


AIR CONDITIONING / REFRIGERATION



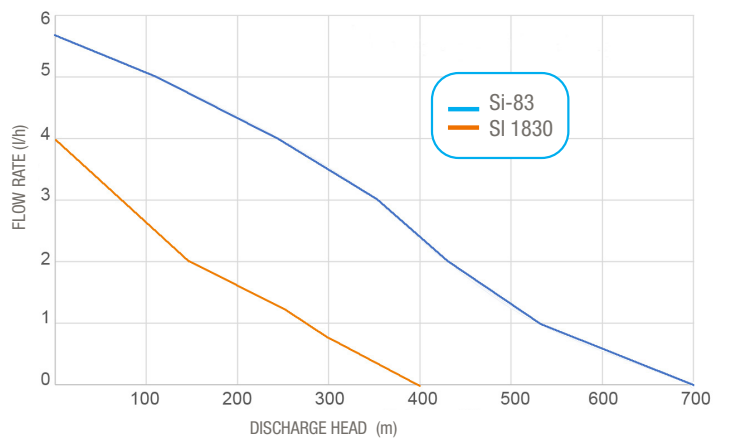
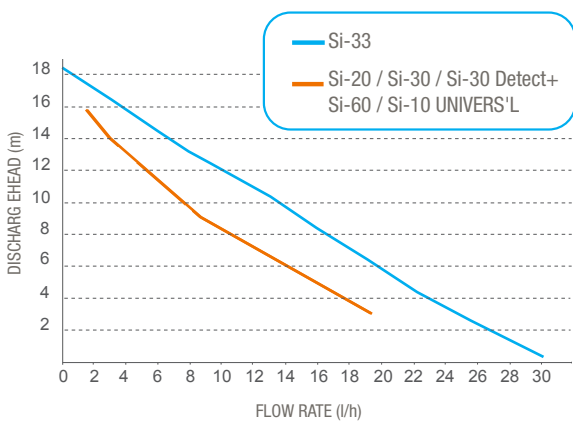
MEASURING INSTRUMENTS



# Pump selection chart

		Equipment						Location					
		Wall mounted	Cassette	Multi cassette	Conditioning cabinet	Floor standing	Ducted unit	Suspended ceiling unit	Inside the unit	Inside ducting	Wall mounted	Floor mounted	False ceiling
	Si-83			x	x			x				x	x
	Si-1931				x							x	
	Gel-Clear				x								
	Si-30 Si-33	x				x		x					x
	DELTA PACK	x									x		
	Si-10 UNIVERS'L		x			x		x	x				x
	OMEGA PACK	x									x		
	Si-20	x						x	x				
	Si-1822			x	x		x					x	x
	Si-1850			x	x		x					x	x
	Si-1830			x	x		x	x	x			x	x
	Si-60				x	x	x		x				x
	PE5000 PE5100 PE5200	x	x										x
	Si RV3 / Si RM3	x	x	x	x	x	x	x					

## Actual flow rates



# Si-83

## Centrifugal pump with 2 l tank

For cassette and fan coil air-conditioning systems



Ref :

SI83CE74UN23



### Quick and Easy installation

6 inlet options  $\varnothing$  30 mm  
Low-profile design (129mm).



### Quick and Easy Maintenance

Removable anti-return valve.  
No need to remove pump from installation to clean.

