

PulsaCoil BP

Hot water cylinder utilising off-peak electric with an optional solar version

S U P P L I E R S T O T H E M E R C H A N T T R A D E F O R O V E R 3 5 Y E A R S



**Mains pressure hot water with
NO DISCHARGE REQUIREMENT**

This product overcomes Part G Building Regulation discharge requirements for unvented cylinders

PulsaCoil BP

Gledhill Building Products, one of the UK's leading manufacturers of stainless steel and copper cylinders, has now developed the PulsaCoil BP. This thermal storage cylinder provides mains pressure hot water utilising off-peak electric and is specifically designed for use in new build apartments.

The PulsaCoil BP provides cost-effective, trouble-free installation and its advanced construction ensures long-life.

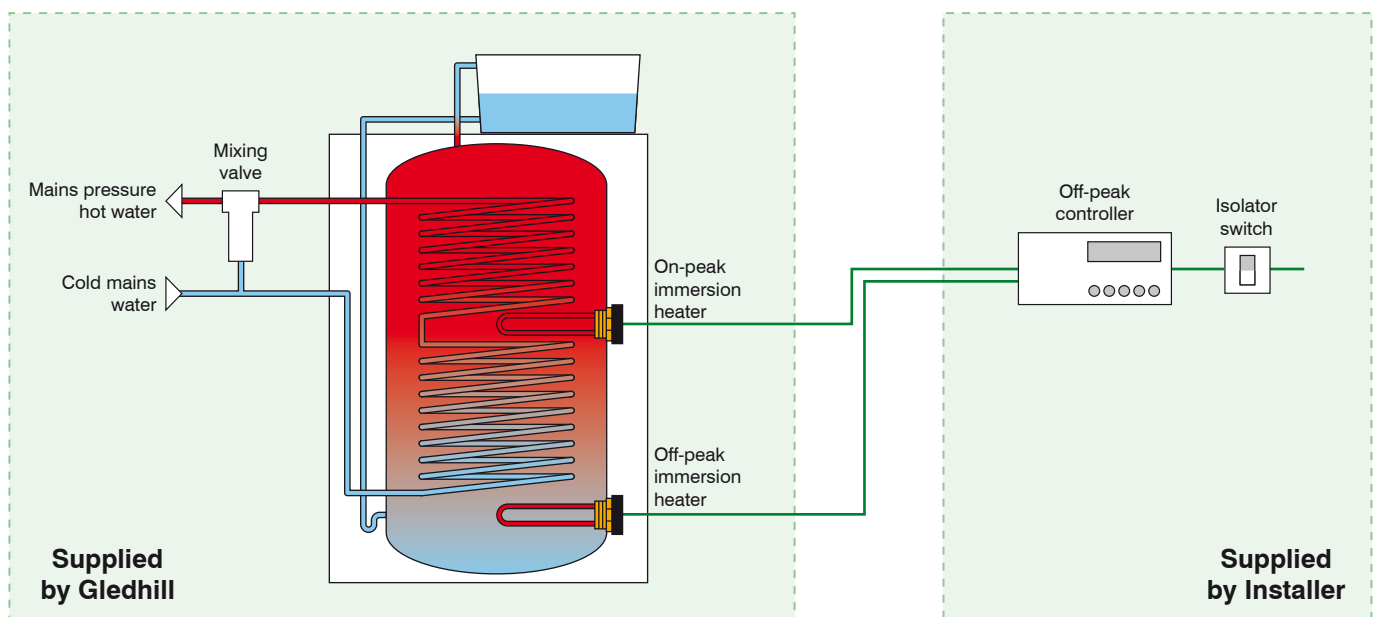
With the cylinder being an open vented thermal store, it does not require a pressure and temperature relief valve and subsequently does not need any discharge pipe work. The PulsaCoil BP therefore overcomes the onerous requirement of the new Part G Building Regulations which prohibits the connection of a discharge pipe from an unvented cylinder into a soil stack, unless it can be demonstrated that the soil stack can withstand the temperature of the water discharged. This is not possible with plastic soil stacks that are currently available, and so it can be very difficult to overcome. It is possible to plumb the PulsaCoil BP using the manual fill option, in which case there are no overflow or discharge requirements of any kind! This allows it to be positioned anywhere in the property.

The PulsaCoil BP's innovative design helps make installation and ongoing maintenance straightforward for the installer.



Each model is supplied shrink wrapped with built in moulded handles and the pipe-work and mixing valve are mounted on the front of the cylinder.

Other benefits of the PulsaCoil BP include the fact that the immersion elements are situated in the same primary water at all times and this water is not renewed so no scaling takes place, even in hard water areas. As the cylinder can utilise the off-peak electricity supply it keeps the running costs for the householder down to a minimum. Also, the advanced construction and primary store design mean that no annual service is required, unlike with an unvented cylinder.



