AEROTHERMAL
MULTIFUNCTIONAL OR MULTI-PURPOSE

6 - 50 kW

NAW

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

INVERTER

R-410A

R-454B

Aerothermal

Cooling

Heating

Domestic Hot Water

IT

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NAW

Introduction

NAW FULL INVERTER SERIES MULTIFUNCTIONAL OR MULTI-PURPOSE 6-50 KW

NAW is an adaptable and highly energy efficient monobloc heat pump, thanks to the use of **BLDC digital scroll inverter compressors.** It is able to completely satisfy the needs for heating, cooling and for the production of domestic hot water; it operates with outdoor temperature down to -20 ° C and produces **hot water up to 65 ° C.**

Available in three different versions:

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

P for 4-pipe systems, to satisfy heating and cooling needs at the same time, **in total recovery**

H for 2-pipe systems with domestic hot water

Description

TOTAL HEAT RECOVERY

Thanks to the dedicated refrigeration circuit with a parallel condenser in total heat recovery, NAW satisfies the thermal and sanitary needs of commercial and industrial 4-pipe systems, without having to reverse the refrigeration 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 NAW 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 **Hi-box** soundproofing of the compressor, through the sound jacket and the dedicated box, **the increased EC fans** with reduced speed rotation and the soundproof front grille, guarantee the highest level of acoustic comfort.

Product Plus

Coil with hydrophilic treatment

Coil with hydrophilic anti-condensation treatment with consequent reduction of defrost cycles. The use of a heat exchanger coil with increased fin spacing, and the use of a hydrophilic treatment let NAW to reduce the need for defrosting by up to 30%.

EC Fans

The inverter fan with electronically commutated motor makes NAW a heat pump with a very high energy performance and low noise levels, with the ability to adjust 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. NAW is smart grid, i.e. 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.

Maximum soundproofing

The compressor is mounted on rubber feet that reduce vibrations to a minimum, and is enclosed in a Hi-box covered with a special sound-absorbing material. These construction details, combined with the adoption of EC fans, make NAW a very quiet heat pump.

Total heat recovery

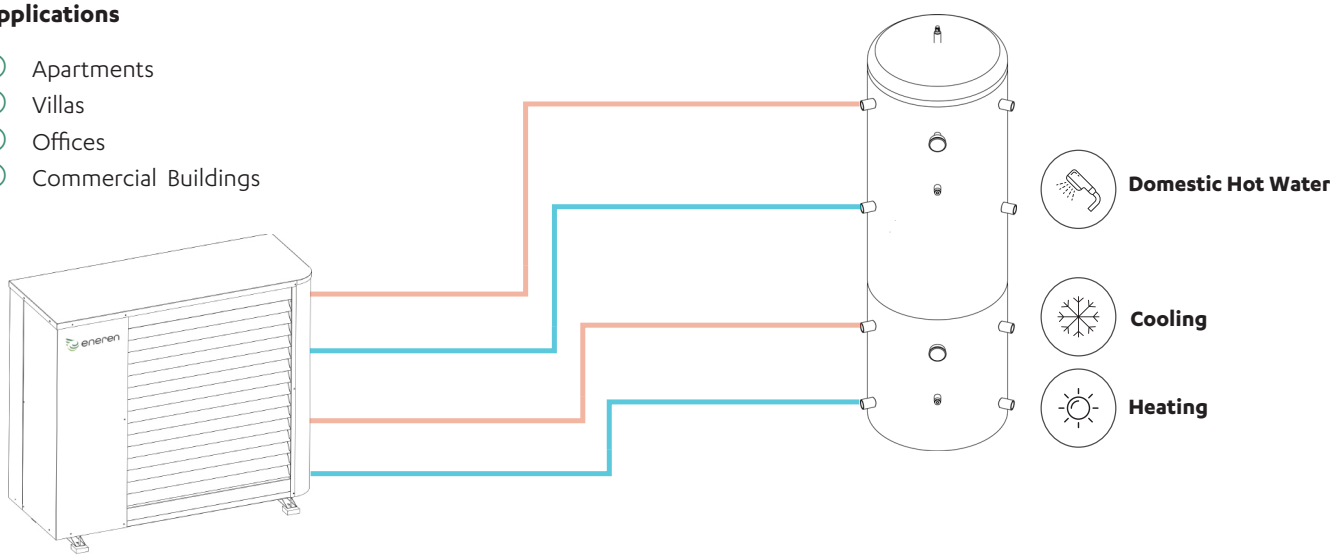
By using a dedicated heat exchanger, NAW recovers 100% of the heat generated during the cooling phase. The recovered heat can be used to heat water for sanitary use or for the operation of 4-pipe systems. This solution increases the overall efficiency of the unit and avoids temperature fluctuations in systems characterized by low inertia.

