,1 | 556,1 | 576,8 | - | - |
| Cooling total input current | A | 564,1 | 604,8 | 638,6 | 681,5 | 718,3 | 746,0 | 773,7 | 811,6 | 846,2 | 926,2 | 954,2 | - | - |
| EER | W/W | 3,06 | 3,00 | 3,06 | 2,93 | 2,92 | 2,97 | 3,01 | 3,07 | 3,07 | 2,98 | 3,02 | - | - |
| Water flow rate system side | l/h | 176150 | 186945 | 201699 | 206322 | 216119 | 226541 | 236963 | 254617 | 265517 | 284475 | 299229 | - | - |
| Pressure drop system side | kPa | 74 | 86 | 79 | 83 | 73 | 78 | 88 | 65 | 74 | 86 | 80 | - | - |

Cooling performances with free-cooling (2)

| | | | | | | | | | | | | | | |
|----------------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|
| Cooling capacity | kW | 1009,7 | 1020,0 | 1118,5 | 1122,6 | 1216,5 | 1309,9 | 1402,4 | 1421,6 | 1515,9 | 1533,4 | 1632,1 | - | - |
| Input power | kW | 38,1 | 38,1 | 41,9 | 41,9 | 45,7 | 49,5 | 53,3 | 53,3 | 57,1 | 57,1 | 60,9 | - | - |
| Free cooling total input current | A | 76,8 | 76,8 | 84,5 | 84,5 | 92,1 | 99,8 | 107,5 | 107,5 | 115,2 | 115,2 | 122,8 | - | - |
| EER | W/W | 26,51 | 26,78 | 26,70 | 26,80 | 26,62 | 26,46 | 26,30 | 26,66 | 26,54 | 26,84 | 26,78 | - | - |
| Water flow rate system side | l/h | 177350 | 188350 | 203160 | 207920 | 21 | | | | | | | | |

NSM - N

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 | |
|---|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 326,0 | 376,5 | 424,5 | 486,3 | 525,3 | 559,6 | 579,7 | 626,1 | 655,1 | 682,6 | 723,4 | 811,7 | 888,8 | 960,7 |
| Input power | kW | 103,6 | 119,3 | 134,4 | 153,8 | 170,9 | 178,3 | 189,4 | 200,8 | 214,8 | 227,9 | 242,9 | 263,8 | 283,0 | 307,1 |
| Cooling total input current | A | 174,8 | 199,9 | 218,4 | 252,6 | 283,3 | 297,4 | 316,9 | 335,2 | 357,1 | 376,5 | 398,7 | 426,6 | 452,0 | 496,6 |
| EER | W/W | 3,15 | 3,16 | 3,16 | 3,16 | 3,07 | 3,14 | 3,06 | 3,12 | 3,05 | 3,00 | 2,98 | 3,08 | 3,14 | 3,13 |
| Water flow rate system side | l/h | 56017 | 64687 | 72926 | 83554 | 90260 | 96150 | 99597 | 107568 | 112546 | 117285 | 124287 | 139460 | 152703 | 165051 |
| Pressure drop system side | kPa | 34 | 39 | 33 | 39 | 45 | 52 | 55 | 55 | 60 | 65 | 66 | 44 | 53 | 64 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 365,1 | 381,0 | 449,3 | 465,6 | 473,2 | 541,5 | 545,8 | 615,7 | 622,3 | 627,8 | 634,7 | 713,7 | 791,0 | 867,2 |
| Input power | kW | 13,7 | 13,7 | 16,5 | 16,5 | 16,5 | 19,2 | 19,2 | 22,0 | 22,0 | 22,0 | 22,0 | 24,7 | 27,5 | 30,2 |
| Free cooling total input current | A | 19,9 | 19,9 | 23,9 | 23,9 | 23,9 | 27,9 | 27,9 | 31,8 | 31,8 | 31,8 | 31,8 | 35,8 | 39,8 | 43,8 |
| EER | W/W | 26,56 | 27,71 | 27,24 | 28,22 | 28,69 | 28,13 | 28,36 | 27,99 | 28,29 | 28,54 | 28,86 | 28,84 | 28,77 | 28,67 |
| Water flow rate system side | l/h | 56080 | 64760 | 73010 | 83650 | 90360 | 96260 | 99710 | 107690 | 112670 | 117420 | 124420 | 139610 | 152870 | 165230 |
| Pressure drop system side | kPa | 51 | 61 | 51 | 63 | 73 | 76 | 82 | 79 | 87 | 94 | 98 | 74 | 83 | 93 |

