Accessories Condensate Pump



High performance condensate pump suitable for airconditioning units up to 20 kW

Condensate pump with piston technology, specifically designed for removing condensate from air-conditioning systems.

- Drain safe device retains prime and prolongs pump life
- Quiet operation: 20 dB(A) independantly tested according to EN ISO 3744
- Mounting bracket to facilitate installation to walls, ceilings or pipework. Designed to reduce vibration transmission to mounting surface
- Improved performance and high flow rate reduces operation time and energy consumption.

Accessories General information

Condensate pump

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Application	 Application Condensation pump for the removal of condensation from air-conditioning systems up to 20 kW Simple and quick installation on site 		Nominal size – Pump: 44 x 66 x 60 mm (W x L x H) – Float chamber: 38 x 55 x 38 mm (W x L x H)		
Description	 Technical data Supply voltage: 230V~ 50/60Hz - 14 W Max. flow rate: 20 l/hr Max. suction head: 3m Max. discharge head: 10m (flow rate: 4 l/hr) Max. pressure: 14m (flow rate: 0 l/hr) Sound level at 1m: 20 dB(A) according to EN ISO 3744 Sound level in application at 1m: ≤ 27 dB(A) Alarm contact: NC 8A resistive - 250V Thermal protection (overheating): 115°C (auto-reset) Operating conditions: 100% - continous duty Protection: IP20 		 Parts and characteristics Piston pump Anti-vibration mounting bracket Detection unit 1.5m Power cable (~1.0m free cable when pre-wire within TROX control enclosure) Maintenance Detection unit must be cleaned and serviced at regular intervals in accordance with the degree of polution existing within the pump operating environment 		
	Materials and surfa – Self extinguishing material)	a ces 9 body case (UL94 VO			

Kit contents



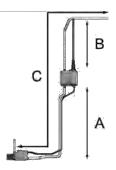
- Piston pump
- 1m long, ØID 6mm clear PVC tube fitted with drain safe device
- Anti-vibration mounting bracket
- _ 1.5m long (~1.0m free cable when pre-wired within TROX control enclosure), lockable plug-in power cable (2 power wires, 2 alarm contact wires)
- 6 tie wraps, 2.5 x 100mm
- Detection unit (SI2958, 1.5m cable)Detection unit installation kit;
 - - Rubber elbow, 90°, Ø15mm ID x 60mm
 - Vent tube, Ø4mm ID x 75mm
 - Mounting rail
 - Adhesive

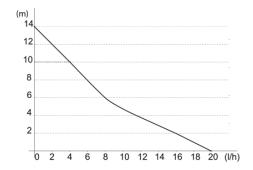
Accessories Technical data

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Table of true flow rate

	Discharge head 'B'	Total hose length [Ø6.0mm ID, 1/4"] - (C)				
Suction head 'A'		5m	10m	20m	30m	
~		Flow rate				
		[l/hr]				
	0m	20.0	19.0	18.0	17.0	
	2m	16.0	15.0	14.0	13.5	
0m	4m	11.5	11.0	10.5	10.0	
UIII	6m	-	8.5	7.5	6.5	
	8m	-	6.0	5.0	4.0	
	10m	-	4.0	3.5	2.5	
	0m	14.0	13.0	12.0	11.0	
1	2m	11.0	10.0	9.0	8.0	
1m	4m	7.5	7.0	6.0	5.0	
	6m	-	4.5	4.0	-	
	0m	11.0	10.0	9.0	8.0	
2m	2m	9.0	8.0	7.0	6.0	
	4m	-	5.5	5.0	4.5	
	0m	10.5	9.0	8.0	7.0	
3m	2m	8.0	7.0	6.0	5.0	
	4m	-	5.0	4.0	-	





Condensate pump

Installation guide

Safety warning

- Risk of electric shock. Ensure power supply to the unit/system is disconnected before attempting to install, service or remove any component.
- The pump unit must not be immersed in water, installed outside, stored in a damp environment or exposed to frost
- This pump has not been investigated for use in swimming pool or marine areas.
- CAUTION: Pump has been designed for use with water only. All condensate collection elements (collection tray, connecting tubes, outlets etc...) must be cleaned thoroughly prior to installation.
- The pump is supplied with :
 A self-resetting thermal cut-out set at 115°C (239°F).

- A self extinguishing body case (UL94 VO Material)

Pump power supply

- Connect pump Phase and Neutral terminals to the FCU unit's power supply or to the mains supply by means of wiring to comply with local wiring regulations. We suggest use of :
- An interconnecting power cable (CE: HO5 VVF 2 x 0.5 mm2; UL/CSA: 2 x 0.5mm² (AWG20) certified UL2464 - 80°C - 300V) which must be fastened securely to the wall, to avoid inadvertent disconnection during installation and later servicing.
- This connection should be equipped with an electrical isolation device (2A fused spur, customer provided) to the Phase and Neutral. The pump must be powered by an electrical circuit protected against overvoltage> 2.5kV.

