



mixing & heat transfer

MODEL D SHELL & TUBE HEAT EXCHANGER

High-Performance Construction

The Model D offers a roster of capabilities to meet high-corrosion, high pressure, full vacuum, high temperature process needs effectively. It can cope with the most stringent demands for product purity, process versatility and ease of maintenance.

At the heart of its toughness and versatility is a steel reinforced, glass filled TFE tube sheet. The tube sheet underlies the Model D's differential pressure capability of 90 psig with process temperatures in excess of 300°F.

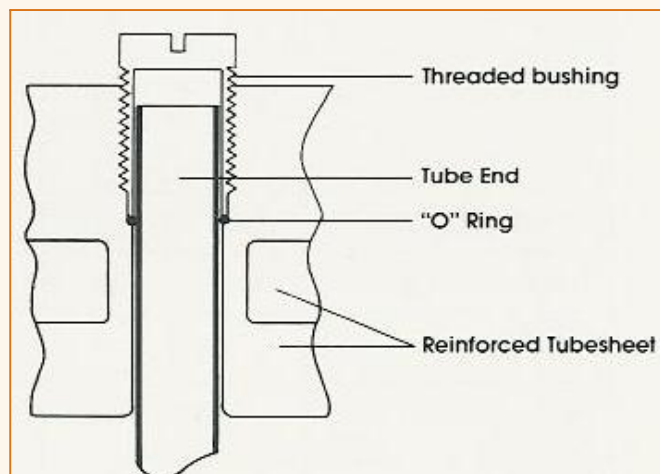
It is available in models ranging from 40 to 505 sq. ft. of heat transfer. Standard units are equipped with a carbon steel shell, glass tubes, PTFE baffles, and individual tube seals. Single-, double- or triple pass designs are available. Bonnets, shell and tubes can be provided to customer material specifications.



The Model D Sealing Mechanism

The model D features individual tube seals. By tightening the PTFE bushing the "O" ring is compressed forming the tube seal. This allows an extremely reliable seal and simple replacement or plugging of tubes from the end.

Maximum Operating Temperature	DN 6 - DN12 DN18	350°F 350°F
Maximum Operating Pressure	DN 6 - DN 12 DN 18	75 psig 60 psig
Maximum Thermal Shock	All Sizes	162°F



Options for Materials of Construction

Shell and Bonnets	Stainless Steel Enamelled Steel
Tubes	SiC Exotic Metals Quartz Glass

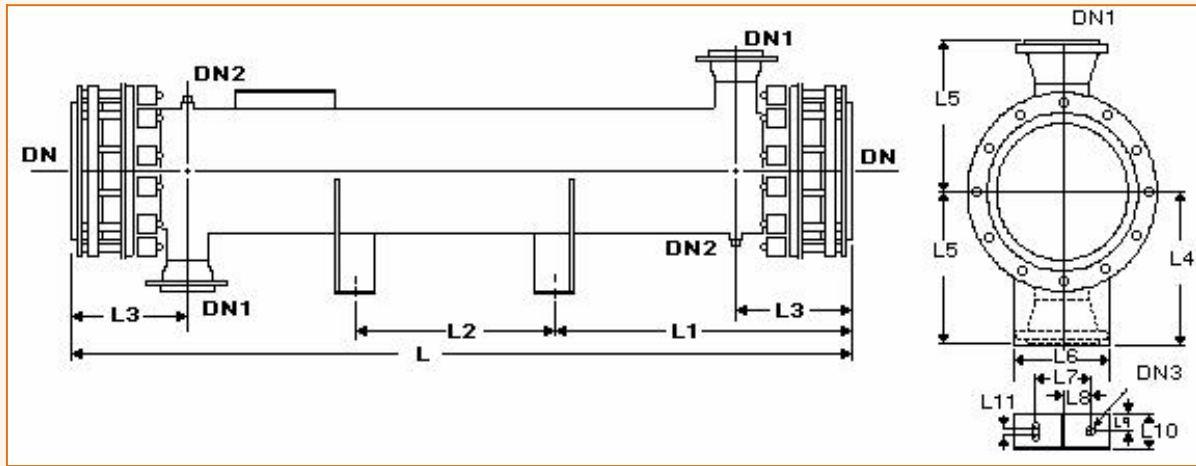
For More Information

Contact by phone...800-722-2405
Contact by fax...908-889-4954
Contact by e-mail...sales@ddpsinc.com



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Dimensions (in)	MDH 6/40	MDH 6/68	MDH 8/68	MDH 8/91	MDH 8/110	MDH 10/138	MDH 10/168	MDH 12/230	MDH 12/280	MDH 18/315	MDH 18/505
L	101 1/4	160 5/16	101 13/16	133 5/16	160 7/8	133 5/16	160 7/8	133 5/16	160 7/8	103	162 1/8
L1	23 3/4	37 3/4	24	31	38	31	38	31	38	29 7/8	38 5/8
L2	53 13/16	84 7/8	53 13/16	71 5/16	84 7/8	71 5/16	84 7/8	71 5/16	84 7/8	43 1/4	84 7/8
L3	8 5/16		9 5/8			10 1/2		10 1/2		19 1/4	
L4	8		9			12		12		15 1/2	
L5	7 1/2		8 1/2			11 1/2		11 1/2		15	
L6	6		6 1/2			10		10		16	
L7	3		3 1/2			6		6		12	
L8	1 1/2		1 3/4			3		3		6	
L9	2		2			2		2		3	
L10	4		4			4		4		6	
L11	1/2		1/2			1/2		1/2		1/2	
DN	6		8			10		12		18	
DN1	2		3			4		4		6	
DN2	3/4		3/4			3/4		3/4		3/4	
DN3	3/4		3/4			1		1		1	
Heat Transfer Area ft ²	40	68	68	91	110	138	168	230	280	315	505
Number of Tubes	36	36	60	60	60	90	90	150	150	276	276

244 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
FAX 908-889-4960

908-317-2585
WWW.DDPSINC.COM
EMAIL SALES@DDPSINC.COM

9110 FORSYTH PARK DRIVE
CHARLOTTE NC 28273
FAX 908-889 4960