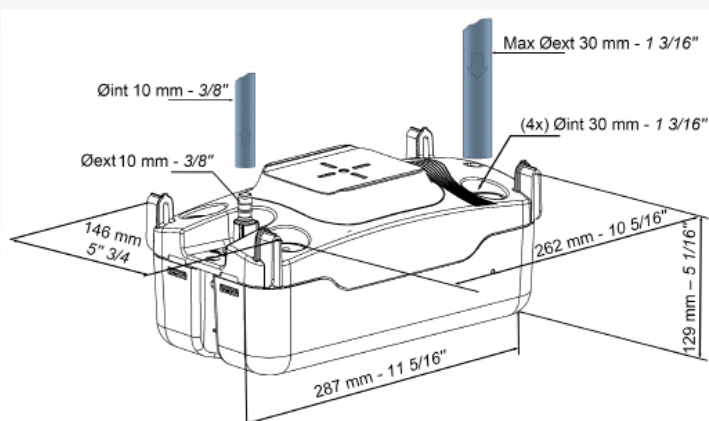


### Si-83 MobileApp : Tools and tips



## Kit contents

One-piece centrifugal pump - Tank (2 l) - Built-in 10 mm ext.  $\varnothing$  non-return valve - Plug-in cable: power (2 m, European IEC socket) and safety contact (1.5 m, bared wires) – Straight connector ext.  $\varnothing$  10 mm / ext.  $\varnothing$  6 mm; 2 plugs + 2 screws.



## Technical specifications

	Si-83
Max. flow rate	700 l/h
Max. discharge head	5,4 m (65 l/h)
Max pressure (flow rate 0)	5,7 m
Mains supply	230 V~ 50 Hz - 115 W – 1.4 A
Sound level at 1m Measured in Sauerermann acoustic lab, pump operating with water	<45 dBA
Protection	IP20

\* To EN ISO 3744. LNE measurement, on pump running with water, out of application.

# Si-1931

## Supermarket Condensate pump

For supermarket refrigerated display cabinets



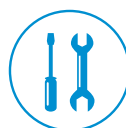
Ref :

SI1931CE01UK23



### 3 inlets

Three inlet points: top, right or left.  
Universal inlet adapter 32-40-50.



### Easy installation

Ultra-flat profile: 80 mm high. Plug in cable.  
Easy access.



### Reduced operation costs

Preventing the formation of biofilm reduces the risk of water leaks and extends pump life.

### Kit contents

Stainless Steel unit including: Dairy pump with a power cable and a 13 mm outlet, Rubber bellows inlet adapter, inner diameter 32, 40 and 50 mm, Outlet adaptor, diameter 10 mm, Hard plastic inlet adapter, diameter 40 mm, Two Gel clear tablets.

### Technical specifications

	SI-1931
Maximum flow-rate	700 l/h
Maximum discharge head	24.6 m
Pump sound level @ 1 m	≤ 60 dBA
Detection levels (mm)	ON: 50 mm, OFF: 37 mm, Alarm: 54 mm
Mains supply	230 V~ 50 Hz – 132 W – 1.0 A
Protection	IP20

\* To EN ISO 3744. LNE measurement, on pump running with water, out of application.

## Gel-Clear

### Condensate Drain Tablets

For supermarket condensate pumps



Ref :

1 pack: SPSI93T1

10 pack: SPSI93T10

108 pack: SPSI93T108



Keep condensate drain clear



Reduces water leak call out by 90-100%



6 months protection

### Special Features

6 months protection, NSF approved, Pump safe, Non-corrosive to metals, 100% biodegradable, No ecological toxicity.

### Directions to use

Prior to use, ensure that the drains are flowing and free from blockages. Simply place the tablet at the highest end, adjacent to the coil, away from the drain outlet, ensuring its in contact with the water. If it is a central drain, two tablets can be used if preferred, but only one is necessary to prevent biofilm in the drains.

The tablets dissolve in 6-8 weeks, however the ongoing effect of the tablet will last up to 6 months.

The tablets should be replaced 6 monthly, cabinet stickers are issued with tablets to identify installation/ replacement date.

# Si-30 / Si-33

## Mini pumps with float detection

For air conditioning systems



### Ref :

Si-30 : SI30CE01UN23

Si-33 : SI33CE01UN23



### Manufactured for purpose

The patented Sauermann technology is designed specifically for discharging contaminated condensates produced by air-conditioning systems. 100% operating cycle.



### Reliable

No risk of siphoning, due to the pre-installed Drain-Safe Device.

