

Cubic unit cooler



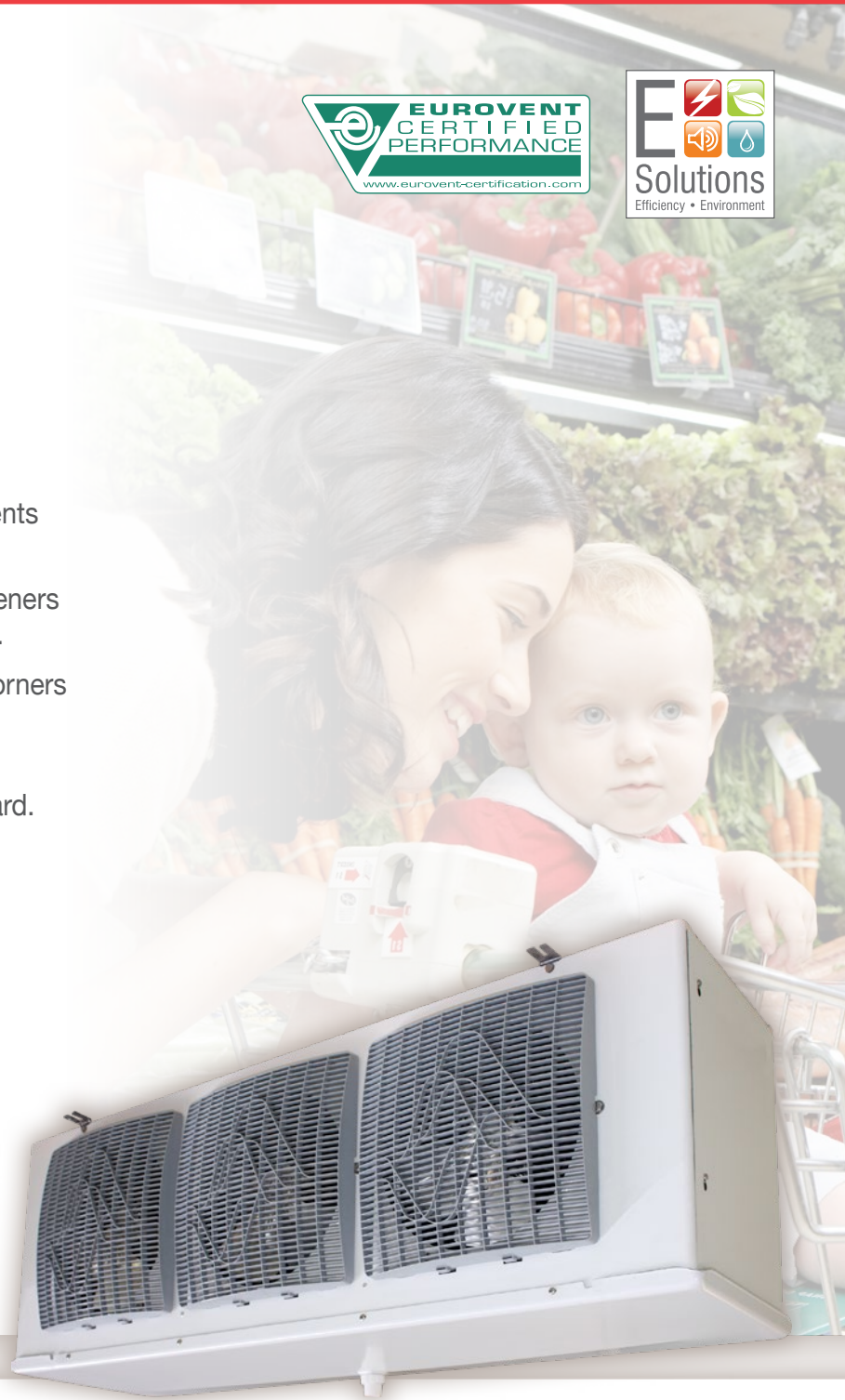
MUC/LUC commercial range

- The MUC-LUC range meets the requirements of medium size cold rooms (up to 70 m³).
- New guard design with air stream straighteners guaranteeing excellent air flow up to 30 m.
- The drain pan is designed with rounded corners and a base sloping toward the drain pipe o ensure maximum safety and hygiene.
- Supplied with factory wired fans as standard.



Natural fluids:
Glycol water
CO₂ (R744)*

* Chill applications - Operating pressure 60 bar



1 13.7 kW

MUC / LUC - Cubic commercial unit cooler

Market segments



FFS Bars - Restaurants - Corner shops - Mini-markets
FSM Hard Discount - Supermarkets - Hypermarkets

Description

Casing

- Sturdy and aesthetic casing made of white pre-painted sheet steel.
- Drain pan with rounded corners (photo n°1) to eliminate condensate retention zones which favour the development of harmful germs and no sharp or cutting edges to guarantee total safety.

