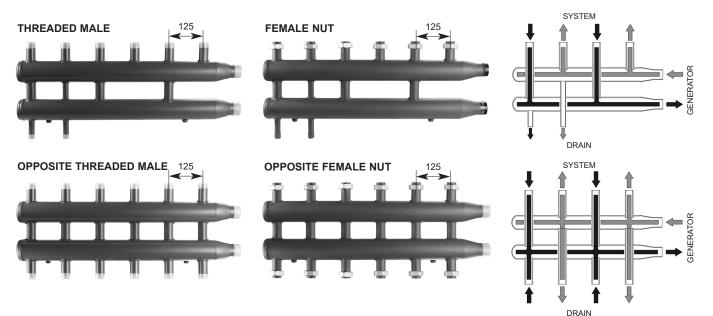


## USE

Diacol 125 manifolds are specifically used in:

- zone heating/cooling systems
- systems using alternative energy
- industrial systems using hot and cold fluids
- pump units with 125mm centre distance



## Diacol 125 TECHNICAL FEATURES

- Maximum fluid temperature: 90°C
- Minimum fluid temperature: 5°C
- Maximum fluid pressure: 5 bar
- Material: carbon steel EN10255
- Paint: water-based primer, red

## INSULATION TECHNICAL FEATURES

• Expanded polypropylene (EPP) (density 30 Kg/m<sup>3</sup>), embedded.



## ACCESSORIES

## FIXING KIT • Code KSC1

Made of two painted steel support brackets with slots, in order to simplify the assembling, two threaded bars M10, four nuts and four expansion bolts Ø 10 x 80 mm for a safe wall anchoring.





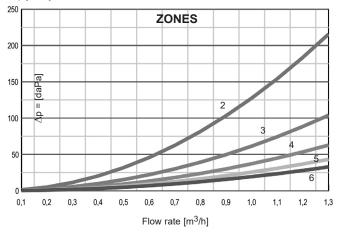


## HYDRAULIC FEATURES

#### Diacol 125 • Ø 3/4"

ZONES	Kv [m³/h]
2	8,85
3	12,75
4	16,40
5	19,76
6	22,71

 $\Delta p$  [daPa] manifolds ø3/4" connections, 125 mm centre distance



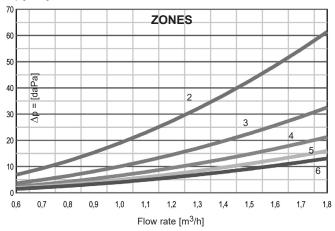
The hydraulic features do not change for versions with female nut.

## RATED POWER TABLE FOR EACH ZONE

#### Diacol 125 • Ø 1"

ZONES	Kv [m³/h]
2	22,97
3	31,55
4	39,05
5	45,08
6	49,74

 $\Delta p$  [daPa] manifolds ø1" connections, 125 mm centre distance



Evaluation of the available power with different tube diameters (shunted)										
Liquid water										
Ø Offtake   Flow rate   Available power										
	RadiatorsRadiatorsFan coilsRadiant panelswith thermostatic valveswith thermostatic valvesor radiatorsfan coils or batte(high thermal gradient)(high thermal gradient)without thermostatic valvesfor the summer se									
		thermal gradient 30°C	thermal gradient 20°C	thermal gradient 10°C	thermal gradient 5°C					
(inches)	[l/h]	[kW]	[kW]	[kW]	[kW]					
3/4"	600	20,9	13,9	6,9	3,4					
1"	1200	41,8	27,9	13,9	6,9					

Note: a 3/4" zone with 600-litre flow for radiant panel systems ensures a power of about 3.5 kW. That is to say an available power with about 35-50 m<sup>2</sup> of usable radiant panels at maximum output, for a floor surface of 40-60 m<sup>2</sup>.

## VERSIONS

DIACOL 125	DUAL								
zones n.		2	3	4	5	6			
THREAD JOINT	manifold code insulation code	C02D01	C03D01	C04D01	C05D01	C06D01			
1" M		CBC02D01	CBC03D01	CBC04D01	CBC05D01	CBC06D01			
NUT JOINT	manifold code insulation code	C02D01GR	C03D01GR	C04D01GR	C05D01GR	C06D01GR			
1"1/4		CBC02D01	CBC03D01	CBC04D01	CBC05D01	CBC06D01			
THREAD JOINT	manifold code insulation code	C02D34	C03D34	C04D34	C05D34	C06D34			
3/4" M		CBC02D34	CBC03D34	CBC04D34	CBC05D34	CBC06D34			
NUT JOINT	manifold code insulation code	C02D34GR	C03D34GR	C04D34GR	C05D34GR	C06D34GR			
1"		CBC02D34	CBC03D34	CBC04D34	CBC05D34	CBC06D34			