PulsaCoil BP Technical Specification					
Description		PCBP 120	PCBP 150	PCBP 180	PCBP 220
Appliance height	mm	1131	1332	1533	1734
Appliance width	mm	560	560	560	560
Appliance depth	mm	605	605	605	605
Approx weight (empty)	kg	54	63	69	78
Approx weight (full)	kg	172	205	234	268
Total volume (nominal)	litres	118	142	165	190
Volume heated (on-peak)	litres	60	60	70	80
Heat loss	kWh/24hr	1.12	1.31	1.50	1.60
Max. hot water flow rate	litres/minute	18	18	22	22

Model Selection Notes:

* To maximise the use of cheaper rate off-peak electric, it is recommended that a larger cylinder is fitted when only a standard 7 hour off-peak tariff is available. With a 10 hour tariff, a smaller cylinder can be used as it is heated up by off-peak electric more frequently. This is shown in the model selection table below.

PulsaCoil BP Model Selection					
Bedroom		1	1-2	2-3	2-3
Bathroom		1 or	1 or	1	1
En-suite shower room		1	1	1	2
Model selection data * (7 hour off-peak)	Model size	PCBP 150	PCBP 150	PCBP 180	PCBP 220
Model selection data * (10 hour off-peak)	Model size	PCBP 120	PCBP 150	PCBP 150	PCBP 180

Notes:

1. The appliance is supplied on a 100mm high installation base and comes complete with a separate top up cistern. This can be installed with or without an overflow/warning pipe as required.
2. An allowance for the top up cistern and the 100mm installation base are both included in the minimum cupboard dimensions.
3. Where the mains water hardness exceeds 200ppm provision should be made to treat the feed water to reduce the rate of accumulation of lime scale. The optional factory fitted in-line scale inhibitor should be specified at the time of order for hardness levels between 200 and 300ppm (mg/l). Where the water is very hard ie 300ppm (mg/l) and above the optional polyphosphate type scale inhibitor should be specified at the time of order.



PulsaCoil BP Solar

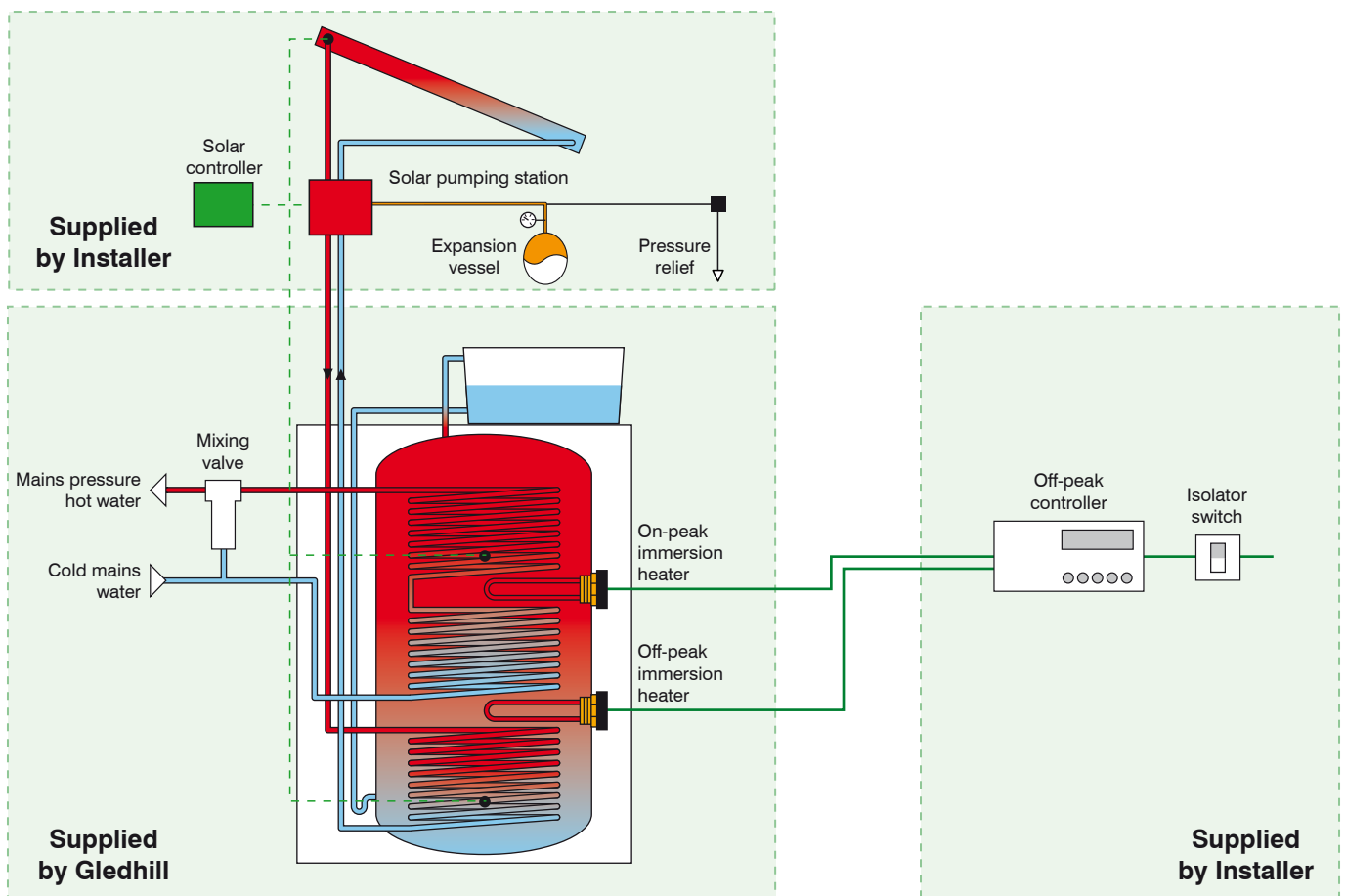
The PulsaCoil BP Solar is the optimum way to take advantage of both solar energy and low cost electricity tariffs, such as Economy 7. The unit will provide mains pressure hot water with power shower performance, making it the cost effective, energy efficient solution for apartments.