Ventilation

- MUC-LUC range is fitted with permanently lubricated, axial fans, factory wired:
 - Ø 300 mm: standard type, 230 V/1/50-60 Hz, enclosed motor, class B, internal overload protection. New design (photo n°2): plastic fan guard with air stream straighteners guaranteeing maximum air throw in compliance with safety standards.
 - Ø 450 mm: standard type, 230-400 V/3/50 Hz, enclosed motors with drain holes, IP54, class F, internal overload protections to be connected.
- The plastic guards (Ø 450 mm) are compliant with safety standards.

Coil

- The highly efficient and compact MUC-LUC range finned coils are designed with corrugated surface aluminium fins (fin spacing 4.23 or 6.35 mm) and internally grooved copper tubes.
- The coils are supplied via a factory fitted diaphragm distributor.

Defrost

- Shielded electric heating elements are inserted in slots both on the front and rear coil faces (photo n°3).
- One of these elements is fastened in the drain pan.
- The heaters are factory wired on a terminal block in a sealed junction box. 230V /1 power supply for LUC 155 E, 210 E, 295 E and 150 C, 205 C models. 230-400V/3 power supply for LUC 350 E to 841 E and 290 C to 836 C models.
- Condensation is collected in the drain pan then evacuated through a large drain fitting (Ø 1" G).

Certifications



Advantages

Installation

Large space available for easy installation of the expansion valve.

The expansion valve may be supplied factory pre-fitted (option DM), as well as fully equipped (option EEC) to help reduce installation time.

Servicing / Maintenance

Side panels and drain pan may be easily removed offering fast and easy access to all unit cooler elements (coil, fans, defrost heaters, connections...).

The electric heating elements are fitted in slots under the coil offering unimpeded front access (LUC) (photo n°3).

Large electrical enclosure rendering maintenance tasks easier.

Designation

MUC 320⁽¹⁾ R⁽²⁾

(1) Model

(2) Fin spacing: **R/E** = 4,23 mm - **L/C** = 6,35 mm

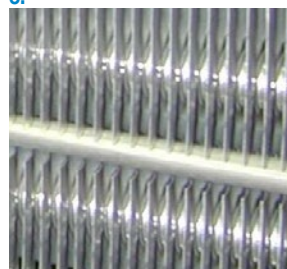
1.



2.



3.



4.



| Kit | Factory | Options |
|------------|------------|--|
| | M60 | Ventilation Ø 300 mm: 400V/3/50-60H (adapted fan blades). Ø 450 mm: 230-400V/3/50-60Hz (adapted fan blades). |
| | BAE | Coil Paint coil protection. |
| | BXT | Blygold Polual XT coil protection. |
| | WCO | Glycol water, coolant (please contact us for details). |
| | CO2 | R744 optimization (please contact us for details). |
| | 2TH | Defrost TH 5709L: end of defrost thermostat with single-pole, reversing switch at +12 °C (±3 °C) and delayed fan start up +2 °C (±3 °C). THS 5708L: single-pole thermostat for overheating protection set at +24 °C (±3 °C). Recommended with electric defrost. |
| | HG1 | Defrost with hot gas (LUC) (coil: hot gas, drain pan: electric heating elements). |
| ECK | ECU | Additional electric defrost (drain pan) (LUC). |
| E1K | E1U | Light electric defrost (MUC): heating elements fitted in sleeves (photo n°4) (requiring side space for fitting). |
| ERK | ERU | Reinforced drip tray electrical defrost (recommended for intensive-use, low-temperature applications). |
| | DM | Fully equipped unit coolers Expansion valve fitted. |
| | EEC | Fully equipped unit cooler: - Expansion valve fitted. - Solenoid valve fitted. - Ball valve fitted. - Copper siphon equipped with a ball valve delivered not fitted. |

