

RPE X - HPE X 195÷300

Water chillers and air / water heat pumps with axial fans



Technical and construction features

The new multi-compressor chiller range, thanks to the capacity control with management from 6 to 10 steps, does not require the use of the storage tank.

The management software operates the number of compressors required according to the system's request, alternating them cyclically with each other in order to ensure an equal number of hours of operation.

VERSIONS:

RPE cooling only

Super silenced cooling only RPE

HPE reversible heat pump

HPE super silenced reversible heat pump

- Compressors. Scroll, hermetic, with oil level warning light.

They are equipped with built-in thermal protection and crankcase heater, where provided by the manufacturer, and are mounted on rubber anti-vibration mounts.

- Axial type fans directly coupled to motors three-phase with external rotor.

- Condenser consisting of two finned coils with tubes in copper and aluminum fins.

- Brazed plate evaporator in AISI 316 stainless steel.

- Microprocessor control and regulation system.

- Basic version hydraulic circuit, includes: evaporator, work, antifreeze probe, water differential pressure switch and valve manual air vent.

The antifreeze heater is standard in the heat pump units.



ECOLOGIC GAS



AXIAL FANS



VERSION STANDARD



VERSION SUPER SILENCED



PLATE EXCHANGER



COMPRESSORS SCROLL

Model	Cooling power kW	Heating power kW	Code	€
RPE X 195 cooling standard	200,2	-	38611405	62.950,00
RPE X 220 cooling standard	227,9	-	38611406	64.100,00
RPE X 250 cooling standard	242,2	-	38611407	65.780,00
RPE X 270 cooling standard	278,8	-	38611408	75.480,00
RPE X 300 cooling standard	303,5	-	38611409	82.360,00
RPE X 195 cooling super silenced	200,2	-	38611502	72.450,00
RPE X 220 cooling super silenced	227,9	-	38611503	73.780,00
RPE X 250 cooling super silenced	242,2	-	38611504	75.410,00
RPE X 270 cooling super silenced	278,8	-	38611505	84.440,00
RPE X 300 cooling super silenced	303,5	-	38611506	95.170,00
HPE X 195 heat pump standard	200,2	224,8	38611415	77.050,00
HPE X 220 heat pump standard	227,9	253,1	38611416	78.890,00
HPE X 250 heat pump standard	242,2	278,8	38611417	82.300,00
HPE X 270 heat pump standard	278,8	308,8	38611418	92.370,00
HPE X 300 heat pump standard	303,5	323,6	38611419	101.560,00
HPE X 195 heat pump super silenced	200,2	224,8	38611512	88.780,00
HPE X 220 heat pump super silenced	227,9	253,1	38611513	90.660,00
HPE X 250 heat pump super silenced	242,2	278,8	38611514	94.330,00
HPE X 270 heat pump super silenced	278,8	308,8	38611515	103.330,00
HPE X 300 heat pump super silenced	303,5	323,6	38611516	117.370,00

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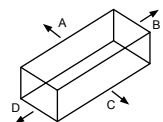
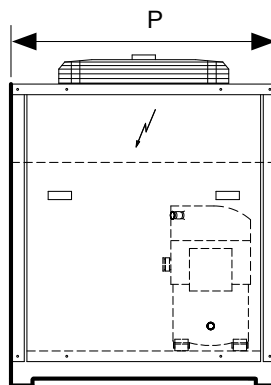
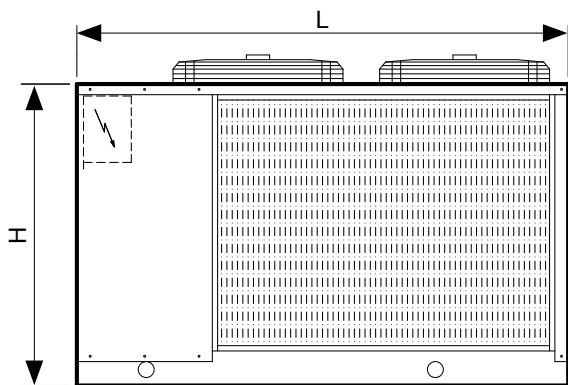
Factory fitted accessories RPE X - HPE X 195÷300

