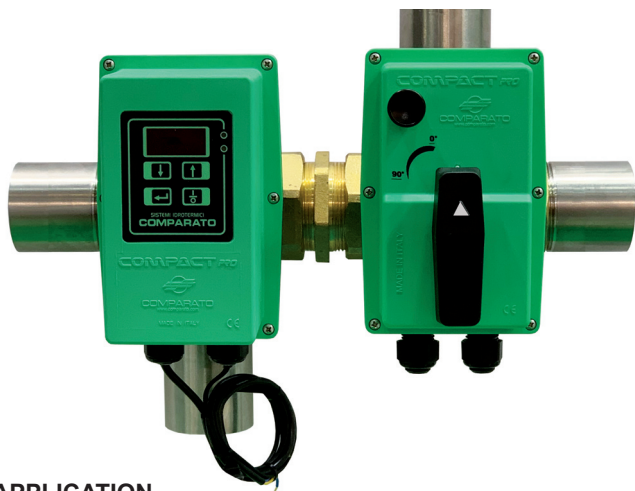


Ecopool

Automatic heat source selection and electronic temperature control of heat exchanger outlet for pool regulation systems



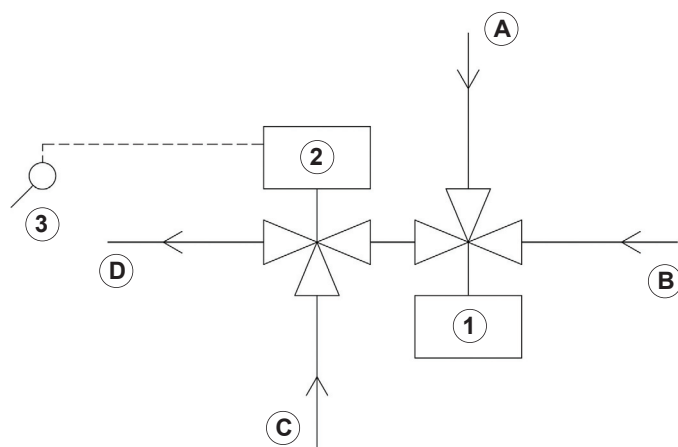
APPLICATION

ECOPOOL can be used for pool heating where managing the commutation between two different heat sources in an automatic way is necessary, for instance solar thermal and gas boiler.

FUNCTIONING

- Electronic regulation of the inlet temperature to the pool;
- Automatic switching between two different energetic sources according to the available temperature.

HYDRAULIC SCHEME



- 1 3-way deviating motorised valve
- 2 3-way modulating motorised valve with temperature probe
- 3 Temperature probe pool

- A Flow from source 1
B Flow from source 2
C Return to sources
D Flow to pool exchanger

VERSIONS

ECOPOOL is available in following diameters DN20, DN25 e DN32. Other diameters are available on request.

DESCRIPTION

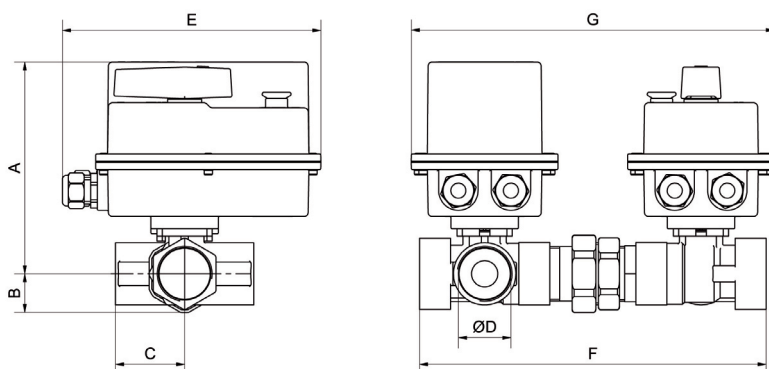
The kit is composed by n. 2-way motorised valves with different functions: deviating valve (1) gives the priority to an heat source (eg. solar thermal) when the temperature is enough to warm the pool. If this does not occur it deviates and connects the second heat source (eg. boiler) in an automatic way. In order to activate the working process, the actuator must be connected to a thermostat (not included) that can detect the temperature of the accumulation technical water of the priority heat source. The modulating valve (2) keeps constant and precise temperature value set on the plated exchanger output for the benefit of the comfort and of the energy saving. Temperature setting can be made locally, thanks to the User interface (keyboard and display).

