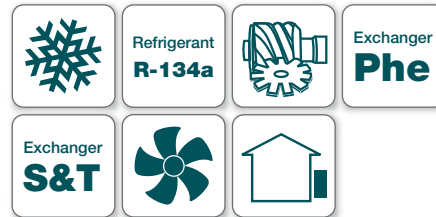


McEnergy

AIR COOLED CHILLER WITH SCREW COMPRESSORS



Cooling capacity: 177 kW ÷ 627 kW



GENERAL CHARACTERISTICS

- Stepless capacity control
- Independent circuit or each compressor
- Inverter driven single-screw compressors; star-Delta standard start
- Direct expansion evaporator (shell and tubes); electrical heater to prevent freezing; insulation made of closed cells material; Victaulic water connections
- R134a refrigerant
- Condensed coils with copper tubes mechanically expanded in aluminium fins; sub-cooler circuits
- Axial fans
- Micro Tech II C plus controller compatible with BMS
- Cabinet and structure made of galvanized steel sheet and painted to provide high resistance to corrosion; RAL 7032

VERSIONS

EFFICIENCY

| | |
|--------------------------------|--|
| SE Standard efficiency | EER up to 2,90 ESEER up to 3,63 |
| Class A High efficiency | EER up to 3,21 ESEER up to 3,85 |

AMBIENT TEMPERATURE

| | |
|------------------------------------|-------------------|
| HA High ambient temperature | Up to 48°C |
|------------------------------------|-------------------|

NOISE LEVELS

| | |
|---------------------------|--------------------------|
| ST Standard noise | 77,0 ÷ 79,0 dB(A) |
| LN Low noise | 74,5 ÷ 77,5 dB(A) |
| XN Extra low noise | 70,0 ÷ 73,0 dB(A) |
| XXN Super quiet | 65,0 ÷ 66,0 dB(A) |

STANDARD OPTIONS

- Star-Delta start
- Double set-point
- Compressors thermal relays
- Fans thermal relays
- Phase monitor
- 10 mm evaporator insulation
- Evaporator electric heater
- Victaulic water connections
- Hour run meter
- General fault relay
- Alarm from external device
- Low pressure manometers
- Suction line shut off valve
- Discharge line shut off valves

OPTIONS ON REQUEST

- Total heat recovery for 2 circuits (100%)
- Total heat recovery for 1 circuits (50%)
- Partial heat recovery
- Electronic expansion device
- Brine version
- Under/overvoltage control
- Power factor correction
- Current limit - display
- Low ambient temperature kit
- Condenser coils guards
- Cu-Cu condenser coils
- Cu-Cu-Sn condenser coils
- Alucoat condenser coils
- 20 mm evaporator insulation
- Flow switch
- High pressure manometers
- Rubber anti vibration mounts
- Spring anti vibration mounts
- 1 pump hydronic kit
- 2 pumps hydronic kit
- Inertial tank

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AIR COOLED CHILLER WITH SCREW COMPRESSORS

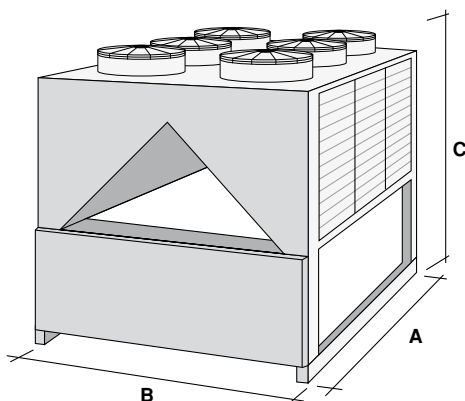
TECHNICAL DATA McEnergy ST - cooling only

| McEnergy ST | | 128.2 | 136.2 | 145.2 | 157.2 | 168.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 451 | 479 | 510 | 551 | 588 |
| Unit Power Input ¹ | kW | 167 | 178 | 187 | 196 | 203 |
| EER | -- | 2,70 | 2,69 | 2,73 | 2,82 | 2,90 |
| ESEER | -- | 3,24 | 3,23 | 3,09 | 3,17 | 3,23 |
| Sound Pressure Level ² | dB(A) | 77,0 | 77,0 | 77,0 | 78,5 | 79,0 |
| Compressor | Type | McQuay Single Screw | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | |
| Fan | Type | Axial | | | | |
| Quantity | Nr | 8 | 8 | 8 | 8 | 8 |
| Power Input | kW | 1,73 | 1,73 | 1,73 | 1,73 | 1,73 |
| Speed | RPM | 890 | 890 | 890 | 890 | 890 |
| Diameter | mm | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 170 | 164 | 164 | 160 | 160 |
| Pressure Drop | kPa | 37,0 | 37,0 | 37,0 | 37,0 | 37,0 |
| Water Connections Size | -- | 5,5" | 5,5" | 5,5" | 5,5" | 5,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 128.2 | 136.2 | 145.2 | 157.2 | 168.2 |
|-----------------------|----|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3860 | 3890 | 3990 | 4060 | 4090 |
| Operating weight | kg | 4144 | 4200 | 4316 | 4361 | 4394 |
| (A) Length | mm | 4040 | 4040 | 4040 | 4040 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2340 | 2340 | 2340 | 2340 | 2340 |



