ECOSAN

DHW instant production unit with electronic modulating regulator

DESCRIPTION

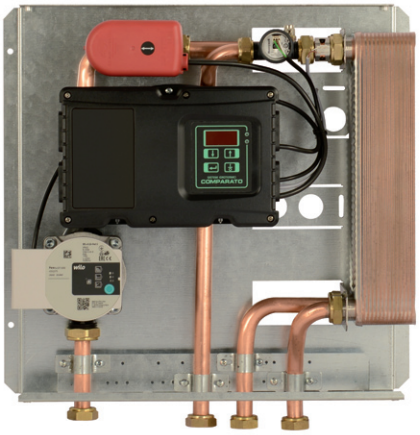
ECOSAN unit istantaneously produces DHW thanks to a heat exchanger which withdraws the energy from a puffer of technical water.

The control of the hot water delivery temperature is achieved by means of an electronic apparatus, with PID algorithm, which detects the instantaneous temperature thanks to the special probe, and acts on the system through the motorised 2-way modulating valve located on the primary circuit of the exchanger.

The domestic hot water supply temperature can be easily changed using the keypad and the relevant display.

When the production of domestic hot water is active, the unit electrically supplies a primary pump necessary for the circulation of the thermal heat transfer fluid inside the device itself.

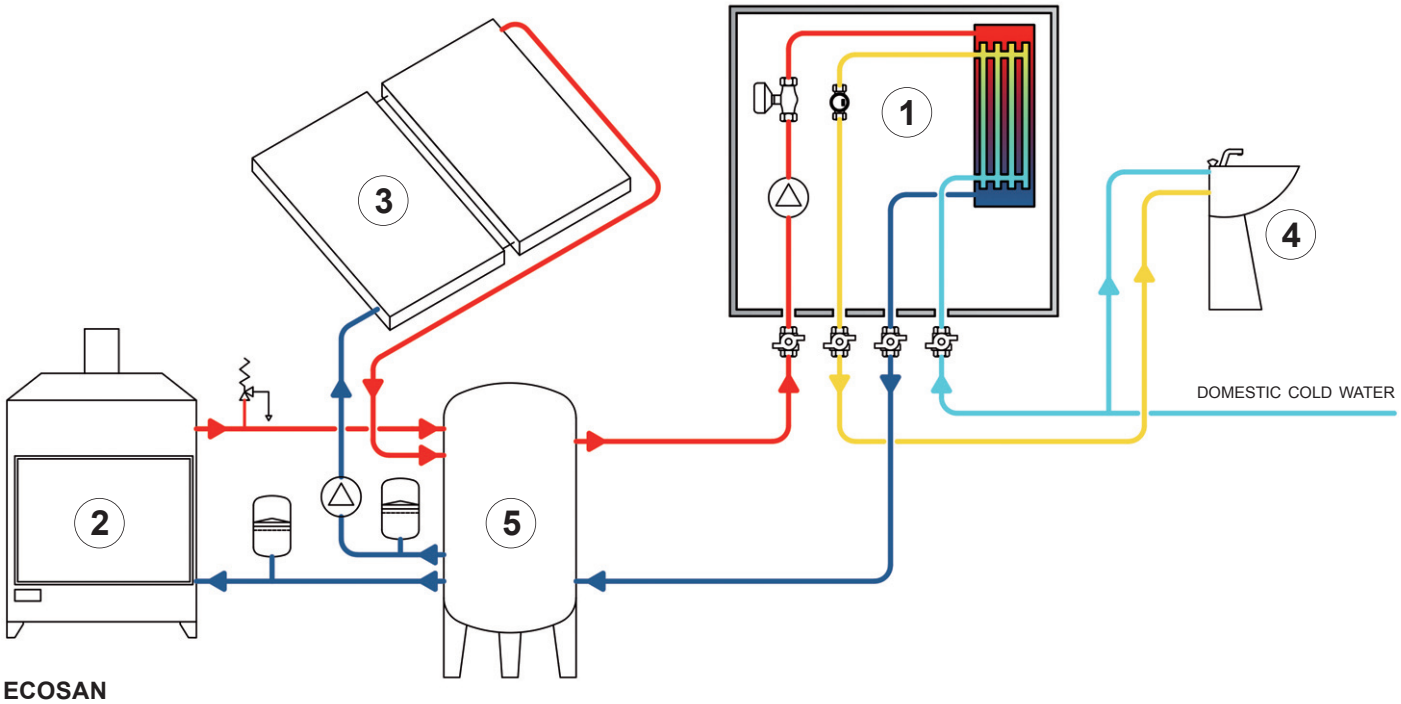
ECOSAN



SHELL

- Wall hanging installation with compact dimensions
- Domestic hot water production
- Three nominal powers available: 35 kW, 50 kW and 60 kW
- Electronic adjustment
- Optional primary pump