Model: P

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | | |
|---|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 325,1 | 375,2 | 422,9 | 483,6 | 522,0 | 556,8 | 576,7 | 623,1 | 651,8 | 679,6 | 720,3 | 807,0 | 882,8 | 955,1 |
| Input power | kW | 104,5 | 120,4 | 135,6 | 155,5 | 172,9 | 180,2 | 191,5 | 202,9 | 217,2 | 230,8 | 246,4 | 267,1 | 286,2 | 310,3 |
| Cooling total input current | A | 174,8 | 199,9 | 218,4 | 252,6 | 283,3 | 297,4 | 316,9 | 335,2 | 357,1 | 376,5 | 398,7 | 426,6 | 452,0 | 496,6 |
| EER | W/W | 3,11 | 3,12 | 3,12 | 3,11 | 3,02 | 3,09 | 3,01 | 3,07 | 3,00 | 2,94 | 2,92 | 3,02 | 3,09 | 3,08 |
| Water flow rate system side | l/h | 55859 | 64457 | 72661 | 83082 | 89692 | 95662 | 99076 | 107055 | 111979 | 116764 | 123749 | 138653 | 151682 | 164102 |
| Pressure drop system side | kPa | 35 | 39 | 33 | 39 | 46 | 52 | 56 | 55 | 61 | 66 | 67 | 45 | 54 | 64 |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Cooling capacity | kW | 387,5 | 406,1 | 478,1 | 496,6 | 505,0 | 577,5 | 582,4 | 656,5 | 663,9 | 670,1 | 677,6 | 761,7 | 844,0 | 925,5 |
| Input power | kW | 13,9 | 13,9 | 16,7 | 16,7 | 16,7 | 19,5 | 19,5 | 22,3 | 22,3 | 22,3 | 22,3 | 25,1 | 27,9 | 30,7 |
| Free cooling total input current | A | 20,1 | 20,1 | 24,1 | 24,1 | 24,1 | 28,1 | 28,1 | 32,2 | 32,2 | 32,2 | 32,2 | 36,2 | 40,2 | 44,2 |
| EER | W/W | 27,79 | 29,12 | 28,57 | 29,68 | 30,18 | 29,58 | 29,83 | 29,42 | 29,75 | 30,03 | 30,37 | 30,35 | 30,26 | 30,16 |
| Water flow rate system side | l/h | 56080 | 64760 | 73010 | 83650 | 90360 | 96260 | 99710 | 107690 | 112670 | 117420 | 124420 | 139610 | 152870 | 165230 |
| Pressure drop system side | kPa | 52 | 62 | 52 | 64 | 74 | 77 | 82 | 80 | 87 | 94 | 99 | 75 | 83 | 94 |

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / * °C; External air 2°C

NSM - N

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|---|------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|
| Model: F | | | | | | | | | | | | | |
| Cooling performance chiller operation (1) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cooling capacity | kW | 1004,9 | 1098,6 | 1161,7 | 1218,0 | 1274,5 | 1318,1 | 1361,6 | 1478,4 | - | - | - | - |
| Input power | kW | 332,9 | 349,5 | 369,2 | 392,7 | 416,2 | 433,5 | 450,9 | 472,0 | - | - | - | - |
| Cooling total input current | A | 544,1 | 569,7 | 600,1 | 638,5 | 677,0 | 708,3 | 739,7 | 770,6 | - | - | - | - |
| EER | W/W | 3,02 | 3,14 | 3,15 | 3,10 | 3,06 | 3,02 | 3,04 | 3,02 | - | - | - | - |
| Water flow rate system side | l/h | 172652 | 188754 | 199587 | 209274 | 218966 | 226457 | 233947 | 254013 | - | - | - | - |
| Pressure drop system side | kPa | 70 | 71 | 84 | 88 | 74 | 78 | 85 | 64 | - | - | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cooling capacity | kW | 874,3 | 1018,1 | 1092,1 | 1164,5 | 1236,6 | 1246,2 | 1254,9 | 1339,1 | - | - | - | - |
| Input power | kW | 30,2 | 35,7 | 38,5 | 41,2 | 44,0 | 44,0 | 44,0 | 46,7 | - | - | - | - |
| Free cooling total input current | A | 43,8 | 51,7 | 55,7 | 59,7 | 63,7 | 63,7 | 63,7 | 67,7 | - | - | - | - |
| EER | W/W | 28,91 | 28,48 | 28,37 | 28,24 | 28,11 | 28,33 | 28,52 | 28,65 | - | - | - | - |
| Water flow rate system side | l/h | 172840 | 188960 | 199810 | 209510 | 219210 | 226710 | 234210 | 254300 | - | - | - | - |
| Pressure drop system side | kPa | 102 | 101 | 114 | 118 | 104 | 109 | 118 | 94 | - | - | - | - |
| Cooling performances with free-cooling (2) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cooling capacity | kW | 998,8 | 1092,7 | 1155,6 | 1211,7 | 1267,7 | 1310,9 | 1354,2 | 1470,0 | - | - | - | - |
| Input power | kW | 336,7 | 353,2 | 373,0 | 396,5 | 420,0 | 437,6 | 455,3 | 476,9 | - | - | - | - |
| Cooling total input current | A | 544,1 | 569,7 | 600,1 | 638,5 | 677,0 | 708,3 | 739,7 | 770,6 | - | - | - | - |
| EER | W/W | 2,97 | 3,09 | 3,10 | 3,06 | 3,02 | 3,00 | 2,97 | 3,08 | - | - | - | - |
| Water flow rate system side | l/h | 171604 | 187733 | 198553 | 208183 | 217806 | 225235 | 232663 | 252555 | - | - | - | - |
| Pressure drop system side | kPa | 70 | 71 | 85 | 89 | 75 | 78 | 85 | 64 | - | - | - | - |

