

RPE X - HPE X 58÷170

Water chillers and air / water heat pumps with axial fans



Technical and construction features

The RPE X - HPE X 58 ÷ 170 series are water chillers and air / water heat pumps with axial fans.

These models have the following technical characteristics:

- Compressors. Scroll, hermetic, with oil level warning light. They have built-in thermal protection and resistance carter, and are mounted on rubber anti-vibration mounts.
- Fans. Axial type directly coupled to motors three-phase with external rotor. A safety net is placed on the air outlet.
- Capacitor. Consisting of a finned coil with tubes in copper and aluminum fins.
- Evaporator. Of the brazed plate type in AISI stainless steel 316, with one circuit on the refrigerant side and one on the water side.
- The antifreeze heater is standard in the heat pump units. - Microprocessor control and regulation system.
- Hydraulic circuit includes: evaporator, working probe, probe antifreeze, water differential pressure switch and manual air bleed valves.
- Circulation pump (s), technical water storage, panel remote commands, Soft start can be chosen among the various accessories.
- **The STANDARD version and the SUPER SILENT version** they can be integrated with a water kit (storage tank and circulation pump) which is factory mounted inside the machine.



ECOLOGIC GAS



VERSION STANDARD



VERSION SUPER SILENCED



COMPRESSORS SCROLL



AXIAL FANS



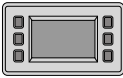
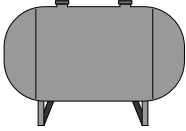
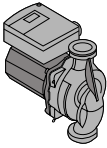
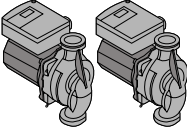
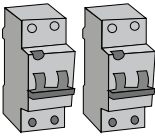


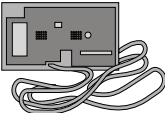
PLATE EXCHANGER

Model	Standard Code	Super silenced Code	Cooling power kW	Thermal power kW	Standard €	Super silenced €
RPE X 58 cooling	38604399	38604499	46,80	-	19.710,00	21.260,00
RPE X 62 cooling	38604400	38604500	54,20	-	21.330,00	23.190,00
RPE X 72 cooling	38605400	38605500	62,60	-	23.000,00	25.660,00
RPE X 80 cooling	38606400	38606500	72,00	-	24.180,00	26.910,00
RPE X 90 cooling	38607400	38607500	82,30	-	27.480,00	29.040,00
RPE X 105 cooling	38608400	38608500	95,10	-	33.130,00	34.580,00
RPE X 120 cooling	38609400	38609500	108,40	-	35.230,00	38.310,00
RPE X 135 cooling	38610400	38610500	124,90	-	37.390,00	39.940,00
RPE X 155 cooling	38611400	38611500	144,50	-	44.080,00	48.620,00
RPE X 170 cooling	38611402	-	174,90	-	49.230,00	-
HPE X 58 heat pump	38604398	38604498	46,80	52,10	22.360,00	24.340,00
HPE X 62 heat pump	38604401	38604501	54,20	59,60	24.230,00	26.330,00
HPE X 72 heat pump	38605401	38605501	62,60	68,70	26.840,00	29.520,00
HPE X 80 heat pump	38606401	38606501	72,00	77,30	28.590,00	31.180,00
HPE X 90 heat pump	38607401	38607501	82,30	87,00	32.360,00	34.950,00
HPE X 105 heat pump	38608401	38608501	95,10	101,30	38.940,00	40.830,00
HPE X 120 heat pump	38609401	38609501	108,40	115,30	40.710,00	42.880,00
HPE X 135 heat pump	38610401	38610501	124,90	131,00	43.160,00	47.780,00
HPE X 155 heat pump	38611401	38611501	144,50	149,90	50.900,00	55.740,00
HPE X 170 heat pump	38611403	-	174,90	179,80	57.560,00	-

RPE X - HPE X 58÷170



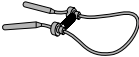





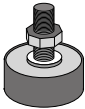
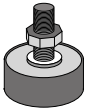
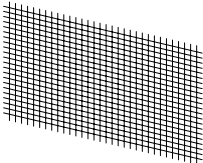
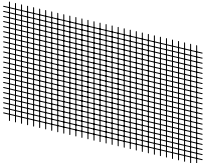
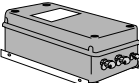


