MH | MHE

Ceiling unit cooler
Commercial range

CO2 60 bar · A2L · HFC · W GLYCOL

1310 - 7390 W

Compact and **streamlined** design for perfect integration in small spaces and optimization of the storage area.
Excellent air distribution.
Easy access to all components **facilitating maintenance operations**.

CASING

Mounted on hinges, allowing easy access to all components (coil, motor fans, defrost heaters, connections, etc.).
Easy to clean: sheet steel, fully pre-painted white.

VENTILATION

Factory-wired axial motor fans (Ø 300 mm).

OPTIONS	
MM6	Motor fan 230V/1/60. CONTACT US
EC3	EC motor (electronic commutation) 2 speeds.

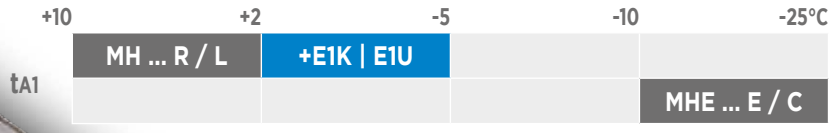
Save time during installation by choosing these additional options.

OPTIONS	
DMP	Expansion valve fitted.
EEC	Unit cooler completely assembled in the factory with: - Expansion valve. - Solenoid valve. - Pipework equipped with a ball valve (role of the siphon performed by the manifold).

DEFROST

Shielded electrical heaters housed in notches on the front and back of the coil.
Homogeneous heat dissipation thanks to an electrical heater under the coil.
Defrost heaters connected in the factory, on the terminal box (MHE range only).
Power supply 230V single phase for models MHE 320E, 380E and 250C, 310C.
400V three-phase power supply for models MHE 460E, 550E, 640E, 770E and 370C, 450C, 510C, 630C.

OPTIONS	
THD (MHE)	For cold rooms at negative temperatures, single pole reversing thermostat for defrost end at +12 °C (±3 K) and delayed ventilation restart at +2 °C (±3 K). Supplied with a probe and a fixing bracket.
E1U	Light electric defrost.
E1K	Light electric defrost (kit to install).



Select your coil treatment to extend your unit cooler's lifespan! Contact us.

COILS

Aluminium fins with 4.23 or 6.35 mm spacing.
Combined with copper tubes with a grooved internal structure, the coils are very efficient and compact.
Versions available:
- Multi-refrigerant HFCs.
- CO_2 (60 bar).
- WCO (glycol water, coolant). CONTACT US

MH(A) 320(B) R(C)

(A) **MH** = positive temperature without defrost
MHE = negative temperature with defrost
(B) Model
(C)Fin spacing: **R** = 4.23 mm (positive) **E** = 4.23 mm (negative)
L = 6.35 mm (positive) **C** = 6.35 mm (negative)

The MH | MHE is available with CO_2, A2Ls, HFCs and glycol water. For more information, please consult our software.

MH | MHE — 4,23 mm

CONDITIONS	REFRIGERANTS	MH ... R	320	380	460	550	640	770
SC2 (1)	CO_2 - 60 bar (2)	W	3210	3670	4770	5300	6130	7390
	R449A	W	2860	3420	4460	5230	6040	7060

CONDITIONS	REFRIGERANTS	MHE ... E	320	380	460	550	640	770
SC3 (1)	CO_2 - 60 bar (2)	W	2670	3000	3840	4160	5370	6070
	R449A	W	2090	2480	2970	3820	4180	5040
SC4 (1)	CO_2 - 60 bar (2)	W	2150	2430	3080	3310	4340	4920
	R449A	W	1630	1970	2270	3020	3290	3990

			320	380	460	550	640	770
Surface area		m^2	9,7	13,0	14,6	19,5	19,6	26,2
Circuit volume		dm^3	1,7	2,2	2,5	3,3	3,4	4,5
airflow		m^3/h	2290	2070	3430	3110	4600	4160
Fan 230 V/1/50-60 Hz 1,500 rpm	Air throw (3)	m	16	16	16	16	16	16
	Ø 300 mm	Nb	2	2	3	3	4	4
	230 V/1/50 Hz	W max	234	234	351	351	468	468
		A max (4)	1,54	1,54	2,31	2,31	3,08	3,08
Electric defrost MH > E1K optional MHE > standard *	Coil	Nb	2	2	2	2	2	2
	Drain pan	Nb	1	1	1	1	1	1
		W total	1800	1800	2700	2700	3600	3600
	230 V/1/50Hz	A total	7,83 *	7,83 *	11,7	11,7	15,7	15,7
	400 V/3/50Hz	A total	-	-	3,9 *	3,9 *	5,2 *	5,2 *
Connections HFCs	Inlet (5)	Ø ODF	D 1/2"	D 1/2"	D 1/2"	D 1/2"	D 5/8"	D 5/8"
	Outlet (5)	Ø ODF	5/8"	5/8"	3/4"	3/4"	7/8"	7/8"
Net weight		kg	34	35	46	48	54	57

(1) Standard conditions:
SC2 / 0 °C (air inlet temp.) / -8 °C (evaporating temp.) / DT1 = 8K
SC3 / -18 °C (air inlet temp.) / -25 °C (evaporating temp.) / DT1 = 7K
SC4 / -25 °C (air inlet temp.) / -31 °C (evaporating temp.) / DT1 = 6K
(2) Operating pressure - Specific coil - Connection diameters to be defined when ordering.
(3) Residual air speed: 0.25 m/s.
(4) Adjustment of overload protection. For air temperatures "ti" other than +20 °C, multiply the intensities by the ratio 293/(273 + "ti") to obtain the approximate value of the intensity after the room has been brought up to temperature.
(5) ODF: female to receive the tube of the same diameter.