MUC ... R

4,23 mm

| | | MUC ... R | 145 | 200 | 285 | 320 | 420 | 520 | 620 | 640 | 660 | 670 | 781 |
|--------------------------------|----------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Capacity R404A (1) | DT1 = 8 K - SC2 | kW | 1,44 | 2,31 | 3,48 | 3,83 | 4,94 | 5,89 | 7,17 | 8,23 | 9,56 | 10,89 | 12,01 |
| Capacity CO ₂ (7) | DT1 = 8 K - SC2 | kW | 1,52 | 2,00 | 2,85 | 3,27 | 4,12 | 4,93 | 6,00 | 6,73 | 7,35 | 8,29 | 10,75 |
| Surface | | m ² | 5,6 | 8,6 | 10,0 | 13,4 | 18,3 | 21,4 | 25,7 | 40,2 | 48,7 | 48,7 | 38,6 |
| Circuit volume | | dm ³ | 1 | 1,5 | 1,7 | 2,3 | 3,1 | 3,7 | 4,4 | 6,9 | 8,4 | 8,4 | 6,6 |
| Air flow | | m ³ /h | 1250 | 1240 | 2340 | 2080 | 2560 | 3250 | 3700 | 3260 | 3490 | 4170 | 7900 |
| | Air throw (2) | m | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 30 |
| | Num. x Ø | mm | 1 x 300 | 1 x 300 | 2 x 300 | 2 x 300 | 2 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 4 x 300 | 2 x 450 |
| Fan 1500 r.p.m. | 230 V/1/50-60 Hz | W max | 1 x 145 | 1 x 145 | 2 x 145 | 2 x 145 | 2 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 4 x 145 | - |
| | | A max (3) | 1 x 0,85 | 1 x 0,85 | 2 x 0,85 | 2 x 0,85 | 2 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 4 x 0,85 | - |
| | 230-400 V/3/50 Hz | W max | - | - | - | - | - | - | - | - | - | - | 2 x 360 |
| | | A max (3) | - | - | - | - | - | - | - | - | - | - | 2 x 1,0 |
| Electric defrost E1K (4) | | Nb | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3/6 |
| | 230 V/1/50 Hz | W Total | 420 | 630 | 780 | 960 | 1320 | 1560 | 1860 | 2550 | 3150 | 3150 | 1740/3480 |
| | | A Total | 1,8 | 2,8 | 3,4 | 4,2 | 5,8 | 6,8 | 8,1 | - | - | - | - |
| | 400 V/3/50 Hz | A Total | - | - | - | - | - | - | - | 3,7 | 4,6 | 4,6 | 2,5/5,0 |
| Net weight | | kg | 16 | 18 | 22 | 27 | 32 | 43 | 44 | 56 | 68 | 70 | 73 |
| | A | mm | 575 | 575 | 981 | 981 | 1235 | 1355 | 1665 | 1998 | 2348 | 2348 | 1657 |
| | B | mm | 400 | 464 | 400 | 400 | 400 | 464 | 400 | 400 | 400 | 400 | 590 |
| | C | mm | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 482 |
| | D | mm | 355 | 419 | 355 | 355 | 355 | 419 | 352 | 350 | 350 | 350 | 538 |
| | E | mm | 42 | 39 | 89 | 89 | 89 | 89 | 110 | 110 | 110 | 110 | 110 |
| | H | mm | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 78 |
| | K | mm | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 606 |
| | R | mm | 72 | 72 | 122 | 122 | 122 | 122 | 147 | 147 | 147 | 147 | 147 |
| | X | mm | 416 | 416 | 722 | 722 | 976 | 976 | 1356 | 1686 | 2036 | 2036 | 1356 |
| | Y | mm | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 536 |
| | Connections R404A | Inlet | Ø (5) | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 7/8" | D 7/8" |
| Outlet | | Ø ODF (6) | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 3/4" | 7/8" | 7/8" | 7/8" | 7/8" | 1 3/8" |
| Connections CO ₂ | Inlet | Ø | 3/8" (6) | 3/8" (6) | 3/8" (6) | 3/8" (6) | 3/8" (6) | 3/8" (6) | 1/2" (5) | 1/2" (5) | 1/2" (5) | 1/2" (5) | 1/2" (5) |
| | Outlet | Ø ODF (6) | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

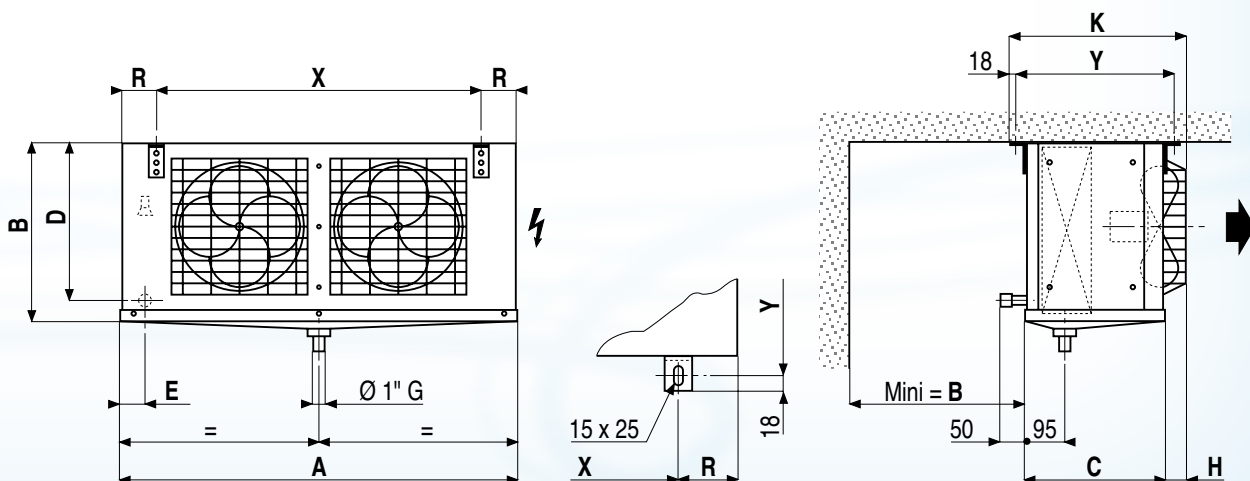
(3) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the chamber temperature is attained.