Water chillers and air / water heat pumps with axial fans

Accessories RPE X - HPE X 58÷170

		Code	€
	Remote control	38600428	370,00
	400 liter storage tank 12 liter expansion vessel	mod. 58÷135 38600430	2.780,00
	Accumulation tank 600 liters Expansion vessel 18 liters	mod. 155÷170 38600431	3.210,00
		mod. 58÷80 38600432	1.830,00
		mod. 90 38600433	1.900,00
		mod. 105÷155 38600434	1.940,00
		mod. 170 38600473	2.080,00
		mod. 58÷80 38600441	3.290,00
		mod. 90 38600442	3.440,00
		mod. 105÷170 38600443	3.530,00
		mod. 58÷62 38600464	660,00
		mod. 72÷80 38600465	970,00
		mod. 90 38600466	1.030,00
		mod. 105÷120 38600467	1.070,00
		mod. 135 38600468	1.290,00
		mod. 155 38600469	1.410,00
		mod. 170 38600470	1.750,00
		mod. 58 38600444	5.340,00
		mod. 62 38600445	5.580,00
		mod. 72 38600446	5.830,00
		mod. 80 38600447	6.070,00
		mod. 90 38600448	6.500,00
		mod. 105 38600449	7.070,00
		mod. 120 38600450	7.650,00
		mod. 135 38600451	8.300,00
		mod. 155 38600452	10.790,00
		mod. 170 38604453	11.620,00
		mod. 58÷62 38600454	2.090,00
		mod. 72 38600455	2.200,00
		mod. 80 38600456	2.380,00
		mod. 90 38600457	2.500,00
		mod. 105÷120 38600458	2.950,00
		mod. 135 38600459	3.260,00
		mod. 155 38600460	4.620,00
	mod. 170 38600461	4.850,00	
		mod. 58÷90 38600471	3.630,00
		mod. 105-135 38600476	4.000,00
		mod. 155-170 38600477	5.550,00

RPE X - HPE X 58÷170

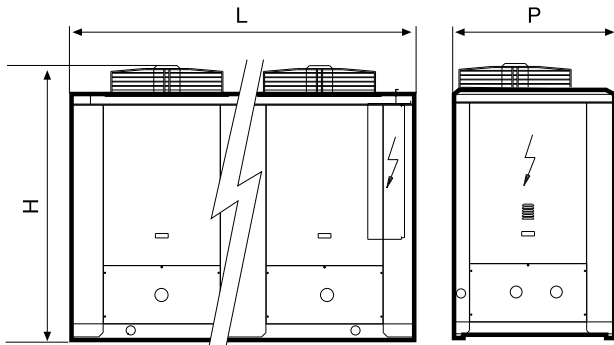
Water chillers and air / water heat pumps with axial fans