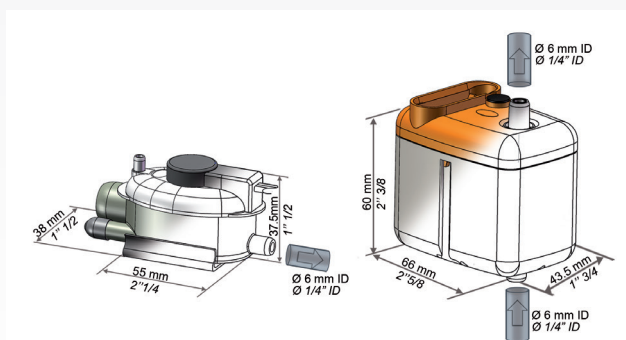


### Versatile installation

The three way mounting bracket gives the installer flexibility when siting the pump and can be fixed to the wall, pipework or ceiling suspended.

## Kit contents

Pump - Transparent PVC tube int. Ø 6 mm L 1 m, fitted with "Drain-Safe Device" connector - Anti-vibration mounting bracket - Lockable, plug-in 1.5 m cable with NC safety contact wire - 6 cable ties - Detection block (SI 2958) with installation kit: 90° connector int. Ø 15 mm × L 60 mm, vent pipe, mounting rail, adhesive.



Si-30 : can replace SI3080, SI3100, SI3200  
Si-33 : can replace SI1730

## Technical specifications

	Si-30	Si-33
Maximum flow-rate	20 l/h	30 l/h
Maximum suction height	3 m	4 m
Maximum discharge head	10 m (flow rate = 4 l/h)	> 13 m (flow rate = 8 l/h)
Pump sound level @ 1 m	20 dBA	34 dBA
Detection levels (mm)	ON : 16, OFF: 11, Safety : 19	
Mains supply	230 V ~ 50 Hz 14 W	230 V ~ 50 Hz 21 W
Protection	IP20	

\*To EN ISO 3744. LNE measurement, on pump running with water, out of application.

# DELTA PACK

## Piston pump and trunking system

For wall-mounted air-conditioning units

**Ref :**

80x60 mm cream RAL 9001 : DP10CE06UN23

80x60 mm white RAL 9003 : DP10CE05UN23



### Complete system

Pump and trunking kit for a quick and easy solution.



### Multiple choice

80x60mm, white or cream. Can be mounted to either side of the air conditioning unit.



### Operation level

High energy absorbing foam inside the elbow, anti-vibration insulation.

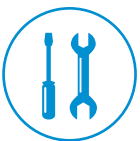
**Kit contents :** Si-10 UNIVERS'L pump – 1 m long discharge pipe with foam insulation and "Drain-Safe Device" connector - Lockable, plug-in 1.5 m cable with NC safety contact wire – 2-part elbow (base and cover) – 750 mm duct with Elbow/Duct and Elbow/Split joiners - Ceiling fitting - 0.5 m long flexible hose for connection to split - Vent pipe - 6 fixing plugs and screws - 2 hose clips.

# Si-10 UNIVERS'L

## Replacement pump for trunking corner pieces

For wall-mounted air-conditioning units

**Ref :** SI10CE03UN23



### Universal

Replacement pump for the majority of pump in trunking systems.



### Technical specifications

	Si- 10 UNIVERS'L
Maximum flow-rate	20 l/h
Maximum discharge head	10 m (flow rate= 4 l/h)
Pump sound level @ 1 m	22 dBA
Detection levels (mm)	ON: 16, OFF: 11, Safety : 19
Mains supply	230 V ~ 50 Hz 14 W
Thermal protection	115°C (auto-reset)
Protection	IPX4

\*at 1m according to EN ISO3744

# OMEGA PACK

## The under the unit pack

For mini-split air conditioning

Ref :

OP20CE02UN23



### Easy installation

Complete installation kit with pre-mounted pieces.



### Reliability

The Drain Safe Device included to prolong the life of the pump.



### Operation level

Anti-vibration rubber dampers.

### Kit contents

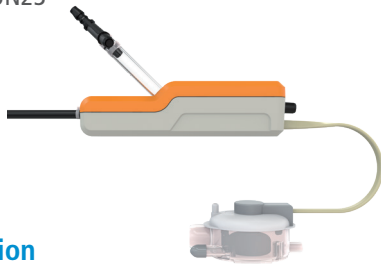
Si-20 piston pump with detection unit (0.63 m cable), 2 anti-vibration rubber dampers, clear pvc tubing int. Ø 6 mm fitted with a drain safe device - Power cable 1.5m (2 power wires, 2 safety wires)- Shell (2-part: backplate & cover) - Screws & plugs for affixing backplate 90° rubber elbow Ø int.15 mm x L 152 mm - Vent tube - 3 Double Wire Clamps - 3 Tie Wraps.