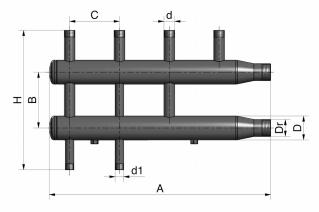




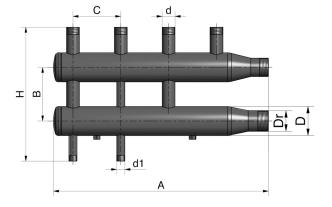
DIACOL 125	DUAL OPPOSED								
zones n.		2 + 1	2 + 2	3 + 1	3 + 2	3 + 3	4 + 1	4 + 2	5 + 1
THREAD JOINT	manifold code insulation code	C21D01	C22D01	C31D01	C32D01	C33D01	C41D01	C42D01	C51D01
1" M		CBC21D01	CBC22D01	CBC31D01	CBC32D01	CBC33D01	CBC41D01	CBC42D01	CBC51D01
NUT JOINT	manifold code insulation code	C21D01GR	C22D01GR	C31D01GR	C32D01GR	C33D01GR	C41D01GR	C42D01GR	C51D01GR
1"1/4		CBC21D01	CBC22D01	CBC31D01	CBC32D01	CBC33D01	CBC41D01	CBC42D01	CBC51D01
THREAD JOINT	manifold code insulation code	C21D34	C22D34	C31D34	C32D34	C33D34	C41D34	C42D34	C51D34
3/4" M		CBC21D34	CBC22D34	CBC31D34	CBC32D34	CBC33D34	CBC41D34	CBC42D34	CBC51D34
NUT JOINT	manifold code insulation code	C21D34GR	C22D34GR	C31D34GR	C32D34GR	C33D34GR	C41D34GR	C42D34GR	C51D34GR
1" M		CBC21D34	CBC22D34	CBC31D34	CBC32D34	CBC33D34	CBC41D34	CBC42D34	CBC51D34

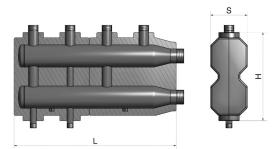
#### **OVERALL SIZE**

With threaded male outlet R 3/4" or with female nut G 1"



With threaded male outlet R 1" or with female nut G 1"1/4





	ZONES	Α	В	С	Н	D	Dr	d	d1	WEIGHT
	2	555	140	125	350	2"	R1"1/4	3/4"	1/2"	9 Kg
	3	805	140	125	350	2"	R1"1/4	3/4"	1/2"	13 Kg
A	4	1055	140	125	350	2"	R1"1/4	3/4"	1/2"	17 Kg
כ	5	1305	140	125	350	2"	R1"1/4	3/4"	1/2"	21 Kg
ŏ	6	1555	140	125	350	2"	R1"1/4	3/4"	1/2"	25 Kg
	ZONES	Α	В	С	Н	D	Dr	d	d1	WEIGHT
n										
	2+1	555	140	125	350	2"	R1"1/4	3/4"	3/4"	9 Kg
0	2+2	555	140	125	350	2"	R1"1/4	3/4"	3/4"	9 Kg
Ŋ.	3+1	805	140	125	350	2"	R1"1/4	3/4"	3/4"	13 Kg
	3+2	805	140	125	350	2"	R1"1/4	3/4"	3/4"	13 Kg
0	3+3	805	140	125	350	2"	R1"1/4	3/4"	3/4"	14 Kg
<b>P</b>	4+1	1055	140	125	350	2"	R1"1/4	3/4"	3/4"	17 Kg
כ	4+2	1055	140	125	350	2"	R1"1/4	3/4"	3/4"	18 Kg
Ō	5+1	1305	140	125	350	2"	R1"1/4	3/4"	3/4"	22 Kg

	ZONES	Α	В	С	Н	D	Dr	d	d1	WEIGHT
	2	562	140	125	350	2"1/2	R1"1/2	1"	1/2"	10 Kg
	3	812	140	125	350	2"1/2	R1"1/2	1"	1/2"	14 Kg
4	4	1062	140	125	350	2"1/2	R1"1/2	1"	1/2"	18 Kg
4	5	1312	140	125	350	2"1/2	R1"1/2	1"	1/2"	23 Kg
ă	6	1562	140	125	350	2"1/2	R1"1/2	1"	1/2"	27 Kg
	ZONES	Α	В	С	Н	D	Dr	d	d1	WEIGHT
	2+1	562	140	125	350	2"1/2	R1"1/2	1"	1"	10 Kg
Ш	2+2	562	140	125	350	2"1/2	R1"1/2	1"	1"	11 Kg
Q	3+1	812	140	125	350	2"1/2	R1"1/2	1"	1"	14 Kg
	3+2	812	140	125	350	2"1/2	R1"1/2	1"	1"	15 Kg
ō	3+3	812	140	125	350	2"1/2	R1"1/2	1"	1"	16 Kg
Ļ	4+1	1062	140	125	350	2"1/2	R1"1/2	1"	1"	19 Kg
A	4+2	1062	140	125	350	2"1/2	R1"1/2	1"	1"	20 Kg
ă	5+1	1312	140	125	350	2"1/2	R1"1/2	1"	1"	24 Kg