McEnergy

AIR COOLED CHILLER WITH SCREW COMPRESSORS

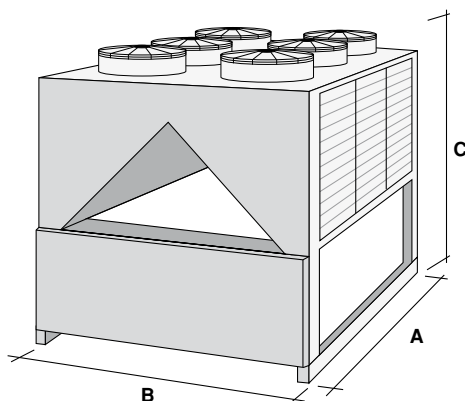
TECHNICAL DATA McEnergy LN - cooling only

| McEnergy LN | | 052.2 | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 | |
|-----------------------------------|---------|---|-------|-------|-----------------------------------|-------|-------|-------|--|
| Cooling Capacity ¹ | kW | 184 | 198 | 225 | 245 | 261 | 275 | 298 | |
| Unit Power Input ¹ | kW | 81,3 | 79,6 | 84,6 | 93,5 | 101 | 108 | 119 | |
| EER | -- | 2,26 | 2,48 | 2,66 | 2,62 | 2,58 | 2,54 | 2,50 | |
| ESEER | -- | 2,92 | 3,10 | 3,28 | 3,21 | 3,26 | 3,22 | 3,20 | |
| Sound Pressure Level ² | dB(A) | 75,0 | 75,0 | 75,0 | 75,0 | 75,0 | 75,0 | 75,0 | |
| Compressor | Type | McQuay Single Screw | | | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | |
| Refrigerant | Type | R-134a | | | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | | | |
| Fan | Type | Axial | | | | | | | |
| Quantity | Nr | 4 | 4 | 6 | 6 | 6 | 6 | 6 | |
| Power Input | kW | 1,16 | 1,16 | 1,16 | 1,16 | 1,16 | 1,16 | 1,16 | |
| Speed | RPM | 900 | 900 | 900 | 900 | 900 | 900 | 900 | |
| Diameter | mm | 710 | 710 | 710 | 710 | 710 | 710 | 710 | |
| Evaporator | Type | Plate | | | Shell and Tube - Direct Expansion | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Water Volume | l | 25 | 31 | 93 | 93 | 90 | 90 | 90 | |
| Pressure Drop | kPa | 31 | 20 | 48 | 56 | 58 | 65 | 74 | |
| Water Connections Size | -- | 3" | 3" | 4" | 4" | 4" | 4" | 4" | |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 052.2 | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 2470 | 2470 | 2860 | 2860 | 2860 | 2860 | 2860 |
| Operating weight | kg | 2500 | 2500 | 2960 | 2960 | 2960 | 2960 | 2960 |
| (A) Length | mm | 2240 | 2240 | 3140 | 3140 | 3140 | 3140 | 3140 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 |



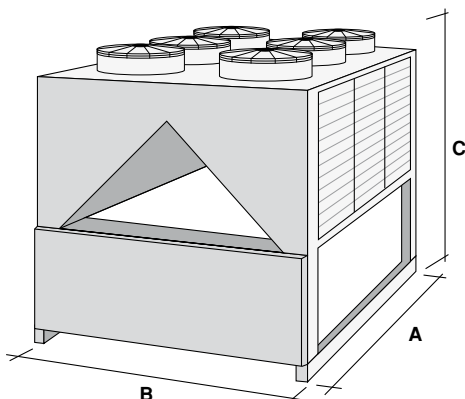
TECHNICAL DATA McEnergy LN - cooling only