## Si-20

### Inside the unit piston pump

For wall mounted and floor standing units

Ref : SI20CE01UN23



### Easy installation

Slim design. Rubber damper : allows the pump to be put directly inside the unit.



Vidéo : How to install an Si-20

### Technical specifications

	Si-20
Maximum flow-rate	20 l/h
Maximum discharge head	10 m (flow rate= 4 l/h)
Pump sound level @ 1 m	22 dBA
Detection levels (mm)	ON : 16, OFF: 11, Safety : 19
Mains supply	230 V ~ 50 Hz 14 W
Thermal protection	115°C (auto-reset)
Protection	IP20

\*To EN ISO 3744. LNE measurement, on pump running with water, out of application.

# Si-1822 / Si-1850

## Heavy Duty Centrifugal pumps

For air conditioning units and industrial refrigeration displays



### Ref :

SI1822SIUN23

SI1850SIUN23



### High performance

Reduces operating cycle number thanks to integrated large tank of 3.8 liters.



### High Resistance

Suitable for mild acid and hot condensate. Thermal protection.



### Safety

Normally closed alarm contact.



# Si-1830

## Centrifugal pump with 0.5 l tank

For cassette and fan coil air-conditioning systems

### Ref :

SI1830SCAN23

### Kit contents Si-1822 / Si-1850

One-piece centrifugal pump with tank (3.8L), Integrated barb end check valve Ø ext. 10 mm (3/8").

### Kit contents Si-1830

Pump with 0.5 l tank – Power cable: 1.5 m, European IEC plug, safety contact cable: 1 m, 2 wires (NC contact), Installation kit: 2 screws + 2 plugs, 5 m of transparent PVC hose 10 mm int. Ø, flexible adapter 15-24-32-40 mm Ø.

### Technical specifications

	SI-1822	SI-1850	SI-1830
Maximum flow-rate	380l/h	1100l/h	400 l/h
Maximum discharge head	5.8 m	10 m	3,7 m
Pump sound level @ 1 m	≤ 47 dBA	≤ 66 dBA	≤ 43 dBA
Detection levels (mm)	ON: 75 mm, OFF: 20 mm, Safety: 90 mm	ON: 81 mm, OFF: 48 mm, Safety: 101 mm	ON : 32, OFF : 25, Safety: 39
Mains supply	230 V~ 50 Hz – 90 W	230 V~ 50 Hz – 220 W	230 V~ 50/60 Hz -75 W
Protection	IP20	IP20	IPX4

\* To EN ISO 3744. LNE measurement, on pump running with water, out of application.



# Si-60

## Piston pump with 0.5 L tank

For ducted air conditioning systems

Ref :

SI60CE01UN23



### Lockable cable

Twist lock power cable for a secure connection.



### Innovative detection

Intergrated float detection system reliable in all types of environment.



### Multi Purpose

Top and bottom inlet. Can be semi-submersed in a condensate drain pan.



### Kit contents

Pump - Lockable, plug-in 1.5 m cable with NC safety contact wire - Installation kit: adapter int. Ø 15-20-24-32-40 mm, rubber 90° connector int. Ø 15 mm × L 60 mm, plastic 90° connector for 6 mm int. Ø flexible tube, 1 off 2.5 × 100 mm cable tie.

### Technical specifications

	Si-60
Maximum flow-rate	20 l/h
Maximum discharge head	10 m (flow rate = 4 l/h)
Pump sound level @ 1 m	< 38 dBA
Detection levels (mm)	ON : 28, OFF : 24, Safety : 35
Mains supply	230 V ~ 50 Hz 14 W
Protection	IPX4

\* To EN ISO 3744. LNE measurement, on pump running with water, out of application.

