

# SI 1801

## Centrifugal Tank Pump

For air conditioners, refrigerated display cabinets, condensing boilers and furnaces.



Scan this QR code to open a printable PDF of the SI 1801 technical data sheet.

### APPLICATIONS:

AIR CONDITIONING

REFRIGERATION

HEATING

- Column AC units
- Refrigerated displays
- Cold store cabinets
- Multi-cassettes
- Ducted units
- Evaporators
- Ice machines
- Condensing boilers
- High efficiency furnaces

### KIT CONTENTS

- 1 One-piece centrifugal pump with 1/2 gal. tank
- 2 Integrated barb end check valve 3/8" o.d.
- 3 Power cord, 6ft with plug (120 or 230V type)
- 4 Safety switch wires, 1ft bare ends
- 5 Adaptor 5/8" i.d. - 3/4" i.d. - 1" i.d. - 1 1/4" i.d. - 1 1/2" i.d.
- 6 Tubing 20ft 3/8" i.d. included with models ending in /T

NOT SHOWN IN PHOTO: 2 screws, 2 wall anchors

Sauermann Part #s

**SI1801LHUS11** 120V – 17ft

**SI1801SCUS11** 120V – 23ft

**SI1801US11/T** 120V – 23ft – includes tubing

**SI1801SCUS23** 230V – 23ft

**SI1801US23/T** 230V – 23ft – includes tubing

The SI 1801 series of pumps have been designed with ease of install in mind. They are capable of evacuating up to 132 gph, and are suitable for air conditioning units and industrial refrigeration display cases. "Built to Resist", the SI 1801 can endure charged, high temperature and mild acidic condensate (pH>2.5) produced by condensing boilers and furnaces.

**17'**  
5.3 m

**23'**  
7.0 m

### Features & Benefits

#### High Performance

- Can discharge condensate up to **17 or 23 feet**, depending on the model.
- **Up to 132 gph**, for shorter running time.
- **Low sound level** – Quiet operation.



#### Many Installation Options

- Pump can be floor mounted, attached to a wall or hung from a ceiling.



#### High Resistance

- Oil and acid resistant float.
- Mechanical structure resistant to shocks.

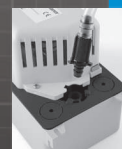
#### Versatile

- Easily removable tank for simple maintenance and algae control.
- Reversible pump allows mounting on either side of the installation, and the choice of which side the water exits the pump.



#### Easy Connection

- New quarter turn, easily removable check valve, designed to facilitate 3/8" i.d. hose plug in.
- 4 inlet holes 1 3/16" o.d.



### RECOMMENDED ACCESSORIES

ACC 00120  
ACC 00125



Clear PVC hose, 3/8" i.d. Sold in 20ft and 82ft rolls. (20ft roll Included with models ending in /T)

ACC 00801



Replacement check valve, for 3/8" i.d. tubing

PH0100SIUN23

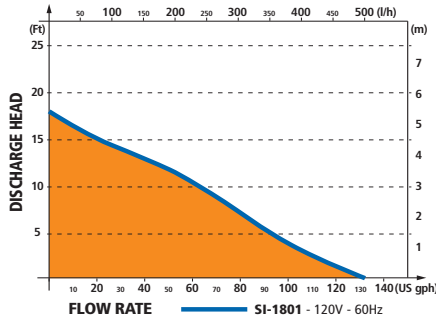


pH Safe 1 Neutralization cartridge, for inner SI-1801

**17'**  
5.3 m

**FLOW RATES (GPH)**

Vertical discharge head	Total tube length – using 3/8" i.d. (10mm) hose @ 60 Hz			
	16ft (5m)	30ft (10m)	60ft (20m)	100ft (30m)
3.25ft (1m)	92	82	63	53
6.5ft (2m)	79	69	53	44
10ft (3m)	61	52	40	33
13ft (4m)	40	32	26	21
16ft (5m)	13			



