

DATA SHEET

Si-20

Piston pump

Sauermann® part #: SI20CE01UN23



Inside the unit pump

The Si-20 is designed to easily fit inside mini-split air conditioning. The piston technology is specifically designed for removing condensates from air conditioning systems. The Si-20 is fully reliable, in any kind of environment. Its operating sound level will remain silent whatever the volume of condensates.

Benefits



Easy installation

- Slim design.
- Rubber damper: allows the pump to be put directly inside the mini-split air conditioning.
- Adequate cable length.
- "Drain Safe Device" aids connection to the discharge pipe (pre-mounted).



Patented technology

- High performance: only one pump, for air conditioning unit up to 20 kW.
- High Reliability.
- High resistance to pollution created by general environment. Capable of discharging small particles.
- The Drain Safe Device retains prime and prolongs the pump life.



Silent

- Quiet in operation: 22 dBA.
- The size of the air-conditioning unit and volume of condensates to be removed does not affect the operational sound level of the pump.
- Unique rubber damper specifically designed to reduce vibration transmission to the mini split / wall.
- Anti-vibration and condensate insulation included on suction line.



Energy saving

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



Kit content

- Piston pump
- Clear PVC tube Ø int. 6 mm – L: 60 mm, fitted with a « Drain Safe Device » pre-mounted
- 2 anti-vibration rubber damper
- 1.5m power cable: 2 power wires, 2 safety contact wires
- Detection unit, 0.63 m cable
- Clear PVC tube Ø int. 6 mm – L: 0.63 m,
- Detection unit installation kit:
 - rubber elbow 90° Ø int. 15 x L 152 mm,
 - vent tube Ø int. 4 x L 75 mm,
 - mounting rail,
 - adhesive
 - 3 double wire clamps
 - 3 tie wraps, 2.5 x 200 mm


Technical specifications

Max. flow rate	20 l/h
Max. suction head	3 m
Max. discharge head	10 m - flow rate = 4 l/h
Max pressure	14 m - flow rate = 0 l/h
Sound level at 1m according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	≤ 22 dBA
Sound level in application at 1m (Measured in Sauermann acoustic lab, pump operating with water)	≤ 25 dBA
Mains supply	230 V~ 50 Hz - 14 W
Insulation class	□ (double insulation)
Detection levels	On: 16 mm; Off: 11 mm; Safety: 19 mm
Safety switch	NF 8 A resistive – 250 V
Thermal protection (overheating)	115 °C (auto-reset)
Max. condensate temperature	35 °C
Operating conditions	100 % - Continuous duty
Protection	IPX2
Safety standards	CE et EAC
RoHS directive	Compliant
WEEE directive	Compliant
Pump dimensions	L 136 x W 38 x H 37 mm
Packaging	L 173 x W 160 x H 72 mm
Weight (including box)	0,48 kg
Masterpack	6 pieces

Applications

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

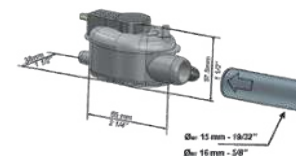
Accessories

Name	#Part
 Clear PVC hose Ø int. 6 mm (1/4")	ACC00909: 5 m ACC00910: 50 m ACC00914: Braided, 50 m



6 self-sealing fittings for hose
Ø int. 6 mm (1/4")

ACC00919



Actual flow rates (l/h)

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

Suction head (A)	Discharge head (B)	5 m	10 m	20 m	30 m
0 m	0 m	20	19	18	17
	2 m	16	15	14	13,5
	4 m	11,5	11	10,5	10
	6 m		8,5	7,5	6,5
	8 m		6	5	4
	10 m		4	3,5	2,5
0.6 m	0 m	14	13	12	11
	2 m	11	10	9	8
	4 m	7,5	7	6	5
	6 m		4,5	4	