| McEnergy LN | | 091.2 | 105.2 | 128.2 | 136.2 | 145.2 | 157.2 | 168.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 321 | 370 | 433 | 460 | 489 | 530 | 569 |
| Unit Power Input ¹ | kW | 123 | 133 | 170 | 182 | 192 | 203 | 213 |
| EER | -- | 2,60 | 2,77 | 2,54 | 2,53 | 2,55 | 2,61 | 2,67 |
| ESEER | -- | 3,24 | 3,41 | 3,40 | 3,29 | 3,25 | 3,20 | 3,26 |
| Sound Pressure Level ² | dB(A) | 75,0 | 77,5 | 74,5 | 74,5 | 74,5 | 76,0 | 76,0 |
| Compressor | Type | McQuay Single Screw | | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | | |
| Fan | Type | Axial | | | | | | |
| Quantity | Nr | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Power Input | kW | 1,16 | 1,16 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 |
| Speed | RPM | 900 | 900 | 705 | 705 | 705 | 705 | 705 |
| Diameter | mm | 710 | 710 | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 113 | 113 | 170 | 164 | 164 | 160 | 160 |
| Pressure Drop | kPa | 56 | 77 | 62 | 53 | 57 | 53 | 62 |
| Water Connections Size | -- | 4" | 4" | 5,5" | 5,5" | 5,5" | 5,5" | 5,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 091.2 | 105.2 | 128.2 | 136.2 | 145.2 | 157.2 | 168.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3187 | 3187 | 3860 | 3890 | 3990 | 4060 | 4090 |
| Operating weight | kg | 3300 | 3300 | 4144 | 4200 | 4316 | 4364 | 4394 |
| (A) Length | mm | 4040 | 4040 | 4040 | 4040 | 4040 | 4040 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2340 | 2340 | 2340 | 2340 | 2340 |



McEnergy

AIR COOLED CHILLER WITH SCREW COMPRESSORS

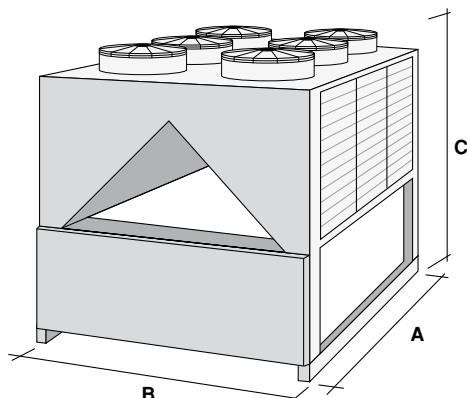
TECHNICAL DATA McEnergy XN - cooling only

| McEnergy XN | | 052.2 | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 | |
|-----------------------------------|---------|---|-------|-------|-----------------------------------|-------|-------|-------|--|
| Cooling Capacity ¹ | kW | 177 | 190 | 219 | 238 | 252 | 265 | 278 | |
| Unit Power Input ¹ | kW | 83,8 | 82,6 | 85,2 | 94,8 | 104 | 111 | 122 | |
| EER | -- | 2,11 | 2,30 | 2,57 | 2,51 | 2,44 | 2,38 | 2,28 | |
| ESEER | -- | 2,86 | 3,00 | 3,34 | 3,21 | 3,23 | 3,16 | 3,13 | |
| Sound Pressure Level ² | dB(A) | 70,0 | 70,0 | 70,0 | 70,0 | 70,0 | 70,0 | 70,0 | |
| Compressor | Type | McQuay Single Screw | | | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | |
| Refrigerant | Type | R-134a | | | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | | | |
| Fan | Type | Axial | | | | | | | |
| Quantity | Nr | 4 | 4 | 6 | 6 | 6 | 6 | 6 | |
| Power Input | kW | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | |
| Speed | RPM | 680 | 680 | 680 | 680 | 680 | 680 | 680 | |
| Diameter | mm | 710 | 710 | 710 | 710 | 710 | 710 | 710 | |
| Evaporator | Type | Plate | | | Shell and Tube - Direct Expansion | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Water Volume | l | 25 | 31 | 93 | 93 | 90 | 90 | 90 | |
| Pressure Drop | kPa | 24 | 20 | 40 | 48 | 57 | 65 | 66 | |
| Water Connections Size | -- | 3" | 3" | 4" | 4" | 4" | 4" | 4" | |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | | | |

NOTES:

- 1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- 2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 052.2 | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 2620 | 2620 | 2890 | 2890 | 2890 | 2890 | 2890 |
| Operating weight | kg | 2650 | 2650 | 3100 | 3100 | 3100 | 3100 | 3100 |
| (A) Length | mm | 2240 | 2240 | 3140 | 3140 | 3140 | 3140 | 3140 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 |