EXAMPLE OF USE

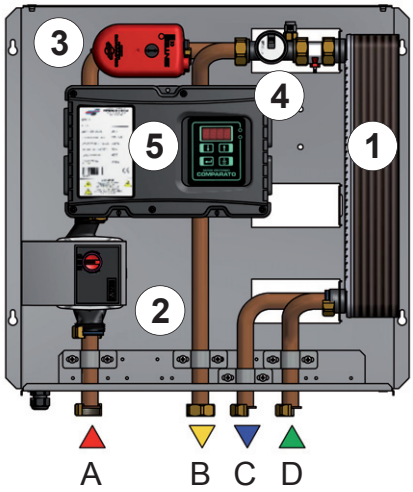


ECOSAN

1. ECOSAN
2. SOLID FUEL BOILER
3. THERMAL SOLAR SYSTEM
4. DOMESTIC UNITS
5. PUFFER

ECOSAN

COMPONENTS AND FLOWS



A : Flow from puffer
B : DHW outlet
C : Return to puffer
D : DHW outlet to utilities

1 : Plate exchanger
2 : System pump
3 : Motorised 2-way modulating SINTESI valve, domestic circuit
4 : Domestic flowmeter
5 : Control panel

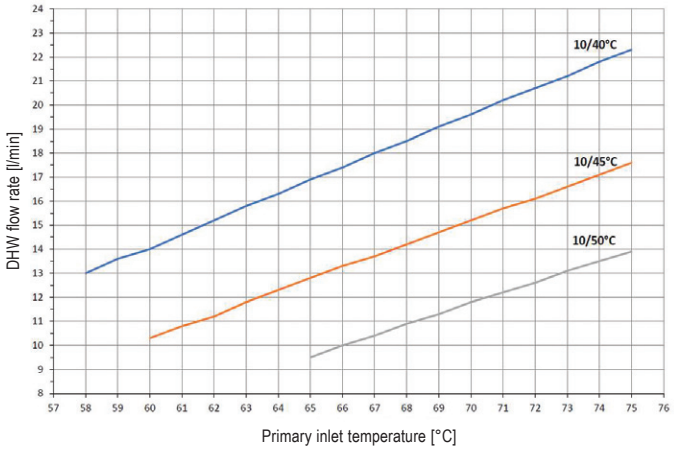
VERSIONS AND CODES

Version	Rated power	Pump	Code
	35 kW	included	ECOSP35
		predisposition	ECOSI35
	50 kW	included	ECOSP50
		predisposition	ECOSI50
	60 kW	included	ECOSP60

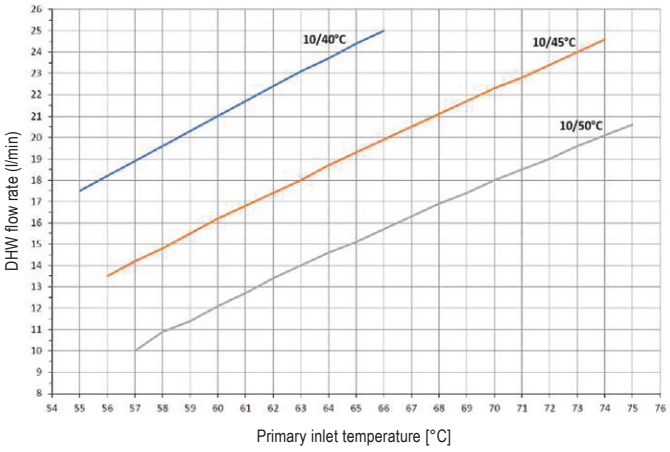
Accessory	Description	Code
	White cover	CEK

