

> RXA

AIR-WATER CHILLERS AND HEAT PUMPS FOR OUTDOOR INSTALLATION



Available range

Unit type

IR	Chiller
IP	Heat pump (reversible on the refrigerant side)

Versions

VB	Base Version
VP	Pump version
VA	Tank version

Acoustic setting up

AB	Base setting up
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Unit description

This series of air-water chillers and heat pumps satisfies the cooling and heating requirements of residential plants of small and medium size.

All the units are suitable for outdoor installation and can be applied to fan coil plants, radiant floor plants and high efficiency radiators plants.

The refrigerant circuit, contained in a compartment protected from the air flow to simplify the maintenance operations, is equipped with rotary or scroll compressor (according to the model) mounted on damper supports, brazed plate heat exchanger, thermostatic expansion valve, reverse cycle valve, axial fans

with safety protection grilles, finned coil made of copper pipes and aluminium louvered fins. The circuit is protected by high and low pressure switches and differential pressure switch on the plate heat exchanger.

The plate heat exchanger and all the hydraulic pipes are thermally insulated in order to avoid condensate generation and to reduce thermal losses.

All the units are equipped with variable speed fans control that allows the units to operate with low outdoor temperatures in cooling and high outdoor temperature in heating and permits to reduce noise emissions in such operating conditions.

All the units are supplied with an outdoor temperature sensor, already installed on the unit, in order to realize the climatic control.

All three-phase power supply units are provided with a phase presence and correct sequence controller device.

All the units are accurately built and individually tested in the factory. Only electric and hydraulic connections are required for installation.

Options

Storing and pumping module

- not present (VB - base version)
- standard, high head or modulating pump (VP - pump version)
- tank and standard, high head or modulating pump (VA - tank version)

Integrative electrical heaters

- standard in the flow (only VB and VP versions)
- standard in the tank (only VA version)
- upsized in the tank (only VA version)

Compressor starting

- standard (contactors)
- soft starter

Accessories

Rubber vibration dampers

Coil protection grille

Tank antifreeze electrical heater

Remote control

Modbus serial interface on RS485

Programmer clock

Phase sequence and voltage controller

NOMINAL performances - Standard plants

IR	Base acoustic setting up (AB)	6.1	7.1	9.1	11.1	14.1	17.1	
A35W7	Cooling capacity	6,24	7,24	9,12	10,6	14,1	16,7	kW
	Power input	2,31	2,81	3,52	4,16	5,25	6,49	kW
	EER	2,70	2,58	2,59	2,55	2,69	2,57	-
	Water flow rate	1074	1246	1573	1836	2437	2883	l/h
	Pressure drops	17	21	31	40	43	39	kPa
	Available static head (standard pump)	54	49	36	24	72	46	kPa
IP	Base acoustic setting up (AB)	6.1	7.1	9.1	11.1	14.1	17.1	
A35W7	Cooling capacity	6,12	7,10	8,95	10,4	13,8	16,4	kW
	Power input	2,31	2,81	3,51	4,15	5,24	6,49	kW
	EER	2,65	2,53	2,55	2,51	2,63	2,53	-
	Water flow rate	1054	1222	1543	1802	2385	2831	l/h
	Pressure drops	16	20	30	39	42	38	kPa
	Available static head (standard pump)	55	49	37	26	77	51	kPa
A7W45	Heating capacity	6,78	7,87	9,95	11,7	15,4	18,2	kW
	Power input	2,22	2,71	3,38	4,01	5,06	6,25	kW
	COP	3,05	2,90	2,94	2,92	3,04	2,91	-
	Water flow rate	1154	1339	1690	1981	2612	3090	l/h
	Pressure drops	18	24	35	45	48	43	kPa
	Available static head (standard pump)	52	46	31	17	57	25	kPa

Data declared according to EN 14511. The values are referred to units without options and accessories.

NOMINAL performances - Standard plants - EUROVENT certified data

IR	Base acoustic setting up (AB)	6.1	7.1	9.1	11.1	14.1	17.1	
A35W7	Cooling capacity	6,23	7,45	9,44	10,9	13,9	17,4	kW
	Power input	2,12	2,80	3,66	4,08	5,05	6,54	kW
	EER	2,94	2,66	2,58	2,67	2,75	2,66	-
	ESEER	3,33	3,01	2,92	3,02	3,11	3,01	-
	Pressure drops	28	39	26	34	41	36	kPa
IP	Base acoustic setting up (AB)	6.1	7.1	9.1	11.1	14.1	17.1	
A35W7	Cooling capacity	6,02	7,14	9,24	10,7	13,7	17,2	kW
	Power input	2,13	2,81	3,67	4,08	5,06	6,54	kW
	EER	2,83	2,54	2,52	2,62	2,71	2,63	-
	ESEER	3,21	2,88	2,85	2,97	3,07	2,98	-
	Pressure drops	26	36	25	33	40	35	kPa
A7W45	Heating capacity	6,96	8,14	10,3	11,4	15,2	18,5	kW
	Power input	2,21	2,69	3,60	3,99	4,83	6,27	kW
	COP	3,15	3,03	2,86	2,86	3,15	2,95	-
	Pressure drops	34	45	31	37	48	40	kPa

A35W7 = source : air in 35°C d.b. / plant : water in 12°C out 7°C
 A35W18 = source : air in 35°C d.b. / plant : water in 23°C out 18°C
 A7W45 = source : air in 7°C d.b. 6°C w.b. / plant : water in 40°C out 45°C
 A7W35 = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C