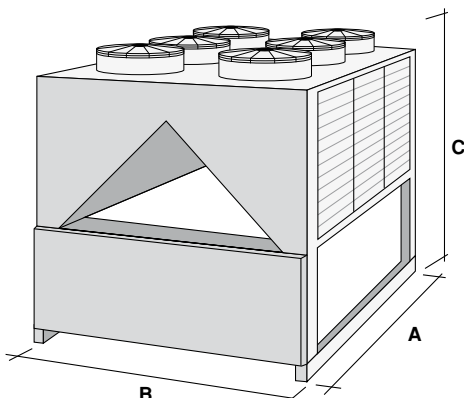
TECHNICAL DATA McEnergy XN - cooling only

| McEnergy XN | | 091.2 | 105.2 | 128.2 | 136.2 | 145.2 | 157.2 | 168.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 312 | 366 | 433 | 460 | 489 | 530 | 569 |
| Unit Power Input ¹ | kW | 125 | 138 | 170 | 182 | 192 | 203 | 213 |
| EER | -- | 2,49 | 2,65 | 2,54 | 2,53 | 2,55 | 2,61 | 2,67 |
| ESEER | -- | 3,25 | 3,42 | 3,40 | 3,29 | 3,25 | 3,20 | 3,26 |
| Sound Pressure Level ² | dB(A) | 70,0 | 72,5 | 71,0 | 71,0 | 71,0 | 72,5 | 73,0 |
| Compressor | Type | McQuay Single Screw | | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | | |
| Fan | Type | Axial | | | | | | |
| Quantity | Nr | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Power Input | kW | 0,70 | 0,70 | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 |
| Speed | RPM | 680 | 680 | 705 | 705 | 705 | 705 | 705 |
| Diameter | mm | 710 | 710 | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 113 | 113 | 170 | 164 | 164 | 160 | 160 |
| Pressure Drop | kPa | 56 | 70 | 62 | 53 | 57 | 53 | 62 |
| Water Connections Size | -- | 4" | 4" | 5,5" | 5,5" | 5,5" | 5,5" | 5,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 091.2 | 105.2 | 128.2 | 136.2 | 145.2 | 157.2 | 168.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3335 | 3335 | 4010 | 4050 | 4150 | 4210 | 4240 |
| Operating weight | kg | 3450 | 3450 | 4300 | 4360 | 4476 | 4512 | 4542 |
| (A) Length | mm | 4040 | 4040 | 4040 | 4040 | 4040 | 4040 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2340 | 2340 | 2340 | 2340 | 2340 |



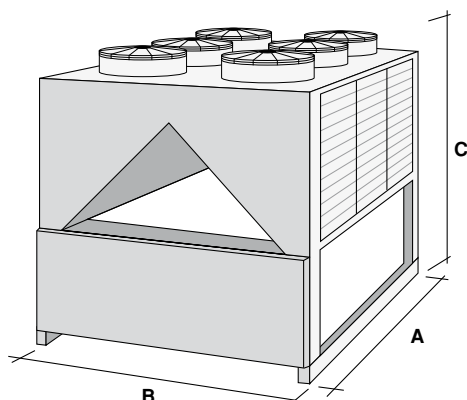
TECHNICAL DATA McEnergy XXN - cooling only

| McEnergy XXN | | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 203 | 231 | 253 | 271 | 286 | 299 |
| Unit Power Input ¹ | kW | 79,8 | 85,2 | 93,7 | 105 | 115 | 126 |
| EER | -- | 2,54 | 2,71 | 2,70 | 2,59 | 2,50 | 2,37 |
| ESEER | -- | 3,39 | 3,63 | 3,52 | 3,55 | 3,44 | 3,38 |
| Sound Pressure Level ² | dB(A) | 65,0 | 65,0 | 65,0 | 65,0 | 65,0 | 65,0 |
| Compressor | Type | McQuay Single Screw | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | |
| Fan | Type | Axial | | | | | |
| Quantity | Nr | 6 | 8 | 8 | 8 | 8 | 8 |
| Power Input | kW | 0,45 | 0,45 | 0,45 | 0,45 | 0,45 | 0,45 |
| Speed | RPM | 500 | 500 | 500 | 500 | 500 | 500 |
| Diameter | mm | 710 | 710 | 710 | 710 | 710 | 710 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 90 | 113 | 113 | 164 | 159 | 159 |
| Pressure Drop | kPa | 36 | 33 | 38 | 66 | 46 | 48 |
| Water Connections Size | -- | 4" | 4" | 4" | 4" | 4" | 4" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | |