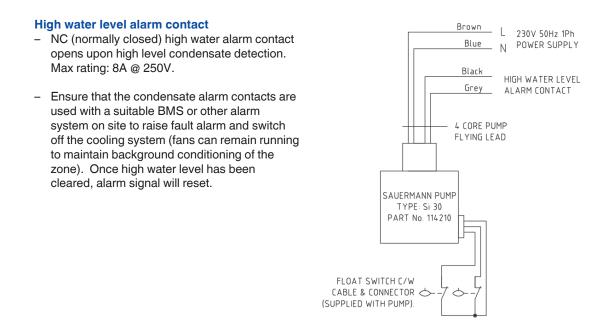
 IMPORTANT: If connected to a power supply that may be switched 'off' when the fan coil unit fan(s) or valve actuator(s) are switched 'off', ensure CHW supply is isolated or in bypass to prevent high level condensate.

Pump alarm contact

IMPORTANT: Connecting the cable of the alarm contact is indispensable to avoid any risk of overflowing. For correct connection, refer to the appliance instructions.
 The pump is equipped with a NC high water alarm contact with a maximum rating of 8A/250V (alarm cable CE: 2 x 0.5mm2, UL/CSA: 2 x 0.5mm2 (AWG20)).This contact may be used to switch off the cooling system where there is a risk of condensate overflow (after thorough verification by the installer of the customer's specific application and the resultant electric wiring diagram).

Initial operational test

- Clean the condensate tray of any debris leftover from manufacture or unpacking of the fancoil unit
- IMPORTANT: To prevent damage to the condensate pump, *DO NOT* connect power supply cable to condensate pump until the drip tray is clean and water is available to prime the pump.
- IMPORTANT: To prevent damage to the condensate pump, ensure 'drain safe' connector is installed between pump and building condensate pipework.
- Pour water into the condensate drip tray using a suitable container
- Check that the pump unit starts & then stops as the water level decreases.
- Check alarm contact by continuing to pour water until the alarm triggers (cutting off the compressor, generating an alarm)



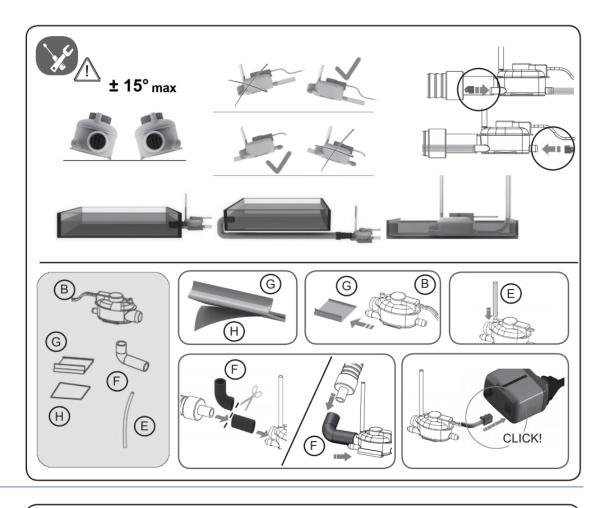
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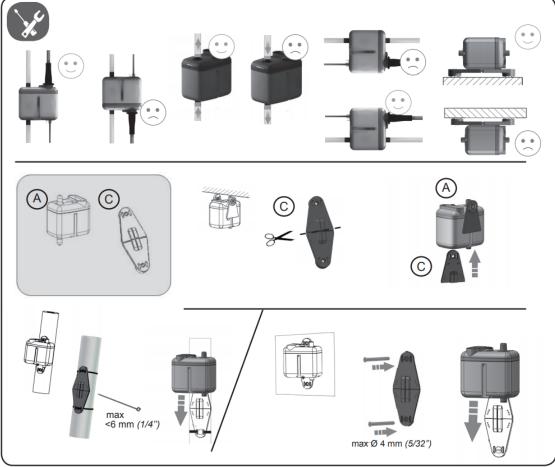
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Accessories Installation

Detection unit



Pump unit

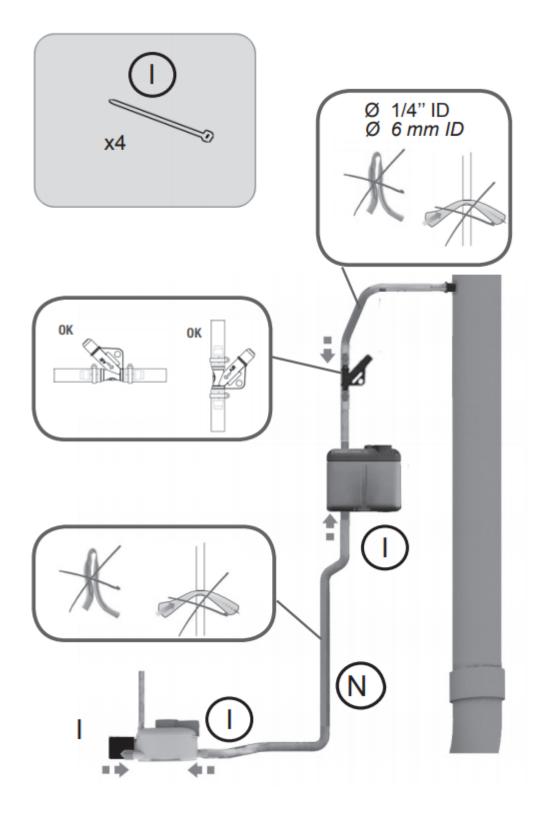


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Accessories Installation

Installation guide



Accessories Installation