Accessories RPE X - HPE X 58÷170			Code	€
	Refrigerant circuit tap on delivery	mod. 58÷135	38600480	380,00
		mod. 155÷170	38600516	770,00
	Liquid line refrigerant circuit tap	mod. 58÷135	38600517	380,00
		mod. 155÷170	38600518	720,00
	Evaporator antifreeze heater		38600522	500,00
	Tank antifreeze heater		38600523	1.210,00
	Coil with pre-painted fins	mod. 58÷80	38600519	1.440,00
		mod. 90-135	38600520	1.950,00
		mod. 155-170	38600521	2.740,00
	High prevalence fan		38600531	2.540,00
	Soft start	mod. 58÷62	38600524	2.040,00
		mod. 72÷80	38600525	2.320,00
		mod. 90	38600526	2.500,00
		mod. 105÷120	38600527	3.470,00
		mod. 135	38600528	3.750,00
		mod. 155	38600529	4.630,00
	Compressor acoustic insulation only for BASIC version	mod. 58÷80	38600416	590,00
		mod. 90	38600417	690,00
		mod. 105÷120	38600418	920,00
		mod. 135	38600419	1.020,00
		mod. 155	38600420	1.090,00
		mod. 170	38600472	1.420,00
	Rubber anti-vibration mounts BASE version	mod. 58÷90	38600421	430,00
		mod. 105÷135	38600422	540,00
		mod. 155÷170	38600423	950,00
	Rubber anti-vibration mounts SILENT version	mod. 58÷90	38600424	430,00
		mod. 105÷135	38600425	530,00
		mod. 155÷170	38600426	950,00
	BASE version heat exchanger protection net	mod. 58÷80	38600435	420,00
		mod. 90÷135	38600436	480,00
		mod. 155÷170	38600437	700,00
	SUPER SILENT version heat exchanger protection grid	mod. 58÷80	38600438	420,00
		mod. 90÷105	38600439	480,00
		mod. 120÷155	38600440	700,00
	Condensation control	mod. -20 °C	38600427	2.210,00
		mod. 58÷62 0 °C	38600475	990,00
		mod. 72÷155 0 °C	38600478	360,00
		mod. 170 0 °C	38600479	550,00
	High / low pressure gauges	mod. 58÷135	35600462	240,00
mod. 155÷170		35600463	480,00	
	Serial interface RS 485		38600429	360,00

RPE X - HPE X 58÷170

Water chillers and air / water heat pumps with axial fans

Dimensions RPE X - HPE X 58÷170



RPE X - HPE X	58	62	72	80	90
Base	2350	2350	2350	2350	2350
L Supersilenced	2350	2350	2350	2350	2350
P	1100	1100	1100	1100	1100
H	1920	1920	1920	1920	2220

RPE X - HPE X	105	120	135	155	170
Base	2350	2350	2350	3550	3550
L Supersilenced	2350	3550	3550	3550	-
P	1100	1100	1100	1100	1100
H	2220	2220	2220	2220	2220

Values in mm

Technical data table for chillers and heat pumps RPE X - HPE X 58÷90

DESCRIPTION	U.M.	58	62	72	80	90
Cooling power ⁽¹⁾	kW	46,8	54,2	62,6	72,0	82,3
Absorbed power ⁽¹⁾	kW	16,3	19,0	22,1	25,3	28,6
Cooling power ^(1A)	kW	46,6	54,4	62,2	71,3	81,7
Absorbed power ^(1A)	kW	16,6	19,4	22,25	25,7	29,1
EER ^(1A)	W/W	2,80 - C	2,80 - C	2,76 - C	2,77 - C	2,81 - C
Heating power ⁽²⁾	kW	52,1	59,6	68,7	77,3	87,0
Absorbed power ⁽²⁾	kW	17,4	19,7	23,3	25,6	29,0
Heating power ^(2A)	kW	53,3	60,9	70,3	79,1	89,0
Absorbed power ^(2A)	kW	17,5	19,8	23,4	25,7	29,1
COP ^(2A)	W/W	3,05 - B	3,07 - B	3,01 - B	3,08 - B	3,06 - B
Compressors	n.	2				
Refrigeration circuits	n.	1				
Partialization steps	n.	2				
Water flow	l/s	2,20	2,60	3,00	3,40	3,90
Load losses	kPa	45	48	43	48	43
Hydraulic connections		1" 1/2				

TECHNICAL FEATURES OF THE STANDARD VERSION FANS

Fans	n.	1		2		
Air flow	m ³ /s	4,8	4,7	7,1		7,3
Absorbed power	kW	1,3		2,0		

TECHNICAL FEATURES FANS SUPER SILENT VERSION

Fans	n.	2				
Air flow	m ³ /s	4,1	3,9	5,7		6,0
Absorbed power	kW	0,6		1,5		

Power supply		400V/3+N/50Hz				
Max operating current	A	40	43	52	56	65
Max starting current	A	163	165	175	188	232
Sound pressure (vers. STANDARD) ⁽³⁾	dB(A)	56,5		60,5		
Sound pressure (vers. STANDARD/SUPERSILENCED) ⁽³⁾	dB(A)	54,5		58,5		
Sound pressure (vers. SUPERSILENCED) ⁽³⁾	dB(A)	52,5		56,5		
Pump power	kW	0,75				1.10
Useful head	kPa	120	110		140	
Expansion vessel	l	12				
Hydraulic connections		2" 1/2				
Shipping weight	Kg	595	624	663	682	791
Operating weight	Kg	600	630	670	690	800

(1) Chilled water from 12 to 7 °C, external air temperature 35 °C

(1A) Chilled water from 12 to 7 °C, external air temperature 35 °C - EN14511

(2) Water heated from 40 to 45 °C, external air temperature 7 °C d.b. / 6 °C w.b.