NOTES:

- 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3100 | 3475 | 3475 | 3475 | 3475 | 3475 |
| Operating weight | kg | 3200 | 3590 | 3590 | 3590 | 3590 | 3590 |
| (A) Length | mm | 3140 | 4040 | 4040 | 4040 | 4040 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 |



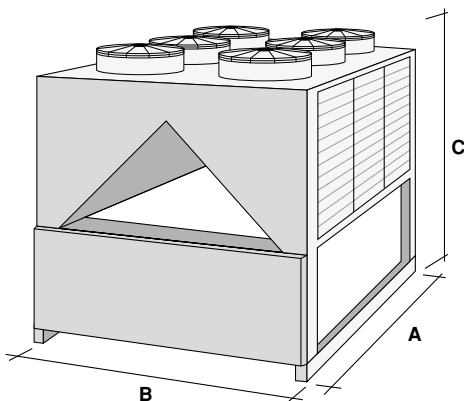
TECHNICAL DATA McEnergy XXN - cooling only

| McEnergy XXN | | 091.2 | 115.2 | 128.2 | 136.2 | 145.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 309 | 401 | 429 | 458 | 501 |
| Unit Power Input ¹ | kW | 136 | 156 | 174 | 182 | 190 |
| EER | -- | 2,27 | 2,57 | 2,47 | 2,51 | 2,64 |
| ESEER | -- | 3,25 | 3,40 | 3,33 | 3,30 | 3,29 |
| Sound Pressure Level ² | dB(A) | 65,0 | 65,0 | 65,0 | 65,5 | 66,0 |
| Compressor | Type | McQuay Single Screw | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | |
| Fan | Type | Axial | | | | |
| Quantity | Nr | 8 | 8 | 8 | 9 | 10 |
| Power Input | kW | 0,45 | 0,77 | 0,77 | 0,77 | 0,77 |
| Speed | RPM | 500 | 500 | 500 | 500 | 500 |
| Diameter | mm | 710 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 159 | 170 | 170 | 164 | 164 |
| Pressure Drop | kPa | 53 | 52 | 57 | 52 | 61 |
| Water Connections Size | -- | 4" | 5,5" | 5,5" | 5,5" | 5,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 091.2 | 115.2 | 128.2 | 136.2 | 145.2 |
|-----------------------|----|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3475 | 4110 | 4160 | 4370 | 4440 |
| Operating weight | kg | 3590 | 4410 | 4472 | 4676 | 4746 |
| (A) Length | mm | 4040 | 4040 | 4040 | 4940 | 4940 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2340 | 2340 | 2340 | 2340 |



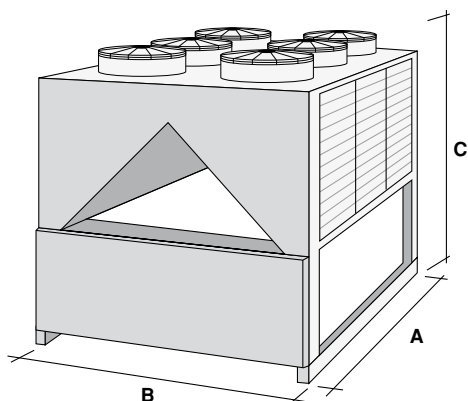
TECHNICAL DATA McEnergy ClassA ST - cooling only

| McEnergy ClassA ST | | 069.2 | 077.2 | 084.2 | 092.2 | 100.2 | 106.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 247 | 275 | 302 | 327 | 351 | 376 |
| Unit Power Input ¹ | kW | 79,2 | 87,3 | 94,2 | 104 | 113 | 120 |
| EER | -- | 3,12 | 3,15 | 3,20 | 3,15 | 3,11 | 3,13 |
| ESEER | -- | 3,56 | 3,59 | 3,62 | 3,18 | 3,67 | 3,58 |
| Sound Pressure Level ² | dB(A) | 77,5 | 77,5 | 77,5 | 77,5 | 77,5 | 79,0 |
| Compressor | Type | McQuay Single Screw | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | |
| Fan | Type | Axial | | | | | |
| Quantity | Nr | 6 | 8 | 8 | 8 | 8 | 8 |
| Power Input | kW | 1,16 | 1,16 | 1,16 | 1,16 | 1,16 | 1,80 |
| Speed | RPM | 900 | 900 | 900 | 900 | 900 | 900 |
| Diameter | mm | 710 | 710 | 710 | 710 | 710 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 93 | 113 | 113 | 164 | 159 | 159 |
| Pressure Drop | kPa | 49 | 44 | 50 | 61 | 59 | 65 |
| Water Connections Size | -- | 4" | 4" | 4" | 4" | 4" | 4" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 069.2 | 077.2 | 084.2 | 092.2 | 100.2 | 106.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 2870 | 3285 | 3285 | 3285 | 3285 | 3285 |
| Operating weight | kg | 3000 | 3400 | 3400 | 3400 | 3400 | 3400 |
| (A) Length | mm | 3140 | 4040 | 4040 | 4040 | 4040 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 |