PERFORMANCE IN DHW PRODUCTION

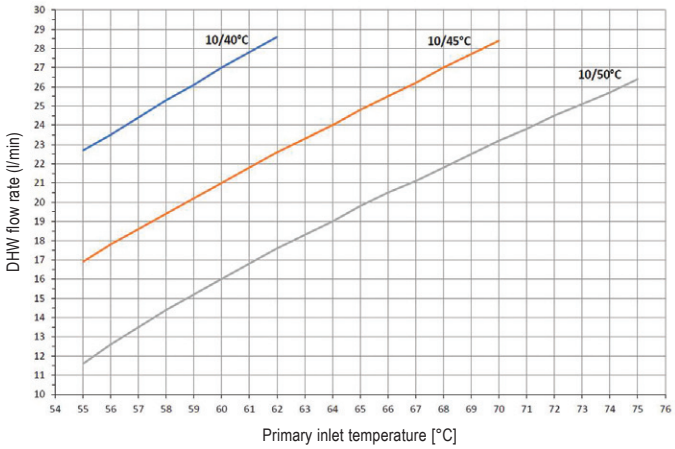
ECOSAN 35 kW



ECOSAN 50 kW



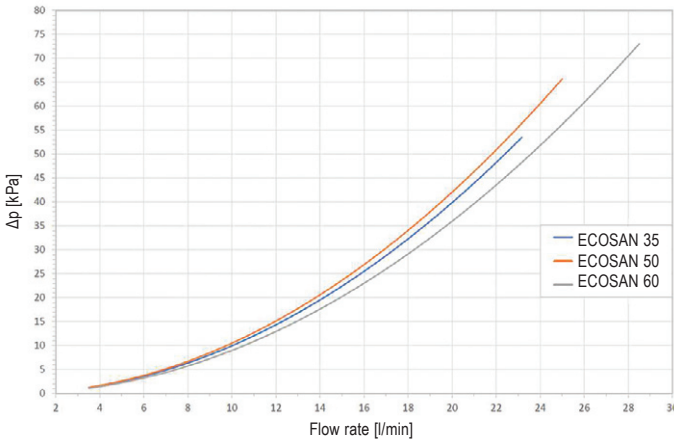
ECOSAN 60 kW



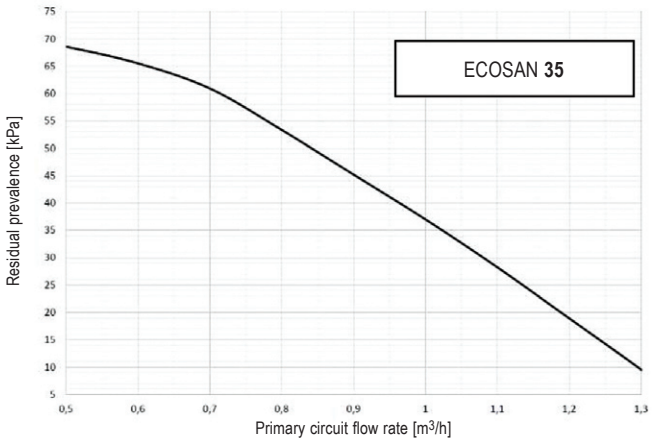
ECOSAN

HYDRAULIC FEATURES

DHW PRESSURE DROP



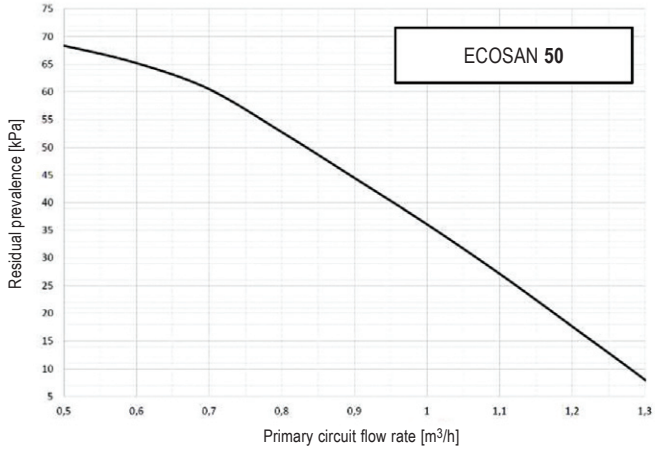
PRIMARY CIRCUIT RESIDUAL HEAD

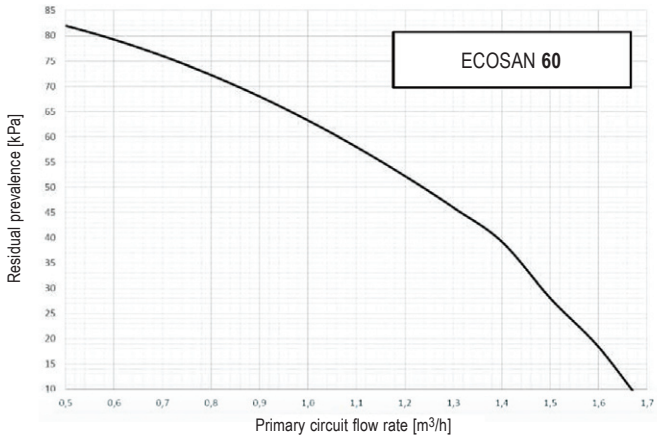


TECHNICAL FEATURES

PRIMARY CIRCUIT	
Fluid type	water VDI 2035 - max glycol 30%
Max temperature	90°C
Max pressure	6 bar
DOMESTIC WATER CIRCUIT	
Fluid type	Max water hardness 15dGH
Max temperature	60°C
Max pressure	6 bar
Flow rate on / off	3,5 - 2,5 l/min
Max water flow	35 l/min
PIPING	
Material	copper
Size	Ø18
HYDRAULIC CONNECTIONS	
Material	brass
Size	G3/4"M
HYDRAULIC SUPPORT	
Material	galvanised metal sheet
SHELL	
Material	black sheet metal
Color	white RAL 9010 powder-coated
POWER SUPPLY	
Voltage	230V ± 10%
Frequency	50 Hz