(4) Electric defrost option.

(5) Distributor: Male to be brazed.

(6) ODF: Female to receive a tube of the same diameter.

(7) Operating pressure 60 bar



| M60* | BAE | BXT | WCO | CO ₂ | 2TH | HG1 | ECK | ECU | E1K | E1U | ERK | DM | EEC |
|------|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|----|-----|
| 0 | 0 | 0 | - | | 0 | - | - | - | 0 | 0 | - | 0 | 0 |

* Only three-phase motors

MUC ... L

6,35 mm

| | | MUC ... L | 140 | 195 | 280 | 315 | 415 | 515 | 615 | 635 | 655 | 665 | 776 |
|--------------------------------|-------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Capacity R404A (1) | DT1 = 8 K - SC2 | kW | 1,70 | 2,07 | 3,17 | 3,43 | 4,52 | 5,49 | 6,42 | 6,89 | 7,41 | 9,00 | 10,61 |
| Capacity CO ₂ (7) | DT1 = 8 K - SC2 | kW | 1,55 | 1,96 | 2,88 | 3,17 | 3,97 | 4,75 | 5,84 | 5,92 | 6,45 | 7,39 | 10,45 |
| Capacity W (8) | DT1 = 8 K | kW | 1,62 | - | 3,33 | - | 4,53 | - | 6,88 | - | - | 8,38 | - |
| Surface | | m ² | 5,1 | 7,5 | 9,3 | 11,6 | 15,8 | 18,5 | 22,3 | 27,8 | 33,7 | 33,7 | 33,4 |
| Circuit volume | | dm ³ | 1,3 | 1,9 | 2,3 | 2,9 | 3,9 | 4,6 | 5,5 | 6,9 | 8,4 | 8,4 | 8,3 |
| Air flow | | m ³ /h | 1220 | 1240 | 2270 | 2080 | 2560 | 3250 | 3690 | 3440 | 3620 | 4440 | 7890 |
| | Air throw (2) | m | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 30 |
| | Num. x Ø | mm | 1 x 300 | 1 x 300 | 2 x 300 | 2 x 300 | 2 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 4 x 300 | 2 x 450 |
| Fan 1500 r.p.m. | 230 V/1/50-60 Hz | W max | 1 x 145 | 1 x 145 | 2 x 145 | 2 x 145 | 2 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 4 x 145 | - |
| | | A max (3) | 1 x 0,85 | 1 x 0,85 | 2 x 0,85 | 2 x 0,85 | 2 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 4 x 0,85 | - |
| | 230-400 V/3/50 Hz | W max | - | - | - | - | - | - | - | - | - | - | 2 x 360 |
| | | A max (3) | - | - | - | - | - | - | - | - | - | - | - |
| Electric defrost E1K (4) | 230 V/1/50 Hz | Nb | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3/6 |
| | | W Total | 420 | 630 | 780 | 960 | 1320 | 1560 | 1860 | 2550 | 3150 | 3150 | 1740/3480 |
| | 400 V/3/50 Hz | A Total | 1,8 | 2,8 | 3,4 | 4,2 | 5,8 | 6,8 | 8,1 | - | - | - | - |
| | | A Total | - | - | - | - | - | - | - | 3,7 | 4,6 | 4,6 | 2,5/5,0 |
| Net weight | | kg | 16 | 18 | 22 | 27 | 32 | 44 | 45 | 56 | 68 | 70 | 74 |
| Dimensions | A | mm | 575 | 575 | 981 | 981 | 1235 | 1355 | 1665 | 1998 | 2348 | 2348 | 1657 |
| | B | mm | 400 | 464 | 400 | 400 | 400 | 464 | 400 | 400 | 400 | 400 | 590 |
| | C | mm | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 482 |
| | D | mm | 355 | 419 | 355 | 355 | 355 | 419 | 352 | 350 | 350 | 350 | 538 |
| | E | mm | 42 | 39 | 89 | 89 | 89 | 89 | 110 | 110 | 110 | 110 | 110 |
| | H | mm | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 78 |
| | K | mm | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 606 |
| | R | mm | 72 | 72 | 122 | 122 | 122 | 122 | 147 | 147 | 147 | 147 | 147 |
| | X | mm | 416 | 416 | 722 | 722 | 976 | 976 | 1356 | 1686 | 2036 | 2036 | 1356 |
| | Y | mm | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 536 |
| Connections R404A | Inlet | Ø (5) | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 7/8" | D 1 1/8" |
| | Outlet | Ø ODF (6) | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 3/4" | 7/8" | 7/8" | 7/8" | 7/8" | 1 1/8" |
| Connections CO ₂ | Inlet | Ø | 3/8" (6) | 3/8" (6) | 3/8" (6) | 3/8" (6) | 3/8" (6) | 3/8" (6) | 1/2" (5) | 1/2" (5) | 1/2" (5) | 1/2" (5) | 1/2" (5) |
| | Outlet | Ø ODF (6) | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |

(1) See page 10.

(2) Residual air speed: 0.25 m/s, in compliance with standard.

(3) Setting of overload protection levels. For air temperatures "t_i" other than +20 °C, multiply the currents in relation to 293/(273 + "t_i") in order to obtain an approximate current value after the chamber temperature is attained.

(4) Electric defrost option.

(5) Distributor: Male to be brazed.

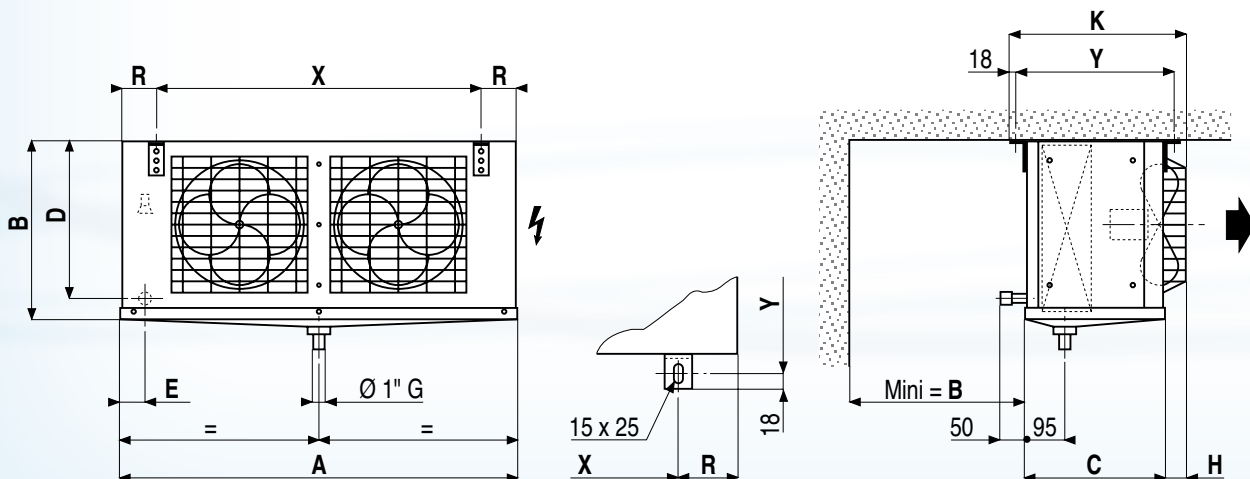
(6) ODF: Female to receive a tube of the same diameter.

(7) Operating pressure 60 bar

(8) Glycol water:

Fluid: Percentage of glycol = 30 % - Fluid inlet temperature = -8 °C - Fluid outlet temperature = -4 °C

Inlet dry temperature = +2 °C - relative humidity = 85 % - Other conditions: please contact us.



| M60* | BAE | BXT | WCO | CO ₂ | 2TH | HG1 | ECK | ECU | E1K | E1U | ERK | DM | EEC |
|------|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|----|-----|
| 0 | 0 | 0 | ☺☺ | ☺☺ | 0 | - | - | - | 0 | 0 | - | 0 | 0 |