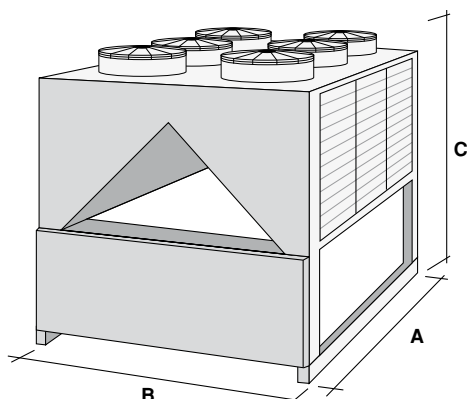
TECHNICAL DATA McEnergy ClassA ST - cooling only

| McEnergy ClassA ST | | 114.2 | 143.2 | 151.2 | 166.2 | 179.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 401 | 501 | 532 | 582 | 627 |
| Unit Power Input ¹ | kW | 128 | 161 | 171 | 184 | 195 |
| EER | -- | 3,15 | 3,12 | 3,11 | 3,17 | 3,21 |
| ESEER | -- | 3,59 | 3,60 | 3,61 | 3,56 | 3,37 |
| Sound Pressure Level ² | dB(A) | 79,0 | 79,0 | 79,0 | 79,0 | 79,0 |
| Compressor | Type | McQuay Single Screw | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | |
| Fan | Type | Axial | | | | |
| Quantity | Nr | 8 | 8 | 10 | 10 | 10 |
| Power Input | kW | 1,80 | 1,73 | 1,73 | 1,73 | 1,73 |
| Speed | RPM | 900 | 890 | 890 | 890 | 890 |
| Diameter | mm | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 159 | 263 | 263 | 256 | 256 |
| Pressure Drop | kPa | 71 | 63 | 68 | 61 | 70 |
| Water Connections Size | -- | 4" | 6,5" | 6,5" | 6,5" | 6,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 114.2 | 143.2 | 151.2 | 166.2 | 179.2 |
|-----------------------|----|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3285 | 4140 | 4500 | 4510 | 4510 |
| Operating weight | kg | 3400 | 4545 | 4935 | 4940 | 4940 |
| (A) Length | mm | 4040 | 4040 | 4940 | 4940 | 4940 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2340 | 2340 | 2340 | 2340 |



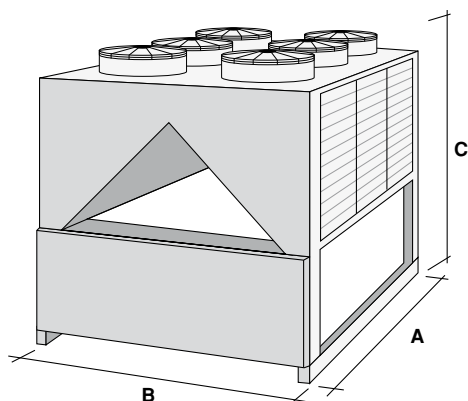
TECHNICAL DATA McEnergy ClassA XN - cooling only

| McEnergy ClassA XN | | 069.2 | 077.2 | 084.2 | 092.2 | 100.2 | 106.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 243 | 272 | 296 | 322 | 345 | 370 |
| Unit Power Input ¹ | kW | 80,5 | 87,1 | 94,9 | 106 | 115 | 119 |
| EER | -- | 3,01 | 3,12 | 3,11 | 3,05 | 2,99 | 3,11 |
| ESEER | -- | 3,63 | 3,69 | 3,69 | 3,76 | 3,71 | 3,85 |
| Sound Pressure Level ² | dB(A) | 72,5 | 72,5 | 72,5 | 72,5 | 72,5 | 73,5 |
| Compressor | Type | McQuay Single Screw | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | |
| Fan | Type | Axial | | | | | |
| Quantity | Nr | 6 | 8 | 8 | 8 | 8 | 8 |
| Power Input | kW | 0,70 | 0,70 | 0,70 | 0,70 | 0,70 | 0,90 |
| Speed | RPM | 680 | 680 | 680 | 680 | 680 | 700 |
| Diameter | mm | 710 | 710 | 710 | 710 | 710 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 93 | 113 | 113 | 164 | 159 | 159 |
| Pressure Drop | kPa | 49 | 42 | 48 | 59 | 53 | 63 |
| Water Connections Size | -- | 4" | 4" | 4" | 4" | 4" | 4" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | |

