

SRA

Heat pumps only for hot water production systems, up to 65°C,
and domestic hot water up to 50 °C
Heating capacity from 10 up to 18 kW

R407C



- **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°C and can operate down to -15°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 an 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

Technical data

Mod. SRA			10M	10T	14M	14T	19T	
Heating capacity	°	230V/1	kW	10,03	-	14,00	-	-
		400V/3N	kW	-	10,10	-	14,10	18,34
	P	230/1	kW	9,9	-	13,8	-	-
		400V/3N	kW	-	10,08	-	13,9	18,15
Total power input	°	230/1	kW	2,52	-	3,69	-	-
		400V/3N	kW	-	2,29	-	3,57	4,70
	P	230/1	kW	2,61	-	3,74	-	-
		400V/3N	kW	-	2,41	-	3,62	4,52
Total current input	°	230/1	A	13,1	-	21,0	-	-
		400V/3N	A	-	4,6	-	6,1	8,8
	P	230/1	A	14,1	-	22,0	-	-
		400V/3N	A	-	3,6	-	7,1	9,8
	N	230/1	A	14,5	-	22,6	-	-
		400V/3N	A	-	4,0	-	7,7	10,4
C.O.P.	°	230/1	W/W	3,98	-	3,79	-	-
		400V/3N	W/W	-	4,41	-	3,95	3,87
	P	230/1	W/W	3,79	-	3,69	-	-
		400V/3N	W/W	-	4,18	-	3,84	3,80
Water cond. flow rate	°	230/1	l/h	1730	-	2410	-	-
		400V/3N	l/h	-	1740	-	2430	3150
	P	230/1	l/h	1700	-	2370	-	-
		400V/3N	l/h	-	1720	-	2390	3120
Pressure drops	°		kPa	18	19	36	36	39
Available pressure	P		kPa	62	61	52	51	35
	N		kPa	91	90	83	82	70
Maximum current (FLA)	°	230/1	A	22,4	-	31,4	-	-
		400V/3N	A	-	7,4	-	11,4	15,4
	P	230/1	A	23,3	-	32,3	-	-
		400V/3N	A	-	8,3	-	12,3	16,4
Peak current with soft start (LRA)	H		A	45	-	45	-	-
Peak current with soft start (LRA)	H	230/1	A	100	-	162	-	-
		400V/3N	A	-	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"¼	F / 1"¼	F / 1"¼	F / 1"¼
Integrated resistance OPTIONS								
Number			n°	1				
Capacity			kW	11,5				
Fans								
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;
- Δt 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

A2/W35		SRA10T	SRA14T	SRA19T
Heating capacity	° kW	8,03	11,33	15,06
	P kW	7,95	11,17	14,58
Total power input	° kW	2,25	3,45	4,76
	P kW	2,37	3,49	4,56
C.O.P.	° kW	3,569	3,284	3,164
	P 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	P 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:

- A** Ambient air temperature
- W** Condenser outlet water temperature

(1) The water flow rate declared:

- Condenser inlet water temperature 30°C
- Condenser outlet water temperature. 35°C
- Ambient air temperature 7°C b.s. / 6° C b.u.

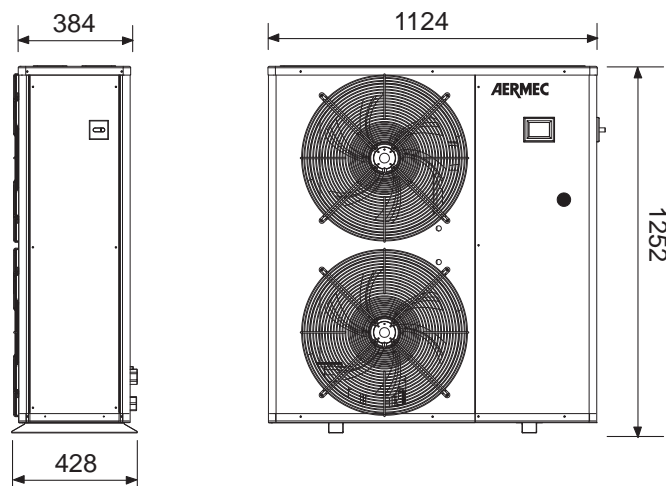
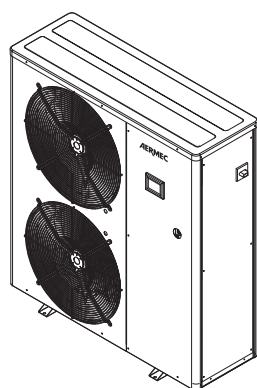
Sound power

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