LUC ... E

4,23 mm

| | | LUC ... E | 155 | 210 | 295 | 350 | 440 | 550 | 650 | 700 | 710 | 720 | 841 |
|----------------------|-------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| Capacity R404A (1) | DT1 = 7 K - SC3 | kW | 1,42 | 1,84 | 2,69 | 3,03 | 3,96 | 4,86 | 5,68 | 6,92 | 7,51 | 8,47 | 9,24 |
| | DT1 = 6 K - SC4 | kW | 1,10 | 1,44 | 2,04 | 2,37 | 3,12 | 3,82 | 4,48 | 5,73 | 6,22 | 6,94 | 7,26 |
| Surface | | m ² | 5,6 | 8,6 | 10,0 | 13,4 | 18,3 | 21,4 | 25,7 | 40,2 | 48,7 | 48,7 | 38,6 |
| Circuit volume | | dm ³ | 1,0 | 1,5 | 1,7 | 2,3 | 3,1 | 3,7 | 4,4 | 6,9 | 8,4 | 8,4 | 6,6 |
| Air flow | | m ³ /h | 1250 | 1240 | 2340 | 2080 | 2560 | 3250 | 3700 | 3260 | 3490 | 4170 | 7900 |
| | Air throw (2) | m | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 30 |
| | Num. x Ø | mm | 1 x 300 | 1 x 300 | 2 x 300 | 2 x 300 | 2 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 4 x 300 | 2 x 450 |
| Fan 1500 r.p.m. | 230 V/1/50-60 Hz | W max | 1 x 145 | 1 x 145 | 2 x 145 | 2 x 145 | 2 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 4 x 145 | - |
| | | A max (3) | 1 x 0,85 | 1 x 0,85 | 2 x 0,85 | 2 x 0,85 | 2 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 4 x 0,85 | - |
| | 230-400 V/3/50 Hz | W max | - | - | - | - | - | - | - | - | - | - | 2 x 360 |
| | | A max (3) | - | - | - | - | - | - | - | - | - | - | 2 x 1,0 |
| | Coil | Nb | 1 | 2 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 8 |
| | Drain pan | Nb | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Electric defrost | | W Total | 1300 | 2150 | 2000 | 3000 | 3600 | 3600 | 5640 | 6900 | 8400 | 8400 | 8460 |
| | 230 V/1/50 Hz | A Total | 5,7 | 9,4 | 8,7 | - | - | - | - | - | - | - | - |
| | 400 V/3/50 Hz | A Total | - | - | - | 4,4 | 5,2 | 5,2 | 8,2 | 9,9 | 12,1 | 12,1 | 12,2 |
| Net weight | | kg | 16 | 18 | 22 | 27 | 32 | 43 | 44 | 57 | 69 | 71 | 73 |
| | A | mm | 575 | 575 | 981 | 981 | 1235 | 1355 | 1665 | 1998 | 2348 | 2348 | 1657 |
| | B | mm | 400 | 464 | 400 | 400 | 400 | 464 | 400 | 400 | 400 | 400 | 590 |
| | C | mm | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 482 |
| | D | mm | 355 | 419 | 355 | 355 | 355 | 419 | 342 | 340 | 340 | 340 | 538 |
| | E | mm | 42 | 39 | 89 | 89 | 89 | 89 | 110 | 110 | 110 | 110 | 110 |
| | H | mm | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 78 |
| | K | mm | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 606 |
| | R | mm | 72 | 72 | 122 | 122 | 122 | 122 | 147 | 147 | 147 | 147 | 147 |
| | X | mm | 416 | 416 | 722 | 722 | 976 | 976 | 1356 | 1686 | 2036 | 2036 | 1356 |
| | Y | mm | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 412 | 536 |
| Connections R404A | Inlet | Ø (5) | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 7/8" | D 7/8" | D 7/8" | D 1"1/8 |
| | Outlet | Ø ODF (6) | 1/2" | 5/8" | 3/4" | 3/4" | 7/8" | 7/8" | 1"1/8 | 1"1/8 | 1"1/8 | 1"1/8 | 1"3/8 |

