Condensate removal

SCAN THIS CODE TO CHECK MORE DETAILS AND HELP FOR INSTALLATION ONLINE.

www.sauermannpumps.us
Si-30 mini condensate removal pump
For air-conditioners up to 5.6 tons (67 kBTU - 20 kW)

VERSATILE TECHNOLOGY

Wall mounted
Fan coils
Ceiling suspended units
Ducted units

TECHNICAL SPECIFICATIONS

- Max. flow rate: 5.0 gph (19 l/h)
- Max. suction head: 10 ft (3 m)
- Max. discharge head: 33 ft (10 m) (flow rate: 1 gph (4 l/h))
- Sound level at 3.3 ft (1 m): 20 dBA
- Mains supply: 120 V ~ 60 Hz - 14 W (1)
  - 230 V ~ 50/60 Hz - 14 W (2)
- Detection levels: On: 5/8'', Off: 7/16'', Alarm: 3/4''
  - (On: 16 mm, Off: 11 mm, Alarm: 19 mm)
- Safety switch: NC 8A resistive - 250 V
- Thermal protection (overheating): 194°F (90°C) auto-reset
- Protection: IP20
- Safety standards: UL/CSA certified by Intertek
- RoHS & WEEE directives: Compliant

Sauermann part #: SI3000SIUS11 (1) or SI3000SIUS23 (2)

Unmatched sound level
Proven reliability
High performance
Energy saving

- One pump for any air conditioner up to 5.6 tons (67 kBTU - 20 kW).
- Sauermann patented technology inside, specifically designed for draining condensates from air conditioning systems.
- Unequaled operating sound level, <20 dBA, whatever the amount of condensates to drain.

INSTALLATION

The detection unit is connected at the tank outlet. Thanks to its innovative mounting bracket, the Si-30 can be wall mounted or hung from ceiling and pipework.

KIT CONTENTS

- Piston pump, anti-vibration mounting bracket, plug in power cable with 2 safety switch wires (5 ft - 1.5 m), 6 tie wraps, detection unit SI2958, with cable and installation kit: rubber elbow 90° Øint. 19/32'' x 2"/3/8 (Øint. 15 x L 60 mm), vent tube Øint. 5/32'' x L 2"15/16 (Øint. 4 x L 75 mm), mounting rail, adhesive.

PUMP

RECOMMENDED ACCESSORIES

- PVC Tubing (ACC00105, ACC00150)
- Self-sealing fittings to connect the discharge tube into drain/waste water pipe (ACC00205)
- Fitting to avoid siphon effect (ACC00216)

MANUFACTURER’S 2 YEAR WARRANTY
Si-33 mini condensate removal pump

For air-conditioners from 5.6 tons (67 kBTu - 20 kW) up to 8.4 tons (100 kBTu - 30 kW)

**MAX FLOW RATE**

- Proven reliability
- Exceptional performances
- Energy saving
- Easy to install

- The patented Sauermann technology inside the pump makes it fully reliable, in any kind of environment.
- The high performance and high flow rate seriously reduce operation time and energy consumption.

**INSTALLATION**

The detection unit is connected at the tank outlet. Thanks to its innovative mounting bracket, the Si-33 can be wall mounted or hung from ceiling and pipework.

**KIT CONTENTS**

Piston pump, anti-vibration mounting bracket, plug in power cable with 2 safety switch wires (5ft - 1.5 m), 6 tie wraps, detection unit S2955, with cable and installation kit: rubber elbow 90° Øint. 19/32" x 2"3/8" (Øint. 15 x L 60mm), vent tube Øint. 5/32" x L 2"15/16 (Øint. 4 x L 75 mm), mounting rail, adhesive.

**MANUFACTURER’S 2 YEAR WARRANTY**

**TECHNICAL SPECIFICATIONS**

- **Max. flow rate**: 8.0 gph (30 l/h)
- **Max. suction head**: >10 ft (3 m)
- **Max. discharge head**: >33 ft (10 m) (flow rate= 1.8gph (7l/h))
- **Mains supply**: 120V ~ 60 Hz - 22 W (1)
  230 V ~ 50/60 Hz - 22 W (2)
- **Detection levels**: On : 5/8", Off : 7/16", Alarm : 3/4" (On : 16mm, Off : 11mm, Alarm : 19mm)
- **Safety switch**: NC 8A resistive - 250 V
- **Thermal protection (overheating)**: 194°F (90°C) auto-reset
- **Protection**: IP20
- **Safety standards**: UL/CSA certified by Intertek
- **RoHS & WEEE directives**: Compliant

**RECOMMENDED ACCESSORIES**

- PVC Tubing (ACC00105,ACC00150)
- Self-sealing fittings to connect the discharge tube into drain/waste water pipe (ACC00205)
- Fitting to avoid siphon effect (ACC00216)

- Wall mounted
- Fan coils
- Ceiling suspended units
- Ducted units

Sauermann part #: SI3300SIUS11 (1) or SI3300SIUS23
Si-10 mini condensate removal pump
for air-conditioners up to 5.6 tons (67 kBTU - 20 kW)

TECHNICAL SPECIFICATIONS

- Unmatched reliability
- Low sound level
- Energy saving
- Easy to install

- Thanks to high performances, high resistance to pollution created by general environment.
- Silent, whatever the air-conditioning unit and amount of condensates to be removed.

