

	RAW006		RAW009		RAW012		RAW015		RAW017	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX

COOLING A35 / W18

Cooling Power	kW	4,4	8,7	4,4	13,0	6,2	15,5	8,5	19,6	8,6	22,9
Absorbed power with pumps on board	kW	0,8	1,7	0,8	2,8	1,3	3,3	1,8	4,3	1,8	5,2
EER	-	5,49	5,18	5,45	4,70	4,58	4,73	4,76	4,52	4,82	4,38

COOLING A35 / W7

Cooling Power	kW	3,0	6,1	3,0	9,3	4,3	11,0	5,9	14,0	6,0	16,3
Absorbed power with pumps on board	kW	0,8	1,6	0,8	2,7	1,4	3,1	1,8	4,1	1,8	4,8
COP	-	3,87	3,71	3,76	3,43	3,13	3,49	3,25	3,43	3,29	3,40

HEATING A7 / W35

Heating Power	kW	3,6	7,5	3,7	11,5	5,2	13,4	7,2	17,7	7,2	20,3
Absorbed power with pumps on board	kW	0,7	1,4	0,7	2,3	1,3	2,9	1,6	3,6	1,6	4,2
COP	-	5,14	5,36	4,89	4,95	4,01	4,64	4,40	4,94	4,40	4,83

HEATING A-5 / W35

Heating Power	kW	2,5	5,2	2,5	8,2	3,7	9,5	5,1	12,4	5,1	14,5
Absorbed power with pumps on board	kW	0,7	1,4	0,8	2,3	1,3	2,8	1,7	3,4	1,7	4,0
COP	-	3,56	3,78	3,39	3,63	2,82	3,43	3,02	3,63	3,02	3,66

DOMESTIC HOT WATER A7 / W55

Heating Power	kW	3,4	7,0	3,4	10,8	5,5	12,4	6,8	15,7	6,8	18,3
Absorbed power with pumps on board	kW	1,2	2,1	1,2	3,4	2,3	4,0	2,6	5,1	2,6	5,9
COP	-	2,94	3,26	2,86	3,21	2,44	3,12	2,59	3,06	2,59	3,09

DOMESTIC HOT WATER A-5 / W55

Heating Power	kW	2,6	5,0	2,6	7,8	4,3	9,0	5,0	11,4	5,0	13,2
Absorbed power with pumps on board	kW	1,1	2,0	1,2	3,2	2,2	3,7	2,5	4,8	2,5	5,5
COP	-	2,26	2,47	2,19	2,44	1,96	2,42	1,99	2,37	1,99	2,4

COOLING + DOMESTIC HOT WATER W23/18 W50/55

Cooling Power	kW	3,6	7,6	3,6	11,6	5,3	13,2	6,9	16,7	6,9	19,5
Heating Power	kW	4,6	9,5	4,6	14,6	7,0	16,7	9,0	21,4	9,0	25,0
Absorbed power with pumps on board	kW	1,2	2,1	1,2	3,4	2,0	3,8	2,4	5,1	2,4	6,0
Total COP	-	7,08	8,02	7,08	7,83	6,19	7,83	6,71	7,45	6,71	7,37

EFFICIENCY

ESEER / SCOP Low Temperature	-	4,91/5,11		4,70/5,00		4,67/4,15		4,33/4,45		4,40/4,45	
Low temperature ERP efficiency class	-	A+++/H.T. Heat Pump		A++/H.T. Heat Pump		A++/H.T. Heat Pump		A+++/H.T. Heat Pump		A+++/H.T. Heat Pump	
DHW Energy Class / declared profile	-	A++/M		A++/M		A+/L		A+/L		A+/L	
Sound pressure level Lp @10m EN3744	dB(A)	31		34		37		35		36	

COMPRESSORE

Compressor type	-	BLDC Inverter				
Fan type	-	EC FAN				
Electrical power supply	-	230 / 1+N / 50 (400V Optional)			400 / 3+N / 50	
Total FLA	A	14	14	19	17	17

DIMENSIONS AND WEIGHT

Length x Width x Height - Internal Unit	mm	1270x456x880			1374x658x1182	
Length x Width x Height - External Unit	mm	900x743x1925				
Weight - Internal Unit	kg	100	100	110	150	150
Weight - External Unit	kg	290	290	290	290	290

Data calculated with reference to the standards of UNI EN 14511 and EN 14825; and EN 3744 for acoustic performance



