



Heat pumps only for hot water production systems, up to  $65^{\circ}$ C, and domestic hot water up to  $50^{\circ}$ C Heating capacity from 10 up to 18 kW

°,2(4 \( 0 )7





## STANDARD VERSION

# VERSION EQUIPPED WITH CIRCULATION PUMP VERSION EQUIPPED WITH OVERSIZED PUMP HOT WATER PRODUCTION FOR SYSTEM, UP TO 65 °C PRIORITY DIRECTED TO DOMESTIC HOT WATER (A.C.S.) UP TO 50 °C

### **Features**

SRA is a line of heat pumps with air-cooled condensing units that use the refrigerant R470C. They heat water up to  $65^{\circ}$ C and can operate down to  $-15^{\circ}$ C, with prioritized production of domestic hot water. These are external units with hermetic Scroll compressors that perfectly meet the needs of the residential and services markets: reduced dimensions, easy installation, and quiet.

### High energy efficiency

SRA heat pumps were designed to offer high efficiency in all use conditions. Particular care was taken with the heat pump performance. The components chosen provide high energy efficiency, with a notable decrease in consumption.

### Performance down to -15 °C

SRA heat pumps were designed with a focus on winter performance. Next generation regulation guarantees that the heat pump will function well beyond the normal limits of traditional units.

# As a option is possible installation integrated resistance

SRA heat pumps can be integrated with resistance directly managed by the unit's electronics. Resistance activation depends on external air temperature and the temperature of the water in the system, making it possible to constantly

maintain water temperature at the perfect level.

### Dynamic set point

SRA heat pumps come with an external air temperature sensor. Based on the external conditions, the regulator automatically modifies the system's water temperature set point, improving energy efficiency for the system.

### Priority directed to domestic hot water (A.C.S.)

The unit guarantees production of domestic hot water up to 50 °C, as long as the appropriate domestic hot water storage (ACCESSORY) is included, and the guarantee is valid for both summer and winter.

### Advantages

The technological choices made, always focused on maximum quality and the use of the most innovative technology, mean that SRA offers high efficiency, easy installation, and a wide range of usage options.

- Available in three sizes
- SRA°: Heat pump with production of domestic hot water. Available with three-phase or single-phase power supply. The single-phase version comes with soft-start installed.
- SRA P: Heat pump with production of domestic hot water. Available with three-phase or single-phase power supply and integrated

ON-OFF pump. (A heavy duty pump is also available "N".)

### **Technical Features**

- High output scroll compressor and low electricity consumption
- Differential pressure switch
- Conforms to CE safety directives and to electromagnetic compatibility norms. Device safety is guaranteed by the disconnecting switch door lock found on the power supply electrical panel, which is integrated in the unit, as well as by active protection on the main components
- Controls are accessible externally, with a user interface display that shows all performance parameters in four languages
- Next generation regulation
- Easy to use remote control panel with alarms included

### Accessories

- VT: Anti-vibration supports, a group of four antivibrating supports to be placed under the sheet steel foundation of the unit.
- DHW: Management kit with the components necessary for production of domestic hot water (anti-legionella cycle included).
- S...S: Domestic hot water storage, available in 300, 400, and 500 litres (S300S, S400S, and S500S).
- S...I: System storage; available in 200, 300, 400, and 500 litres (S200I, S300I, S400I, and S500I)
- **RXS**: Domestic hot water storage resistance; available in 3kW single phase (RXS3M), or in 3 6 8 kW three phase (RXS3T, RXS6T, RXS8T).
- MODU-485A: RS-485 interface for supervision

systems with MODBUS protocol.

 AERWEB300: Accessory AERWEB allows remote control of a chiller through a common PC and an ethernet connection over a common browser; 4 versions available:

AERWEB300-6: Web server to monitor and remote control max. 6 units in RS485 network;

AERWEB300-18: Web server to monitor and remote control max. 18 units in RS485 network; AERWEB300-6G: Web server to monitor and remote control max. 6 units in RS485 network with integrated GPRS modem;

**AERWEB300-18G:** Web server to monitor and remote control max. 18 units in RS485 network with integrated GPRS modem;

- **PR3**: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.
- Compatibility with the VMF system

VMF-CRP VMF-VOC VMF-ACS VMF-E5B|N For more information refer to the documentation dedicated.

### Accessory compatibility

Mod. SRA	10M	10T	14M	14T	19T					
VT	15	15	15	15	15	_				
MODU-485A	~	~	~	~	~	-	PATIBILITY I		DOMESTI	СПОТ
AERWEB300	~	~	~	~	~		R STORAGE			
PR3	~	~	~	~	~			STANCE (F		
\$300\$	~	~	~	~			RXS3M	RXS3T	RXS6T	RXS8T
\$400\$ - \$500\$	~	~	~	~	~	\$300S	~	~	~	
S2001 - S3001 - S4001 -S5001	V	~	~	~	~	S400S	~		~	~
						\$500S	~		~	~

### Unit selection

By judiciously combining the numerous options available, each model can be configured in a way that satisfies the most specific system needs.

