

HPE XM 35÷570 MODULAR

Air / water Heat Pumps with axial fans



Technical and construction features

Units

HPE XM 35 Master

Equipped with 1 digital scroll compressor and 1 standard scroll compressor

HPE XM 70 Master

Equipped with 1 digital scroll compressor and 3 standard scroll compressors

HPE XM 70 Slave

Equipped with 4 standard scroll compressors

Hydro versions:

Heat pump unit including pump (pump head 150 kPa) and 8 l pressure vessel.

Modular units system.

It is possible to realise a large range of combinations till a max cooling output of 488 KW as follows:

- 1 x 28,5 kW Master
- 1 x 28,5 kW Master plus 7 x 61 kW Slave

In each combination one Master unit is required. The max cooling output allowed is 488 kW.

Choose the digital Scroll technology combined with new modular units design.

Differently from the traditional chillers often switching off/on, the new A2B chillers allow of fine and progressive output modulating by means of a proper combination of both digital and standard scroll compressors.

Electronic expansion valve for a precise output regulation.

The traditional chillers systems use thermostatic valves for regulation of outlet capacity.

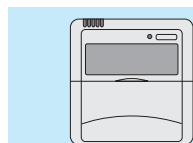
The electronic expansion valve also allows the system of faster and easier adjusting of the output based on the actual load.

MODELS	STANDARD VERSION Code	HYDRO VERSION Code	COOLING OUTPUT kW	HEATING OUTPUT kW	STANDARD VERSION	HYDRO VERSION
HPE XM 35 Master	38500801	38500802	28,50	35,00		
HPE XM 70 Master	38520801	38520802	61,00	71,00		
HPE XM 70 Slave	38530801	38530802	61,00	71,00		

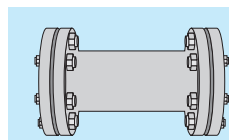
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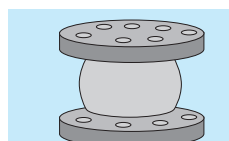
Accessories HPE XM 35÷570 MODULAR



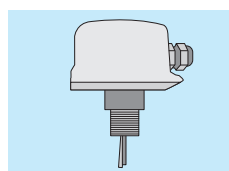
CR central control
with auto-restart + remote ON-OFF
(required accessory)
cod. 38500810 € 230,00



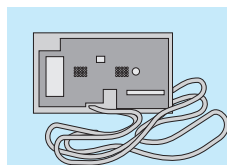
KT flanged iron sleeve
(400 mm) complete of 2 gaskets
cod. 38500812 € 550,00



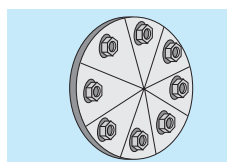
KA rubber coupling
+ 32 screws 14 x 60 mm
cod. 38500811 € 500,00



FL flow meter
cod. 38500814 € 124,00



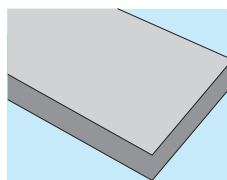
CC35 condensation control
for HPE XM 35 MASTER
cod. 38500817 € 620,00



CC70 condensation control
per HPE XM 70 MASTER/SLAVE
cod. 38500818 € 1.230,00



KF blind flange with gaskets
+ n. 16 screws 14 x 60 mm
cod. 38500813 € 210,00

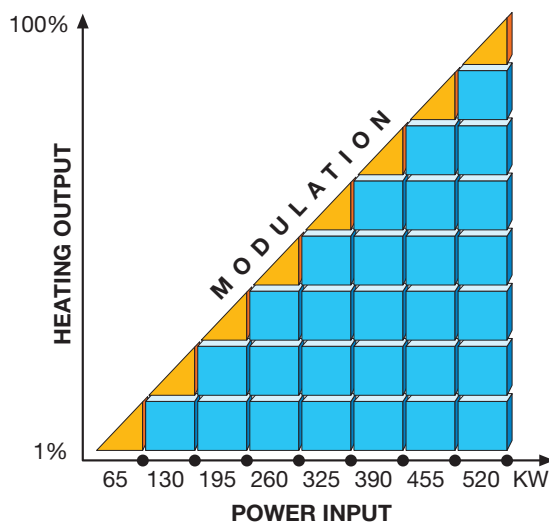
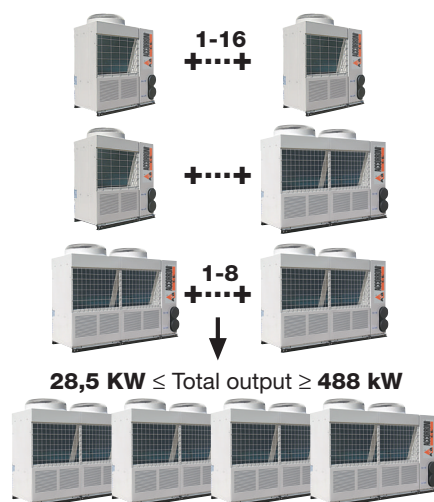


