

# BOWMAN®

## IN LINE PLATE HEAT EXCHANGERS

**Bowman In Line Plate Heat Exchangers** consist of numerous 316 stainless steel heat transfer plates, two outer covers and four connections copper vacuum brazed together to form an integral unit.

Unlike other plate heat exchangers, they have a unique flow arrangement which enables the inlet and outlet connections to be axially in line. This means that they can be installed directly in pipe work without any change of direction.

Each fluid stream flows in a series through alternate plates. As a consequence the plate spacing is larger and internal velocities are higher than normally the case with this type of heat exchanger, thus rendering them less prone to fouling.

These heat exchangers are suitable for heating and cooling fluids that are compatible with the materials of construction, the optimum unit for any duty can be computer selected by telephone in a matter of minutes.

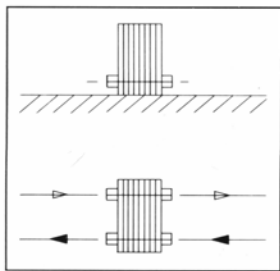


Fig. 1.

Fig. 3.

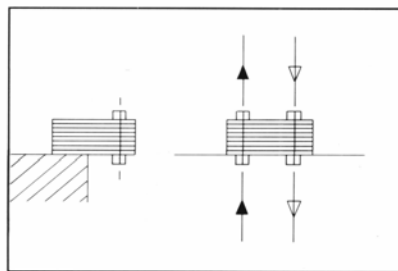
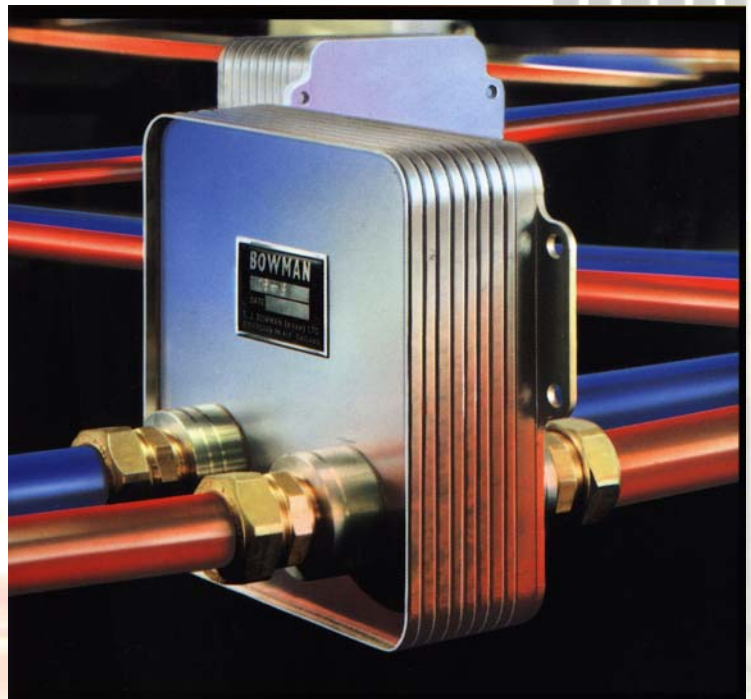
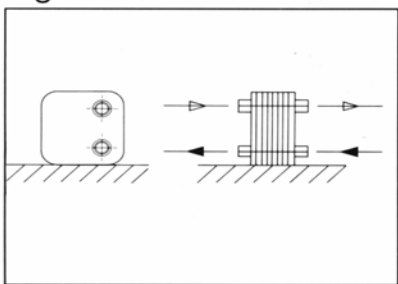
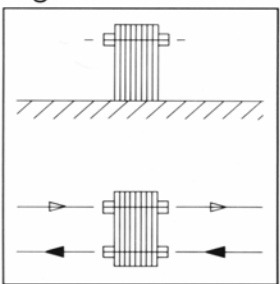


Fig. 2.

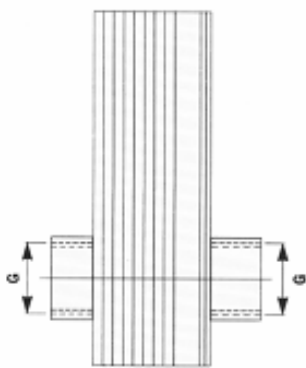
Fig. 4.



