

DELTA PACK

PISTON PUMP - SYSTEM



Versatile kit

The Delta Pack is a complete kit intended for wall mounted air conditioning units up to 5.6 tons (67 kBtu - 20 kW), including a Si-10 pump. The piston technology of the Si-10 is specifically designed for removing condensates from air conditioning systems. The pump is fully reliable, in any kind of environment. Its operating sound level will remain silent whatever the volume of condensates.

BENEFITS



• « Sauermann inside » : new piston, patented technology

- **Increased performance** – the Si-10 replaces the SI1102 (10l/h).
- **High resistance to pollution** created by general environment. Capable of discharging small particles.
- **Proven reliability.**

• Silent

- Quiet in operation: **23 dBA independently tested.**
- The size of the air-conditioning unit and volume of condensates to be removed does not affect the operational sound level of the pump.
- Mounting bracket specifically designed to **reduce vibration transmission** to the wall or panel.

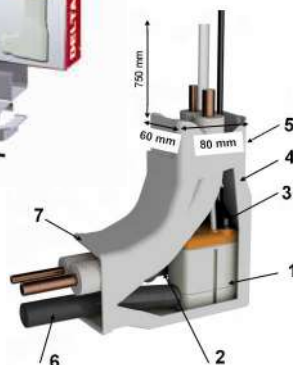
• Easy to install

- Bracket mounted **directly on the wall** (no template, only 2 screws).
- **Easy Installation** of the pump: horizontal Insertion by the front.
- 1 monobloc elbow. **Reversible mounting** (right & left of the AC unit).
- Large room for routing insulated copper tubing (max recommended pipe size: 5/8" - 3/8" insulated).
- **Plug-in power cord** to make maintenance and replacement hassle free.

• Energy saving

Improved performance and high flow rate **reduce operation time** and energy consumption.

KIT CONTENTS



1. Si-10 Piston pump with Integrated float detection unit
 2. Anti-vibrating reversible mounting bracket
 3. Plug in power cable with 2 safety switch wires (5ft - 1,5 m)
 4. Pump cover (flat bend)
 5. 30" (750mm) of duct model **3"5/32 x 2"3/8** (80x60mm)
 6. 20" (500mm) of rubber tube Øint. 19/32" (15 mm)
 7. Rubber Joint for junction to the A/C unit
- Ceiling duct cover
 - 3 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)

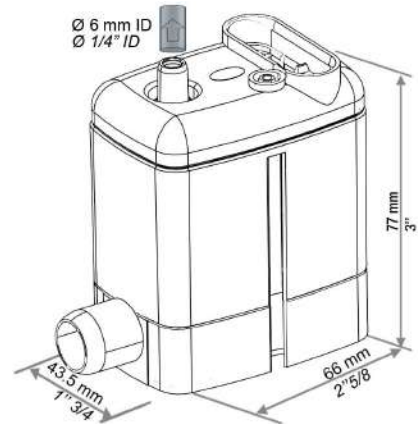
APPLICATIONS

For use with wall mounted air-conditioning units,
up to 5.6 tons (67 kBtu - 20 kW)



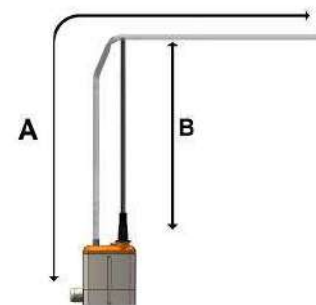
TECHNICAL SPECIFICATION

Max. flow rate	5.0 gph (19 l/h)
Max. discharge head	33ft (10 m); flow rate= 1gph (4l/h)
Max pressure	46 ft (14 m); flow rate = 0 gph (0l/h)
Sound level at 3.3ft (1m) according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	23 dBA
Sound level in application at 3.3ft (1m) (Measured in Sauer mann acoustic lab, pump operating with water)	≤ 28 dBA
Mains supply	120V ~ 60 Hz - 14 W (DP1000SIUS11) 230 V ~ 50/60 Hz - 14 W (DP1000SIUS23)
Insulation class	<input type="checkbox"/> (double insulation)
Detection levels	On:23/32" Off :15/32" Al :13/16" (On=18mm, Off=12mm, Alarm=21mm)
Safety switch	NC 8 A resistive - 250 V
Thermal protection (overheating)	194°F (90°C) auto-reset
Intermittent operation cycle	30%: 3s ON – 7s OFF
Protection	IP54
Safety standards	UL/CSA certified by Intertek
RoHS directive	Compliant
DEEE directive	Compliant
Cover dimensions	L 6"1/2 x W 6"1/2 x H 2"3/8 L 165 x W 165 x H 60 mm
Duct Dimensions	L 30" x W 3" 5/32 x H 2"3/8 L 750 x W 80 x H 60 mm
Delta Pack Packaging	3.3 lbs (1.5 kg) - L 30"1/4 x W 7"9/32 x H 2"3/4 - L 770 x W 185 x H 70 mm
Masterpack	boxes of 10pcs (9 boxes per pallet) L 31"1/2 x W 15" x H 14"3/16 L 800 x W 380 x H 360 mm