(1) System side water heat exchanger 12 °C/7 °C; External air 35 °C; Chiller operation 100%; Free-cooling 0%

(2) System side water heat exchanger 12 °C / * °C; External air 2°C

ENERGY INDICES (REG. 2016/2281 EU)

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 | |
|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model: F | | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature with standard fans (1) | | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 7,41 | 7,05 | 6,65 | 6,29 | 6,78 | 6,52 | 6,34 | 6,73 | 6,56 | 6,31 | 6,10 | 6,55 | 6,32 | 6,50 |
| | E | W/W | 7,22 | 6,77 | 7,10 | 6,65 | 6,30 | 6,89 | 6,59 | 6,81 | 6,69 | 6,42 | 6,09 | 6,28 | 6,23 | 6,44 |
| | N | W/W | 7,68 | 7,36 | 7,56 | 7,20 | 6,78 | 7,10 | 6,94 | 7,15 | 6,90 | 6,67 | 6,45 | 6,78 | 6,94 | 6,93 |
| | U | W/W | 7,50 | 7,13 | 7,47 | 7,13 | 6,79 | 7,22 | 6,97 | 7,28 | 7,03 | 6,82 | 6,62 | 6,97 | 6,75 | 6,86 |
| SEPR - (EN14825: 2018) High temperature with inverter fans (1) | | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 7,41 | 7,05 | 6,65 | 6,29 | 6,78 | 6,52 | 6,34 | 6,73 | 6,56 | 6,31 | 6,10 | 6,55 | 6,32 | 6,50 |
| | E | W/W | 7,22 | 6,77 | 7,10 | 6,65 | 6,30 | 6,89 | 6,59 | 6,81 | 6,69 | 6,42 | 6,09 | 6,28 | 6,23 | 6,44 |
| | N | W/W | 7,68 | 7,36 | 7,56 | 7,20 | 6,78 | 7,10 | 6,94 | 7,15 | 6,90 | 6,67 | 6,45 | 6,78 | 6,94 | 6,93 |
| | U | W/W | 7,50 | 7,13 | 7,47 | 7,13 | 6,79 | 7,22 | 6,97 | 7,28 | 7,03 | 6,82 | 6,62 | 6,97 | 6,75 | 6,86 |
| Model: P | | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature with standard fans (1) | | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 7,38 | 7,12 | 6,67 | 6,25 | 6,79 | 6,49 | 6,27 | 6,71 | 6,49 | 6,23 | 5,99 | 6,51 | 6,26 | 6,44 |
| | E | W/W | 7,25 | 6,73 | 7,15 | 6,60 | 6,20 | 6,83 | 6,51 | 6,84 | 6,61 | 6,31 | 5,99 | 6,46 | 6,22 | 6,34 |
| | N | W/W | 7,71 | 7,39 | 7,62 | 7,22 | 6,83 | 7,18 | 6,91 | 7,16 | 6,88 | 6,63 | 6,39 | 6,75 | 6,90 | 6,88 |
| | U | W/W | 7,57 | 7,17 | 7,56 | 7,16 | 6,77 | 7,23 | 6,97 | 7,30 | 7,02 | 6,78 | 6,56 | 6,97 | 6,71 | 6,81 |
| SEPR - (EN14825: 2018) High temperature with inverter fans (1) | | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 7,38 | 7,12 | 6,67 | 6,25 | 6,79 | 6,49 | 6,27 | 6,71 | 6,49 | 6,23 | 5,99 | 6,51 | 6,26 | 6,44 |
| | E | W/W | 7,25 | 6,73 | 7,15 | 6,60 | 6,20 | 6,83 | 6,51 | 6,84 | 6,61 | 6,31 | 5,99 | 6,46 | 6,22 | 6,34 |
| | N | W/W | 7,71 | 7,39 | 7,62 | 7,22 | 6,83 | 7,18 | 6,91 | 7,16 | 6,88 | 6,63 | 6,39 | 6,75 | 6,90 | 6,88 |
| | U | W/W | 7,57 | 7,17 | 7,56 | 7,16 | 6,77 | 7,23 | 6,97 | 7,30 | 7,02 | 6,78 | 6,56 | 6,97 | 6,71 | 6,81 |

(1) Calculation performed with FIXED water flow rate.