INSTALLATION

Built-in three level detection unit. Can be connected at the tank outlet or beside the air conditioner unit.

PUMP

Max. flow rate : 5.0 gph (19 l/h)
Max. discharge head : 33ft (10 m) (flow rate= 1 gph (4 l/h))
Max. pressure : 46ft (14 m) (flow rate= 0 gph (0 l/h))
Sound level at 3.3 ft (1m)* : 23 dBA
Mains supply : 120V ~ 60 Hz - 14 W (1)
230 V ~ 50/60 Hz - 14 W (2)
Detection levels : On : 23/32", Off : 15/32", Alarm : 13/16" (On : 18mm, Off : 12mm, Alarm : 21mm)
Safety switch : NC 8A resistive - 250 V
Thermal protection (overheating) : 194°F (90°C) auto-reset
Protection : IP54
Safety standards : UL/CSA certified by Intertek
RoHS & WEEE directives : Compliant

* according to ENISO 3744 (Measured at LNE lab, pump operating with water, out of application)

Sauermann part # :
SI1000SUS11 (1) or SI1000SUS23(2)

KIT CONTENTS

Piston pump, anti-vibration mounting bracket, plug in power cable with 2 safety switch wires (5ft – 1.5 m), rubber elbow 90° Øint. 19/32” x 2”3/8 (Øint. 15 x L 60mm), vent tube Øint. 5/32” x L 2”15/16 (Øint. 4 x L 75 mm).
Delta Pack ready to fit assembly
for wall mounted air conditioners up to 5.6 tons (67 kbtu - 20 kW)

READY TO INSTALL

› Complete installation kit
› Large space for routing refrigeration line sets
› Easy plug in electrical connection
› Reduced maintenance
› Low sound level

- Contents specifically designed for a quick installation of the pump inside an elbow.
- Includes an SI-10 pump, equipped with the patented Sauermann technology. Insulation foam, anti vibration bracket and direct wall mounting make it silent.

INSTALLATION

Installation on the wall, on the right or on the left of the air conditioner.

KIT CONTENTS

Si-10 piston pump, anti-vibrating reversible mounting bracket, plug in power cable with 2 safety switch wires (5ft – 1.5 m), elbow (flat bend), 30” (750mm) of duct model 3”/5/32 x 2”/3/8 (80x60mm), 20” (500mm) of rubber tube Øint. 19/32” (15 mm), rubber joint, ceiling duct cover, tie-wraps, 4 screws + 4 rawl plugs + 2 washers, vent tube Øint. 5/32” x L 2”/15/16 (Øint. 4 x L 75 mm)

MANUFACTURER’S 2 YEAR WARRANTY

TECHNICAL SPECIFICATIONS

Max. flow rate : 5.0 gph (19 l/h)
Max. discharge head : 33ft (10 m) (flow rate = 1 gph (4 l/h))
Max. pressure : 46ft (14 m) (flow rate = 0 gph (0 l/h))
Sound level at 3.3ft (1m)*: 23 dBA
Mains supply : 120V ~ 60 Hz - 14 W (1)
230 V ~ 50/60 Hz - 14 W (2)
Detection levels : On : 23/32”, Off : 15/32”, Alarm : 13/16”
(Øint. 1.8 mm, Øoff. 1.2 mm, Øalarm. 2.1 mm)
Safety switch : NC 8A resistive - 250 V
Thermal protection (overheating) : 194°F (90°C) auto-reset
Protection : IP54
Safety standards : UL/CSA certified by Intertek
RoHS & WEEE directives : Compliant

KIT CONTENTS

Si-10 piston pump, anti-vibrating reversible mounting bracket, plug in power cable with 2 safety switch wires (5ft – 1.5 m), elbow (flat bend), 30” (750mm) of duct model 3”/5/32 x 2”/3/8 (80x60mm), 20” (500mm) of rubber tube Øint. 19/32” (15 mm), rubber joint, ceiling duct cover, tie-wraps, 4 screws + 4 rawl plugs + 2 washers, vent tube Øint. 5/32” x L 2”/15/16 (Øint. 4 x L 75 mm)

MANUFACTURER’S 2 YEAR WARRANTY

RECOMMENDED ACCESSORIES

PVC Tubing (ACC00105, ACC00150)
Self-sealing fittings to connect the discharge tube into drain/waste water pipe (ACC00205)
SI1800 SI1805

centrifugal tank pumps for gas condensing boilers, air conditioners and refrigerated display cabinets

