

DATA SHEET

Si-33

Piston pump

Sauermann® part #: SI33UL01UN12 - SI33UL01UN23



Compact design & higher performing power

The high capacity Si-33 (8.0 gph) is suitable for air-conditioning units from 20 kW up to 30 kW. The piston pump inside the Si-33 is specifically designed for removing condensates from air conditioning systems, whatever the environment.

Benefits



Patented technology

- High performance: pump suitable for air-conditioning units from 20 kW up to 30 kW
- High resistance to pollution created by general environment. Capable of discharging small particles
- Proven Reliability
- The Drain Safe Device retains prime and prolongs the pump life



Low sound level

- Low sound level in operation: 34 dBA independently tested
- 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
- Lockable plug-in power cord to avoid unintended disconnection



Energy saving

- Improved performance and high flow rate reduce operation time and energy consumption



Kit content

- Piston pump
- Clear PVC tube int. Ø 1/4" – L: 16 ft, fitted with a "Drain Safe Device" pre-mounted
- Anti-vibration mounting bracket
- 5' m lockable plug-in power cable: 2 power wires, 2 safety switch wires
- 6 tie wraps, 0.1" x 4"
- Detection unit (SI2958, 2' cable)
- Detection unit installation kit:
 - rubber elbow 90° int. Ø 0.6" x L 6",
 - vent tube int. Ø int. 5/32 x L 3",
 - mounting rail, adhesive

Technical specifications



Max. flow rate	8 gph
Max. suction head	13 ft
Max. discharge head	43 ft (flow rate = 2 gph)
Max pressure	60 ft (flow rate = 0 gph)
Sound level at 3.3 ft according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	≤ 34 dBA
Sound level in application at 3.3 ft (Measured in Sauermann acoustic lab, pump operating with water)	≤ 36 dBA
Mains supply	SI33UL01UN12: 120 V ~ 60 Hz - 21 W SI33UL01UN23: 230 V ~ 50/60 Hz - 21 W
Insulation class	□ (double insulation)
Detection levels	ON: $\frac{5}{8}$ " ; OFF: $\frac{7}{16}$ " ; Safety: $\frac{3}{4}$ " mm
Safety switch	NC 3 A resistive – 250 V
Thermal protection (overheating)	240 °F (auto-reset)
Max. condensate temperature	95 °F
Operating conditions	40 %: 3 s ON – 3 s OFF
Operating & storage temperature	+36 to +122 °F
Protection	IP20
Safety standards	UL / CSA certified by Intertek
RoHS directive	Compliant
WEEE directive	Compliant
Packaging	L $\frac{55}{16}$ " x W $\frac{55}{16}$ " x H 3 $\frac{17}{32}$ "
Weight (including box)	1.1 lbs
Masterpack	20 pieces

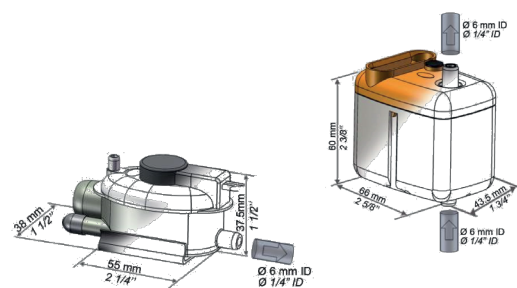
Applications

For use with any air-conditioning units, from 20 kW up to 30 kW:

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

Accessories

Name	#Part
 Clear PVC hose int. Ø 1/4" (6 mm)	ACC00909: 16' (5 m) ACC00910: 164' (50 m)
 Self-sealing fittings for hose int. Ø 1/4" (6 mm)	ACC00919



Actual flow rates (gph)

Total tube length using
(Ø int. 6 mm, 1/4") (C)

Suction head (A)	Discharge head (B)	15 ft	30 ft	60 ft	100 ft
0 ft	0 ft	8.0	7.1	6.9	6.6
	6 ft	6.9	6.3	6.1	5.8
	13 ft	5.8	5.6	5.3	5.0
	20 ft		4.8	4.5	4.2
	26 ft		4.0	3.7	3.4
	33 ft		3.2	2.9	2.6
	40 ft			2.1	1.9
3.3 ft	0 ft	6.3	6.1	5.8	5.6
	6 ft	5.3	5.0	4.8	4.5
	13 ft	4.5	4.2	4.0	3.7
	20 ft		3.4	3.2	2.9
	26 ft		2.6	2.4	2.1
	33 ft			1.6	1.3
6.6 ft	0 ft	5.6	5.3	5.0	4.8
	6 ft	4.5	4.2	4.0	3.7
	13 ft	3.7	3.4	3.2	2.9
	20 ft		2.6	2.4	2.1
	26 ft		1.9	1.6	1.3
	33 ft				
10 ft	0 ft	4.8	4.5	4.2	4.0
	6 ft	4.0	3.7	3.4	3.2
	13 ft		2.6	2.4	2.1
	20 ft		1.6	1.3	1.1
	26 ft				