	Code	€	
Storage tank liters 400	38611517	7.372,00	
Magnetothermic switches	38600481	2.310,00	
Drive mute	38600482	1.251,00	
Condensation control up to 0 ° C	38600483	482,00	
Condensation control down to -20 ° C	38600484	1.841,00	
Device for operation with low water temperature	38600485	4.495,00	
Desuperheater	38600486	3.637,00	
Total heat recovery	38600487	11.286,00	
Circulation pump	38600489	3.320,00	
Double circulation pump	38600490	7.428,00	
Serial interface RS 485	38600493	911,00	
Refrigerant circuit tap on delivery	38600505	740,00	
Liquid line refrigerant circuit tap	38600506	740,00	
Fans EC Inverter	38600507	22.940,00	
Coil with pre-painted fins	38600508	10.700,00	
	mod. 195÷220	38600509	19.020,00
Soft start	mod. 250	38600510	19.550,00
	mod. 270	38600511	20.570,00

Accessories supplied separately RPE X - HPE X 195÷300

High / low pressure gauges	38600491	455,00
Remote control panel	38600492	993,00
Rubinetto circuito frigorifero in mandata	38600512	1.050,00
Ventilatori EC Inverter	38600513	22.940,00
Batteria con alette preverniciate	38600514	15.040,00
Reti protezione batterie	38600494	924,00
Antivibranti in gomma	38600495	1.175,00
Soft start	38600515	25.370,00

Dimensions RPE X - HPE X 195÷300



Minimum distances

A	500
B	1800
C	1000
D	1800

Values in mm

	RPE X - HPE X	RPE X - HPE 195	RPE X - HPE 220	RPE X - HPE 250	RPE X - HPE 270	RPE X - HPE 300
L	Standard	2800	2800	2800	2800	4000
L	Super Silenced	2800	2800	2800	2800	4000
P	Standard	2200	2200	2200	2200	2200
P	Super Silenced	2200	2200	2200	2200	2200
H	Standard	2100	2100	2100	2100	2100
H	Super Silenced	2100	2100	2100	2100	2100

Values in mm

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Technical data table RPE X - HPE X 195÷300

DESCRIPTION	U.M.	195	220	250	270	300
Cooling power ⁽¹⁾	kW	202,2	227,9	242,2	278,0	305,5
Absorbed power ⁽¹⁾	kW	71,4	8,03	89,0	98,3	108,4
Cooling power ^(1A)	kW	195,2	221,6	245,9	270,6	290,0
Absorbed power ^(1A)	kW	70,7	81,8	87,5	96,3	100,0
EER ^(1A)	W/W	2,76 - C	2,71 - C	2,81 - C	2,81 - C	2,90 - B
Heating power ⁽²⁾	kW	224,8	253,1	278,8	308,8	323,6
Absorbed power ⁽²⁾	kW	73,5	84,2	91,1	103,1	109,0
Heating power ^(2A)	kW	224,7	252,5	278,8	309,2	333,0
Absorbed power ^(2A)	kW	73,9	84,2	91,1	103,0	109,2
COP ^(2A)	W/W	3,04 - B	3,00 - B	3,06 - B	3,00 - B	3,05 - B
Compressors	n.	3+3	3+3	3+3	3+3	4+4
Refrigeration circuits	n.	2	2	2	2	2
Partialization steps	n.	6	6	6	6	8
Water flow	l/s	9,4	10,7	11,8	13,0	14,3
Load losses	kPa	40	51	62	54	50
Hydraulic connections		3"	3"	3"	3"	3"

TECHNICAL FEATURES OF THE STANDARD VERSION FANS

Fans	n.	4	4	4	4	4
Air flow	m ³ /s	20,5	20,5	20,5	19,4	22,5
Absorbed power	kW	8	8	8	8	8

TECHNICAL FEATURES FANS SUPER SILENT VERSION

Fans	n.	4	4	4	4	6
Air flow	m ³ /s	15,3	15,3	15,3	15,3	25,0
Absorbed power	kW	5,1	5,1	5,1	7,6	7,6

		400V/3+N/50Hz				
Power supply						
Max operating current	A	158	172	182	203	224
Max starting current	A	182	304	311	332	356
Sound pressure (vers. STANDARD) ⁽³⁾	dB(A)	66,5	66,5	67,5	69,5	67,5
Sound pressure (vers. STANDARD/SUPERSILENCED) ⁽³⁾	dB(A)	63,5	63,5	64,5	66,5	64,5
Sound pressure (vers. SUPERSILENCED) ⁽³⁾	dB(A)	57,5	57,5	59,5	61,5	58,5
Pump power	kW	3	3	4	4	5,5
Useful head	kPa	199	167	228	215	237
Expansion vessel	l	18	18	18	18	18
Hydraulic connections		4"	4"	4"	4"	4"
Shipping weight	Kg	1654	1674	1763	1961	2199
Operating weight	Kg	1690	1690	1780	1980	2220