BUILT TO RESIST

Gas furnaces / Gas condensing boilers
Column air conditioning units / Multi-cassettes / Ducted units
Refrigerated display / Cold store cabinets
Evaporators

TECHNICAL SPECIFICATIONS

SI1800 SI1805

Max. flow rate 132 gph (500 l/h)
Max. discharge head
SI1800: 218 ft (66.6) @ 6.5Hz
SI1805: 169 ft (51.2) @ 5.4Hz
Sound level* ≤ 45 dBA ≤ 47 dBA
Mains supply
SI1800: 120 V - 60 Hz - 85 W - 1.45 A (ch) 120 V - 60 Hz - 1.5 A (US plug)
SI1805: 230 V - 50/60 Hz - 80 W - 0.72 A (4)
Detection levels
SI1800: On: 2/3/2 OFF: 1/2/1 On: 1/4/3 OFF: 1/1/1
Safety switch (3) (4) NC 4 A resistive – 427 peak NC 4 A resistive
Max. condensate temperature
SI1800: 150°F (65°C) short peak 149°F (65°C)
SI1805: 176°F (80°C) - 1min
Max. condensate acidity pH > 2.5 pH > 3.4
Thermal protection (overheating)
SI1800: 248°F (130°C) auto-reset SI1805: 266°F (130°C) auto-reset
Protection IP 20

*according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)

KIT CONTENTS

SI1800: One-piece centrifugal pump with ½ gal (2L) tank, integrated barb end check valve Øext 3/8” (10 mm), power cord, 6ft (1.8m), with US plug (120 or 230V type), safety switch wires (3(4), 1ft (0.3m), bare ends, Adaptor (3(4) Øint 5/8”-3/4” - 1” - 1”/4” - 1”/2” (15/17 - 20 - 24/25 - 32 - 40 mm) 2 screws + 2 plugs.

SI1805: Integrated tank pump of 0.13 gal (0.5L), installation kit (2 screws and plugs), power cable: 3 core cable with electrical plug (120 V or 230 V), 6.5 ft - safety switch: 2 black wires 1.0 ft · Inlet rubber adapter Ø 1”.

