

# Diacol

BOILER MANIFOLDS FOR THERMAL STATION

## USE:

**Diacol** manifolds have their specific use in:

- zone heating systems
- systems that make use of alternative energy
- industrial systems in general using hot and cold fluids

STANDARD MANIFOLD



MANIFOLD WITH  
OPPOSED CONNECTIONS



## MODELS

**Diacol** manifolds are available in versions:

- **STANDARD** with 2, 3, 4, 5, 6 zones  $\varnothing$  1" connections  $\varnothing$  1/2" for eventual system blowdown included
- **WITH OPPOSED CONNECTIONS** with 2+1, 2+2, 3+1, 3+2, 3+3, 4+1, 4+2, 5+1 zones  $\varnothing$  1"

**Diacol** manifolds have:

- male threaded attachments
- two M10 nuts for bracket fixture
- special water resistant anti-rust paint
- thread protection caps

## ACCESSORIES FOR STANDARD MODELS ON REQUEST

- shell insulation using fire-resistant polyurethane (B2) density  $70 \div 80 \text{ Kg/m}^3$
- fixture kits consisting of slotted support brackets, pegs and nuts and bolts

## TECHNICAL FEATURES

Maximum temperature of the fluid: 90°

Maximum pressure of the fluid: 5 bar



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QUALITY SYSTEMS CERTIFIED UNI EN ISO 9001: 2000

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## INSULATION AND ACCESSORIES

It is possible to install all the **Diacol STANDARD** collectors on the wall using the special **FIXTURE KIT** insulating them with the specific **SHELL INSULATION** system

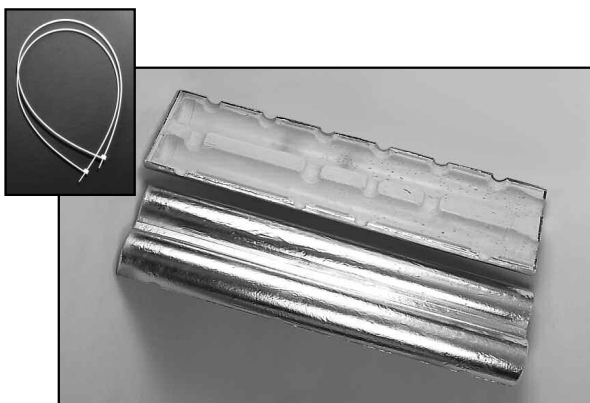
### FIXING KIT

Consisting of two slotted varnished steel support brackets to facilitate assembly, and two M10 threaded column section, four M10 nuts and four pegs with a diam. of 10x80 mm for secure wall fixture.

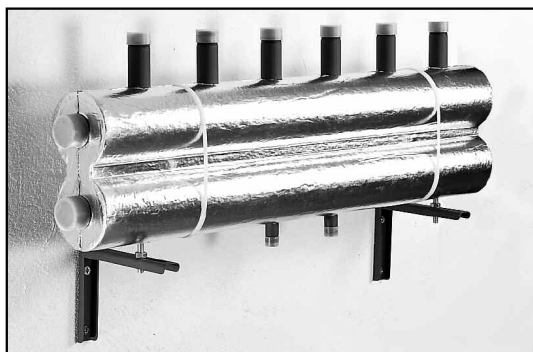


### SHELL INSULATION

Made of polyurethan fire-retardant B2 (density 70÷80 Kg/m<sup>3</sup>) with suitable clips, for a simple and easy assembling.



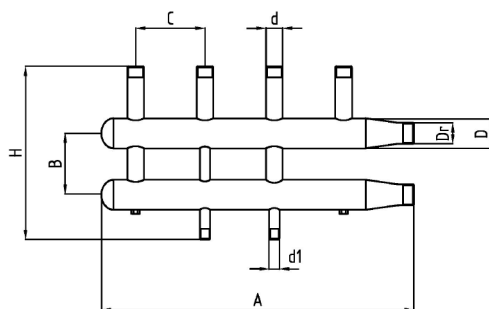
### Diacol MANIFOLD WITH INSULATION AND FIXING KIT



