

Large Capacity Independent Calorifiers

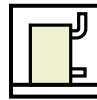
B 800 - 1000

Domestic hot water calorifiers B...	Tank	Exchanger
Maximum service temperature	95 °C	110 °C
Maximum service pressure	10 bar	12 bar

Service guaranteed



Domestic hot water



Usable with all models of boiler from a power rating of approx. 70 kW

1. Presentation

The B 800 and 1000 independent calorifiers are high performance calorifiers producing hot water for group housing as well as industrial or commercial premises.

A range of 2 calorifiers with a capacity of 800 to 1000 litres completes the B 150 to 500 range.

All the calorifiers in the B range are made of thick steel sheeting which can take a maximum domestic hot water service pressure of 10 bar. They are protected internally by vitrified enamel containing a high percentage of food quality quartz. This protection against corrosion is reinforced further by a Correx® applied current anode with an almost limitless life.

The casings of B 800 and 1000 calorifiers are made of rigid polyurethane foam shells using 0% CFCs, thus helping to protect the environment and reduce thermal deterioration to a minimum. This category M3 casing means that these calorifiers can be used in public buildings. It can be installed once the tank is installed and connected up. It is beige and grey, matching well with De Dietrich medium or high power boilers.

The lateral opening facilitates servicing and cleaning the device.



B 800-1000

2. The different models available

Model	Capacity (litres)	Power exchanged (kW) (1) for a primary output of 6 m ³ /h	Package N°	Weight	Field of application
B 800	780	151,2	AJ28 (tank) + AJ29 (casing)	396	High performance and large capacity: Group housing Tertiary Industry
B 1000	980	170,1	AJ30 (tank) + AJ31 (casing)	463	

(1) Temperature at primary input : 90°C - cold water input 10°C - hot water output 45°C

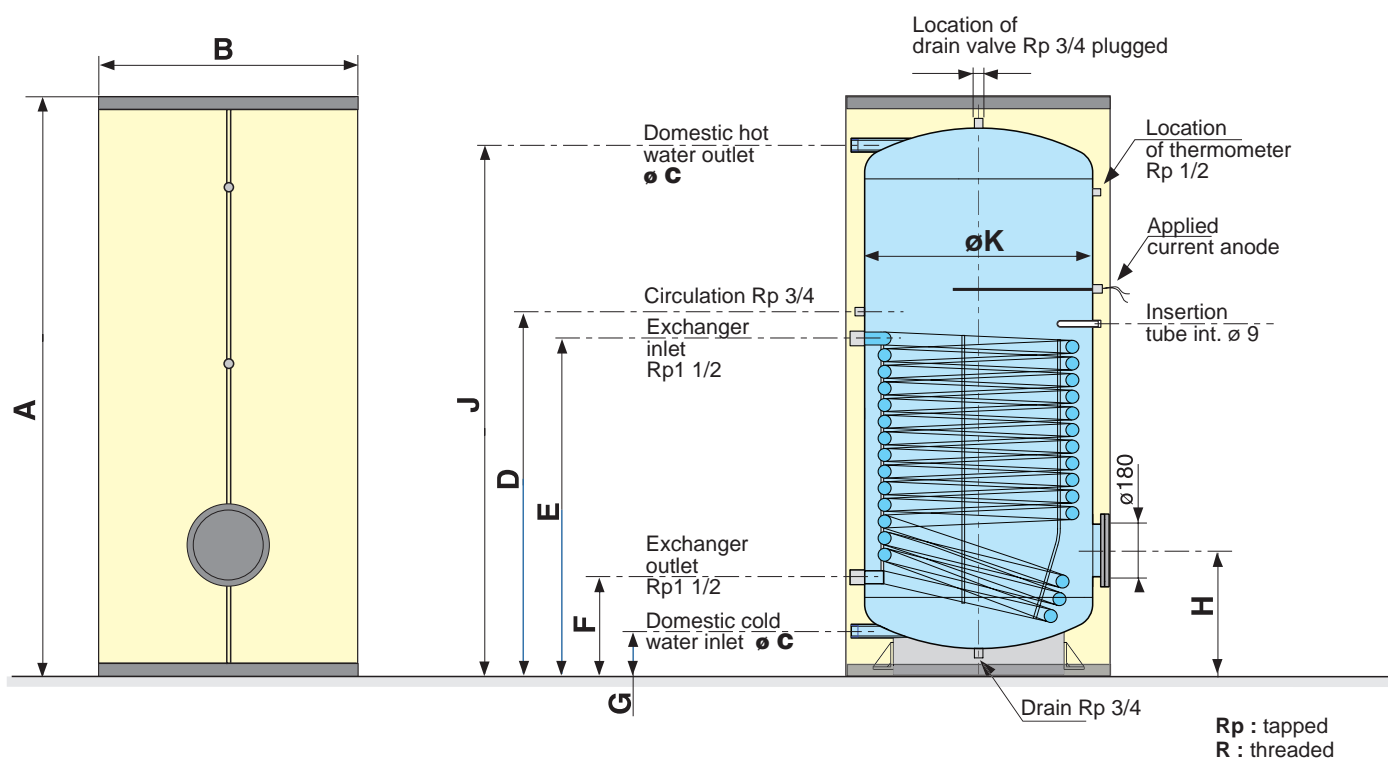
3. Characteristics of independent calorifiers B