**TECHNICAL SPECIFICATIONS**

**17'**  
5.3 m

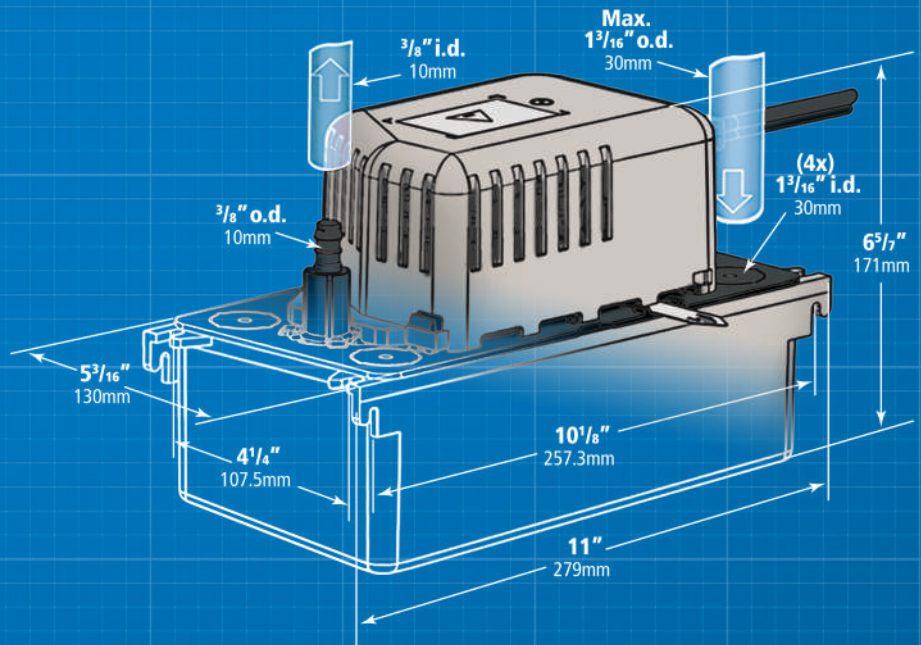
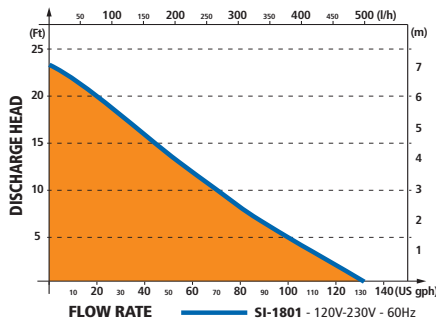
**23'**  
7.0 m

<b>Max. flow rate</b>	<b>132 gph</b> (500 l/h)	<b>132 gph</b> (500 l/h)
<b>Shut Off Head</b>	<b>17.5ft</b> (5.3m) @ 60Hz	<b>23ft</b> (7.0m) @ 60Hz
<b>Sound level in application at 3.3ft (1m)</b> (Measured in Sauermann acoustic lab, pump operating with water)	<b>≤ 45 dBA</b>	<b>≤ 45 dBA</b>
<b>Power supply</b>	120 V ~ 60 Hz - 56 W - 1.05A	120 V ~ 60 Hz - 85 W - 1.45A 230 V ~ 60 Hz - 80 W - .72A
<b>Detection levels</b>	On: 2 3/32" Off: 1 21/32" Alarm: 2 1/2" (On=53mm, Off=42mm, Alarm=64mm)	On: 2 3/32" Off: 1 21/32" Alarm: 2 1/2" (On=53mm, Off=42mm, Alarm=64mm)
<b>Safety switch</b>	NC 4A resistive - 42 V peak	NC 4A resistive - 42 V peak
<b>Max. condensate temperature</b>	150°F (65°C), short peak 176°F (80°C) – 1min	150°F (65°C), short peak 176°F (80°C) – 1min
<b>Max. condensate acidity</b>	pH > 2.5 (Gas condensing boilers)	pH > 2.5 (Gas condensing boilers)
<b>Thermal protection (overheating)</b>	230°F (110°C) auto-reset	248°F (120°C) auto-reset
<b>Intermittent operation cycle</b>	30%: 3s ON – 7s OFF	30%: 3s ON – 7s OFF
<b>Protection</b>	IP20	IP20
<b>Safety standards</b>	UL / CSA certified by Intertek	UL / CSA certified by Intertek
<b>RoHS &amp; WEEE directives</b>	Compliant	Compliant
<b>Weight (including box)</b>	4.4 lbs (2.0 kg)	5.5 lbs (2.5 kg)
<b>Masterpack</b>	6 pieces	6 pieces (without tubing) 4 pieces (with tubing)

**23'**  
7.0 m

**FLOW RATES (GPH)**

Vertical discharge head	Total tube length – using 3/8" i.d. (10mm) hose @ 60 Hz			
	16ft (5m)	30ft (10m)	60ft (20m)	100ft (30m)
3.25ft (1m)	100	92	74	61
6.5ft (2m)	82	75	61	50
10ft (3m)	65	58	48	38
13ft (4m)	50	42	36	28
16ft (5m)	37	29	22	17
18ft (5.5m)	20	13	11	



[www.SauermannUSA.com](http://www.SauermannUSA.com)



415 Oser Avenue, Suite P  
Hauppauge, NY 11788  
Tel: 631-234-7600  
Fax: 631-234-7605  
E-mail: [sales.usa@sauermanngroup.com](mailto:sales.usa@sauermanngroup.com)

**NOT FAMILIAR WITH SAUERMANN PRODUCTS?**

For more than 20 years, Sauermann has been a global market leader in designing, manufacturing and selling condensate removal pumps (and related finishing equipment) intended for refrigeration, air conditioning and heating systems.

Today, as an internationally recognized brand, the Sauermann Group employs hundreds of people around the world. Sauermann has an unwavering focus on product innovation and the needs of its clients – OEMs, distributors and HVAC installers.

In addition to producing affordable, quality products for detecting, evacuating and managing condensate water, the Sauermann Group believes it has a duty to anticipate its human and environmental impacts. For this reason, Sauermann has set itself concrete objectives with a view of participating in a better ecological future for its consumers and ultimately, the world.