Max absorbtion	ECOSAN 35	ECOSAN 50	ECOSAN 60
WITH pump	60W	60W	100W
WITHOUT pump	10W	10W	-





ECOSAN

INSTALLATION WARNINGS

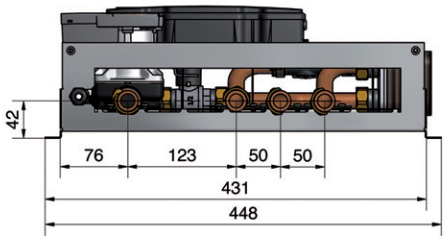
It is advisable to use hydraulic flexible connection in order to compensate for any thermal expansion and possible misalignment between the system connections.

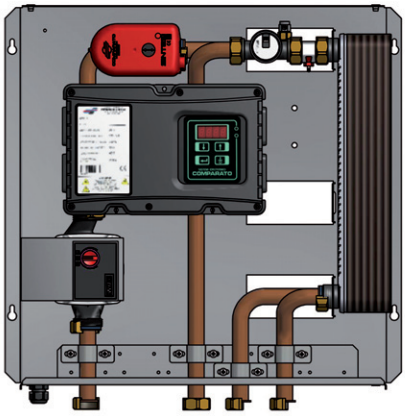
CERTIFICATIONS

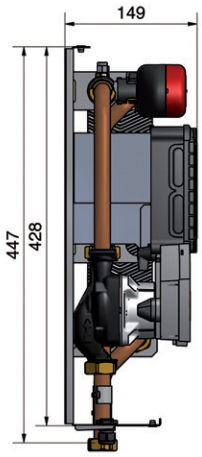
CE Machinery Directive
2006/42/CE.
CE Low Voltage Directive
2014/35/ue: 26/04/2014
CE Electromagnetic Compatibility Directive
2014/30/UE

OVERALL SIZE

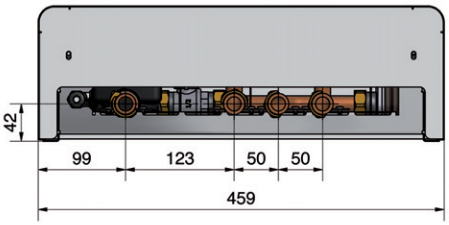
WITHOUT SHELL

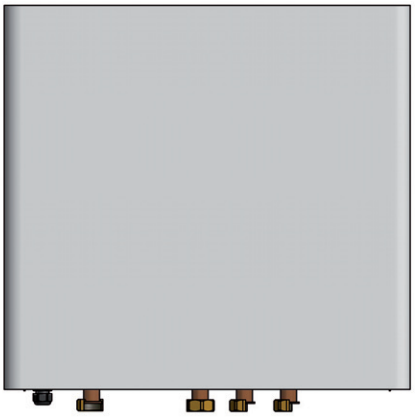


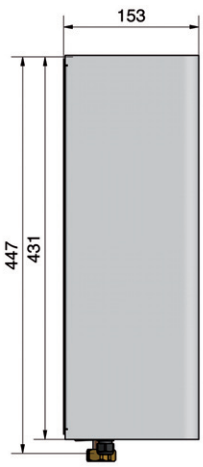




WITH SHELL







EXAMPLE OF SPECIFICATIONS

ECOSAN HYDRAULIC INTERFACE UNIT for the instantaneous production of domestic hot water using thermal energy from a technical water storage, nominal power 50 kW, wall-hanging technical room installation, complete with: • braze-welded plated heat exchanger • primary circuit pump • motorised 2-way modulating valve • temperature probe • flow meter • management electronics with interface display. Copper pipes Ø18mm, maximum working pressure 6 bar, maximum temperature 90°C, hydraulic connections G3/4" with flat-contact nuts, electrical supply 230V 50Hz, maximum absorption 60W, dimensions 448x444x150mm.

Brand: **COMPARATO**

Code: **ECOSP50**

COVER SHELL, white powder-coated RAL9010.

Brand: **COMPARATO**

Code: **CEK**

UPDATED DATA SHEETS AVAILABLE AT www.comparato.com