Performance

Model	Capacity L	Exchanger capacity L	Exchanger area m ²	Primary output m ³ /h	Temperatu- re at prima- ry inlet °C	Temperatu- re at domestic outlet °C	Power exchanged 10°C-45°C kW	Continuous output 10°C-45°C L/h	Max. output over 10 min domestic hot water. 10°C-45°C storage at 60°C L/10 min	Loss of pressure mbar	Service consump- tion (1) kWh/24 h	Cooling constant Cr Wh/day KL
B 800	780	37,9	3,9	6	90	45	151,2	3720	1150	142	4,6	0,15
					80	45	120,0	2960				
					70	45	91,6	2260				
					55	45	45,1	1110				
B 1000	980	43,3	4,5	6	90	45	170,1	4190	1430	152	4,8	0,13
					80	45	135,0	3330				
					70	45	103,1	2540				
					55	45	50,8	1250				

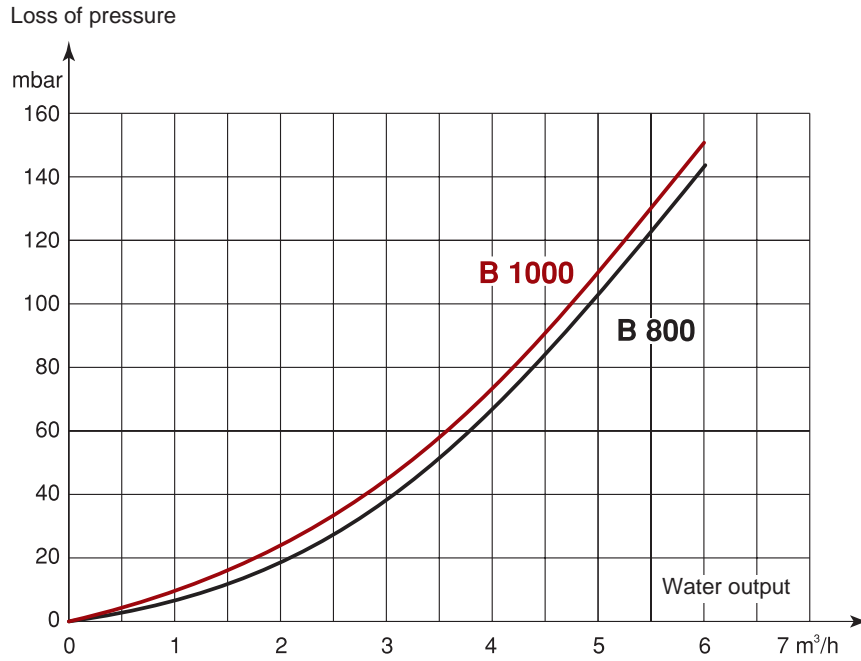
(1) Storage temperature: 65°C - Ambient temperature: 20°C

Principle Dimensions (in mm and inches)



Model	A	$\varnothing B$	$\varnothing C$	D	E	F	G	H	J	K
B 800	2180	920	Rp 1 1/4	1345	1245	355	152	455	2050	750
B 1000	2170	1040	Rp 1 1/2	1355	1255	365	162	465	1977	850

