

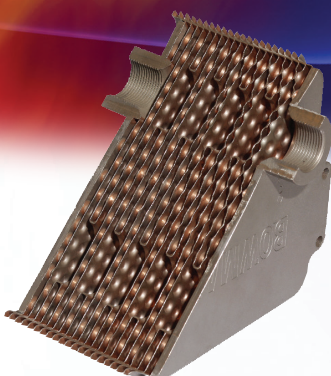
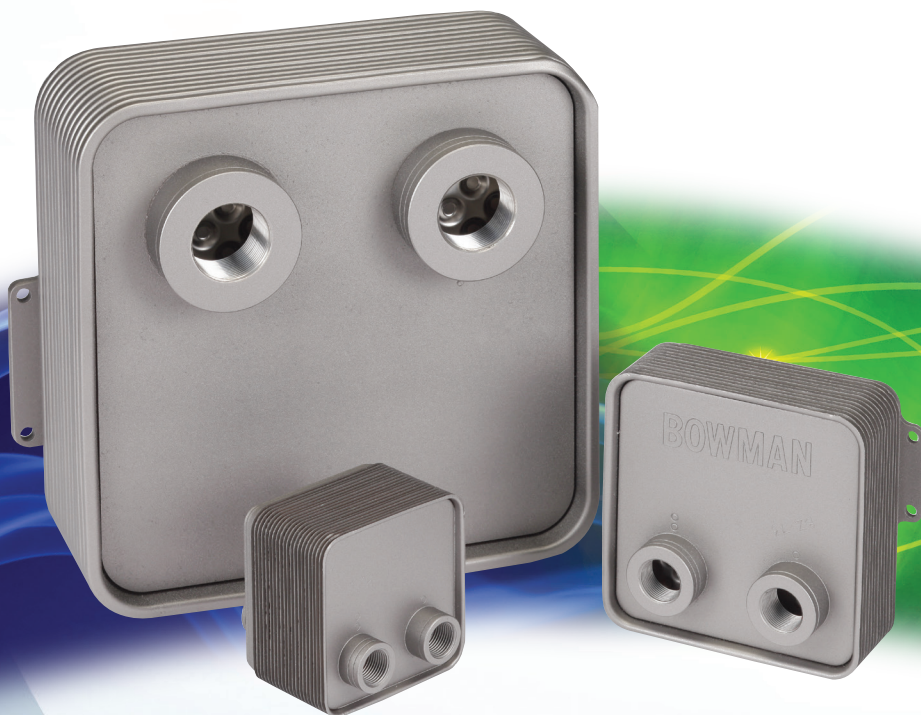
# Non-Storage Calorifiers

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 low pressure water circuit to another.

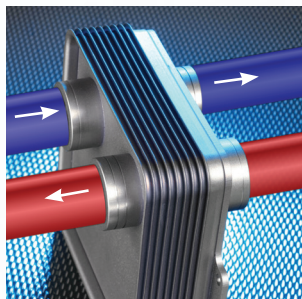
## Compact design

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



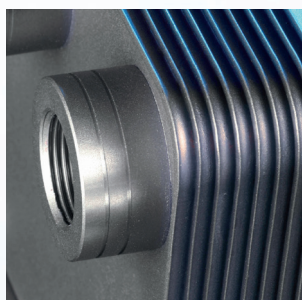
## High efficiency heat transfer

Bowman Non-storage Calorifiers feature uniquely designed plates with a water flow arrangement which ensures both fluid streams circulate through the internal passages of the heat exchanger, providing efficient heat transfer.



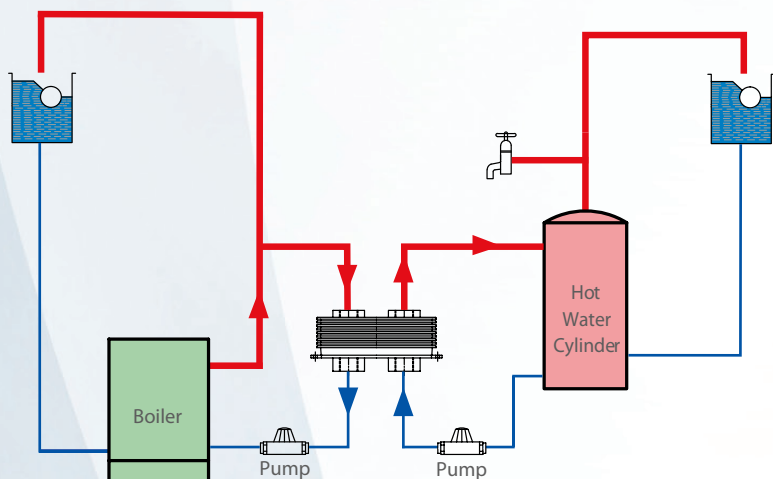
## Easy in-line installation

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 unit's compact design can provide substantial space and cost savings.



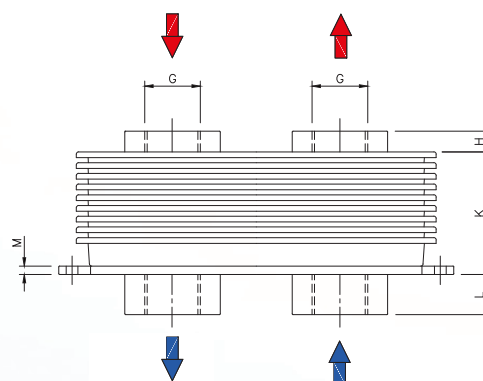
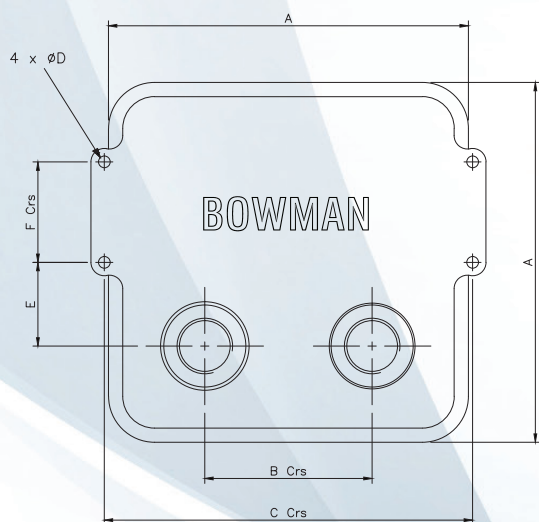
## High quality construction

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



## New and existing installations

Bowman Non-storage Calorifiers are suitable for a new installation or where an existing system is being upgraded.



Type	Weight kg	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	-	½"	11	50	16	3
15 – 13	3.3	158	75	165	7	37.5	45	¾"	12	74	20	4
15 – 17	3.7	158	75	165	7	37.5	45	¾"	12	94	20	4
20 – 17	7.6	215	100	220	7	50	60	1"	12	118	24	5

Typical performance of non-storage calorifiers based on a boiler water flow of 82°C and return of 65°C with a cold water inlet of 10°C heated to 60°C.

Type	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

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

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