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Model: F | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature with standard fans (1) | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 6,18 | 6,40 | 6,17 | 5,87 | 6,04 | 6,24 | 6,13 | 6,61 | 6,38 | 6,69 | 6,52 | 6,18 | 6,44 |
| | E | W/W | 6,52 | 6,28 | 6,63 | 5,98 | 6,02 | 6,19 | 6,49 | 6,72 | 6,84 | 6,22 | 6,46 | - | - |
| | N | W/W | 6,65 | 6,88 | 7,12 | 7,03 | 6,96 | 6,74 | 6,72 | 7,28 | - | - | - | - | - |
| | U | W/W | 6,92 | 6,60 | 7,04 | 6,52 | 6,54 | 6,68 | 6,83 | 7,17 | 7,22 | 6,87 | 7,00 | - | - |
| SEPR - (EN14825: 2018) High temperature with inverter fans (1) | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 6,18 | 6,40 | 6,17 | 5,87 | 6,04 | 6,24 | 6,13 | 6,61 | 6,38 | 6,69 | 6,52 | 6,18 | 6,44 |
| | E | W/W | 6,52 | 6,28 | 6,63 | 5,98 | 6,02 | 6,19 | 6,49 | 6,72 | 6,84 | 6,22 | 6,46 | - | - |
| | N | W/W | 6,65 | 6,88 | 7,12 | 7,03 | 6,96 | 6,74 | 6,72 | 7,28 | - | - | - | - | - |
| | U | W/W | 6,92 | 6,60 | 7,04 | 6,52 | 6,54 | 6,68 | 6,83 | 7,17 | 7,22 | 6,87 | 7,00 | - | - |
| Model: P | | | | | | | | | | | | | | | |
| SEPR - (EN14825: 2018) High temperature with standard fans (1) | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 6,09 | 6,31 | 6,06 | 5,76 | 5,95 | 6,14 | 6,01 | 6,57 | 6,32 | 6,64 | 6,44 | 6,13 | 6,37 |
| | E | W/W | 6,43 | 6,15 | 6,50 | 5,86 | 5,94 | 6,11 | 6,40 | 6,66 | 6,78 | 6,12 | 6,37 | - | - |
| | N | W/W | 6,59 | 7,00 | 7,07 | 6,99 | 6,94 | 6,81 | 6,68 | 7,25 | - | - | - | - | - |
| | U | W/W | 6,89 | 6,70 | 6,99 | 6,45 | 6,50 | 6,66 | 6,80 | 7,15 | 7,19 | 6,83 | 6,96 | - | - |
| SEPR - (EN14825: 2018) High temperature with inverter fans (1) | | | | | | | | | | | | | | | |
| SEPR | A | W/W | 6,09 | 6,31 | 6,06 | 5,76 | 5,95 | 6,14 | 6,01 | 6,57 | 6,32 | 6,64 | 6,44 | 6,13 | 6,37 |
| | E | W/W | 6,43 | 6,15 | 6,50 | 5,86 | 5,94 | 6,11 | 6,40 | 6,66 | 6,78 | 6,12 | 6,37 | - | - |
| | N | W/W | 6,59 | 7,00 | 7,07 | 6,99 | 6,94 | 6,81 | 6,68 | 7,25 | - | - | - | - | - |
| | U | W/W | 6,89 | 6,70 | 6,99 | 6,45 | 6,50 | 6,66 | 6,80 | 7,15 | 7,19 | 6,83 | 6,96 | - | - |

(1) Calculation performed with FIXED water flow rate.

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 | |
|-----------------------|-----|------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Electric data | | | | | | | | | | | | | | | | |
| Electric data | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | A | A | 243,9 | 271,9 | 299,1 | 332,5 | 374,4 | 395,7 | 417,0 | 450,2 | 474,9 | 474,9 | 474,9 | 531,4 | 579,4 | 635,9 |
| | E,U | A | 243,9 | 271,9 | 307,6 | 341,0 | 374,4 | 404,2 | 425,5 | 458,7 | 483,4 | 483,4 | 483,4 | 539,9 | 587,9 | 644,4 |
| | N | A | 252,4 | 280,4 | 316,1 | 349,5 | 382,9 | 412,7 | 434,0 | 467,2 | 491,9 | 491,9 | 491,9 | 548,4 | 604,9 | 667,2 |
| | A | A | 265,5 | 307,3 | 350,2 | 388,2 | 419,8 | 466,8 | 484,0 | 519,5 | 529,4 | 529,4 | 529,4 | 661,9 | 701,8 | 831,3 |
| Peak current (LRA) | E,U | A | 265,5 | 307,3 | 358,7 | 396,7 | 419,8 | 475,3 | 492,5 | 528,0 | 537,9 | 537,9 | 537,9 | 670,4 | 710,3 | 839,8 |
| | N | A | 274,0 | 315,8 | 367,2 | 405,2 | 428,3 | 483,8 | 501,0 | 536,5 | 546,4 | 546,4 | 546,4 | 678,9 | 727,3 | 862,6 |
| Electric data | | | | | | | | | | | | | | | | |
| Maximum current (FLA) | A | A | 683,9 | 731,4 | 770,4 | 813,4 | 864,9 | 913,2 | 947,2 | 980,7 | 1028,7 | 1123,7 | 1162,7 | 1300,2 | 1419,2 | |
| | E,U | A | 700,9 | 739,9 | 793,2 | 836,2 | 887,7 | 930,2 | 972,7 | 997,7 | 1054,2 | 1132,2 | 1179,7 | - | - | - |
| | N | A | 715,2 | 771,2 | 818,7 | 870,2 | 921,7 | 955,7 | 989,7 | 1023,2 | - | - | - | - | - | - |
| | A | A | 858,2 | 930,7 | 953,4 | 1108,4 | 1163,9 | 1290,2 | 1287,2 | 1069,4 | 1096,3 | 1200,0 | 1222,7 | 1480,2 | 1603,2 | |
| Peak current (LRA) | E,U | A | 875,2 | 939,2 | 976,2 | 1131,2 | 1186,7 | 1307,2 | 1312,7 | 1086,4 | 1121,8 | 1208,5 | 1239,7 | - | - | - |
| | N | A | 889,5 | 970,5 | 1001,7 | 1165,2 | 1220,7 | 1332,7 | 1329,7 | 1111,9 | - | - | - | - | - | - |

