

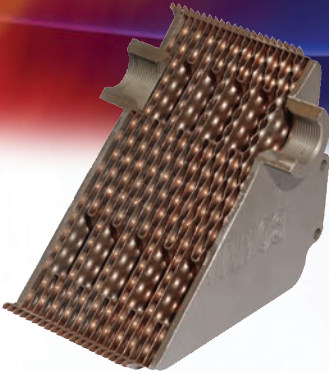
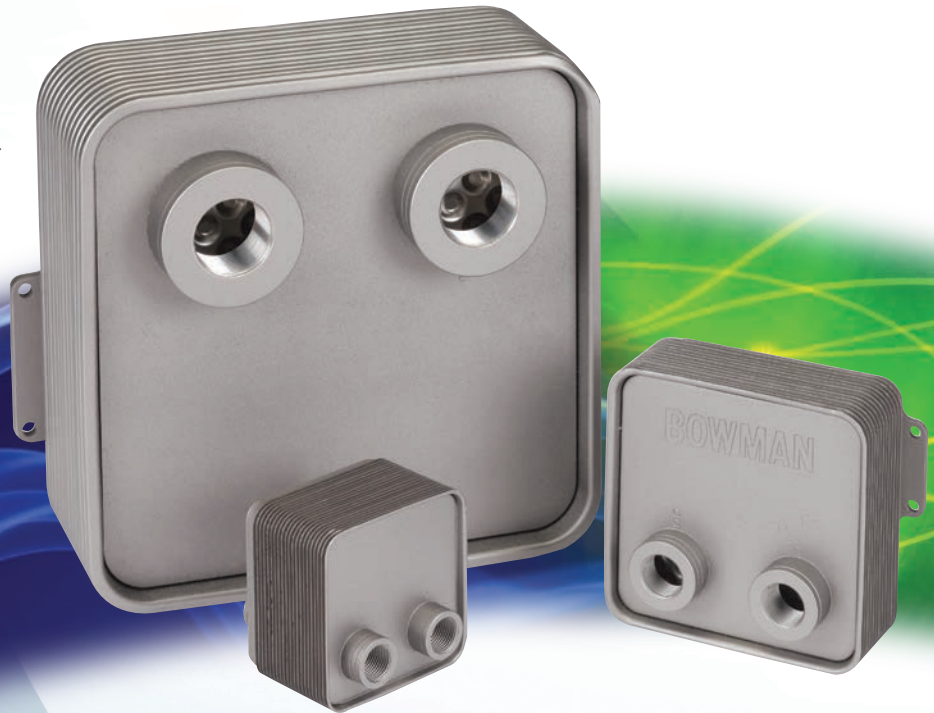
Non-Storage Calorifiers

The compact, high efficiency, indirect water heating solution

Bowman stainless steel Non-storage Calorifiers provide a simple, but highly efficient method of transferring heat from one independent, low pressure water circuit to another.

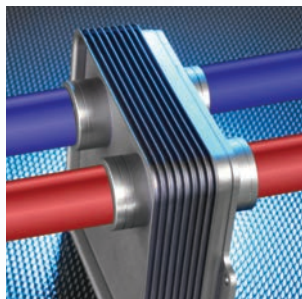
Compact design

Comprising a series of stainless steel heat transfer plates, plus two outer covers vacuum-brazed together into an integral unit, these heat exchangers can be pump assisted, reducing the required surface area to around 25% less than that required by conventional storage Calorifiers



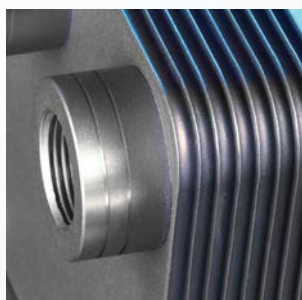
High efficiency heat transfer

Bowman Non-storage Calorifiers feature uniquely designed, internal baffle plates that create a water flow arrangement which ensures both fluid streams circulate throughout the internal chambers of the heat exchanger, providing the most thermally efficient transfer between circuits.



Easy in-line installation

The unique design of the internal water flow arrangement enables the inlet and outlet connections to be axially inline, so the unit fits simply and neatly into pipework. For new installations, this feature plus the units compact design can provide substantial space and cost savings.