(2A) Water heated from 40 to 45 °C, external air temperature 7 °C d.b. / 6 °C w.b. - EN14511

(3) Average sound pressure level measured in free field at 1 m from the unit (Q = 2) according to ISO

3744 (4) Unit without tank and pump

RPE X - HPE X 58÷170

Water chillers and air / water heat pumps with axial fans

Technical data table for chillers and heat pumps RPE X - HPE X 105÷170

DESCRIPTION	U.M.	105	120	135	155	170
Cooling power ⁽¹⁾	kW	95,1	108,4	124,9	144,5	174,9
Absorbed power ⁽¹⁾	kW	31,6	38,4	43,9	50,7	58,7
Potenza frigorifera ^(1A)	kW	94,3	108,15	124,2	144,5	174,3
Absorbed power ^(1A)	kW	32,5	39,0	44,5	51,6	59,9
EER ^(1A)	W/W	2,9 - B	2,77 - C	2,79 - C	2,85 - C	2,91 - B
Heating power ⁽²⁾	kW	101,3	115,5	131,0	149,9	179,8
Absorbed power ⁽²⁾	kW	33,6	38,8	44,3	50,7	60,8
Heating power ^(2A)	kW	104,0	118,4	133,5	152,8	184,3
Absorbed power ^(2A)	kW	33,7	38,9	44,4	50,8	61,0
COP ^(2A)	W/W	3,08 - B	3,04 - B	3,01 - B	3,01 - B	3,02 - B
Compressors	n.	3			4	
Refrigeration circuits	n.	1			2	
Partialization steps	n.	3			4	
Water flow	l/s	4,5	5,2	6,0	6,9	8,4
Load losses	kPa	58	46	53	48	
Hydraulic connections		2" 1/2				

TECHNICAL FEATURES OF THE STANDARD VERSION FANS

Fans	n.	2			3	
Air flow	m ³ /s	7,1	9,7		11,4	15,0
Absorbed power	kW	2,0	4,0			5,6

TECHNICAL FEATURES FANS SUPER SILENT VERSION

Fans	n.	2			3	-
Air flow	m ³ /s	7,7	9,2	8,9	11,8	-
Absorbed power	kW	2,5			3,8	-

Power supply		400V/3+N/50Hz				
Max operating current	A	75	85	103	111	133
Max starting current	A	199	218	265	243	300
Sound pressure (vers. STANDARD) ⁽³⁾	dB(A)	60,5	61,5			
Sound pressure (vers. STANDARD/SUPERSILENCED) ⁽³⁾	dB(A)	58,5	59,5			
Sound pressure (vers. SUPERSILENCED) ⁽³⁾	dB(A)	55,5 1,50		56,5		-
Pump power	kW	1,85				
Useful head	kPa	150	140	120	110	100
Expansion vessel	l	12			18	
Hydraulic connections		2" 1/2				
Shipping weight ⁽⁴⁾	Kg	878	927	1036	1135	1374
Operating weight ⁽⁴⁾	Kg	890	940	1050	1150	1390

(1) Chilled water from 12 to 7 °C, external air temperature 35 °C
 (1A) Chilled water from 12 to 7 °C, external air temperature 35 °C - EN14511
 (2) Water heated from 40 to 45 °C, external air temperature 7 °C d.b. / 6 °C wb.
 (2A) Water heated from 40 to 45 °C, external air temperature 7 °C d.b. / 6 °C wb. - EN14511
 (3) Average sound pressure level measured in free field at 1 m from the unit (Q = 2) according to ISO 3744 (4) Unit without tank and pump