TECNICAL FEATURES

Type of fluid	technical water
Max pressure	PN40
Max temperature	90°C
Body valves	DZR brass
Seats	PTFE
O-ring	EPDM
Hydraulic connections	Female Gas
Power supply	230V 50Hz (24V 50Hz on request)
Installation	technical rooms
Ambient temperature	5°C ÷ 55°C
Ambient humidity	25% ÷ 85%
Electronic controller	PID
Accuracy	±1°C
Temperature setting	-15°C ÷ 90°C

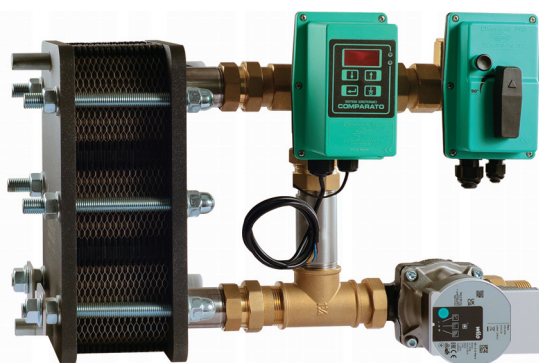
POOL VOLUME [m³]	EXCHANGER POWER [kW]	POOL FLOW RATE [m³/h]	PRIMARY FLOW RATE [m³/h]	VERSION	Kv [m³/h]
50	20	1,0	1,1	DN20	5,7
100	40	2,1	1,6	DN25	5,7
200	70	3,5	2,6	DN32	8,8

OVERALL SIZE



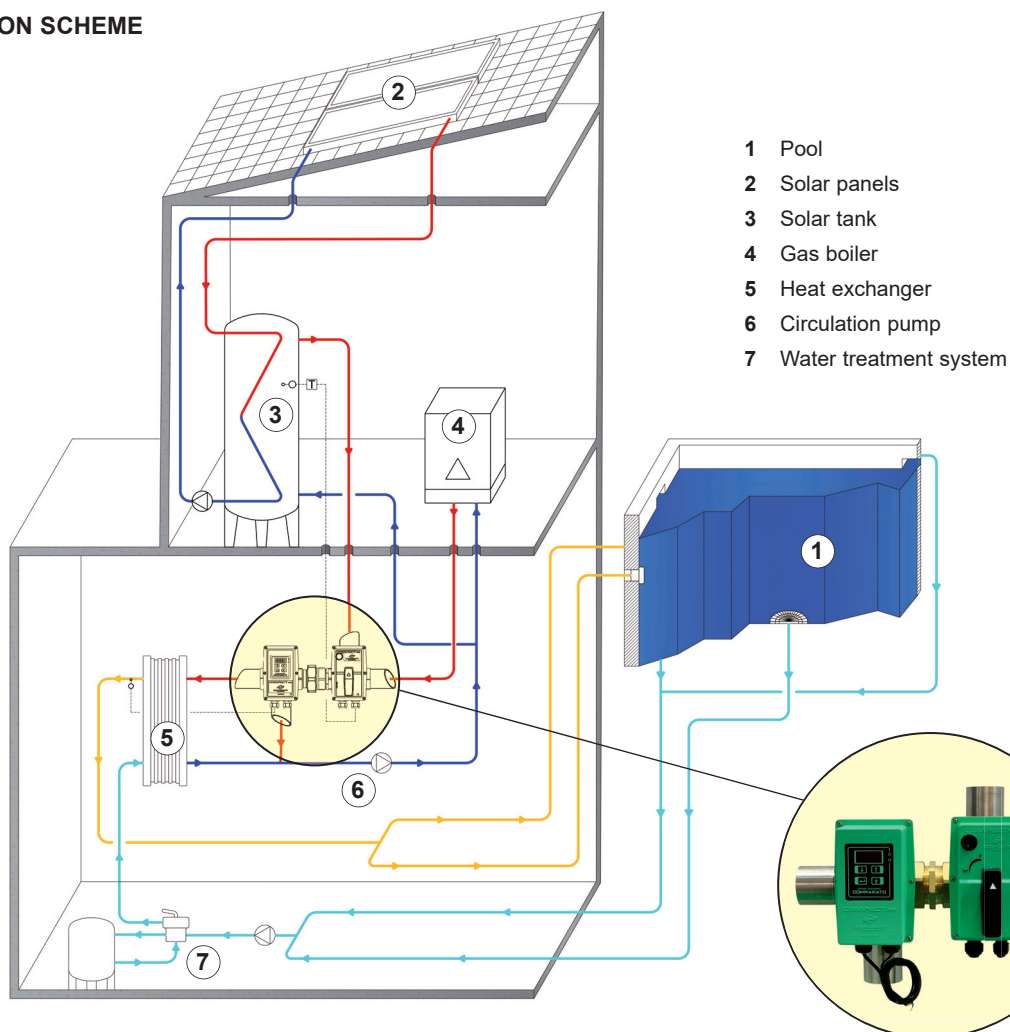
VERSION	A [mm]	B [mm]	C [mm]	D [Ø]	E [mm]	F [mm]	G [mm]
DN 20	153	22	40	3/4"	168	215	229
DN 25	153	25	45	1"	168	225	234
DN 32	161	29	53	1 1/4"	197	264	276

EXTENDED VERSION



Supplied with detachable plate heat exchanger and pump on primary side.

APPLICATION SCHEME



UPDATED DATA SHEETS AVAILABLE AT www.comparato.com

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HYDROTHERMAL SYSTEMS
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