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AEROTHERMAL MULTIFUNCTIONAL OR MULTIPURPOSE

6 - 17 kW

RAW



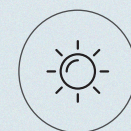
RAW is a full inverter, multifunctional or multipurpose split air to water heat pump with total recovery, configurable for all kind of system needs in energy class A+++



Aerothermal



Cooling



Heating



Domestic Hot Water

INVERTER

R-410A

R-454B



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RAW

Introduction

RAW SERIES MULTIFUNCTIONAL OR MULTIPURPOSE, ALL-IN-ONE 6-17 KW

RAW is an all in one split air-water heat pump, able to fully meet heating, cooling and domestic hot water production needs; it can operate with outdoor temperatures **down to -20°C and produce hot water up to 65°C.**

It is completed by an exclusive compact hydronic module, equipped **with a 200 l puffer for sanitary technical water**, 95 l inertial thermal flywheel, instantaneous DHW production via a 25 l/min brazed plate heat exchanger, expansion vessels, safety valves, hydraulic filters and electronic pumps for the plumbing system, sanitary water and source circuits.

The heat pump is available in two versions:

M for 2-pipe systems with domestic hot water, in total recovery mode

H for 2-pipe systems with domestic hot water

Description

TOTAL HEAT RECOVERY

Thanks to the hot side dedicated heat exchanger, SHI satisfies the thermal and sanitary needs of commercial and industrial 4-pipe systems, without having to reverse the refrigerant cycle at each heating and cooling request.

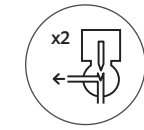
REGULATION AND REMOTE CONTROL

The control software allows you to perform all the necessary adjustments to maximize efficiency and configurability to different types of systems. The unit interfaces with any communication language for the remote control of system management and operation.

Main technical characteristics

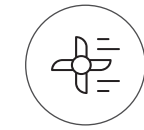
- **BLDC INVERTER SCROLL COMPRESSOR**
The BLDC inverter scroll compressor, with very high efficiency, allows RAW to produce **hot water up to 65 ° C** and guarantee a high performance in all conditions of use.
- **FINNED COIL HEAT EXCHANGER WITH INCREASED FIN SPACING**
The coil has an increased fin spacing and is treated with a hydrophilic coating, which favors the drain of condensation with consequent reduction of defrost duration by up to 30%.
- **MODULATING FLOW CONTROL**
The electronic pumps and modulating valves, installed inside the unit, are essential to ensure the control of the flow rate at constant temperature or constant Delta T. Thanks to the microprocessor that manages them, they are also able to adapt to every need of the system.
- **SILENCE**
The soundproofing of the compressor through the sound jacket and **the large EC fans** with reduced speed rotation guarantee the highest level of acoustic comfort.

Advantages



Double electronic expansion valve

Two electronic expansion valves, positioned in the indoor and outdoor unit, guarantee a better performance in both cooling and heating conditions and greater stability of the heat pump even with extended refrigerant lines.



Fans with EC motors

The inverter fan with electronically commutated motor makes SHI a heat pump with a very high energy performance and low noise levels, with the possibility of adjusting the air flow according to individual needs.



Smart Grid Ready

Smart Grid Ready for the management of electricity self-consumption integrated with My Economy device. RAW is smart grid so it is able to self-consume the energy surplus produced by the photovoltaic system thanks to My Economy System. It is also possible to reduce or inhibit the power absorption from the electricity grid when the photovoltaic system is not producing energy.



The highest energy efficiency in the category

The use of electronically controlled inverter electric motors, brazed heat exchangers with larger surfaces and finned coils with 2.5mm pitch make RAW the most energy efficient heat pump in its category.



Maximum soundproofing

The compressor is mounted on the antivibrating rubber dampers that reduce vibrations to minimum level, and it is covered with a special sound-absorbing and soundproofing material. These construction details, combined with the adoption of EC fans, make RAW a very silent heat pump.



Enerweb 2.0: Revolutionize Your Comfort with Intelligence and Connectivity

Enerweb 2.0 is the new supervision and monitoring system for heat pumps and air conditioning systems. The device is natively integrated into the heat pump and can be connected to other Eneren devices to have the entire system under control. The dedicated application is available for both iOS and Android, transforms your smartphone into a real command center with complete access to your system.

Applications

- Apartments
- Villas
- Offices
- Commercial buildings

