

Performance and technical characteristics																																									
  	<table border="0"> <tr> <td>Mains supply</td> <td>230V~ 50Hz - 75 W – 0.80A</td> </tr> <tr> <td>Max flow rate</td> <td>400 l/h</td> </tr> <tr> <td>Max discharge head</td> <td>3.7 m (Q=50l/h)</td> </tr> <tr> <td>Max pressure</td> <td>4 m (flowrate=0)</td> </tr> <tr> <td>Sound level in application (Measured in Sauermann acoustic lab, pump operating with water)</td> <td>≤43 dBA at 1m (3.3ft)</td> </tr> <tr> <td>Detection Levels</td> <td>On=27mm, Off=21mm, Alarm=32mm</td> </tr> <tr> <td>Max condensate temperature</td> <td>65°C, 80°C in short peak</td> </tr> <tr> <td>Max condensate acidity</td> <td><u>pH ≥ 2 (Oil condensing boilers)</u></td> </tr> <tr> <td>Alarm contact</td> <td>NC 4 A resistive – 250V</td> </tr> <tr> <td>Thermal protection (overheat)</td> <td>120°C (auto-reset)</td> </tr> <tr> <td>Protection</td> <td>IP X4</td> </tr> <tr> <td>Safety Standards</td> <td>CE</td> </tr> <tr> <td>RoHS directive</td> <td>Conform</td> </tr> <tr> <td>WEEE directive</td> <td>Conform</td> </tr> <tr> <td>Pump dimensions without tank</td> <td>L 190 x W 80 x H 100 mm</td> </tr> <tr> <td>Pump dimensions with tank</td> <td>L 221 x W 100 x H 106 mm</td> </tr> <tr> <td>Box dimensions</td> <td>L 293 x W 136 x H 183 mm</td> </tr> <tr> <td>Weight (including box)</td> <td>± 2.5 kg</td> </tr> <tr> <td>Master Pack quantity</td> <td>5 pieces</td> </tr> <tr> <td>Pallet quantity</td> <td>90 pieces</td> </tr> </table>	Mains supply	230V~ 50Hz - 75 W – 0.80A	Max flow rate	400 l/h	Max discharge head	3.7 m (Q=50l/h)	Max pressure	4 m (flowrate=0)	Sound level in application (Measured in Sauermann acoustic lab, pump operating with water)	≤43 dBA at 1m (3.3ft)	Detection Levels	On=27mm, Off=21mm, Alarm=32mm	Max condensate temperature	65°C, 80°C in short peak	Max condensate acidity	<u>pH ≥ 2 (Oil condensing boilers)</u>	Alarm contact	NC 4 A resistive – 250V	Thermal protection (overheat)	120°C (auto-reset)	Protection	IP X4	Safety Standards	CE	RoHS directive	Conform	WEEE directive	Conform	Pump dimensions without tank	L 190 x W 80 x H 100 mm	Pump dimensions with tank	L 221 x W 100 x H 106 mm	Box dimensions	L 293 x W 136 x H 183 mm	Weight (including box)	± 2.5 kg	Master Pack quantity	5 pieces	Pallet quantity	90 pieces
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Features and benefits

- Can be used on **oil condensing boilers** without neutralization (pH ≥ 2)
- **Heavy duty IPX4 design**, protects motor and switches from acid vapors
- **Innovating system of detection (using magnet)**
 - ⇒ Robustness and protection of the mechanical and electric parts
 - ⇒ Acid proof and fouling free float mechanism (oil residues)
- Quarter turn **easily removable check valve**, for PVC tubing 10 mm (3/8") or 6 mm (1/4")
- **Extra Low sound level** – quiet operation
- **Extra compact size** and low detection level
- Easily removable tank and reversible pump
- Oil and acid resistant float
- 2 fixing holes that allow the pump to be attached on a wall
- 1 inlet Ø23.5mm
- **Reinforced mechanical structure** improving shocks resistance
- High flow rate for shorter running time
- Thermal protection 120°C auto-reset
- In-pan application



Description

IPX4 centrifugal pump with tank.

- Centrifugal pump for heavy and contaminated condensates
- **Suitable for acid** (pH ≥ 2) and hot (80°C max) condensates of either **gas or oil boilers**
- Normally closed alarm contact that automatically cuts off the air conditioning system compressor or a solenoid valve.

Kit contents

- Integrated tank pump of 0.5 l
- Integrated check valve
- Power cable : 2 m with European plug
- Alarm wires : 1 m, 2 wires (NC contact)
- 2 screws + 2 rawl plugs
- PVC Tubing :5m roll - 10 mm ID (3/8")
- ACC02040 Ø 1"-1"1/4 - 1"1/2 (24-32-40m) adapter

Applications

Condensing Boilers (gas and oil)
High efficiency Gas furnace

Multi-cassettes
Column units
Laboratory evaporators
Display cabinets

Cold store evaporator
Ducted units



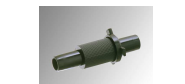
Accessories



ACC 00125, ACC 00126
Clear tubing Ø 10 mm
ACC 00125 : 25 m roll
ACC 00126 : reinforcing
25 m roll



Adapter
ACC 00225: Ø 24-25mm
ACC 00230: Ø 32 mm
ACC 00240: Ø 40 mm



ACC 00801
Check valve Ø 10 mm

Flow Rate for the SI1830

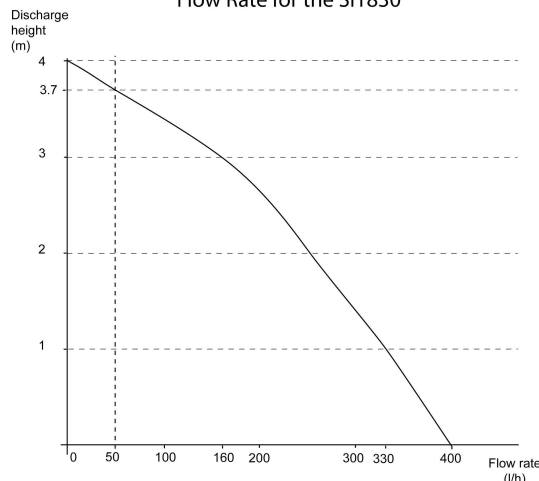


Table of true flow rate for SI 1830

The head losses defined in this table are calculated with a Ø 10 mm int. flexible pipework	Vertical discharge head (m)	Total tubing length			
		5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (in l/h)
	1	320	270	190	150
	2	240	200	130	100
	3	150	110	70	50
	3.7	50	40	25	15
	4	0	0	0	0