* Factory assembled (MHE)

MHE(A) 250(B) C(C)

(A) **MH** = positive temperature without defrost
MHE = negative temperature with defrost
(B) Model
(C) Fin spacing: **R** = 4.23 mm (positive) **E** = 4.23 mm (negative)
L = 6.35 mm (positive) **C** = 6.35 mm (negative)

The MH | MHE is available with CO_2, A2Ls, HFCs and glycol water. For more information, please consult our software.

MH | MHE

6,35 mm

CONDITIONS	REFRIGERANTS	MH ... L	250	310	370	450	510	630
SC2 (1)	CO_2 - 60 bar (2)	W	2780	3320	4190	4860	5440	6690
	R449A	W	2280	2810	3520	4300	4670	5160

CONDITIONS	REFRIGERANTS	MHE ... C	250	310	370	450	510	630
SC3 (1)	CO_2 - 60 bar (2)	W	2320	2740	3400	3850	4680	5520
	R449A	W	1650	2000	2450	3020	3360	4150
SC4 (1)	CO_2 - 60 bar (2)	W	1880	2230	2750	3080	3800	4490
	R449A	W	1310	1590	1920	2500	2670	3320

			250	310	370	450	510	630
Surface area		m^2	6,7	9,0	10,1	13,5	13,6	18,1
Circuit volume		dm^3	1,7	2,2	2,5	3,3	3,4	4,5
airflow		m^3/h	2450	2290	3680	3430	4920	4590
Fan 230 V/1/50-60 Hz 1,500 rpm	Air throw (3)	m	17	17	17	17	17	17
	Ø 300 mm	Nb	2	2	3	3	4	4
	230 V/1/50 Hz	W max	234	234	351	351	468	468
		A max (4)	1,54	1,54	2,31	2,31	3,08	3,08
Electric defrost MH > E1K optional MHE > standard *	Coil	Nb	2	2	2	2	2	2
	Drain pan	Nb	1	1	1	1	1	1
		W total	1800	1800	2700	2700	3600	3600
	230 V/1/50Hz	A total	7,83 *	7,83 *	11,7	11,7	15,7	15,7
	400 V/3/50Hz	A total	-	-	3,9 *	3,9 *	5,2 *	5,2 *
Connections HFCs	Inlet (5)	Ø ODF	D 1/2"	D 1/2"	D 1/2"	D 1/2"	D 5/8"	D 5/8"
	Outlet (5)	Ø ODF	5/8"	5/8"	3/4"	3/4"	7/8"	7/8"
Net weight		kg	34	35	46	48	54	57

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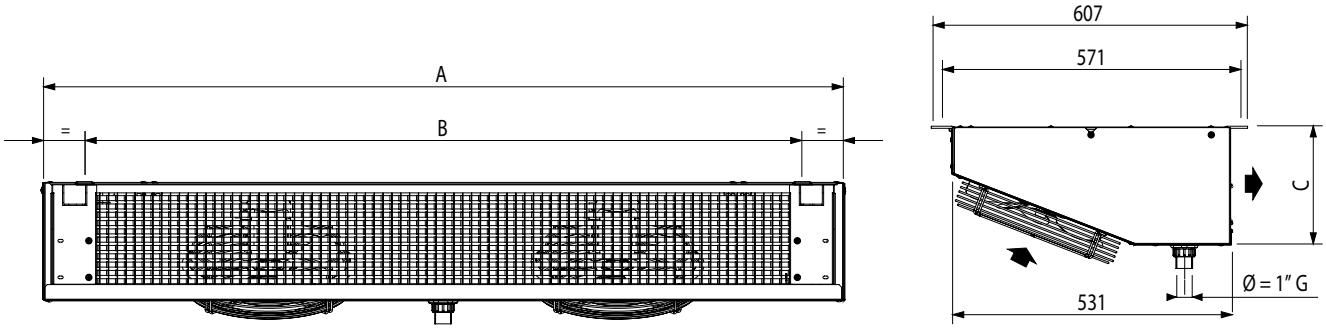
SC3 / -18 °C (air inlet temp.) / -25 °C (evaporating temp.) / DT1 = 7K
SC4 / -25 °C (air inlet temp.) / -31 °C (evaporating temp.) / DT1 = 6K
(2) Operating pressure - Specific coil - Connection diameters to be defined when ordering.
(3) Residual air speed: 0.25 m/s.
(4) Adjustment of overload protection. For air temperatures "ti" other than +20 °C, multiply the intensities by the ratio 293/(273 + "ti") to obtain the approximate value of the intensity after the room has been brought up to temperature.
(5) ODF: female to receive the tube of the same diameter.



MH

MH ... R

4.23 mm

		320	380	460	550	640	770
A	**mm**	1531	1531	2197	2197	2499	2499
B	**mm**	1372	1372	2038	2038	2340	2340
C	**mm**	228	228	228	228	260	260

MH ... L

6.35 mm

		250	310	370	450	510	630
A	**mm**	1531	1531	2197	2197	2499	2499
B	**mm**	1372	1372	2038	2038	2340	2340
C	**mm**	228	228	228	228	260	260

MHE

MHE ... E

4.23 mm

		320	380	460	550	640	770
A	**mm**	1531	1531	2197	2197	2499	2499
B	**mm**	1372	1372	2038	2038	2340	2340
C	**mm**	228	228	228	228	260	260

MHE ... C

6.35 mm

		250	310	370	450	510	630
A	**mm**	1531	1531	2197	2197	2499	2499
B	**mm**	1372	1372	2038	2038	2340	2340
C	**mm**	228	228	228	228	260	260