NOTES:

- 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 069.2 | 077.2 | 084.2 | 092.2 | 100.2 | 106.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 2970 | 3435 | 3435 | 3435 | 3435 | 3435 |
| Operating weight | kg | 3100 | 3550 | 3550 | 3550 | 3550 | 3550 |
| (A) Length | mm | 3140 | 4040 | 4040 | 4040 | 4040 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 |



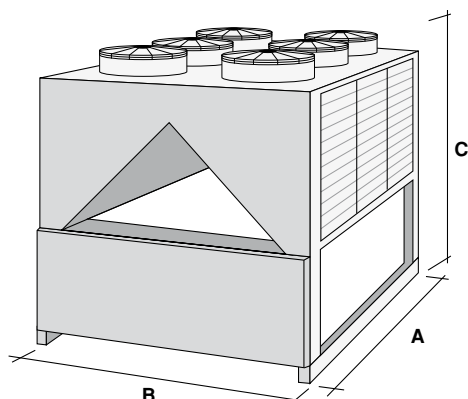
TECHNICAL DATA McEnergy ClassA XN - cooling only

| McEnergy ClassA XN | | 114.2 | 143.2 | 151.2 | 166.2 | 179.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 349 | 489 | 520 | 570 | 613 |
| Unit Power Input ¹ | kW | 127 | 166 | 175 | 188 | 200 |
| EER | -- | 3,10 | 2,95 | 2,98 | 3,04 | 3,07 |
| ESEER | -- | 3,82 | 3,73 | 3,77 | 3,71 | 3,48 |
| Sound Pressure Level ² | dB(A) | 73,5 | 73,5 | 73,5 | 73,5 | 73,5 |
| Compressor | Type | McQuay Single Screw | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | |
| Fan | Type | Axial | | | | |
| Quantity | Nr | 8 | 8 | 10 | 10 | 10 |
| Power Input | kW | 0,90 | 0,90 | 0,90 | 0,90 | 0,90 |
| Speed | RPM | 700 | 705 | 705 | 705 | 705 |
| Diameter | mm | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 159 | 263 | 263 | 256 | 256 |
| Pressure Drop | kPa | 69 | 53 | 66 | 57 | 64 |
| Water Connections Size | -- | 4" | 6,5" | 6,5" | 6,5" | 6,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 114.2 | 143.2 | 151.2 | 166.2 | 179.2 |
|-----------------------|----|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3435 | 4300 | 4660 | 4670 | 4670 |
| Operating weight | kg | 3550 | 4705 | 5095 | 5100 | 5100 |
| (A) Length | mm | 4040 | 4040 | 4940 | 4940 | 4940 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2340 | 2340 | 2340 | 2340 |



McEnergy

AIR COOLED CHILLER WITH SCREW COMPRESSORS

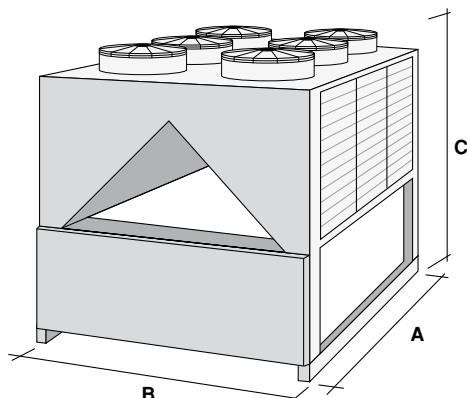
TECHNICAL DATA McEnergy HA ST - cooling only