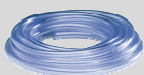


ACTUAL FLOW RATES (in gph)

Discharge head (B)	Total tube length using 1/4" (6 mm) hose (A)			
	15 ft	30 ft	60 ft	100 ft
0 ft	5.0	4.7	4.5	4.2
6 ft	4.2	3.9	3.7	3.5
13 ft	3	2.9	2.8	2.6
20 ft		2.5	2	1.7
26 ft		1.6	1.3	1.1
33 ft		1.1	0.9	0.7



RECOMMENDED ACCESSORIES



ACC 00105, ACC 00150
Clear PVC hose, Øint 1/4" (6mm)
ACC 00105 : 16 ft (5m)
ACC 00150 : 164 ft (50m)
ACC 00151 : reinforced, 164 ft (50m)



ACC 00205
6 self-sealing fittings
Øext. 1/4" (6mm)



ACC 00214
5 fittings to
prevent
siphoning

Si-30

PISTON PUMP



Versatile technology

The high performance Si-30 is suitable for air-conditioning units up to 5.6 tons (67 kBtu - 20 kW).

The piston technology is specifically designed for removing condensates from air conditioning systems.

The Si-30 is fully reliable, in any kind of environment. Its operating sound level will remain silent whatever the volume of condensates.

BENEFITS



- « Sauermann inside » : new piston, patented technology

- **Increased performance** – the Si-30 replaces the SI3100 & SI3200
- **High resistance to pollution** created by general environment. Capable of discharging small particles
- **Proven reliability**



- **Silent**

- Quiet in operation: **20 dBA independently tested.**
- The size of the air-conditioning unit and volume of condensates to be removed does not affect the operational sound level of the pump.
- **New mounting bracket** specifically designed to **reduce vibration transmission to the wall / panel or pipework**



- **Easy to install**

- **Compact design**
- New mounting bracket : allows the pump to be **wall mounted or hung from ceilings and pipework**
- **Plug-in power cord** to make maintenance and replacement hassle free

- **Energy saving**

Improved performance and high flow rate **reduce operation time** and energy consumption.

KIT CONTENTS



- Piston pump
- Anti-vibration mounting bracket
- Plug in power cable with 2 safety switch wires (5ft - 1,5 m)
- 6 tie wraps, 1/10" x 4" (2.5 x 100mm)
- Detection unit SI2958, with (5 ft - 1.5m) cable
- Detection unit 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.


APPLICATIONS

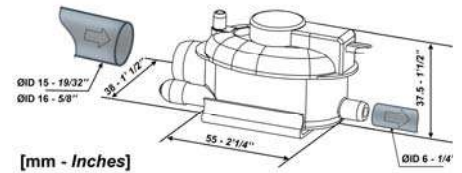
For use with any air-conditioning units,
up to 5.6 tons (67 kBtu - 20 kW):

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

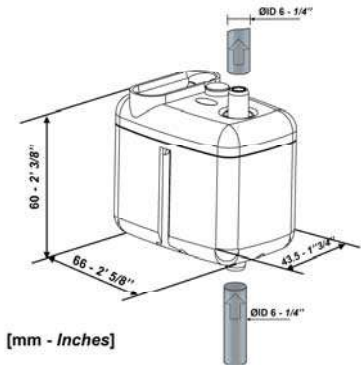


TECHNICAL SPECIFICATION

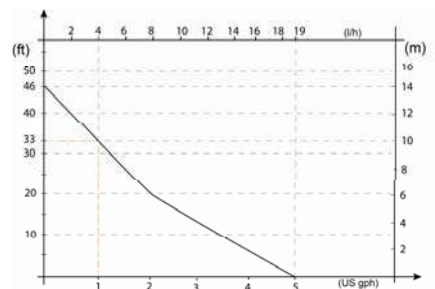
Max. flow rate	5.0 gph (19 l/h)
Max. suction head	10 ft (3 m)
Max. discharge head	33ft (10 m); flow rate= 1gph (4l/h)
Max pressure	46 ft (14 m); flow rate = 0 gph (0l/h)
Sound level at 1m according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	20 dBA
Sound level in application at 1m: (Measured in Sauermann acoustic lab, pump operating with water)	≤ 27 dBA
Mains supply	120V ~ 60 Hz - 14 W (SI3000SIUS11) 230 V ~ 50/60 Hz - 14 W (SI3000SIUS23)
Insulation class	 (double insulation)
Detection levels	On=5/8" Off=7/16" Alarm=3/4" (ON: 16mm, OFF: 11mm, AL: 19mm)
Safety switch	NC 8A resistive - 250 V
Thermal protection (overheating)	194°F (90°C) auto-reset
Intermittent operation cycle	30%: 3s ON – 7s OFF
Protection	IP20
Safety standards	UL/CSA certified by Intertek
RoHS directive	Compliant
DEEE directive	Compliant
Packaging	0.90 lbs (0.41kg) L4" 2/5 x W3"3/5 x H3"3/5 (L112 x W91 x H91 mm)
Masterpack	25 pieces