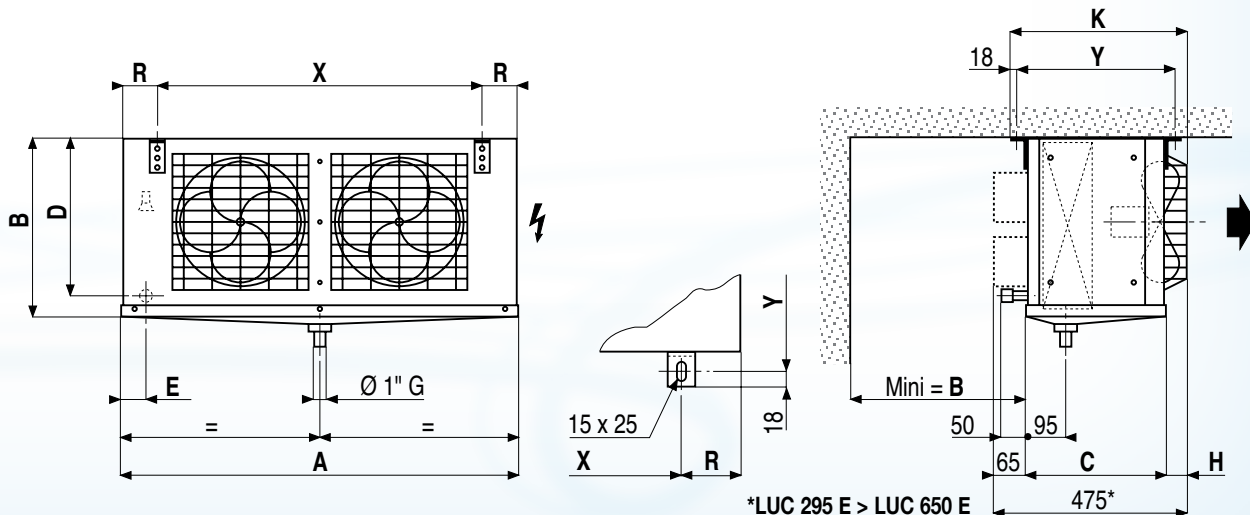
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(5) Distributor: Male to be brazed.

(6) ODF: Female to receive a tube of the same diameter.



| | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|
| M60* | BAE | BXT | WCO | CO2 | 2TH | HG1 | ECK | ECU | E1K | E1U | ERK | DM | EEC |
| 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 |