Enerweb supervision and remote control

Enerweb is the innovative control system of air conditioning and air handling system; it interfaces with any web device and allows you to view and monitor the main parameters, including operating temperatures and the fresh air flow.

Applications

- Apartments
- Villas
- Offices
- Commercial Buildings

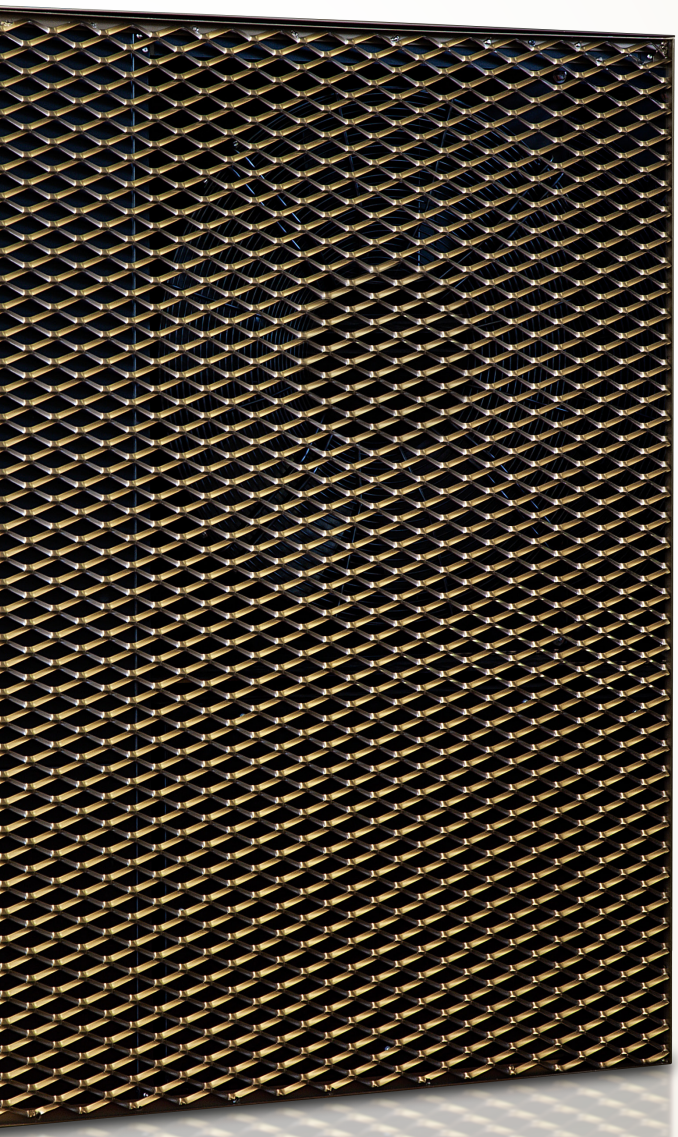


NAW

HIVER

ECO INSIDE,

SION



COOL OUTSIDE

NAW HIVE

Description

GREEN SOUL AND THE GREEN WAY TO BE COOL

NAW HIVE Version is the new heat pump with an exclusive design that combines technological and architectural innovation.

Its special cover transforms it into an element to be enhanced and a piece of furniture for your house.

Technology and aesthetics together for a new and unique style where sustainability is combined with elegance for maximum comfort.