GENERAL TECHNICAL DATA

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------------------------|---------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | |
| Type | A,E,N,U | type | | | | | | | | | | | | |
| Compressor regulation | A,E,N,U | Type | | | | | | | | | | | | |
| Number | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Circuits | A,E,N,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Refrigerant | A,E,N,U | type | | | | | | | | | | | | |
| | | | R134a | | | | | | | | | | | |
| | A | kg | 31,0 | 31,0 | 28,0 | 31,0 | 38,0 | 36,0 | 38,0 | 43,0 | 44,0 | 44,0 | 50,0 | 58,0 |
| Refrigerant load circuit 1 (1) | E | kg | 28,0 | 30,0 | 45,0 | 39,0 | 38,0 | 46,0 | 46,0 | 54,0 | 54,0 | 54,0 | 59,0 | 66,0 |
| | N | kg | 39,0 | 39,0 | 46,0 | 34,0 | 46,0 | 54,0 | 54,0 | 61,0 | 61,0 | 61,0 | 66,0 | 76,0 |
| | U | kg | 31,0 | 30,0 | 35,0 | 34,0 | 32,0 | 46,0 | 46,0 | 54,0 | 54,0 | 54,0 | 59,0 | 66,0 |
| Refrigerant load circuit 2 (1) | A | kg | 31,0 | 31,0 | 28,0 | 31,0 | 42,0 | 36,0 | 40,0 | 45,0 | 48,0 | 52,0 | 55,0 | 60,0 |
| | E | kg | 30,0 | 30,0 | 45,0 | 39,0 | 42,0 | 46,0 | 46,0 | 54,0 | 54,0 | 59,0 | 59,0 | 61,0 |
| | N | kg | 39,0 | 39,0 | 46,0 | 42,0 | 50,0 | 54,0 | 54,0 | 61,0 | 61,0 | 66,0 | 66,0 | 76,0 |
| | U | kg | 31,0 | 30,0 | 35,0 | 42,0 | 32,0 | 46,0 | 46,0 | 54,0 | 54,0 | 59,0 | 59,0 | 61,0 |
| System side heat exchanger | | | | | | | | | | | | | | |
| Type | A,E,N,U | type | | | | | | | | | | | | |
| Number | A,E,N,U | no. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|-----------------------------------|---------|------|------|-------|-------|-------|-------|-------|----------------|------|------|------|------|------|
| Compressor | | | | | | | | | | | | | | |
| Type | A,E,N,U | type | | | | | | | | | | | | |
| Compressor regulation | A,E,N,U | Type | | | | | | | | | | | | |
| | A | no. | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| Number | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | - | - | |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | |
| | A | no. | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| Circuits | E,U | no. | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | - | - | |
| | N | no. | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | |
| Refrigerant | A,E,N,U | type | | | | | | | R134a | | | | | |
| | A | kg | 64,0 | 70,0 | 68,0 | 69,0 | 76,0 | 84,0 | 84,0 | 61,0 | 61,0 | 72,0 | 69,0 | 78,0 |
| Refrigerant load circuit 1 (1) | E,U | kg | 76,0 | 75,0 | 84,0 | 76,0 | 91,0 | 91,0 | 106,0 | 65,0 | 76,0 | 76,0 | 84,0 | - |
| | N | kg | 84,0 | 91,0 | 106,0 | 106,0 | 121,0 | 121,0 | 121,0 | 84,0 | - | - | - | - |
| | A | kg | 74,0 | 80,0 | 83,0 | 69,0 | 76,0 | 84,0 | 84,0 | 61,0 | 61,0 | 79,0 | 69,0 | 87,0 |
| Refrigerant load circuit 2 (1) | E,U | kg | 76,0 | 85,0 | 84,0 | 91,0 | 91,0 | 106,0 | 106,0 | 70,0 | 76,0 | 76,0 | 84,0 | - |
| | N | kg | 84,0 | 106,0 | 106,0 | 121,0 | 121,0 | 121,0 | 121,0 | 84,0 | - | - | - | - |
| | A | kg | - | - | - | - | - | - | - | 61,0 | 61,0 | 73,0 | 76,0 | 75,0 |
| Refrigerant load circuit 3 (1) | E,U | kg | - | - | - | - | - | - | - | 70,0 | 76,0 | 76,0 | - | - |
| | N | kg | - | - | - | - | - | - | - | 91,0 | - | - | - | - |
| System side heat exchanger | | | | | | | | | | | | | | |
| Type | A,E,N,U | type | | | | | | | Shell and tube | | | | | |
| | A | no. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number | E,U | no. | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | - | - |
| | N | no. | 1 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - |

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | |
| Hydraulic connections | | | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Type | | | | | | | | | | | | |
| | A | Ø | 5" | 5" | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" |
| Size (in) | E,U | Ø | 5" | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| | N | Ø | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| | A | Ø | 5" | 5" | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" |
| Size (out) | E,U | Ø | 5" | 5" | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| | N | Ø | 5" | 5" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|------------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Integrated hydronic kit: 00 | | | | | | | | | | | | | | |
| Hydraulic connections | | | | | | | | | | | | | | |
| Connections (in/out) | A,E,N,U | Type | | | | | | | | | | | | |
| | A | Ø | 6" | 6" | 6" | 6" | 6" | 6" | 6" | - | - | - | - | - |
| Size (in) | E,U | Ø | 6" | 6" | 6" | 6" | - | - | - | - | - | - | - | - |
| | N | Ø | 6" | - | - | - | - | - | - | - | - | - | - | - |
| | A | Ø | 6" | 6" | 6" | 8" | 8" | 8" | 8" | - | - | - | - | - |
| Size (out) | E,U | Ø | 6" | 6" | 8" | 8" | - | - | - | - | - | - | - | - |
| | N | Ø | 6" | - | - | - | - | - | - | - | - | - | - | - |
| Module 1 | | | | | | | | | | | | | | |
| | A | Ø | - | - | - | - | - | - | - | 6" | 6" | 6" | 6" | 6" |
| Size (in) | E,U | Ø | - | - | - | - | 6" | 6" | 6" | 6" | 6" | 6" | - | - |
| | N | Ø | - | 6" | 6" | 6" | 6" | 6" | 6" | 6" | - | - | - | - |

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | A | Ø | - | - | - | - | - | - | 6" | 6" | 6" | 6" | 8" | 8" |
| Size (out) | E,U | Ø | - | - | - | - | 6" | 6" | 6" | 6" | 6" | 8" | - | - |
| | N | Ø | - | 6" | 6" | 6" | 6" | 6" | 6" | - | - | - | - | - |
| Module 2 | | | | | | | | | 5" | 5" | 5" | 5" | 5" | 6" |
| Size (in) | A | Ø | - | - | - | - | - | - | 5" | 5" | 5" | 5" | 5" | - |
| | E,U | Ø | - | - | - | - | 6" | 6" | 5" | 5" | 5" | 5" | - | - |
| | N | Ø | - | 6" | 6" | 6" | 6" | 6" | 6" | - | - | - | - | - |
| Size (out) | A | Ø | - | - | - | - | - | - | 5" | 5" | 5" | 5" | 5" | 6" |
| | E,U | Ø | - | - | - | - | 6" | 6" | 5" | 5" | 5" | 5" | - | - |
| | N | Ø | - | 6" | 6" | 6" | 6" | 6" | 6" | - | - | - | - | - |

SOUND DATA

| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|--|---|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | |
| | A | dB(A) | 98,0 | 98,0 | 98,0 | 98,0 | 99,0 | 99,0 | 99,7 | 99,7 | 99,7 | 99,7 | 100,4 | 100,4 | 101,1 |
| Sound power level | E | dB(A) | 91,0 | 91,0 | 91,7 | 91,9 | 92,1 | 92,6 | 92,5 | 93,0 | 93,0 | 93,0 | 93,7 | 93,9 | 94,6 |
| | N | dB(A) | 91,7 | 91,7 | 92,3 | 92,5 | 92,6 | 93,1 | 93,0 | 93,5 | 93,5 | 93,5 | 94,1 | 94,6 | 95,2 |
| | U | dB(A) | 98,0 | 98,0 | 98,9 | 99,0 | 99,0 | 99,7 | 99,7 | 100,4 | 100,4 | 100,4 | 100,9 | 101,0 | 101,5 |
| Sound pressure level (10 m) | A | dB(A) | 65,6 | 65,6 | 65,6 | 65,6 | 66,4 | 66,4 | 66,4 | 67,1 | 67,1 | 67,1 | 67,6 | 67,7 | 68,2 |
| | E | dB(A) | 58,6 | 58,6 | 59,2 | 59,4 | 59,5 | 59,9 | 59,9 | 60,3 | 60,3 | 60,3 | 60,8 | 61,0 | 61,6 |
| | N | dB(A) | 59,2 | 59,2 | 59,7 | 59,9 | 60,0 | 60,3 | 60,3 | 60,6 | 60,6 | 60,6 | 61,1 | 61,5 | 62,0 |
| | U | dB(A) | 65,6 | 65,6 | 66,4 | 66,4 | 66,4 | 67,1 | 67,1 | 67,6 | 67,6 | 67,6 | 68,1 | 68,1 | 68,5 |