ZONES	L	Н	S
2	555	300	123
3	805	300	123
4	1055	300	123
5	1305	300	123
6	1555	300	123

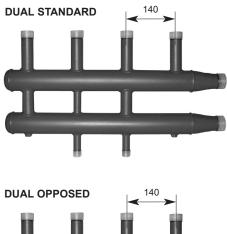
THE SIZE OF THE OPPOSED VERSIONS REMAINS UNCHANGED

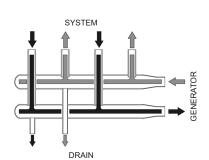


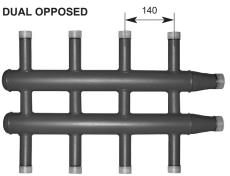
## USE

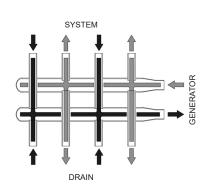
**Diacol 140** manifolds are specifically used in:

- zone heating/cooling systems
- systems using alternative energy
- industrial systems using hot and cold fluids









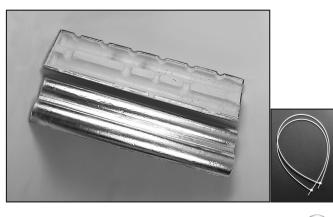
# Diacol 140 TECHNICAL FEATURES

- Maximum fluid temperature: 90°C
- Minimum fluid temperature: 5°C
- Maximum fluid pressure: 5 bar
- Material: carbon steel EN10255
- Paint: water-based primer, red

## **NSULATION TECHNICAL FEATURES**

 In B2 fireproof polyurethane (density 70+80 Kg/m<sup>3</sup>) Supplied with special straps, for a simple and easy mounting.

Available for standard dual model only.





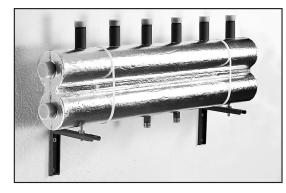
## ACCESSORIES

#### FIXING KIT • Code KSC1

Made of two painted steel support brackets with slots, in order to simplify the assembling, two threaded bars M10, four nuts and four expansion bolts Ø 10 x 80 mm for a safe wall anchoring.



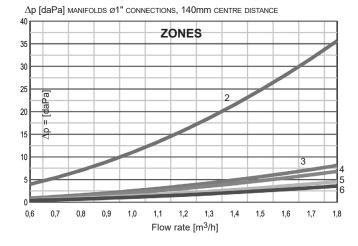
## EXAMPLE OF MANIFOLD PROVIDED WITH INSULATION AND FIXING KIT



# HYDRAULIC FEATURES

#### Diacol 140 • Ø 1"

ZONES	Kv [m³/h]
2	30,15
3	63,25
4	69,01
5	84,52
6	95,35



Kv = flow rate coefficient [m<sup>3</sup>/h]

 $\Delta p$  = pressure drop = (Q/Kv)<sup>2</sup> [bar]



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



# RATED POWER TABLE FOR EACH ZONE

	Evaluation of the available power with different tube diameters (shunted)										
	Liquid water - glycol percentage 20%										
Ø Offtake	Ø Offtake   Flow rate   Available power										
		Radiators with thermostatic valves (high thermal gradient)	Radiators with thermostatic valves (high thermal gradient)	Fan coils or radiators without thermostatic valves	Radiant panels, fan coils or batteries for the summer season						
		thermal gradient 30°C	thermal gradient 20°C	thermal gradient 10°C	thermal gradient 5°C						
(inches)	[l/h]	[kW]	[kW]	[kW]	[kW]						
1"	1200	41,8	27,9	13,9	6,9						

## VERSIONS

DIACOL 140	DUAL						
zones n.		2	3	4	5	6	
THREAD JOINT 1" M	manifold code insulation code	C2T CBC2T	C3T CBC3T	C4T CBC4T	C5T CBC5T	C6T CBC6T	

DIACOL 140	DUAL OPPOSED								
zones n.		2 + 1	2 + 2	3 + 1	3 + 2	3 + 3	4 + 1	4 + 2	5 + 1
THREAD JOINT 1" M	manifold code insulation code	C21T -	C22T —	C31T —	C32T —	C33T —	C41T —	C42T —	C51T —

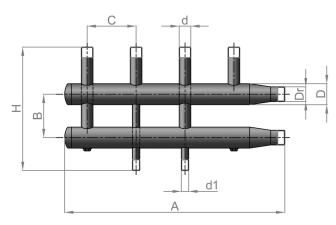


# comparato.com

COMPARATO NELLO s.r.l.