YOUR FUTURE-PROOF CHOICE

		NAW006		NAW009		NAW012		NAW015		NAW017	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
COOLINGA35 / W18											
Cooling Power	kW	4,4	8,6	4,4	13,0	6,2	15,5	8,5	19,6	8,6	22,8
Absorbed power with pumps on board	kW	0,8	1,7	0,8	2,8	1,4	3,3	1,8	4,3	1,8	5,3
EER	-	5,44	5,11	5,42	4,66	4,50	4,72	4,76	4,52	4,82	4,33
COOLING A35 / W7											
Cooling Power	kW	3,0	6,1	3,0	9,2	4,3	10,9	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	3,2	1,8	4,1	1,8	4,8
COP	-	3,83	3,69	3,77	3,40	3,10	3,46	3,25	3,43	3,29	3,39
HEATING A7 / W35											
Heating Power	kW	3,6	7,5	3,6	11,4	5,2	13,5	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	-	5,18	5,38	4,97	4,93	4,02	4,69	4,40	4,94	4,40	4,81
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	0,7	2,3	1,3	2,8	1,7	3,4	1,7	4,0
COP	-	3,59	3,80	3,44	3,64	2,83	3,43	3,02	3,63	3,02	3,65
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	2,2	4,0	2,6	5,1	2,6	5,9
COP	-	2,96	3,27	2,89	3,22	2,45	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	-	2,27	2,48	2,22	2,45	1,96	2,43	1,99	2,37	1,99	2,40
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 High Temperature	-	4,86/3,35		4,83/3,57		4,40/2,96		4,33/3,14		4,40/3,25	
High temperature ERP efficiency class	-	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	
Lw Sound Power Level @10m EN3744	dB(A)	18,0	28,0	18,0	33,0	21,3	36,0	20,3	35,3	20,3	36,3
COMPRESSOR											
Compressor type	-	BLDC Inverter									
Fan type	-	EC FAN									
Electrical power supply	-	230 / 1+N / 50						400 / 3+N / 50			
Total FLA	A	19,2		25,2		28,2		13,7		17,0	
DIMENSIONS AND WEIGHT											
Length x Width x Height - Standard	mm	1374 x 566 x 1180									
Length x Width x Height - HIVE	mm	1122 x 708 x 1452									
Weight - Standard	kg	172		184		207		215		215	
Weight - HIVE	kg	196		210		236		245		245	

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

		NAW020		NAW030		NAW040	
		MIN	MAX	MIN	MAX	MIN	MAX
COOLINGA35 / W18							
Cooling Power	kW	13,0	32,7	17,1	41,1	17,3	54,6
Absorbed power with pumps on board	kW	2,1	7,2	3,1	9,5	3,1	14,2
EER	-	6,09	4,54	5,59	4,33	5,58	3,84
COOLINGA35 / W7							
Cooling Power	kW	8,9	22,8	12,0	29,5	12,1	39,8
Absorbed power with pumps on board	kW	2,2	6,8	3,1	8,6	3,1	12,8
COP	-	4,06	3,36	3,90	3,42	3,86	3,11
HEATING A7 / W35							
Heating Power	kW	10,2	25,0	13,7	34,0	13,8	46,5
Absorbed power with pumps on board	kW	2,0	5,6	2,9	7,4	3,0	10,8
COP Totale	-	5,04	4,47	4,76	4,58	4,62	4,30
HEATING A-5 / W35							
Heating Power	kW	6,7	18,4	9,8	24,3	9,9	33,4
Absorbed power with pumps on board	kW	2,0	5,5	2,8	7,1	2,9	10,1
COP	-	3,30	3,34	3,50	3,43	3,37	3,29
DOMESTIC HOT WATER A7 / W55							
Heating Power	kW	8,4	22,9	12,8	30,8	12,9	42,2
Absorbed power with pumps on board	kW	3,2	8,5	4,5	10,7	4,6	15,0
COP	-	2,67	2,71	2,85	2,89	2,81	2,82
DOMESTIC HOT WATER A-5 / W55							
Heating Power	kW	5,7	16,2	9,6	23,3	9,6	32,0
Absorbed power with pumps on board	kW	3,3	8,8	4,8	10,5	4,8	14,6
COP	-	1,71	1,85	2,03	2,22	1,99	2,19
COOLING+ DOMESTIC HOT WATER W23/18 W50/55							
Cooling Power	kW	10,2	28,1	13,8	35,6	13,8	48,4
Heating Power	kW	12,7	35,7	17,4	45,2	17,4	62,2
Absorbed power with pumps on board	kW	2,7	8,2	4,0	10,6	4,0	15,1
COP Totale	-	8,37	7,75	7,69	7,61	7,76	7,33
EFFICIENCY							
ESEER / SCOP High Temperature	-	5,35/2,94		4,84/3,49		4,75/3,64	
High temperature ERP efficiency class	-			A++/H.T. Heat Pump			
DHW Energy Class / declared profile	-	A/XL		A+/XL		A/XXL	
Lw Sound Power Level @10m EN3744	dB(A)	33,1	39,3	33,8	41,0	33,8	48,1
COMPRESSOR							
Compressor type	-			BLDC Inverter			
Fan type	-			EC FAN			
Electrical power supply	-			400 / 3+N / 50			
Total FLA	A	22,3		25,4		32,1	
DIMENSIONS AND WEIGHT							
Length x Width x Height	mm			2012 x 702 x 1465			
Weight	kg	395		456		456	

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

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