(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

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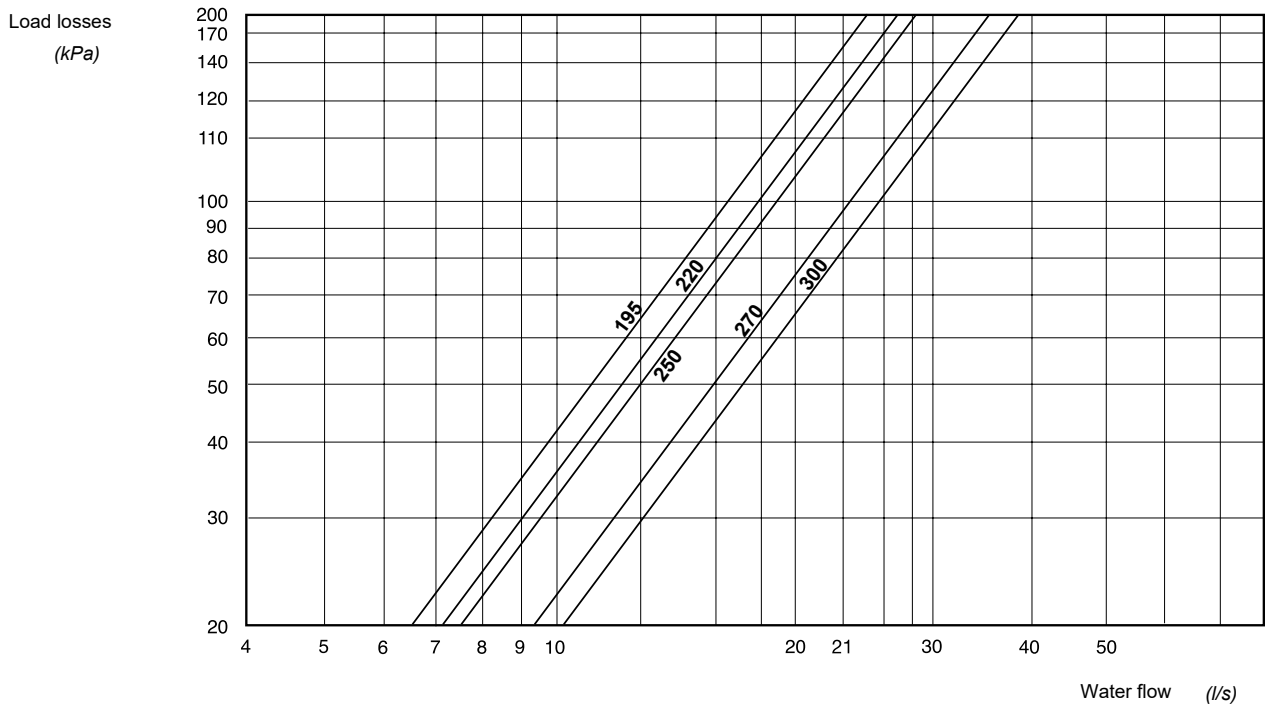
Operating limits RPE X - HPE X 195÷300

DESCRIPTION	U.M.	Cooling		Heating	
		min	max	min	max
Inlet water temperature	°C	8	20	25	45
Outlet water temperature	°C	5**	15	30	50
Water temperature jump	°C	3	9	3	10
Outside air temperature	°C	10*	46	-10	20
Minimum chilled water temperature with the use of glycol	°C	- 8**		-	
Max operating pressure		1000			
Exchanger water side	kPa	1000			

* It can be brought to - 20 ° C with the condensation control accessory

** For temperatures below 5 ° C, the accessory is required (device for operation with low water temperature)

Circuit pressure drops RPE X - HPE X 195÷300



Evaporator water flow limits RPE X - HPE X 195÷300

Model	U.M.	195	220	250	270	300
Min. flow	l/s	5,8	6,5	6,8	7,7	8,6
Max flow	l/s	35				