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sound data calculated in cooling mode (1) | | | | | | | | | | | | | | | |
| | A | dB(A) | 101,1 | 101,6 | 101,6 | 101,6 | 102,1 | 102,5 | 102,5 | 102,7 | 102,8 | 103,4 | 103,4 | 103,7 | 104,2 |
| Sound power level | E | dB(A) | 95,2 | 95,2 | 95,4 | 95,6 | 96,0 | 96,2 | 96,4 | 96,0 | 96,5 | 96,4 | 96,6 | - | - |
| | N | dB(A) | 95,5 | 96,0 | 96,2 | 96,6 | 96,9 | 96,9 | 96,9 | 96,7 | - | - | - | - | - |
| | U | dB(A) | 102,0 | 102,0 | 102,4 | 102,4 | 102,8 | 103,1 | 103,4 | 103,4 | 103,7 | 103,7 | 103,9 | - | - |
| Sound pressure level (10 m) | A | dB(A) | 68,2 | 68,6 | 68,6 | 68,6 | 69,0 | 69,2 | 69,2 | 69,4 | 69,4 | 69,8 | 69,8 | 70,0 | 70,4 |
| | E | dB(A) | 62,1 | 62,0 | 62,2 | 62,3 | 62,7 | 62,8 | 62,9 | 62,5 | 62,8 | - | - | - | - |
| | N | dB(A) | 62,3 | 62,5 | 62,6 | 62,9 | 63,1 | 63,1 | 63,1 | 62,8 | - | - | - | - | - |
| | U | dB(A) | 68,9 | 68,9 | 69,1 | 69,2 | 69,5 | 69,7 | 69,9 | 69,8 | 70,0 | 70,0 | 70,2 | - | - |

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

FANS DATA

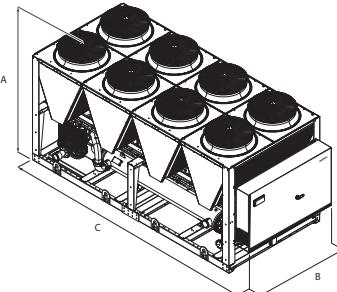
| Size | | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-----------------|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: F | | | | | | | | | | | | | | | |
| Fan | Type | A,E,N,U | type | | | | | | | | | | | | |
| | | A | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 |
| Number | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 18 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 22 |
| | A | m³/h | 116000 | 116000 | 116000 | 116000 | 145000 | 145000 | 145000 | 174000 | 174000 | 174000 | 174000 | 203000 | 232000 |
| Air flow rate | E | m³/h | 89600 | 89600 | 112000 | 112000 | 112000 | 134400 | 134400 | 156800 | 156800 | 156800 | 156800 | 179200 | 201600 |
| | N | m³/h | 112000 | 112000 | 134400 | 134400 | 134400 | 156800 | 156800 | 179200 | 179200 | 179200 | 179200 | 201600 | 246400 |
| | U | m³/h | 116000 | 116000 | 145000 | 145000 | 145000 | 174000 | 174000 | 203000 | 203000 | 203000 | 232000 | 232000 | 261000 |

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|-----------------|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: P | | | | | | | | | | | | | | | |
| Fan | Type | A,E,N,U | type | | | | | | | | | | | | |
| | | A | no. | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 16 |
| Number | E,U | no. | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 18 |
| | N | no. | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 22 |
| | A | m³/h | 109600 | 109600 | 109600 | 109600 | 137000 | 137000 | 164400 | 164400 | 164400 | 164400 | 191800 | 191800 | 219200 |
| Air flow rate | E | m³/h | 85600 | 85600 | 107000 | 107000 | 107000 | 128400 | 128400 | 149800 | 149800 | 149800 | 149800 | 171200 | 171200 |
| | N | m³/h | 107000 | 107000 | 128400 | 128400 | 128400 | 149800 | 149800 | 171200 | 171200 | 171200 | 171200 | 214000 | 235400 |
| | U | m³/h | 109600 | 109600 | 137000 | 137000 | 137000 | 164400 | 164400 | 191800 | 191800 | 191800 | 191800 | 219200 | 246600 |

| Size | | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
|-----------------|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| Model: F | | | | | | | | | | | | | | | |
| Fan | Type | A,E,N,U | type | | | | | | | | | | | | |
| | | A | no. | 16 | 18 | 18 | 18 | 20 | 22 | 22 | 24 | 24 | 28 | 28 | 30 |
| Number | E,U | no. | 20 | 20 | 22 | 22 | 24 | 26 | 28 | 28 | 30 | 30 | 32 | - | - |
| | N | no. | 22 | 26 | 28 | 30 | 32 | 32 | 32 | 34 | - | - | - | - | - |
| | A | m³/h | 232000 | 261000 | 261000 | 261000 | 290000 | 319000 | 348000 | 348000 | 406000 | 406000 | 435000 | 493000 | |
| Air flow rate | E | m³/h | 224000 | 224000 | 246400 | 246400 | 268800 | 291200 | 313600 | 336000 | 336000 | 358400 | - | - | - |
| | N | m³/h | 246400 | 291200 | 313600 | 336000 | 358400 | 358400 | 380800 | - | - | - | - | - | - |
| | U | m³/h | 290000 | 290000 | 319000 | 319000 | 348000 | 377000 | 406000 | 435000 | 435000 | 464000 | - | - | - |

| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 |
|-----------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model: P | | | | | | | | | | | | | |
| Fan | | | | | | | | | | | | | |
| Type | | | | | | | | | | | | | |
| Number | | | | | | | | | | | | | |
| Air flow rate | | | | | | | | | | | | | |
| A | no. | 16 | 18 | 18 | 20 | 22 | 22 | 24 | 24 | 28 | 28 | 30 | 34 |
| E,U | no. | 20 | 20 | 22 | 22 | 24 | 26 | 28 | 28 | 30 | 30 | 32 | - |
| N | no. | 22 | 26 | 28 | 30 | 32 | 32 | 34 | - | - | - | - | - |
| A | m ³ /h | 219200 | 246600 | 246600 | 246600 | 274000 | 301400 | 301400 | 328800 | 328800 | 383600 | 383600 | 411000 |
| E | m ³ /h | 214000 | 214000 | 235400 | 235400 | 256800 | 278200 | 299600 | 299600 | 321000 | 321000 | 342400 | - |
| N | m ³ /h | 235400 | 278200 | 299600 | 321000 | 342400 | 342400 | 363800 | - | - | - | - | - |
| U | m ³ /h | 274000 | 301400 | 301400 | 328800 | 356200 | 383600 | 383600 | 411000 | 411000 | 438400 | - | - |

DIMENSIONS



| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|-------------------------------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dimensions and weights | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | |
| A | A,E,N,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| B | A,E,N,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| C | A | mm | 5160 | 5160 | 5160 | 5160 | 6350 | 6350 | 7140 | 7140 | 7140 | 8330 | 8330 | 9520 |
| | E,U | mm | 5160 | 5160 | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 8330 | 9520 | 9520 | 10710 |
| | N | mm | 6350 | 6350 | 7140 | 7140 | 8330 | 8330 | 9520 | 9520 | 9520 | 10710 | 11900 | 13090 |
| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
| Dimensions and weights | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | |
| A | A | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 |
| B | E,U | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - |
| C | N | mm | 2450 | 2450 | 2450 | 2450 | 2450 | 2450 | - | - | - | - | - | - |
| A | A | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| B | E,U | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - |
| C | N | mm | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | - | - |
| A | A | mm | 9520 | 10710 | 10710 | 10710 | 11900 | 13090 | 13090 | 14280 | 14280 | 16660 | 16660 | 17850 |
| B | E,U | mm | 11900 | 11900 | 13090 | 13090 | 14280 | 15470 | 16660 | 16660 | 17850 | 17850 | 19040 | - |
| C | N | mm | 13090 | 15470 | 16660 | 17850 | 19040 | 19040 | 20230 | - | - | - | - | - |

For transport reasons, the units with the depth of more than 13090 mm are shipped separately. For more information, please refer to the technical manual and / or installation.

| Size | 1402 | 1602 | 1802 | 2002 | 2202 | 2352 | 2502 | 2652 | 2802 | 3002 | 3202 | 3402 | 3602 | 3902 |
|---------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Model: F | | | | | | | | | | | | | | |
| Single module unit | | | | | | | | | | | | | | |
| Empty weight | | | | | | | | | | | | | | |
| A | A | kg | 4695 | 4730 | 4870 | 5200 | 6065 | 6080 | 6285 | 6950 | 7145 | 7200 | 7300 | 8500 |
| B | E,U | kg | 4855 | 4875 | 5435 | 6025 | 6380 | 7025 | 7045 | 7625 | 7715 | 7785 | 7880 | 9145 |
| C | N | kg | 5370 | 5390 | 6065 | 6655 | 7010 | 7560 | 7585 | 8175 | 8265 | 8340 | 9930 | 10905 |
| Size | 4202 | 4502 | 4802 | 5202 | 5602 | 6002 | 6402 | 6503 | 6703 | 6903 | 7203 | 8403 | 9603 | |
| Model: F | | | | | | | | | | | | | | |
| Single module unit | | | | | | | | | | | | | | |
| Empty weight | | | | | | | | | | | | | | |
| A | A | kg | 9655 | 10475 | 10525 | 10945 | 11580 | 12265 | 12305 | - | - | - | - | - |
| B | E,U | kg | 11070 | 11130 | 12135 | 12260 | - | - | - | - | - | - | - | - |
| C | N | kg | 11700 | - | - | - | - | - | - | - | - | - | - | - |
| Bimodule unit | | | | | | | | | | | | | | |
| Empty weight module 1 | | | | | | | | | | | | | | |
| A | A | kg | - | - | - | - | - | - | - | 9590 | 9655 | 10475 | 10525 | 11580 |
| B | E,U | kg | - | - | - | - | 6630 | 6630 | 7170 | 10475 | 11070 | 11130 | 12135 | - |
| C | N | kg | - | 6210 | 6995 | 6995 | 7730 | 7730 | 7775 | 11630 | - | - | - | - |
| Empty weight module 2 | | | | | | | | | | | | | | |
| A | A | kg | - | - | - | - | - | - | - | 5225 | 5225 | 5765 | 5765 | 5930 |
| B | E,U | kg | - | - | - | - | 6630 | 7170 | 7170 | 5755 | 5755 | 5810 | 5820 | - |
| C | N | kg | - | 6995 | 6995 | 7730 | 7730 | 7775 | 7775 | 6455 | - | - | - | - |

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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