

New Greenskies Solar Discharge Bottle

The introduction of a new solar discharge bottle is designed to provide a neater and safer method of discharge for the PRV outlet.

Why a new solar discharge bottle?

Installers are currently advised to terminate the PRV discharge to a suitable receptacle and generally have to improvise a solution when it comes to this issue. Many use alternatives that are not tested or temperature rated, or containers that look ugly and sit on the floor below the system.

The new Greenskies Solar Discharge Bottle provides a neater, more suitable and more professional-looking alternative that can be wall mounted and has been tested to collect the temperatures that may be discharged from the PRV. The discharge bottle is rated at 160°C for short term discharge.

The discharge bottle is also compliant with best practice and future standards, which state that the receptacle should be able to contain the entire contents of the system above the safety valve. For extra safety, the bottle also displays a warning label to notify of the potential hazard with discharged glycol.

Benefits for customers

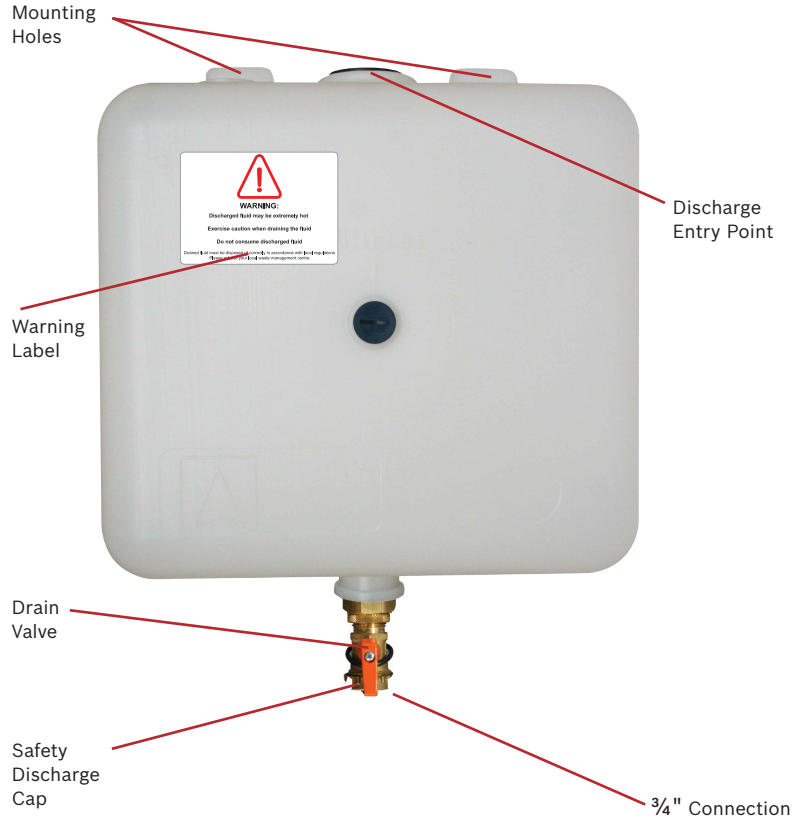
As well as having a more aesthetically pleasing installation, customers benefit from the peace of mind that, unlike many current solutions, this discharge bottle is fully tested to ensure safety under normal operating conditions.

Another key feature of the discharge bottle is that it is see-through, so that customers can see any discharge and notify the installer that there may be a problem.

Technical overview

Part Number	7 716 192 348
Material	Polyethylene-Lupolen 5021D White
Temperature range	Ambient -5°C to +50°C Storage -10°C to +60°C
Size (W x H)	300mm x 270mm
Clearances	440mm high including wall fixing brackets and drain valve assembly

Greenskies Solar Discharge Bottle in detail



Features and benefits

Feature	Benefit
Aesthetically pleasing and wall mountable.	Installation can be completed with a product that looks more professional.
Rated at 160°C	Tested to withstand the high temperatures that could potentially be expelled from the system.
3/4" drain valve with isolator and end cap.	Easy connection of a 3/4" pipe to the drain valve for safe disposal of the discharged glycol.
Warning label.	Safety warning label to notify the user of potential hazard with discharged glycol for added safety.
See through bottle.	Enables user to see any discharge in the bottle and notify the installer of any problems.



Installation details

The solar discharge bottle is supplied as a complete unit with a ¾" drain point with end cap, drain valve and safety warning label. Holes for wall mounting are ready-formed on the back of the container.

The bottle should be mounted with enough clearance from the floor to be able to effectively drain any discharged fluid and the pipe into the bottle should terminate no less than 50mm into the bottle and no further than the mid-point cover.

The discharge bottle is supplied with a system sizing chart listing the permissible lengths of pipework allowed, so that the system glycol contents are not greater than the 9.6 litres capacity of the container. Any systems that will contain more than 9.6 litres of glycol above the PRV are not recommended for use with the discharge bottle.

Recommended total pipe length – flow and return								
Number of panels	FKC Portrait		FKC Landscape		FKT Portrait		FKT Landscape	
	15mm	22mm	15mm	22mm	15mm	22mm	15mm	22mm
1	56.8m	25.7m	54.1m	24.5m	52.9m	23.9m	50.6m	22.9m
2	50.8m	23m	45.6m	20.6m	43m	19.5m	38.5m	17.4m
3	44.9m	20.3m	36.9m	16.7m	33.2m	15m	26.3m	11.9m
4	39m	17.7m	28.3m	12.8m	23.3m	10.5m	14.2m	6.4m
5	33m	15m	19.6m	8.9m	13.4m	6.1m	–	–
6	27.2m	12.3m	11m	5m	–	–	–	–
7	21.2m	9.6m	–	–	–	–	–	–
8	15.3m	6.9m	–	–	–	–	–	–

The total length of pipework in the system should not exceed the values shown in the table opposite for the corresponding amount and type of collectors and pipe diameter.

The solar discharge bottle is recommended only for use in flat plate solar systems.

Recommended metres of pipe length		
Number of panels & type	15mm	22mm
2 panel FKC Portrait	50.8m	23m
2 panel FKT Portrait	43m	19.5m
2 panel FKC Landscape	45.6m	20.6m
2 panel FKT Landscape	38.5m	17.4m

Here are examples of typical panel quantities and the total pipe work length recommended for the system that contains 9.6 litres of liquid or less.

Shown in the table are permissible total combined flow and return pipe lengths (for either 15mm or 22mm pipework) for typical Worcester flat panel systems. Any longer total pipework than the values shown and an alternative suitable discharge receptacle to the Greenskies Solar Discharge Bottle should be used.

