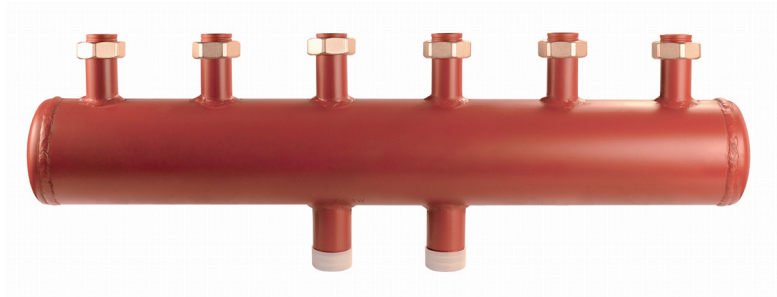


Diasys

Multi-purpose manifold

The **DIASYS** multi-purpose single-pipe manifold provides a compact package of hydraulic separator and distribution manifold functions for pump units.

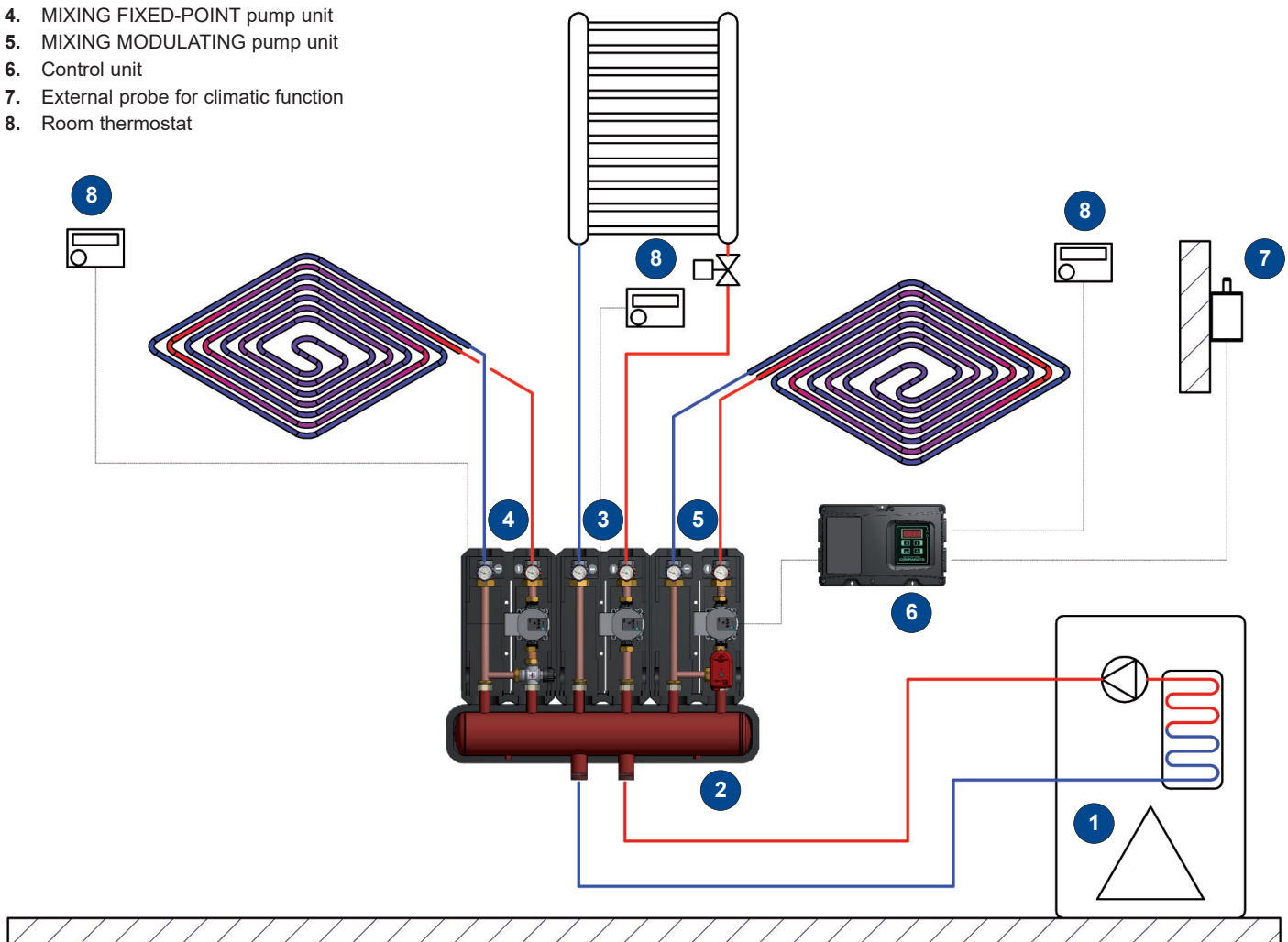


OPERATION

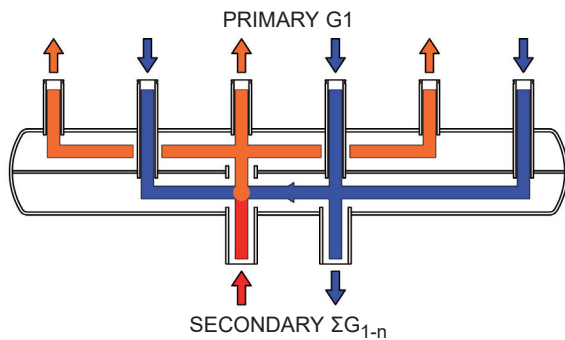
The purpose of the compensator is to hydraulically separate the heating circuit and the plant in use, when they have different water flow needs. The collector function allows to distribute the provided quantity of thermal carrier fluid to the various zones, according to the characteristics of the zone itself, using the relevant pumps.