Solar panels collect the solar energy and this is then used to heat the water in the PulsaCoil BP. This process happens during the day, so consequently, when the off-peak electricity demand is activated, it does not require as much energy to bring the store up to the desired temperature.

Solar panels and hot water cylinders harvest the sun's energy all year around and therefore potentially bring down your energy bills by a considerable amount, typically providing up to 50% of the year round energy required for hot water.

The PulsaCoil BP Solar is based on the original principal of the PulsaCoil BP, but with the addition of the solar input, so

you still benefit from the innovative design helping to make installation and ongoing maintenance straightforward for the installer and immersion elements which are situated in the same primary water at all times, so no scaling takes place, even in hard water areas.



PulsaCoil BP Solar Technical Specification				
Description		PCBP 150 SOL	PCBP 180 SOL	PCBP 220 SOL
Appliance height	mm	1332	1533	1734
Appliance width	mm	560	560	560
Appliance depth	mm	605	605	605
Approx weight (empty)	kg	69	78	85
Approx weight (full)	kg	219	258	295
Total volume (nominal)	litres	150	175	200
Volume heated (on-peak)	litres	60	65	70
Dedicated solar volume	litres	57	64	73
Heat loss	kWh/24hr	1.31	1.50	1.60
Max. hot water flow rate	litres/minute	18	22	22

Model Selection Notes:

* To maximise the use of cheaper rate off-peak electric, it is recommended that a larger cylinder is fitted when only a standard 7 hour off-peak tariff is available. With a 10 hour tariff, a smaller cylinder can be used as it is heated up by off-peak electric more frequently. This is shown in the model selection table below.

To meet Building Regulations it is necessary to select a cylinder with adequate dedicated solar volume for the property size. This precludes the option to use a smaller cylinder where a 10 hour off-peak tariff is available. However, a 10 hour tariff will still minimise the running costs for the householder, particularly in winter months.

PulsaCoil BP Solar Model Selection				
Bedroom		1	1-2	1-2
Bathroom		1 or	1 or	1
En-suite shower room		1	1	1
Model selection data * (7 hour off-peak)	Floor area m ²	Up to 40m ²	Up to 50m ²	Up to 65m ²
	Model size	PCBP 150 SOL	PCBP 180 SOL	PCBP 220 SOL
Model selection data * (10 hour off-peak)	Floor area m ²	Up to 40m ²	Up to 50m ²	Up to 65m ²
	Model size	PCBP 150 SOL	PCBP 180 SOL	PCBP 220 SOL

Notes:

1. The appliance is supplied on a 100mm high installation base and comes complete with a separate top up cistern. This can be installed with or without an overflow/warning pipe as required.
2. An allowance for the top up cistern and the 100mm installation base are both included in the minimum cupboard dimensions.
3. Where the mains water hardness exceeds 200ppm provision should be made to treat the feed water to reduce the rate of accumulation of lime scale. The optional factory fitted in-line scale inhibitor should be specified at the time of order for hardness levels between 200 and 300ppm (mg/l). Where the water is very hard ie 300ppm (mg/l) and above the optional polyphosphate type scale inhibitor should be specified at the time of order.



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SUPPLIERS TO THE MERCHANT TRADE FOR OVER 35 YEARS



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Gledhill Building Products produce cylinders for use with a wide range of heat sources including;

**Gas and oil boilers
Ground source heat pumps**

**Electricity
Solar energy**

**Air source heat pumps
Wood burning stoves**

For further information of Gledhill products can be found on the internet at www.gledhill.net



*To protect our
environment, we use
copper a totally recyclable
metal, which never
becomes waste.*



*FM 2057
Gledhill cylinders are produced
under an ISO 9001:2008
Quality System accepted
by BSI*



THE MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING
AND SERVICING OF DOMESTIC HEATING AND HOT WATER SYSTEMS

Due to a programme of continuous improvement Gledhill Building Products reserve the right to modify products without prior notice. It is advisable to check the product technical detail by using the latest design and installation manuals available from our technical support team or on our website.