

MH | MHE

Ceiling unit cooler
Commercial range



|||| 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.

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).

“ Save time during installation by choosing these additional options. ”

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).

	+10	+2	-5	-10	-25°C
ta1	MH ... R / L	+E1K E1U			
					MHE ... E / C



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.
 - CO₂ (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 CO₂, A2Ls, HFCs and glycol water.
For more information, please consult our software.

CONDITIONS	REFRIGERANTS	MH ... R
SC2 (1)	CO ₂ - 60 bar (2)	W
	R449A	W

CONDITIONS	REFRIGERANTS	MHE ... E
SC3 (1)	CO ₂ - 60 bar (2)	W
	R449A	W
SC4 (1)	CO ₂ - 60 bar (2)	W
	R449A	W

Surface area	m ²	
Circuit volume	dm ³	
airflow	m ³ /h	
Fan 230 V/1/50-60 Hz 1,500 rpm	Air throw (3)	m
	Ø 300 mm	Nb
	230 V/1/50 Hz	W max
		A max (4)
Electric defrost MH > E1K optional MHE > standard *	Coil	Nb
	Drain pan	Nb
		W total
	230 V/1/50Hz	A total
	400 V/3/50Hz	A total
Connections HFCs	Inlet (5)	Ø ODF
	Outlet (5)	Ø ODF
Net weight	kg	

MH | MHE

4,23 mm

320	380	460	550	640	770
3210	3670	4770	5300	6130	7390
2860	3420	4460	5230	6040	7060

320	380	460	550	640	770
2670	3000	3840	4160	5370	6070
2090	2480	2970	3820	4180	5040
2150	2430	3080	3310	4340	4920
1630	1970	2270	3020	3290	3990

320	380	460	550	640	770
9,7	13,0	14,6	19,5	19,6	26,2
1,7	2,2	2,5	3,3	3,4	4,5
2290	2070	3430	3110	4600	4160
16	16	16	16	16	16
2	2	3	3	4	4
234	234	351	351	468	468
1,54	1,54	2,31	2,31	3,08	3,08
2	2	2	2	2	2
1	1	1	1	1	1
1800	1800	2700	2700	3600	3600
7,83 *	7,83 *	11,7	11,7	15,7	15,7
-	-	3,9 *	3,9 *	5,2 *	5,2 *
D 1/2"	D 1/2"	D 1/2"	D 1/2"	D 5/8"	D 5/8"
5/8"	5/8"	3/4"	3/4"	7/8"	7/8"
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 CO₂, A2Ls, HFCs and glycol water.
For more information, please consult our software.

MH | MHE

 6,35 mm

CONDITIONS	REFRIGERANTS	MH ... L
SC2 (1)	CO ₂ - 60 bar (2)	W
	R449A	W

250	310	370	450	510	630
2780	3320	4190	4860	5440	6690
2280	2810	3520	4300	4670	5160

CONDITIONS	REFRIGERANTS	MHE ... C
SC3 (1)	CO ₂ - 60 bar (2)	W
	R449A	W
SC4 (1)	CO ₂ - 60 bar (2)	W
	R449A	W

250	310	370	450	510	630
2320	2740	3400	3850	4680	5520
1650	2000	2450	3020	3360	4150
1880	2230	2750	3080	3800	4490
1310	1590	1920	2500	2670	3320

Surface area		m ²
Circuit volume		dm ³
airflow		m ³ /h
Fan 230 V/1/50-60 Hz 1,500 rpm	Air throw (3)	m
	Ø 300 mm	Nb
	230 V/1/50 Hz	W max
		A max (4)
Electric defrost MH > E1K optional MHE > standard *	Coil	Nb
	Drain pan	Nb
		W total
	230 V/1/50Hz	A total
	400 V/3/50Hz	A total
Connections HFCs	Inlet (5)	Ø ODF
	Outlet (5)	Ø ODF
Net weight		kg

250	310	370	450	510	630
6,7	9,0	10,1	13,5	13,6	18,1
1,7	2,2	2,5	3,3	3,4	4,5
2450	2290	3680	3430	4920	4590
17	17	17	17	17	17
2	2	3	3	4	4
234	234	351	351	468	468
1,54	1,54	2,31	2,31	3,08	3,08
2	2	2	2	2	2
1	1	1	1	1	1
1800	1800	2700	2700	3600	3600
7,83 *	7,83 *	11,7	11,7	15,7	15,7
-	-	3,9 *	3,9 *	5,2 *	5,2 *
D 1/2"	D 1/2"	D 1/2"	D 1/2"	D 5/8"	D 5/8"
5/8"	5/8"	3/4"	3/4"	7/8"	7/8"
34	35	46	48	54	57

(1) Standard conditions:

SC2 / 0 °C (air inlet temp.) / -8 °C (evaporating temp.) / DT1 = 8K

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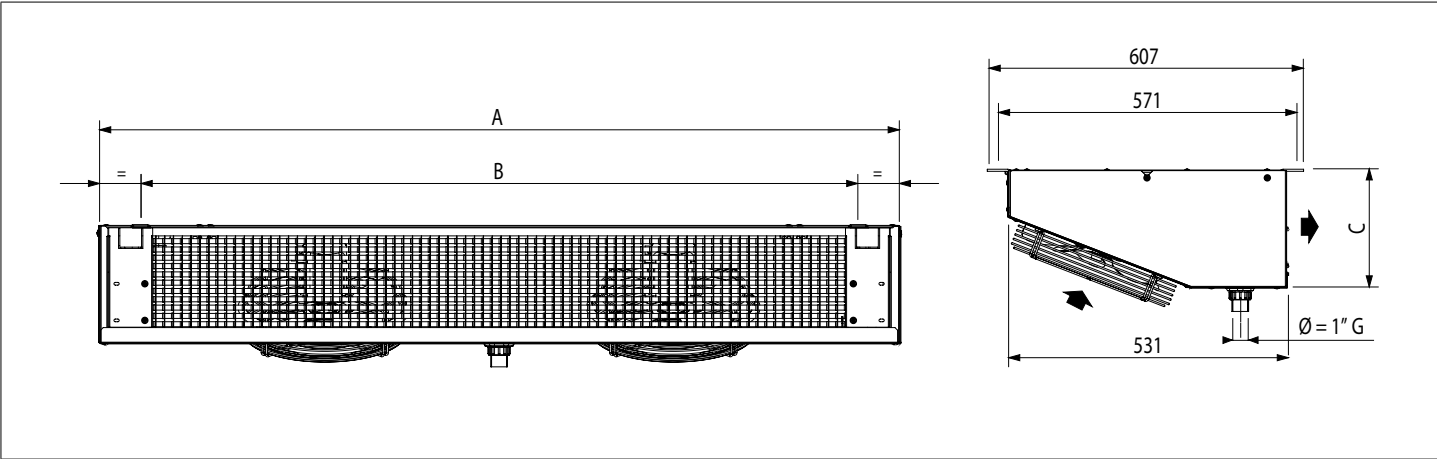
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(4) Adjustment of overload protection. For air temperatures "ti" other than +20 °C, multiply the intensities by the ratio 293/(273 + "ti") to obtain the approximate value of the intensity after the room has been brought up to temperature.

(5) ODF: female to receive the tube of the same diameter.

* Factory assembled (MHE)



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