APPLICATION EXAMPLE

1. Generator
2. DIASYS
3. DIRECT pump unit
4. MIXING FIXED-POINT pump unit
5. MIXING MODULATING pump unit
6. Control unit
7. External probe for climatic function
8. Room thermostat

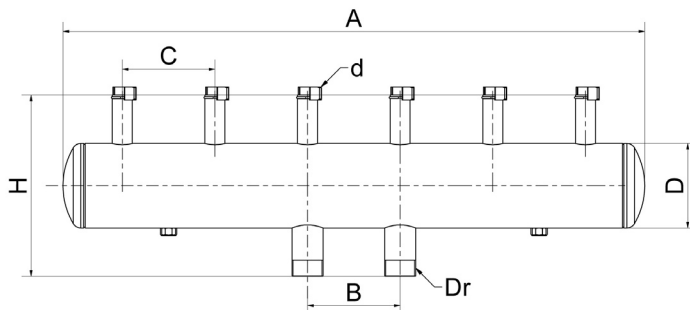


According to the flow rate differences between G1 primary circuit (power unit) and the sum of ΣG_{1-n} secondary circuits (plant), two different scenarios may occur inside **DIASYS**:



The lower flow rate on the primary circuit G1 allows the mixing of the system flow and return inside the compensation chamber. Consequently, the delivery temperature to the various zones will be lower than the temperature of the flow coming from the generator.

OVERALL SIZE



ZONES	A	B	C	H	D	Dr	d	WEIGHT
2	535	125	125	244	4"	1"1/4	1"F	10 Kg
3	785	125	125	244	4"	1"1/4	1"F	13 Kg
3+1	785	125	125	244	4"	1"1/4	1"F	14 Kg
3+2	785	125	125	244	4"	1"1/4	1"F	15 Kg

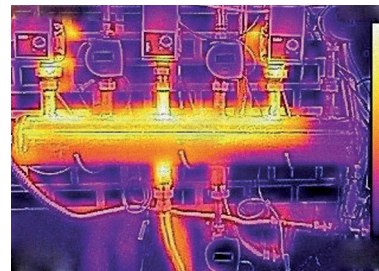
DIASYS code	ZONES	INSULATION code	ZONES
CCI0234GR	2	CBI0234GR	2
CCI0334GR	3	CBI0334GR	3
CCI3134GR	3+1	CBI3134GR	3+1
CCI3234GR	3+2	CBI3234GR	3+2

TEMPERATURE DISTRIBUTION

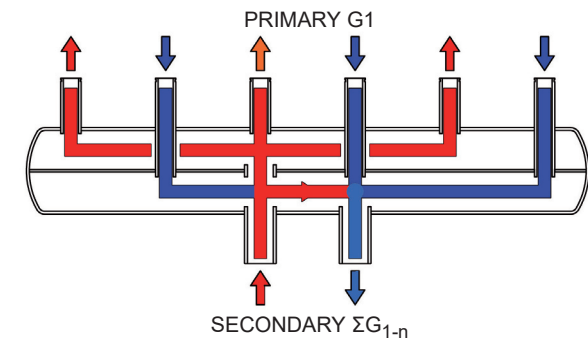
As shown in the thermographic images of the laboratory tests, **DIASYS** differs from other multifunction products because, thanks to the particular conformation of the compensation chamber and the separation septum, it guarantees a uniform distribution of the temperature at the outlet of the various zones.



$G1 < \Sigma G_{1-n}$



$G1 > \Sigma G_{1-n}$



The higher flow rate on the primary circuit G1 allows the mixing between the flow and the return to the generator, thus increasing the return temperature to the generator itself.

HYDRAULIC FEATURES

VERSION ZONES	PRIMARY CIRCUIT G1	SECONDARY CIRCUIT ΣG_{1-n}
2	3.5 m³/h	4 m³/h
3	3.5 m³/h	4.5 m³/h
3+1	3.5 m³/h	5.0 m³/h
3+2	3.5 m³/h	5.5 m³/h

ACCESSORIES

- Polyethylene foam insulation
- KSC1 Support Bracket Kit

TECHNICAL FEATURES

- Span 125mm
- Maximum fluid temperature: 90°C
- Maximum fluid pressure: 5 bar
- Material: carbon steel EN 10255
- Paint: water-based primer, red

UPDATED DATA SHEETS AVAILABLE AT www.comparato.com

In order to provide an up-to-date service, Comparato Nello S.r.l. reserves the right to modify technical data, drawings, graphs and photos of this data sheet at any time, without prior notice.



HYDROTHERMAL SYSTEMS
COMPARATO NELLO S.r.l.

17014 CAIRO MONTENOTTE (SV) ITALIA VIALE DELLA LIBERTÀ • LOCALITÀ FERRANIA • Tel. +39 019 510.371 - FAX +39 019 517.102

www.comparato.com

e-mail: info@comparato.com



UNI EN ISO 9001:2015 CERTIFIED COMPANY