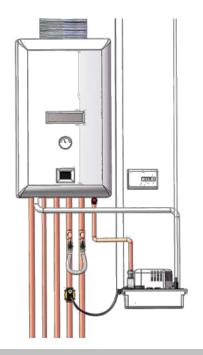


Pressure Safe System

Sauermann® part # : PS1800SCUN23

Pressure Release Valve Safety System



Safety first

The pump collects condensates. Thanks to the diffuser reducing the pressure, it also allows the safe discharge of the pressure relief valve inside the property.

The pump safety switch can detect if filling loop is left open, or a failure of plate-to-plate heat exchanger, or a failure of the pressure release valve.

If a failure occurs, the pump sends a signal to the **regulation box**. The regulation box closes the **solenoid valve** and stops cold water entering the boiler.

The heating stays on, hot water is stopped. A red light is activated informing the end user he must call contractor to solve the problem and reset the installation.

AVANTAGES

Safe installation

- No risk of house floods.
- No risk of heating system shutting down due to frozen PRV discharge pipes.
- Notices failures and informs when contact with the contractor is needed.

Easy and quick installation

- No long expensive copper pipe runs.
- No ladder work, no drilling through wall

Preserve the environment

- No water loss.
- No energy loss.

KIT CONTENTS



www.sauermannpumps.com

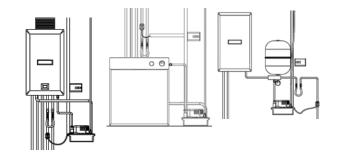
- A. Regulation box including 2 strain reliefs and 4 screws
- B. **Solenoid valve** with 2 m cable bare ends (L,N,G)
- C. Diffuser
- D. SI1800: centrifugal pump with tank of 2,0 I:
 - Check valve
 - > Power cable : 2 m bare ends (L,N,G)
 - > Safety switch cable: 2 sleeved wires 1,5 m bare ends
- E. PVC Tubing: 10 mm ID, 5m long
- F. Ø10 to 10 mm (3/8" to 3/8") straight connector for clear tubing Ø10mm extension
- G. 2 bags of 2 screws + 2 rawl plugs
- H. Ø int. 15-20-24-32-40 mm (Ø int. 5/8"-3/4"-1"- 1"1/4-1"1/2) inlet adaptor for PVC pipe
- I. Condensate self-sealing evacuation connector, Ø 10 mm int. J. Ø10 to 20 mm (3/8" to 3/4") outlet adaptor for rigid tubing Ø20 mm

27/06/2018

APPLICATIONS

for Gas Condensing Boilers and electric boilers:

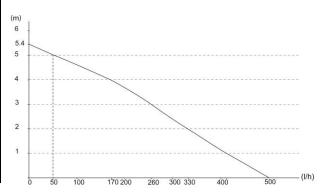
- heating only or heating and hot water (combi)
- wall mounted or floor mounted
- in domestic use : suitable for expansion vessels ≤12l



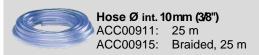
WARNING:

- <u>Commercial use</u>: carefully verify **expansion vessel size**If >12I, do not connect the Pressure Release Valve to the pump
- Boilers incorporating a store of hot water > 15l.

ACTUAL FLOW RATES (I/h)				
	Total tube length (Ø int. 10 mm, 3/8")			
Vertical Discharge head	5 m	10 m	20 m	30 m
1 m	380	300	240	190
2 m	310	260	200	150
3 m	240	200	145	110
4 m	150	130	80	60
5 m	30	20	0	0



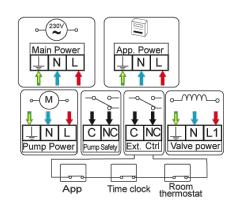
RECOMMANDED ACCESSORIES





Check valve For replacement Ø ext. 10 mm (3/8") ACC00925

Pressure Safe System	TECHNICAL SPECIFICATION			
Safety standards CE & EAC ROHS directive Compliant WEEE directive Compliant Weight (including box) 3.8 kg Packaging L400xW200xH215 mm Pallet quantity 60 pieces –5 levels of 12 pumps Pump SI 1800 & Diffuser Max. flow rate 500 l/h Max. discharge head 5 m Max pressure 5.4 m (flowrate=0) Sound level in application at 1m(3.3ft): ≤ 45 dBA (Measured in Sauermann acoustic lab, pump operating with water) Mains supply 230V – 50Hz - 70 W – 0.67A Detection levels On : 53mm, Off : 42mm, Safety : 64mm Safety switch NC 4 A resistive – 250V Max. condensate temperature 65°C, 80°C in short peak Max. condensate temperature 65°C, 80°C in short peak Max. condensate actidity ph > 2.5 (Gas condensing boilers) Thermal protection 105°C (auto-reset) (overheating) 30%: 3s ON – 7s OFF Protection 1P20 Regulation box Mains supply 230V – 50Hz - 10A max. 9ower cable (not supply) 230V – 50Hz - 10 Max. Power cable (not supply) <t< th=""><th colspan="4">Pressure Safe System</th></t<>	Pressure Safe System			
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max. temperature 65°C, 90°C in short peak Protection IP65				
Protection IP65				
1 ONO MINORIO IO I	Ports dimensions	G 1/2" - brass – H 65mm		









Non-contractual document. We reserve the right to modify the characteristics on our products without prior notice.