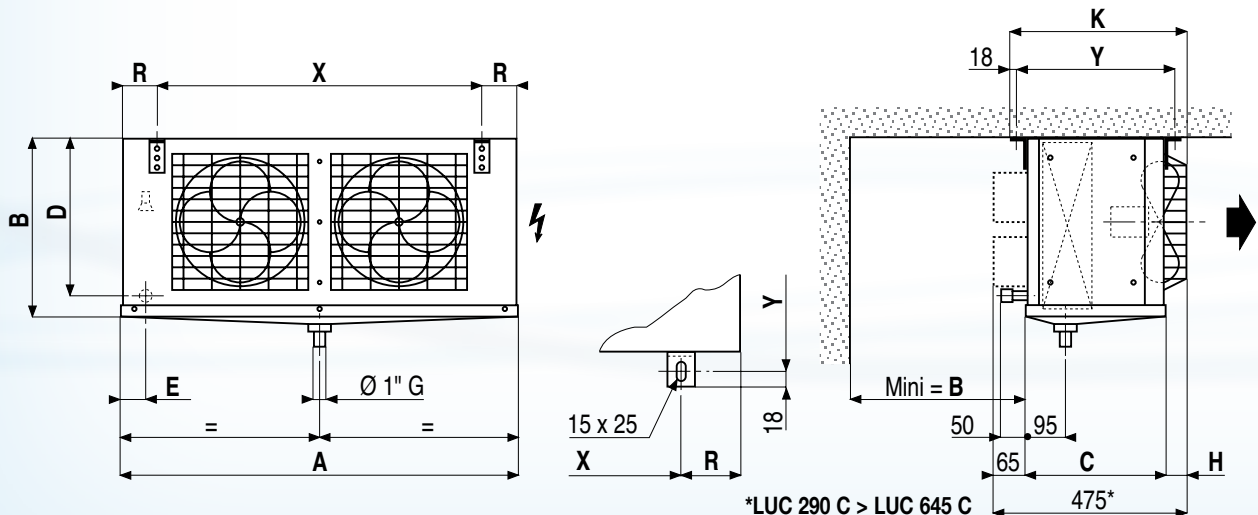
* Only three-phase motors

LUC ... C

6,35 mm

| | | LUC ... C | 150 | 205 | 290 | 345 | 435 | 545 | 645 | 695 | 705 | 715 | 836 | |
|------------------------------|-------------------|-------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|
| Capacity R404A (1) | DT1 = 7 K - SC3 | kW | 1,30 | 1,67 | 2,48 | 2,78 | 3,58 | 4,39 | 5,17 | 5,68 | 6,21 | 7,08 | 8,38 | |
| | DT1 = 6 K - SC4 | kW | 1,03 | 1,31 | 1,96 | 2,20 | 2,83 | 3,48 | 4,11 | 4,76 | 5,18 | 5,89 | 6,61 | |
| Capacity CO ₂ (7) | DT1 = 7 K - SC3 | kW | 1,18 | 1,50 | 2,17 | 2,44 | 3,14 | 3,86 | 4,50 | 4,61 | 5,06 | 5,81 | - | |
| | DT1 = 6 K - SC4 | kW | 1,00 | 1,28 | 1,83 | 2,08 | 2,68 | 3,29 | 3,83 | 3,94 | 4,33 | 4,97 | - | |
| Surface | | m ² | 5,1 | 7,5 | 9,3 | 11,6 | 15,8 | 18,5 | 22,3 | 27,8 | 33,7 | 33,7 | 33,4 | |
| Circuit volume | | dm ³ | 1,3 | 1,9 | 2,3 | 2,9 | 3,9 | 4,6 | 5,5 | 6,9 | 8,4 | 8,4 | 8,3 | |
| Air flow | | m ³ /h | 1220 | 1240 | 2270 | 2080 | 2560 | 3250 | 3690 | 3440 | 3620 | 4440 | 7890 | |
| Fan 1500 r.p.m. | Air throw (2) | m | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 30 | |
| | Num. x Ø | mm | 1 x 300 | 1 x 300 | 2 x 300 | 2 x 300 | 2 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 3 x 300 | 4 x 300 | 2 x 450 | |
| | 230 V/1/50-60 Hz | W max | 1 x 145 | 1 x 145 | 2 x 145 | 2 x 145 | 2 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 3 x 145 | 4 x 145 | - | |
| | | A max (3) | 1 x 0,85 | 1 x 0,85 | 2 x 0,85 | 2 x 0,85 | 2 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 3 x 0,85 | 4 x 0,85 | - | |
| | 230-400 V/3/50 Hz | W max | - | - | - | - | - | - | - | - | - | - | 2 x 360 | |
| | | A max (3) | - | - | - | - | - | - | - | - | - | - | 2 x 1,0 | |
| Electric defrost | Coil | Nb | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 8 | |
| | Drain pan | Nb | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 230 V/1/50 Hz | W Total | 2150 | 2150 | 3000 | 3000 | 3600 | 3600 | 5640 | 6900 | 8400 | 8400 | 8460 | |
| | | A Total | 9,8 | 9,4 | - | - | - | - | - | - | - | - | - | |
| | 400 V/3/50 Hz | W Total | - | - | 4,4 | 4,4 | 5,2 | 5,2 | 8,2 | 9,9 | 12,1 | 12,1 | 12,2 | |
| | | A Total | - | - | - | - | - | - | - | - | - | - | - | |
| Dimensions | Net weight | kg | 16 | 18 | 22 | 27 | 32 | 44 | 45 | 57 | 69 | 71 | 74 | |
| | A | mm | 575 | 575 | 981 | 981 | 1235 | 1355 | 1665 | 1998 | 2348 | 2348 | 1657 | |
| | B | mm | 400 | 464 | 400 | 400 | 400 | 464 | 400 | 400 | 400 | 400 | 590 | |
| | C | mm | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 365 | 482 | |
| | D | mm | 355 | 419 | 355 | 355 | 355 | 419 | 342 | 340 | 340 | 340 | 538 | |
| | E | mm | 42 | 39 | 89 | 89 | 89 | 89 | 110 | 110 | 110 | 110 | 110 | |
| | H | mm | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 78 | |
| | K | mm | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 606 | |
| | R | mm | 72 | 72 | 122 | 122 | 122 | 122 | 147 | 147 | 147 | 147 | 147 | |
| | X | mm | 416 | 416 | 722 | 722 | 976 | 976 | 1356 | 1686 | 2036 | 2036 | 1356 | |
| Connections | R404A | Inlet | Ø (5) | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 1/2" | D 7/8" | D 7/8" | D 7/8" | D 7/8" | D 1 1/8" |
| | | Outlet | Ø ODF (6) | 5/8" | 5/8" | 3/4" | 3/4" | 7/8" | 7/8" | 1 1/8" | 1 1/8" | 1 1/8" | 1 1/8" | 1 3/8" |
| | CO ₂ | Inlet | Ø (5) | 3/8" | 3/8" | 5/8" | 5/8" | 5/8" | 5/8" | 5/8" | 5/8" | 5/8" | 5/8" | 5/8" |
| | | Outlet | Ø ODF (6) | 3/8" | 3/8" | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 3/4" | 3/4" | 3/4" | 7/8" |

- (1) See page 10.
- (2) Residual air speed: 0.25 m/s, in compliance with standard.
- (3) Setting of overload protection levels. For air temperatures "ti" other than +20 °C, multiply the currents in relation to 293/(273 + "ti") in order to obtain an approximate current value after the chamber temperature is attained.
- (5) Distributor: Male to be brazed.
- (6) ODF: Female to receive a tube of the same diameter.
- (7) Operating pressure 60 bar



| | | | | | | | | | | | | | |
|------|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|----|-----|
| M60* | BAE | BXT | WCO | CO ₂ | 2TH | HG1 | ECK | ECU | E1K | E1U | ERK | DM | EEC |
| 0 | - | - | - | | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 |