

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 3/8" 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

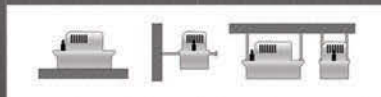
Features & Benefits

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

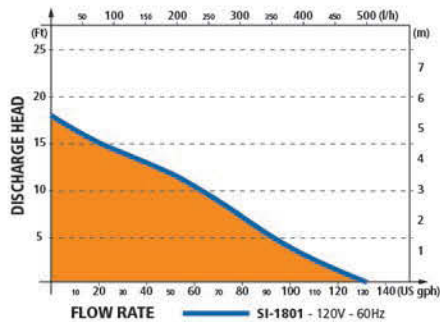


pH Safe 1 Neutralization cartridge, for inner SI-1801

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

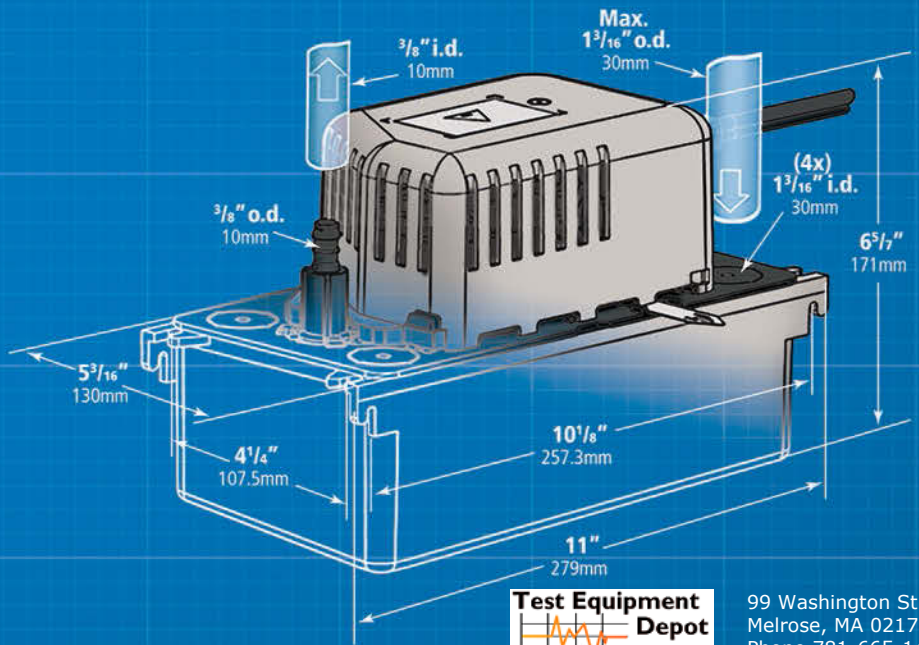
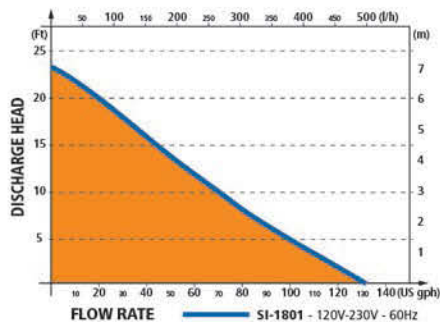
23'
7.0 m

Max. flow rate	132 gph (500 l/h)	132 gph (500 l/h)
Shut Off Head	17.5ft (5.3m) @ 60Hz	23ft (7.0m) @ 60Hz
Sound level in application at 3.3ft (1m) (Measured in Sauermann acoustic lab, pump operating with water)	≤ 45 dBA	≤ 45 dBA
Power supply	120 V ~ 60 Hz - 56 W - 1.05A	120 V ~ 60 Hz - 85 W - 1.45A 230 V ~ 60 Hz - 80 W - .72A
Detection levels	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)
Safety switch	NC 4A resistive - 42 V peak	NC 4A resistive - 42 V peak
Max. condensate temperature	150°F (65°C), short peak 176°F (80°C) – 1 min	150°F (65°C), short peak 176°F (80°C) – 1 min
Max. condensate acidity	pH > 2.5 (Gas condensing boilers)	pH > 2.5 (Gas condensing boilers)
Thermal protection (overheating)	230°F (110°C) auto-reset	248°F (120°C) auto-reset
Intermittent operation cycle	30%: 3s ON – 7s OFF	30%: 3s ON – 7s OFF
Protection	IP20	IP20
Safety standards	UL / CSA certified by Intertek	UL / CSA certified by Intertek
RoHS & WEEE directives	Compliant	Compliant
Weight (including box)	4.4 lbs (2.0 kg)	5.5 lbs (2.5 kg)
Masterpack	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	



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99 Washington Street
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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.