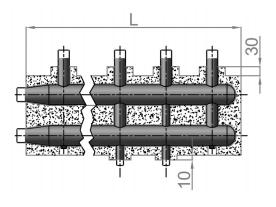


# OVERALL SIZE

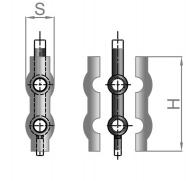


	ZONES	Α	В	С	Н	D	Dr	d	d1	WEIGHT
Ц Д	0	<u> </u>	101	140	050	0"	D4"4/4	4.11	4/01	0.14
ANA	2	630	124	140	353	2"	R1"1/4	1"	1/2"	8 Kg
ح .	3	922	124	140	369	2"1/2	R1"1/2	1"	1/2"	13 Kg
2	4	1277	160	140	419	3"	R1"1/2	1"	1/2"	22 Kg
H	5	1540	160	140	419	3"	R2"	1"	1/2"	28 Kg
	6	1820	160	140	419	3"	R2"	1"	1/2"	35 Kg
	ZONES	A	B	C	Н	D	Dr	d	d1	WEIGHT
_										
	2+1	642	124	140	410	2"1/2	R1"1/2	1"	1"	12 Kg
	2+2	700	160	140	460	3"	R1"1/2	1"	1"	15 Kg
Ľ	3+1	980	160	140	460	3"	R1"1/2	1"	1"	19 Kg
	3+2	980	160	140	460	3"	R2"	1"	1"	20 Kg
	3+3	980	160	140	460	3"	R2"	1"	1"	21 Kg
	4+1	1260	160	140	460	3"	R2"	1"	1"	24 Kg
	4+2	1260	160	140	460	3"	R2"	1"	1"	25 Kg
ΰŭ	5+1	1540	160	140	460	3"	R2"	1"	1"	29 Kg

## INSULATION OVERALL SIZE



ZONES	L	Н	S
2	615	230	110
3	900	245	120
4	1255	300	135
5	1530	310	165
6	1810	315	165

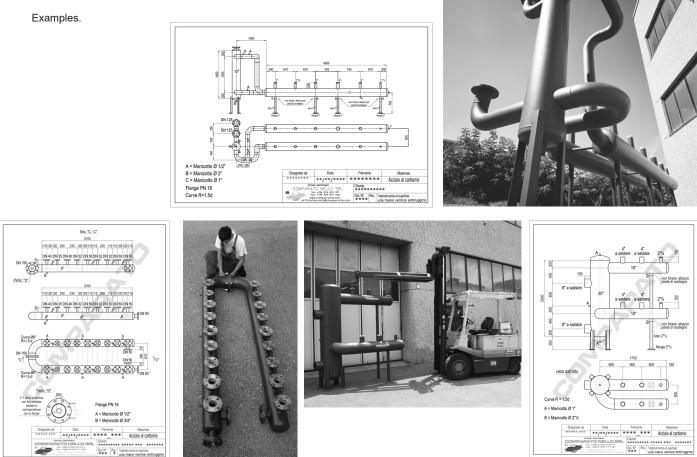






## SPECIAL MANIFOLDS

Iron and stainless steel manifolds are available on request with non-standard measures, according to the customer's drawings.



## **EXAMPLE OF DIACOL 125 SPECIFICATIONS**

**DIACOL 125** 3-zone dual manifold, 125mm centre distance with 1" M threaded connections, 1"1/2 M generator connections, 90°C maximum temperature, 5°C minimum temperature, 5 bar maximum pressure, EN10255 carbon steel material, red water-based primer coating.

Brand: COMPARATO Code: C03D01

#### **EXAMPLE OF DIACOL 140 SPECIFICATIONS**

**DIACOL 140** 3-zone dual manifold, 140mm centre distance with 1" M threaded connections, 1"1/2 M generator connections, 90°C maximum temperature, 5°C minimum temperature, 5 bar maximum pressure, EN10255 carbon steel material, red water-based primer coating.

Brand: COMPARATO Code: C3T

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