

Condensing unit

Cooling only

Water cooled

Indoor installation

Capacity from 8,2 to 177 kW



The **MCH series of indoor water-cooled condensing units** are suited for **SPLIT SYSTEMS**, being designed for connection to split type airhandling units. They may be installed in combination with our terminal units in the **CED - CED-V** series.

The units from size 102 to size 242 may be **connected to two indoor units** always from the CED - CED-V series.

The reduced overall size allows their installation in restricted spaces. Every unit is factory tested and arrives on site ready for use.

functions and features



Cooling only



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Indoor installation

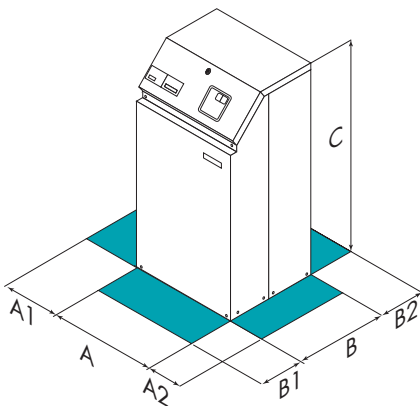


R-407C



Hermetic Scroll

dimensions and clearances



Size – MCH		21	25	31	51	71	91	101	121
A - Length	mm	402	402	402	402	402	402	402	402
B - Width	mm	487	487	487	602	602	602	602	602
C - Height	mm	790	790	790	790	790	915	915	915
A1	mm	300	300	300	300	300	300	300	300
A2	mm	300	300	300	300	300	300	300	300
B1	mm	500	500	500	500	500	500	500	500
B2	mm	300	300	300	300	300	300	300	300
Operating weight	kg	46	46	46	47	47	56	57	59

Size – MCH		102	142	182	202	242	292	322	362	422
A - Length	mm	802	802	802	802	802	580	580	580	580
B - Width	mm	602	602	602	602	602	1062	1062	1062	1062
C - Height	mm	790	790	915	915	915	1538	1538	1538	1538
A1	mm	300	300	300	300	300	300	300	300	300
A2	mm	300	300	300	300	300	300	300	300	300
B1	mm	500	500	500	500	500	500	500	500	500
B2	mm	300	300	300	300	300	300	300	300	300
Operating weight	kg	155	190	229	236	247	407	442	465	517

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Data Sheet.

CAUTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

versions and configurations

- ▶ **400T** Supply voltage 400/3/50 without neutral
- ▶ **230M** Supply voltage 230/1/50
- ▶ **230T** Supply voltage 230/3/50

accessories

- ▶ **PVSX** Water flow valve
- ▶ **IFW1X** 1" steel mesh filter on the water side (sizes 21÷121)
- ▶ **KCX** Connection set
- ▶ **IFW3X** 3" steel mesh filter on the water side (sizes 422)
- ▶ **IFW25X** 2 1/2" steel mesh filter on the water side (sizes 292÷362)
- ▶ **IFW2X** 2" steel mesh filter on the water side (sizes 102÷242)
- ▶ **CHDX** Hydraulic manifold kit form dual exchanger (sizes 102÷242)

Key to symbols:

- Accessories supplied separately.

technical data

Size – MCH			21	25	31	51	71	91	101	121
▶ Cooling capacity	(1)	kW	8,2	9,8	11,3	18,3	25,5	31,7	36,8	43,4
Compressor power input	(1)	kW	1,7	2	2,6	3,8	5	7,1	7,8	10,1
Refrigerant circuits		Nr	1	1	1	1	1	1	1	1
No. of Compressors		Nr	1	1	1	1	1	1	1	1
Type of compressors	(2)	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Water flow rate (Source Side)		l/s	0,24	0,28	0,33	0,52	0,72	0,92	1,06	1,27
Standard power supply		V	230/1/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Sound pressure level	(3)	dB(A)	49	49	49	50	50	59	60	62

Size – MCH			102	142	182	202	242	292	322	362	422
▶ Cooling capacity	(1)	kW	35,7	50,9	63,5	73,6	90,9	108,5	128,4	146,8	177,4
Compressor power input	(1)	kW	7,6	10,1	14,2	15,8	20,3	19,9	23,6	27,8	33,9
Refrigerant circuits		Nr	2	2	2	2	2	2	2	2	2
No. of Compressors		Nr	2	2	2	2	2	2	2	2	2
Type of compressors	(2)	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Water flow rate (Source Side)		l/s	1,03	1,45	1,85	2,13	2,65	3,1	3,63	4,17	5
Standard power supply		V	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Sound pressure level	(3)	dB(A)	53	53	62	63	65	66	65	66	66

- Note**
- (1) Data referred to the following conditions : Saturated suction temperature (SST) = 9.5 °C (Dew Point) External exchanger water = 25/35°C
- (2) SCROLL = scroll compressor
- (3) The sound levels are referred to units working at full load in nominal conditions. The sound pressure level is referred to a distance of 1 m. from the ducted unit surface working in free field conditions. External static pressure 50 Pa.

Data contained in this document are not binding and may be changed by the Manufacturer without notice.