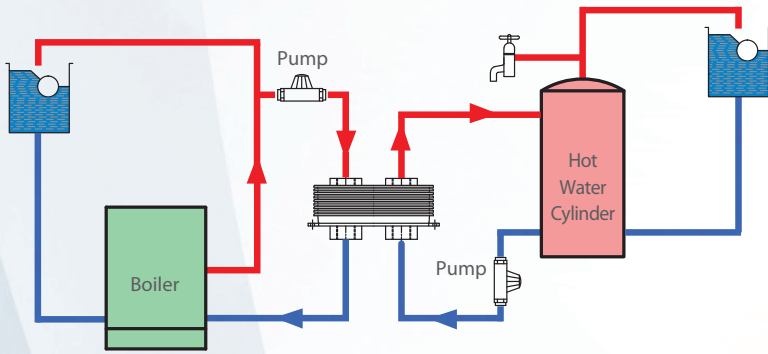


High quality construction

Manufactured from high quality 316 stainless steel, to Bowman's renowned standards, these neat, compact Non-storage Calorifiers provide a high quality solution for high efficiency heat transfer.

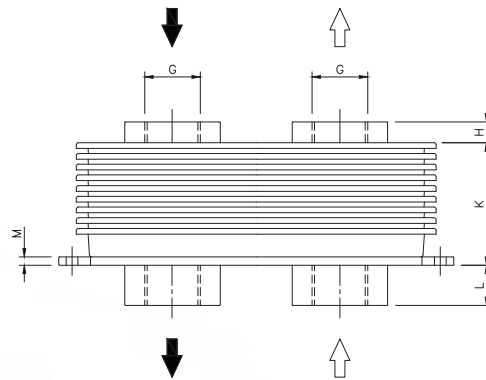
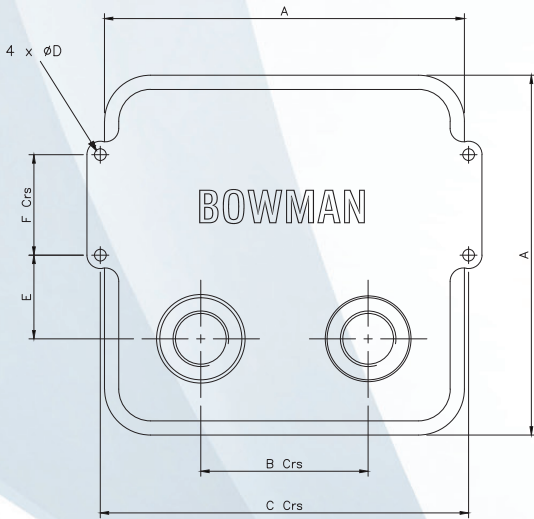
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New and refurb installations

Bowman Non-storage Calorifiers are ideal for installations where an existing heating system is being upgraded with a new, independent primary heat source which, for operational requirements, must be kept separate from the original circuit.



Type	Weight kg	Dimensions										
		A mm	B mm	C mm	D mm	E mm	F mm	G BSP	H mm	K mm	L mm	M mm
10 – 13	1.1	106	50	-	-	25	-	1/2"	11	50	16	-
15 – 13	3.3	159	75	165	7	37.5	45	3/4"	12	74	20	4
15 – 17	3.7	159	75	165	7	37.5	45	3/4"	12	94	20	4
20 – 17	7.6	212	100	220	7	50	60	1"	12	123	24	5
25 – 29	18.8	265	125	275	9	62.5	75	1 1/4"	15	249	28	6

Typical performance of non-storage calorifiers based on a boiler water flow of 82°C (180°F) and return of 65°C (150°F) with a cold water inlet of 10°C (50°F) heated to 60°C (140°F).

Type	Technical Specifications					
	Boiler water pump flow	Head Loss	Secondary water pump flow	Head Loss	Heat Transfer	Volume of water heated from 10°C to 60°C per hour
	l/min	kPa	l/min	kPa	kW	litre
10 – 13	12	18	12	20	15	260
15 – 13	20	10	20	11	25	430
15 – 17	30	28	30	30	42	720
20 – 17	40	16	40	17	60	1000
20 – 17	55	28	55	30	70	1200
25 – 29	65	29	65	30	153	2500

Maximum working pressure 6 bar. Maximum working temperature 110°C

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