Configuration rules:



## **Technical data**

Mod. SRA				10M	10T	14M	14T	19T
	0	230V/1	kW	10,03	-	14,00	-	-
	, i i i i i i i i i i i i i i i i i i i	400V/3N	kW	-	10,10	-	14,10	18,34
Heating capacity	Р	230/1	kW	9,9	-	13,8	-	-
	P	400V/3N	kW	-	10,08	-	13,9	18,15
	0	230/1	kW	2,52	-	3,69	-	-
		400V/3N	kW	-	2,29	-	3,57	4,70
Fotal power input	Р	230/1	kW	2,61	-	3,74	-	-
	r	400V/3N	kW	-	2,41	-	3,62	4,52
	0	230/1	А	13,1	-	21,0	-	-
		400V/3N	А	-	4,6	-	6,1	8,8
Total current input	Р	230/1	А	14,1	-	22,0	-	-
Total current input	r	400V/3N	А	-	3,6	-	7,1	9,8
	N	230/1	А	14,5	-	22,6	-	-
	IN	400V/3N	А	-	4,0	-	7,7	10,4
	0	230/1	W/W	3,98	-	3,79	-	-
C.O.P.		400V/3N	W/W	-	4,41	-	3,95	3,87
2.0.1.	Р	230/1	W/W	3,79	-	3,69	-	-
	P	400V/3N	W/W	-	4,18	-	3,84	3,80
	0	230/1	l/h	1730	-	2410	-	-
Vater cond. flow rate		400V/3N	l/h	-	1740	-	2430	3150
vater cond. now rate	Р	230/1	l/h	1700	-	2370	-	-
	P	400V/3N	l/h	-	1720	-	2390	3120
Pressure drops	0		kPa	18	19	36	36	39
	Р		kPa	62	61	52	51	35
Available pressure	N		kPa	91	90	83	82	70
	0	230/1	А	22,4	-	31,4	-	-
Aaximum current (FLA)		400V/3N	А	-	7,4	-	11,4	15,4
	Р	230/1	А	23,3	-	32,3	-	-
		400V/3N	А	-	8,3	-	12,3	16,4
Peak current	Н	230/1	А	45	-	45	-	-
vith soft start (LRA)	11	400V/3N	А	-	30	-	46	73
Peak current	Н	230/1	А	100	-	162	-	-
vith soft start (LRA)	П	400V/3N	А	-	42	-	66	104
Compressors						Scroll		
N° compressors/N° circuits	All		n°/n°	1/1	1/1	1/1	1/1	1/1
Part load			%	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100
Refrigerant			type			R407C		
Condenser						Plate		
Number	All		N°	1	1	1	1	1
Hydraulic connections	All		Ø	F / 1"¼	F / 1"1/4	F / 1"¼	F / 1"¼	F / 1"1/4
ntegrated resistance OPTIONS								
Number			n°			1		
Capacity			kW			11,5		
ans						Axial		
Number	All		n°	2	2	2	2	2
Air flow rate	All		m3/h	7.200	7.200	6.800	6.800	6.800
Sound data								
Sound power	All		dB(A)	69	69	70	70	71
Sound pressure	All		dB(A)	37	37	38	38	39

### Performance is in line with norms UNI EN 14511-2: 2008

# Heating Condenser

- Input temperature 30°C; \_
- Output temperature 35°C; -
- ∆t 5°C -
- External air temperature 7bs / 6bu -

### Sound power

Aermec determines the value, based on the measurements made, in accordance with ISO 9614-2 norms

**Sound pressure** Measured in a free field frontal distance, 10 m and directionality = 2, in conformance with ISO 3744 norms

#### Technical data (400V/3N/50Hz) æehpa.

A2/W35			SRA10T	SRA14T	SRA19T
	0	kW	8,03	11,33	15,06
Heating capacity	Р	kW	7,95	11,17	14,58
T.I	0	kW	2,25	3,45	4,76
Total power input	Р	kW	2,37	3,49	4,56
C.O.P.	0	kW	3,569	3,284	3,164
C.U.P.	Р	kW	3,354	3,201	3,197
Water cond. flow rate (1)		l/h	1720	2430	3180
Pressure drops		kPa	19	37	40
Available pressure	Р	kPa	61	51	44
Air flow rate	All	m3/h	7200	6800	6800
Sound pressure	All	dB(A)	37	38	39
Sound power	All	dB(A)	69	70	71

### TECHNICAL DATA UNI EN 14511-2: 2008 NOTE:

- Ambient air temperature А
- w Condenser outlet water temperature

### (1) The water flow rate declared:

Condenser inlet water tempe	erature	30°C
Condenser outlet water temp	perature.	35°C
Ambient air temperature	7°C b.s. /	6° C b.u.

### Sound power

Aermec determines sound power values on the basis of measurements made in compliance with the ISO 9614-2 Standard, in agreement with that requested by Eurovent certification

### Sound pressure

Sound pressure in free field conditions on reflective surface (directivity factor Q=2) at 10 mt from the external surface of unit, in compliance with ISO 3744 regulations.

### **Dimensions (mm)**



SRA (°/P/N)		10	14	19
Height	mm	1252	1252	1252
Width	mm	1124	1124	1124
Depth	mm	384/428	384/428	384/428