TS Controller Touch Screen
cod. 38500819 € 3.000,00

MA35 vibration absorber mat
for HPE XM 35
cod. 38500815 € 145,00

MA70 vibration absorber mat
for HPE XM 70
cod. 38500816 € 196,00

combinations HPE XM 35÷570 MODULAR



Possible combinations HPE XM 35÷570 MODULAR

Cooling Output	Heating Output	Possible Combinations	Accessories									
			CR	KA	KT	KF	FL	MA30	MA70	TS	CC35	CC70
28,5 kW	35 kW	35 M	1	1	-	1	1	1	-	1	1	-
61 kW	71 kW	70 M	1	1	-	1	1	-	1	1	-	1
89,5 kW	106 kW	35 M + 70 S	1	2	1	1	1	1	1	1	1	1
122 kW	142 kW	70 M + 70 S	1	2	1	1	1	-	2	1	-	2
150,5 kW	177 kW	35 M + 2 x 70 S	1	3	2	1	1	1	2	1	1	2
183 kW	213 kW	70 M + 2 x 70 S	1	3	2	1	1	-	3	1	-	3
211,5 kW	248 kW	35 M + 3 x 70 S	1	4	3	1	1	1	3	1	1	3
244 kW	284 kW	70 M + 3 x 70 S	1	4	3	1	1	-	4	1	-	4
272,5 kW	319 kW	35 M + 4 x 70 S	1	5	4	1	1	1	4	1	1	4
305 kW	355 kW	70 M + 4 x 70 S	1	5	4	1	1	-	5	1	-	5
333,5 kW	390 kW	35 M + 5 x 70 S	1	6	5	1	1	1	5	1	1	5
306 kW	426 kW	70 M + 5 x 70 S	1	6	5	1	1	-	6	1	-	6
394,5 kW	461 kW	35 M + 6 x 70 S	1	7	6	1	1	1	6	1	1	6
427 kW	497 kW	70 M + 6 x 70 S	1	7	6	1	1	-	7	1	-	7
455,5 kW	532 kW	35 M + 7 x 70 S	1	8	7	1	1	1	7	1	1	7
488 kW	568 kW	70 M + 7 x 70 S	1	8	7	1	1	-	8	1	-	8

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Technical datasheet heat pump HPE XM MODULAR 62÷140

DESCRIPTION	UM	35	70	105	145	180	215	250	285
35 M - 70 M - 70 S (*)		1+0+0	0+1+0	1+0+1	0+1+1	1+0+2	0+1+2	1+0+3	0+1+3
Cooling output (1)	kW	28,5	61,0	89,5	122	150,50	183	211,5	244
Power absorption (1)	kW	9,15	18,90	28,10	37,80	46,90	56,70	65,90	75,60
Heating output (2)	kW	35	71	106	142	177	213	248	284
Power absorption (2)	kW	9,5	19	28,5	38	47,5	57	66,5	76
Power supply		400,3	400,3	400,3	400,3	400,3	400,3	400,3	400,3
Absorbed current	A	14,4	29,7	44,1	59,4	73,8	89,1	103,5	118,8
Water flow rate	l/h	4.896	10.476	15.408	20.988	28.884	31.464	36.360	41.976
Water pressure drop	kPa	29,4							
Water pipes connection	mm	125							
Air flow rate	m³/h	12.000	24.000	36.000	48.000	60.000	72.000	84.000	96.000
Fan power absorption	kW	0,7 x 1	0,7 x 2	0,7 x 3	0,7 x 4	0,7 x 5	0,7 x 6	0,7 x 7	0,7 x 8
Sound level (3)	dB(A)	40	42	42	43	45	46	47	48
Dimensions*									
Large max	mm	1.514	2.492	2.492	2.492	2.492	2.492	2.492	2.492
Depth min	mm	850	850	2.300	2.300	3.750	3.750	5.200	5.200
Height	mm	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820
Transport weight	kg	440	700	1.140	1.400	1.840	2.100	2.540	2.800
Weight	kg	470	765	1.235	1.530	2.000	2.295	2.765	3.060

DESCRIPTION	UM	320	355	390	425	460	500	535	570
35 M - 70 M - 70 S (*)		1+0+4	0+1+4	1+0+5	0+1+5	1+0+6	0+1+6	1+0+7	0+1+7
Cooling output (1)	kW	272,5	305	333,5	366	394,5	427	455,5	488
Power absorption (1)	kW	84,70	94,50	103,60	113,40	122,50	132,30	141,40	151,20
Heating output (2)	kW	319	355	390	426	461	497	532	568
Power absorption (2)	kW	85,5	95	104,5	114	123,5	133	142,5	152
Power supply		400V/3+N/50Hz							
Absorbed current	A	133,2	148,5	162,9	178,2	192,6	207,9	222,3	237,6
Water flow rate	l/h	46.872	52.452	57.348	62.928	67.824	73.440	78.336	83.916
Water pressure drop	kPa	29,4	29,4	29,4	29,4	29,4	29,4	29,4	29,4
Water pipes connection	DN	125	125	125	125	125	125	125	125
Air flow rate	m³/h	108.000	120.000	132.000	144.000	156.000	168.000	180.000	192.000
Fan power absorption	kW	0,7 x 9	0,7 x 10	0,7 x 11	0,7 x 12	0,7 x 13	0,7 x 14	0,7 x 15	0,7 x 16
Sound level (3)	dB(A)	49	50			51			52
Dimensions*									
Large max	mm	2.492							
Depth min	mm	6.650	6.650	8.100	8.100	9.550	9.550	11.000	11.000
Height	mm	1.820							
Transport weight	kg	3.240	3.500	3.940	4.200	4.640	4.900	5.340	5.600
Weight	kg	3.530	3.825	4.295	4.590	5.060	5.355	5.825	6.120

(1) refrigerated water from 12 to 7 °C, outdoor temperature 35 °C.

(2) warm water from 40 to 45 °C, outdoor temperature 7 °C dry bulb/6 °C wet bulb

(3) Sound pressure level measured in free field at 10 m of distance from the unit (Q=2) according to ISO 3744

(*) For Accessories and combination refer the relative table