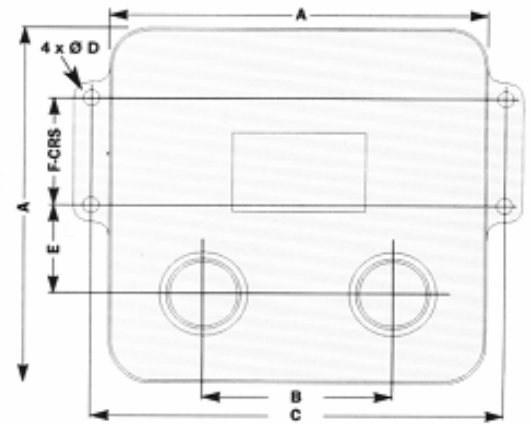
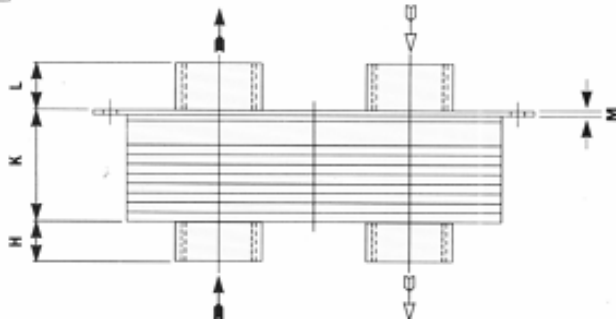
The in line plate heat exchanger should be mounted as shown above. The direction and side through which any fluid flows does not matter, but they must be connected for counter flow.



Type Type Typ Tipo	<b><u>Dimensions &amp; Technical Specifications</u></b>											Weight Poids Gewicht Peso	Volume per side Volume par Cote en Volumen pro Seite Volumen por lado
	A mm	B mm	C mm	D mm	E mm	F mm	G BSP	H mm	K mm	L mm	M mm	kg	litre
10-5	106	50	—	—	25	—	½"	11	24	16	3	0.8	0.05
10-9	106	50	—	—	25	—	½"	11	37	16	3	0.9	0.11
10-13	106	50	—	—	25	—	½"	11	50	16	3	1.1	0.16
10-17	106	50	—	—	25	—	½"	11	63	16	3	1.2	0.21
10-21	106	50	—	—	25	—	½"	11	76	16	3	1.3	0.26
10-29	106	50	—	—	25	—	½"	11	103	16	3	2.0	0.37
15-5	159	75	165	7	37.5	45	¾"	12	34	20	4	2.5	0.18
15-9	159	75	165	7	37.5	45	¾"	12	54	20	4	2.9	0.36
15-13	159	75	165	7	37.5	45	¾"	12	74	20	4	3.3	5.54
15-17	159	75	165	7	37.5	45	¾"	12	94	20	4	3.7	0.72
15-21	159	75	165	7	37.5	45	¾"	12	112	20	4	4.1	0.90
15-29	159	75	165	7	37.5	45	¾"	12	152	20	4	5.0	1.27
20-5	212	100	220	7	50	60	1"	12	45	24	5	5.4	0.44
20-9	212	100	220	7	50	60	1"	12	71	24	5	6.1	0.88
20-13	212	100	220	7	50	60	1"	12	97	24	5	6.8	1.32
20-17	212	100	220	7	50	60	1"	12	123	24	5	7.6	1.76
20-21	212	100	220	7	50	60	1"	12	149	24	5	8.4	2.20
20-29	212	100	220	7	50	60	1"	12	201	24	5	10.2	3.08



Unique flow arrangement enables Inlet & Outlet flow to be inline without any change of flow direction.



Maximum working pressure	6 bar	Maximum working temperature	185°C
Pression de service maximale	6 bar	Température de service maximale	185°C
Maximaler Betriebsdruck	6 bar	Maximale Betriebstemperatur	185°C
Presión máxima de trabajo	6 bar	Temperatura máxima de trabajo	185°C