

DC Oil Coolers

Compact, efficient oil cooling

Heat Transfer Technology from Bowman



BOWMAN[®]

100 YEARS OF HEAT TRANSFER TECHNOLOGY

DC Oil Coolers

Compact, efficient transmission cooling

The DC provides renowned Bowman quality and reliability, in a compact oil cooler that is suitable for cooling transmissions rated up to 180kW, with up to 30 bar oil pressure.

Using the same size tubes as Bowman's larger oil coolers, the body is nickel finished solid brass, with neoprene end covers, for durability.

Compact design

Easily integrated into new or existing installations where space may be at a premium

Premium quality

UK manufactured using quality components

Wide range

40 different model variants in terms of body size and end cover style/size

High performance

Suitable for applications rated up to 180 kW

Easy product selection

Available quickly from our technical experts

Rapid delivery

Extensive stockholding held for fast response



Performance

The DC oil cooler is a high quality, fully sealed unit, designed to reliably handle oil pressure of up to 30 bar efficiently, in applications where other units, typically assembled from differing materials, often fail.

Shell & Tube Design

The DC is a single pass oil cooler with the tube stack fixed inside the outer 'shell' of the unit. It uses specially designed baffles to provide efficient heat transfer from such a small unit.



Range

There's a choice of four oil port sizes, plus three seawater pipe sizes, with either in-line or right angle neoprene end covers. The DC oil cooler can also be supplied without end covers.

Easy to Maintain

The neoprene seawater connections are simple to install and easily removed using only a screwdriver for routine cleaning or maintenance.



Durability

The brass outer 'shell' is nickel plated to give a durable, aesthetic finish. The tube stack uses 90/10 cupro-nickel tubes – as used for Bowman's larger oil cooler range. There are literally hundreds of thousands of units in service, operating reliably and efficiently.

Quality

Bowman is a leading brand and its DC oil cooler has been manufactured in the UK for over 30 years. It is extensively proven in some of the toughest applications and most challenging operating environments throughout the world.

Product Selection Guide

DC oil cooler ordering codes consist of 4 elements - **DC60-XBB** for example

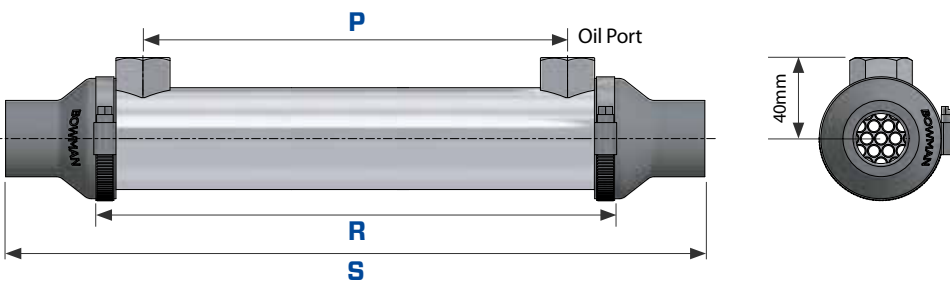
1: **DC60** = oil cooler size (240mm o/all length)

2: **X** = oil port size (3/8" BSP)

3: **B** = first end cover (straight, 28mm I/D)

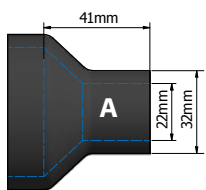
4: **B** = second end cover (straight, 28mm I/D)

If end covers are not required, omit the last two letters

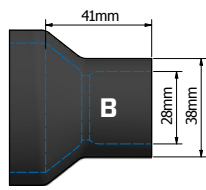


Oil Port	
X	3/8" BSP
Y	1/2" BSP
V	3/8" NPT
W	1/2" NPT

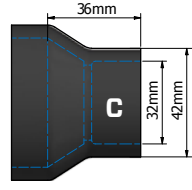
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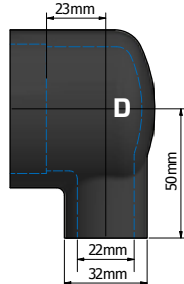
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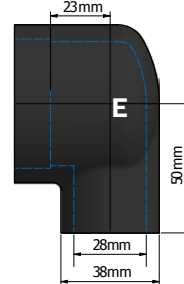
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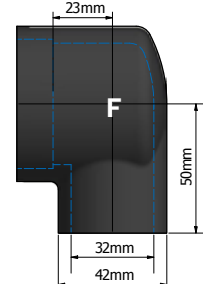
No.2680NP



No.3187NP



No.3716NP



DC Oil Coolers - Specifications

Type	Typical Gearbox Rating kW	Dimensions*			Oil Volume ml	Water Volume ml	Typical Oil Flow ml	Max. Seawater Flow/End Cover Type				Weight kg
		P mm	R mm	S mm				A & D l/min	B & E l/min	C & F l/min	None l/min	
DC50	50	69	123	205	80	160	10	60	90	120	180	0.9
DC60	80	104	158	240	105	200	10	60	90	120	180	1.1
DC90	140	178	232	314	160	240	15	60	90	120	180	1.3
DC120	180	260	314	396	200	325	15	60	90	120	180	1.7

Max. working oil pressure: 30 bar. Max. working water pressure: 2 bar. Max. working temperature: 125°C. *In-line end cover models.

Easy Product Selection

We have a computer aided programme available to select the correct oil cooler for your application. Please contact Bowman or your nearest stockist with the following information:

- Oil type or viscosity at a specific temperature
- Oil flow in l/min
- Required oil outlet temperature in °C
- Heat to be dissipated in kW
- Seawater temperature in °C
- Sea water flow in l/min

For larger size oil coolers, see our separate hydraulic oil cooler, or marine cooling brochures.



DC models for fuel cooling are also available. Contact our sales team for more information.

A world of applications

Bowman oil coolers have been selected for the most demanding applications on land or sea. The compact DC oil cooler range provides the traditional values of purchasing a genuine Bowman oil cooler, but in a compact unit that is easily integrated into the space available.



All Bowman heat exchangers and oil coolers are produced to the highest quality in our UK based manufacturing facility to ISO 9001:2015 standards. With over 100 years heat transfer experience, you can have complete confidence when you specify Bowman DC oil coolers.

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