RECOMMENDED ACCESSORY

pH Safe1

For the SI1800, a neutralisation cartridge to neutralize acidic condensates produced by gas condensing boilers in order to preserve both pipework and environment.
<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>APPLICATION DESCRIPTION*</th>
<th>TECHNICAL DESCRIPTION</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 00105</td>
<td>PVC clear tubing</td>
<td>Inner Ø 1/4&quot;. ACC 00105: 16 ft 7/16 in roll</td>
<td>Plastic bag</td>
</tr>
<tr>
<td>ACC 00150</td>
<td>PVC clear tubing</td>
<td>ACC 00150: 164 ft roll</td>
<td>Skin packaging</td>
</tr>
<tr>
<td>ACC 00120</td>
<td>PVC clear tubing</td>
<td>ACC 00120: 208 ft roll</td>
<td>Cardboard box</td>
</tr>
<tr>
<td>ACC 00125</td>
<td>PVC clear tubing</td>
<td>ACC 00125: 828 ft roll</td>
<td>Skin packaging</td>
</tr>
<tr>
<td>ACC 00106</td>
<td>Blend rubber tube. To connect the condensates tank outlet to the detection unit.</td>
<td>Blend rubber, inner Ø 3/8&quot;, 1 5/8&quot;, For Si-30, Si-33, Si-10</td>
<td>1 pc, plastic bag</td>
</tr>
<tr>
<td>ACC 00110</td>
<td>Rubber condensate inlet adaptors. To connect two different diameters pipes together.</td>
<td>1 pc for pipe outside Ø 1&quot;, 1 pc for pipe outside Ø 1 1/4, For Si-30, Si-33, Si-10</td>
<td>3 pc, blister</td>
</tr>
<tr>
<td>ACC 00201</td>
<td>Adaptor. To reduce diameter between condensate tank and the detection unit inlet.</td>
<td>Ø 7/8&quot; mm ext. to Ø 11 16 mm ext.</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00202</td>
<td>Adaptor. To reduce diameter between condensate tank and the detection unit inlet.</td>
<td>Ø 1 1/4&quot; ext. to Ø 11 16 mm ext.</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00203</td>
<td>Adaptor. To reduce flow and diameter between condensate tank and the detection unit inlet.</td>
<td>Ø 1 1/4&quot; mm ext.to Ø 11 16 mm ext.</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00204</td>
<td>5 straight and 5 elbow connectors to connect 2 tubes</td>
<td>For inner Ø 1/4&quot; tube</td>
<td>5-5 pcs, blister</td>
</tr>
<tr>
<td>ACC 00205</td>
<td>6 self-sealing fittings for condensate removal</td>
<td>For inner Ø 1/4&quot; tubing</td>
<td>6 pcs, blister</td>
</tr>
<tr>
<td>ACC 00206</td>
<td>90° Rubber elbow. For connection to the detection unit inlet</td>
<td>Black rubber, inner Ø 19/32&quot; x Ø 19/32&quot;</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00209</td>
<td>90° Rubber elbow. Enables to lower the detection unit position and reduce the water level for total drain pan drainage</td>
<td>Black rubber, inner Ø 19/32&quot; x Ø 19/32&quot;</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00210</td>
<td>90° Rubber elbow. To connect the detection unit inlet to the condensate tank</td>
<td>Black rubber, inner Ø 5/8&quot; x Ø 19/32&quot;</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00211</td>
<td>1&quot; connectors. To connect 3 tubes</td>
<td>For inner Ø 1/4&quot; tube</td>
<td>5 pcs, blister</td>
</tr>
<tr>
<td>ACC 00212</td>
<td>Straight adapter to reduce mini-splits' drain hose length to facilitate installation of detection unit</td>
<td>Black or white plastic – 9/16&quot; to 5/8&quot; or Ø 39/64&quot; to 5/8&quot;</td>
<td>5 pcs, blister</td>
</tr>
<tr>
<td>ACC 00216</td>
<td>Anti siphon fitting</td>
<td>For inner Ø 1/4&quot; tubes</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00225</td>
<td>Rubber condensate inlet adaptors. To connect two different diameter pipes together.</td>
<td>ACC 00225: for pipe outside Ø 1&quot;, ACC 00230: for pipe outside Ø 1 1/4, ACC 00240: for pipe outside Ø 1 1/2, Pour Si-1800 / Si-1805</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00230</td>
<td>Extension. To increase the distance between the detection unit and the pump</td>
<td>ACC 00230: 16 ft 13/32&quot;, ACC 00250: 4 13/16&quot;, ACC 00275: 7 13/16&quot;, For Si-30, Si-33, Si-10</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00240</td>
<td>Check valve</td>
<td>For inner Ø 3/8&quot; tubing</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00401</td>
<td>Test bottle. To test pump without dismantling unit</td>
<td>For Si-30, Si-33, Si-10</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00703</td>
<td>Extension. To increase the distance between the detection unit and the pump</td>
<td>ACC 00703: 16 ft 13/32&quot;, ACC 00705: 4 13/16&quot;, ACC 00725: 7 13/16&quot;, For Si-30, Si-33, Si-10</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00705</td>
<td>Check valve</td>
<td>For inner Ø 3/8&quot; tubing</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC 00801</td>
<td>Check valves</td>
<td>For Ø 1/4&quot; int. (¼&quot;) tube</td>
<td>5 pcs, blister</td>
</tr>
<tr>
<td>ACC 00805</td>
<td>Check valves</td>
<td>For Ø 1/4&quot; int. (¼&quot;) tube</td>
<td>For Si-30, Si-33, Si-10</td>
</tr>
<tr>
<td>ACC 17010</td>
<td>In line filter</td>
<td>For inner Ø 1/4&quot; tubing</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>SI 2958</td>
<td>Detection unit</td>
<td>For tube IN: inner Ø 19/32&quot;, OUT: inner Ø 1/4&quot;, For Si-30, Si-33, Si-10</td>
<td>1 pc, blister</td>
</tr>
<tr>
<td>ACC00802/</td>
<td>Check valves+ rubber elbow for KS pumps</td>
<td>ACC00802: Ø 2 1/4&quot; - ACC00806: Ø 1 5/8&quot;</td>
<td>100 pcs. in box</td>
</tr>
<tr>
<td>ACC00806/</td>
<td>Check valves+ rubber elbow for KS pumps</td>
<td>ACC00802: Ø 2 1/4&quot; - ACC00806: Ø 1 5/8&quot;</td>
<td>100 pcs. in box</td>
</tr>
<tr>
<td>PH0100SIUN23</td>
<td>pH Safe 1 Neutralisation cartridge</td>
<td>For inner SI 800</td>
<td>1 pc, blister</td>
</tr>
</tbody>
</table>

**OTHER PRODUCTS**

**KS2000 series pump**

The KS2000 centrifugal condensate lift pumps are designed to lift and remove charged/turgid condensates and are particularly adapted to cassette, ducted and ceiling suspended type air handling units.

- **KS2030** > flow rate: 6.34 gph at 31.5" (or 2.62 ft), use motor with a stator height of 0.63".
- **KS2050** > flow rate: 6.34 gph at 37.4" (or 3.15 ft), use motor with a stator height of 0.79".

*Accessories are only guaranteed for the applications for which they are recommended.*