Loss of pressure as a function of the exchanger primary output

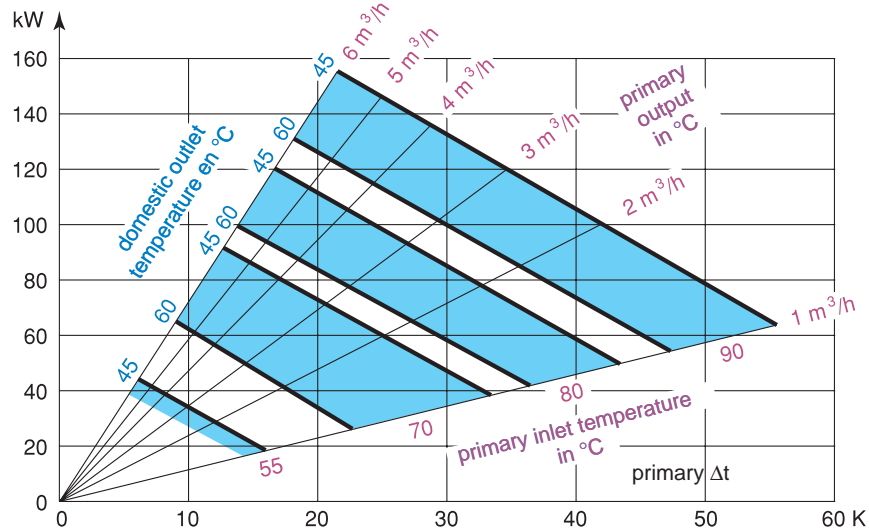


Continuous performances of calorifiers

The following diagrams give the continuous performance in kW as a function of Δt or primary output, or primary input and domestic hot water output temperatures (45°C to 60°C). Domestic cold water inlet temperature 10°C.

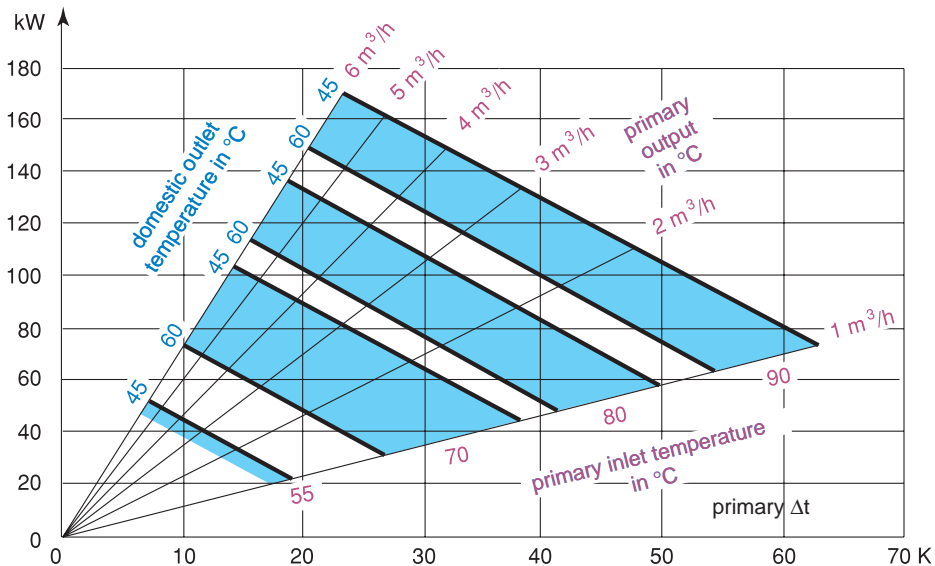
Continuous performance

B 800



Continuous performance

B 1000



4. Characteristics of options

- **Thermostat to control the feed pump**

package BL 6

This thermostat is used to regulate the temperature of the hot water when the boiler does not have a regulator or hot water priority module built-into the boiler panel and acting on the feed pump.

- **Electrical resistance**

package AJ 36 + AJ 37

The calorifiers can be optionally fitted with a 6 kW electrical resistance. This resistance consists of an Incoloy heating element and is fitted with a regulating thermostat and a safety thermostat.

- **Thermometer**

package AJ 32

Calorifiers B 800 and 1000 can be fitted with a thermometer available on option.