[mm - Inches]

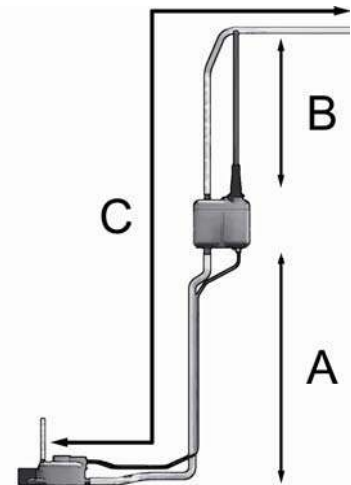


[mm - Inches]



ACTUAL FLOW RATES (in gph)

		Total tube length, 1/4" using (6 mm) hose (C)			
Suction head (A)	Discharge head (B)	15 ft	30 ft	60 ft	100 ft
0 ft	0 ft	5.0	4.7	4.5	4.2
	6 ft	4.2	3.9	3.7	3.5
	13 ft	3	2.9	2.8	2.6
	20 ft		2.5	2	1.7
	26 ft		1.6	1.3	1.1
3.3 ft	33 ft		1.1	0.9	0.7
	0 ft	3.7	3.4	3.2	2.9
	6 ft	2.9	2.6	2.4	2.1
6.6 ft	13 ft	0.5	1.8	1.6	1.3
	20 ft		1.2	1.1	
	0 ft	2.9	2.6	2.4	2.1
10 ft	6 ft	2.4	2.1	1.8	1.6
	13 ft		1.5	1.3	1.2
	0 ft	2.6	2.4	2.1	1.8
	6 ft	2.1	1.8	1.6	1.3
	13 ft		1.3	1.1	



RECOMMENDED ACCESSORIES



ACC 00105, ACC 00150
Clear PVC hose, Øint 1/4" (6mm)
ACC 00105 : 16 ft (5m)
ACC 00150 : 164 ft (50m)
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ACC 00205
6 self-sealing fittings
Øext. 1/4" (6mm)



ACC 00214
5 fittings to prevent siphoning



Si-1801

Centrifugal tank pump



SUITABLE FOR

- Condensing boilers & furnaces
- Refrigerated display cabinets
- Air conditioning units

PERFORMANCE

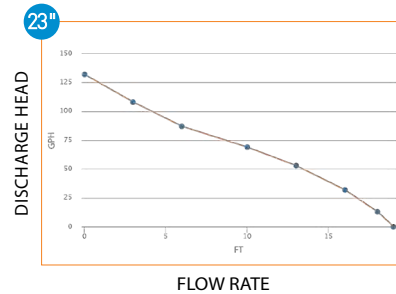
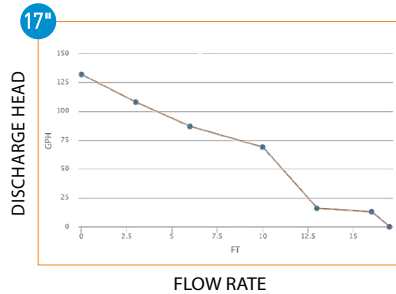
- 132 gph max. flow
- 17' shut off head (SI1801LHUS11)
- 23' shut off head (SI1801SCUS11/23)
- 23' shut off head (SI1801SCUS11T/23T)

✓ Key features

- Built-in safety switch
- Oil and acid resistant float
- Installation versatility



Actual flow rates (GPH)



Recommended accessories



Clear PVC hose, 3/8" i.d.
 Clear PVC hose, i.d.
 Sold in 20ft and 82ft rolls.
 (20 ft roll included with models ending in /T)
 • ACC 00120: 20 ft
 • ACC 00125: 82 ft



Replacement check valve,
 for 3/8" i.d. tubing
 • ACC 00801



pH Safe 1 Neutralization
 cartridge, for inner Si-1801
 • PH0100SIUN23

What's in the box



- Centrifugal tank pump with integrated barb end check valve
- 6' power cable, safety contact wires, 1' bare ends
- 20' of tubing (only included with models ending in "/T")
- Adaptor
- 2 screws, & 2 wall anchors