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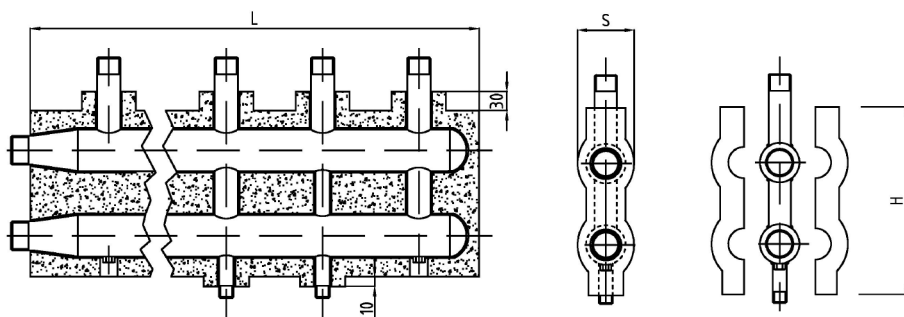
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## OVERALL DIMENSIONS



ZONES	A	B	C	H	D	Dr	d	d1	WEIGHT
2	630	124	140	353	2"	1"1/4	1"	1/2"	8 Kg
3	922	124	140	369	2"1/2	1"1/2	1"	1/2"	13 Kg
4	1277	160	140	419	3"	1"1/2	1"	1/2"	22 Kg
5	1540	160	140	419	3"	2"	1"	1/2"	28 Kg
6	1820	160	140	419	3"	2"	1"	1/2"	35 Kg
2+1	642	124	140	410	2"1/2	1"1/2	1"	1"	12 Kg
2+2	700	160	140	460	3"	1"1/2	1"	1"	15 Kg
3+1	980	160	140	460	3"	1"1/2	1"	1"	19 Kg
3+2	980	160	140	460	3"	2"	1"	1"	20 Kg
3+3	980	160	140	460	3"	2"	1"	1"	21 Kg
4+1	1260	160	140	460	3"	2"	1"	1"	24 Kg
4+2	1260	160	140	460	3"	2"	1"	1"	25 Kg
5+1	1540	160	140	460	3"	2"	1"	1"	29 Kg

## INSULATION OVERALL DIMENSIONS



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

## COEFFICIENTS OF CHARGE LOSS

ZONES	k1	k2
2	$1,1 \times 10^{-5}$	300
3	$2,5 \times 10^{-6}$	630
4	$2,1 \times 10^{-6}$	690
5	$1,4 \times 10^{-6}$	850
6	$1,1 \times 10^{-6}$	950

where:  $\Delta p = k_1 \times Q^2 / Q = k_2 \times \sqrt{\Delta p}$   
 $\Delta p$  = charge loss in daPA  
 Q = rate in kg/h



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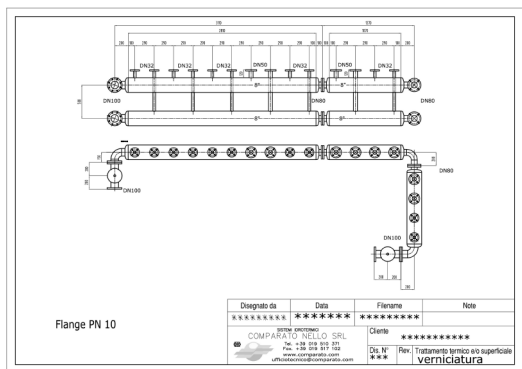
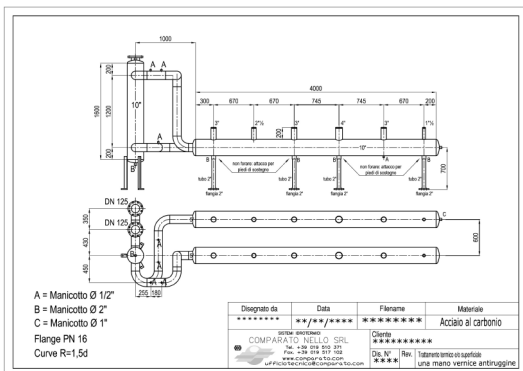
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### SPECIAL MANIFOLDS

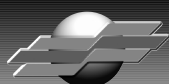
Iron manifolds with different measures respect standard ones are made on request.

Some examples.



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