## Diadis

### HYDRAULIC SEPARATOR WITH INDEPENDENT CIRCUITS

### USE

Heating / cooling systems.

### **FUNCTIONS**

**Diadis** hydraulic separator is used to create three hydraulically independent circuits. It is applied in systems where there are two generators, e.g. gas boiler and heat pump (scheme 1), both supplying the same system, or in systems where there is one generator supplying two different zones (scheme 2), e.g. a direct zone and a mixing zone.

**Diadis** is available with male threaded connections from 1" to 2" and is supplied complete with drain sleeve and sleeve for the air vent valve.



- Maximum fluid temperature: 90°C
- Minimum fluid temperature: 5°C
- Maximum fluid pressure: 5 bar
- · Material: carbon steel EN 10255
- · Threading: male UNI EN10226-1
- · Paint: water-based primer, red
- Insulation: cross-linked closed-cell, fireproof, antistatic and scratchproof polyethylene foam



DIADIS SEPARATOR

INSULATION

### **APPLICATION EXAMPLE**

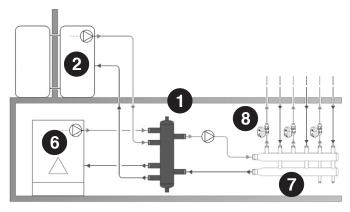


Diagram 1: two generators are connected in parallel on the primary circuit of Diadis and supply the same system.

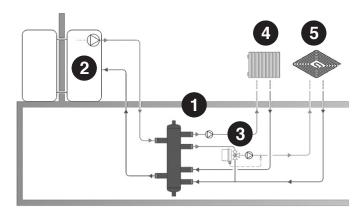


Diagram 2: A single generator is connected on the primary circuit and supplies two different zones of the system.

- 1 Diadis
- 2 Heat pump
- 3 DIAMIX PR / COMPAMIX PR mixing valve
- 4 Radiator system
- 5 Radiant panel system
- 6 Boiler
- 7 DIACOL manifold
- 8 SINTESI motorised zone valve



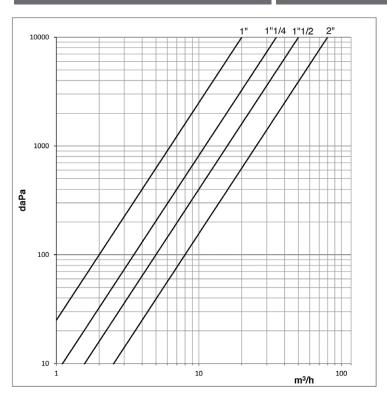


### **HYDRAULIC SEPARATOR WITH INDEPENDENT CIRCUITS**

### **VERSIONS**

	CONNECTIONS			
CODE	1"	1"1/4	1"1/2	2"
SEPARATOR	T001	T114	T112	T002
INSULATION	CBT001	CBT114	CBT112	CBT002

### **FLUID-DYNAMIC FEATURES**



Kv : flow coefficient [m³/h]

Q: flow  $[m^3/h]$ 

 $\Delta p$  : pressure drop **[bar]** 

 $\Delta p = (Q / Kv)^2$ 

Kv and INDICATIVE FLOWS					
Ø	Kv	Q	Q		
1"	20	2 m <sup>3</sup> /h	2,8 m <sup>3</sup> /h		
1"1/4	35	3,5 m <sup>3</sup> /h	5 m <sup>3</sup> /h		
1"1/2	50	5 m <sup>3</sup> /h	7,1 m <sup>3</sup> /h		
2"	80	8 m <sup>3</sup> /h	11,3 m <sup>3</sup> /h		
		∆p = <b>100 daPa</b>	∆p = <b>200 daPa</b>		

### Diadis

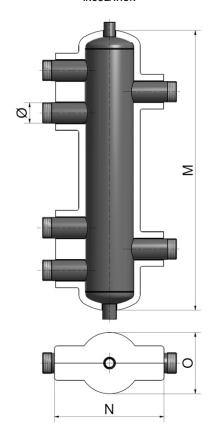
### **HYDRAULIC SEPARATOR WITH INDEPENDENT CIRCUITS**

### **OVERALL SIZE**

### DIADIS SEPARATOR

# 

### INSULATION



### DIADIS SEPARATOR SIZES

Ø	Α	В	С	D	Е	F	G	Н	1	L
1"	3"	289	180	80	40	100	80	3/4"	1/2"	460
1"1/4	4"	314	290	100	50	190	100	3/4"	1/2"	620
1"1/2	4"	314	370	100	50	270	100	3/4"	1/2"	700
2"	5"	340	475	120	65	355	125	1"	1/2"	875

### INSULATION DIMENSIONS

Ø	М	N	0
1"	435	250	140
1"1/4	590	270	160
1"1/2	670	270	160
2"	840	275	180

### DIADIS VOLUME AND WEIGHT

Ø	volume [l]	weight [kg]
1"	2,2	5
1"1/4	5	8
1"1/2	6	9
2"	12	13

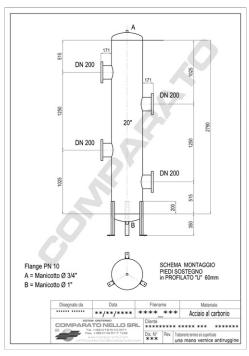


### HYDRAULIC SEPARATOR WITH INDEPENDENT CIRCUITS

#### **CUSTOM SEPARATORS**

Iron or stainless steel separators are available on request with non-standard measures, according to the client's drawings. Examples:









### **EXAMPLE OF SPECIFICATIONS**

DIADIS INDEPENDENT CIRCUITS HYDRAULIC SEPARATOR threaded connections 1"1/4 M, sleeve for air vent valve 1/2" F, sleeve for air vent valve 3/4" F, max. temperature 90°C, min. temperature 5°C, max. pressure 5 bar, material carbon steel EN10255, painted with red water-based primer.

**Brand: COMPARATO** 

Code: **T114** 

SHELL INSULATION in closed-cell, cross-linked polyethylene foam, fire-retardant, antistatic and scratch-resistant.

Velcro fastener, 15 mm thick.

Brand: COMPARATO Code: CBT114



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### **HYDROTHERMAL SYSTEMS**

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