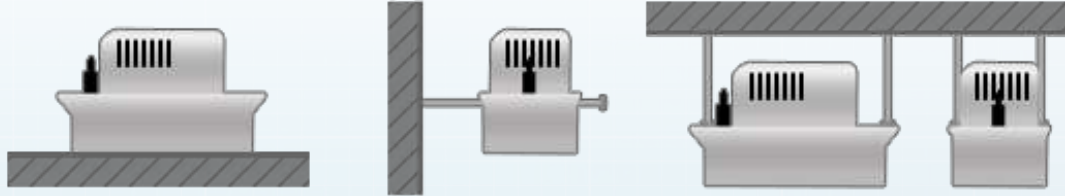


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 FOR ADDITIONAL
 SI-1801 TECHNICAL
 INFORMATION

Features and Benefits

Easy Install

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



High Resistance

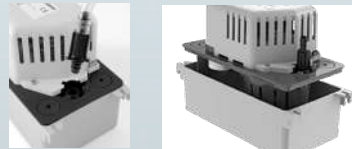
- Oil and acid resistant float
- Mechanical structure resistant to shocks

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 $\frac{3}{8}$ " i.d. hose plug in
- 4 inlet holes $1\frac{3}{16}$ " o.d.



Si-1801 tech specs

	17' LOW HEAD	23' W/ TUBING	23' W/O TUBING
MAX. FLOW RATE:	132 gph	132 gph	132 gph
SHUT-OFF HEAD:	17.5 ft @ 60Hz	23ft @ 60Hz	23ft @ 60Hz
SOUND LEVEL:	45 dBA according to EN ISO 3744 (Measured at LNE lab, pump operating w/ water, out of application)	45 dBA according to EN ISO 3744 (Measured at LNE lab, pump operating w/ water, out of application)	45 dBA according to EN ISO 3744 (Measured at LNE lab, pump operating w/ water, out of application)
POWER SUPPLY:	120V ~ 60 Hz - 85 W - 1.45A (SI1801LHUS11)	120V ~ 60 Hz - 85 W - 1.45A (SI1801US11/T) 230V ~ 50/60 Hz - 80 W - 0.72A (SI1801US23/T)	120V ~ 60 Hz - 85 W - 1.45A (SI1801SCUS11) 230V ~ 50/60 Hz - 80 W - 0.72A (SI1801US23)
DETECTION LEVELS:	On: $2\frac{3}{32}$ " • Off: $1\frac{21}{32}$ " • Safety: $2\frac{1}{2}$ "	On: $2\frac{3}{32}$ " • Off: $1\frac{21}{32}$ " • Safety: $2\frac{1}{2}$ "	On: $2\frac{3}{32}$ " • Off: $1\frac{21}{32}$ " • Safety: $2\frac{1}{2}$ "
SAFETY SWITCH:	NC 4A resistive - 42 V peak	NC 4A resistive - 42 V peak	NC 4A resistive - 42 V peak
MAX CONDENSATE TEMP:	150° F / Short Peak 176° F - 1m	150° F / Short Peak 176° F - 1m	150° F / Short Peak 176° F - 1m
MAX CONDENSATE ACIDITY:	pH > 2.5 (Gas Condensing Boilers)	pH > 2.5 (Gas Condensing Boilers)	pH > 2.5 (Gas Condensing Boilers)
THERMAL PROTECTION:	230° F auto-reset	248° F auto-reset	248° F auto-reset
OPERATING CONDITIONS:	120V - 30%: 3s ON - 7s OFF	120V - 30%: 3s ON - 7s OFF 230V - 30%: 3s ON - 7s OFF	120V - 30%: 3s ON - 7s OFF 230V - 30%: 3s ON - 7s OFF
PUMP DIMENSIONS:	11"L x $5\frac{3}{16}$ " W x $6\frac{5}{7}$ " H	11"L x $5\frac{3}{16}$ " W x $6\frac{5}{7}$ " H	11"L x $5\frac{3}{16}$ " W x $6\frac{5}{7}$ " H
SAFETY STANDARDS:	UL / CSA certified by Intertek	UL / CSA certified by Intertek	UL / CSA certified by Intertek
RoHS & WEEE DIRECTIVES:	Compliant	Compliant	Compliant
PACKAGING:	4.4 lbs ($11\frac{5}{8}$ " L x $5\frac{5}{16}$ " W x $7\frac{1}{4}$ " H)	6.2 lbs ($11\frac{5}{8}$ " L x $5\frac{5}{16}$ " W x $9\frac{7}{8}$ " H)	5.5 lbs ($11\frac{5}{8}$ " L x $5\frac{5}{16}$ " W x $7\frac{1}{4}$ " H)
MASTERPACK:	6 pieces	4 pieces	6 pieces