| McEnergy HA ST | | 052.2 | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 | 091.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 195 | 208 | 234 | 256 | 274 | 289 | 306 | 336 |
| Unit Power Input ¹ | kW | 77,2 | 75,6 | 83,0 | 91,0 | 98,8 | 104 | 112 | 120 |
| EER | -- | 2,52 | 2,76 | 2,81 | 2,81 | 2,80 | 2,78 | 2,73 | 2,79 |
| ESEER | -- | 2,98 | 3,14 | 3,14 | 3,11 | 3,20 | 3,19 | 3,20 | 3,14 |
| Sound Pressure Level ² | dB(A) | 77,0 | 77,0 | 77,0 | 77,0 | 77,0 | 77,0 | 77,0 | 77,0 |
| Compressor | Type | McQuay Single Screw | | | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | | | |
| Fan | Type | Axial | | | | | | | |
| Quantity | Nr | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 8 |
| Power Input | kW | 1,80 | 1,80 | 1,80 | 1,80 | 1,80 | 1,80 | 1,80 | 1,80 |
| Speed | RPM | 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 |
| Diameter | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 25 | 31 | 93 | 93 | 90 | 90 | 90 | 113 |
| Pressure Drop | kPa | 31 | 24 | 48 | 56 | 65 | 74 | 84 | 62 |
| Water Connections Size | -- | 3" | 3" | 4" | 4" | 4" | 4" | 4" | 4" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 052.2 | 056.2 | 064.2 | 070.2 | 074.2 | 078.2 | 085.2 | 091.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 2470 | 2470 | 2860 | 2860 | 2860 | 2860 | 2860 | 3187 |
| Operating weight | kg | 2500 | 2500 | 2960 | 2960 | 2960 | 2960 | 2960 | 3300 |
| (A) Length | mm | 2240 | 2240 | 3140 | 3140 | 3140 | 3140 | 3140 | 4040 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 | 2355 |



TECHNICAL DATA McEnergy HA ST - cooling only

| McEnergy HA ST | | 105.2 | 121.2 | 133.2 | 143.2 | 151.2 | 160.2 | 171.2 |
|-----------------------------------|---------|---|-------|-------|-------|-------|-------|-------|
| Cooling Capacity ¹ | kW | 381 | 426 | 468 | 502 | 530 | 561 | 600 |
| Unit Power Input ¹ | kW | 127 | 147 | 160 | 171 | 180 | 192 | 198 |
| EER | -- | 2,99 | 2,91 | 2,92 | 2,94 | 2,94 | 2,92 | 3,03 |
| ESEER | -- | 3,57 | 3,39 | 3,30 | 3,29 | 3,15 | 3,17 | 3,23 |
| Sound Pressure Level ² | dB(A) | 79,0 | 77,0 | 77,5 | 77,5 | 77,5 | 79,0 | 79,5 |
| Compressor | Type | McQuay Single Screw | | | | | | |
| Quantity | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Minimum Capacity | % | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 |
| Refrigerant | Type | R-134a | | | | | | |
| Circuits Number | Nr | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Condenser Coil | Type | Lanced Fins - Internally Spiral Wound Tubes | | | | | | |
| Fan | Type | Axial | | | | | | |
| Quantity | Nr | 8 | 8 | 10 | 10 | 10 | 10 | 10 |
| Power Input | kW | 1,80 | 1,73 | 1,73 | 1,73 | 1,7,3 | 1,73 | 1,73 |
| Speed | RPM | 900 | 890 | 890 | 890 | 890 | 890 | 890 |
| Diameter | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Evaporator | Type | Shell and Tube - Direct Expansion | | | | | | |
| Quantity | Nr | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water Volume | l | 113 | 170 | 170 | 164 | 164 | 160 | 160 |
| Pressure Drop | kPa | 78 | 56 | 67 | 62 | 67 | 60 | 70 |
| Water Connections Size | -- | 4" | 5,5" | 5,5" | 5,5" | 5,5" | 5,5" | 5,5" |
| Standard Voltage | V/ph/Hz | 400V / 3ph / 50Hz | | | | | | |

NOTES:

- (1) 12/7°C entering/leaving evaporator water temperature; 35°C ambient temperature
- (2) At 1m, according to ISO 3744, at free field semispherical conditions

| Weight and dimensions | | 105.2 | 121.2 | 133.2 | 143.2 | 151.2 | 160.2 | 171.2 |
|-----------------------|----|-------|-------|-------|-------|-------|-------|-------|
| Shipping weight | kg | 3187 | 3800 | 4130 | 4190 | 4332 | 4392 | 4230 |
| Operating weight | kg | 3300 | 4112 | 4418 | 4481 | 4496 | 4552 | 4526 |
| (A) Length | mm | 4040 | 4040 | 4940 | 4940 | 4940 | 4940 | 4940 |
| (B) Width | mm | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 | 2235 |
| (C) Height | mm | 2355 | 2340 | 2340 | 2340 | 2340 | 2340 | 2340 |