# PE5000 / PE5100 / PE5200

## Peristaltic pumps

For air conditioning applications up to 8 kW

### Ref :

PE5000 : PE5000SIUN23

PE5100 : PE5100SIUN23

PE5200 : PE5200SIUN23



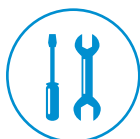
PE 5000



PE 5200



PE 5100



### Easy maintenance

Quick fit replacement head and tubes.



### 3 detection systems

PE5000 : compressor signal

PE5100 : temperature differential sensors

PE5200 : float detection unit



### Operation Level

Very silent operation.

### Kit contents

Pump - Cable: 1.7 m, including 2 wires for power supply (P &N), 1 wire for compressor signal - Easy «1 screw» sliding plastic bracket - Ø 15 mm to Ø 6 mm adaptor + pale yellow rubber Ø 15 x 35mm (PE5003).

Additional kit for PE5100 : 2 thermal probes with 3.5m cable: Red cap for ambient air. Blue cap for fresh air.

Additional kit for PE5200 : detection unit (SI2958, 1.5m cable) - Detection unit installation kit : Pale yellow rubber (Ø 15 x 35mm). Vent tube Øint 4 x L 75 mm. Mounting rail. Adhesive.

### Technical specifications

	PE5000 / PE5100 / PE5200
Maximum flow-rate	6 l/h
Maximum discharge head	2 m
Pump sound level @ 1 m	≤ 30 dBA
PE5200 - Detection levels (mm)	ON : 16, OFF: 11, Safety: 19
Mains supply	230 V~ 50/60 Hz -75 W
Protection	IPX4

\* To EN ISO 3744. LNE measurement, on pump running with water, out of application.

# MEASURING INSTRUMENTS RANGE

It's all about simplicity

For indoor quality



**Si VV3**  
VANE THERMO-ANEMOMETER



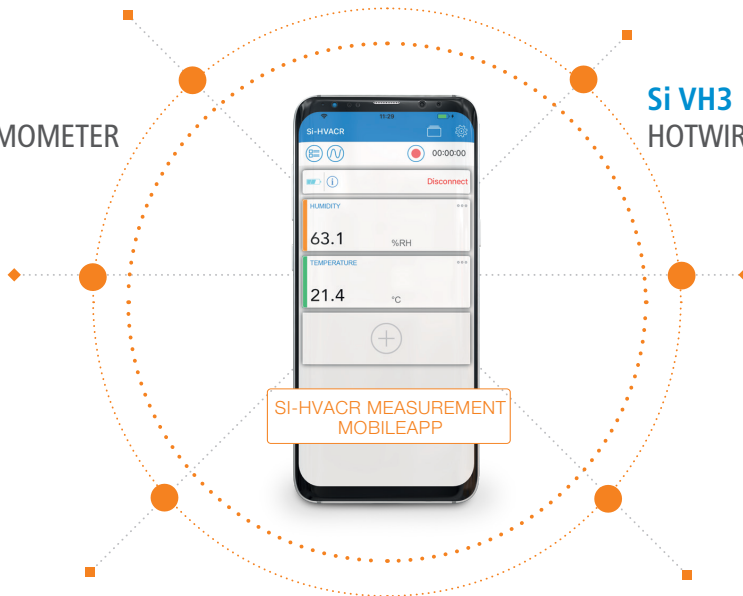
**Si TT3**  
DUAL INPUT THERMOMETER



**Si TI3**  
INFRARED THERMOMETER



**Si VH3**  
HOTWIRE THERMO-ANEMOMETER



**Si HH3**  
THERMO-HYGROMETER



**Si PM3**  
DIGITAL DIFFERENTIAL  
PRESSURE MANOMETER

# Si RM3

## Smart wireless manifold probes



### Kit contents

2 pressure probes, 2 temperature clamps, Adjustment certificate, Simplified User Manual, 6 AAA batteries, Elastomer rings, Soft case.

### Technical data

	Pressure Probes		Temperature Clamps
Measuring range	-1 to 60 bar / -14 to 870 psi	Measuring range	-40 to 150°C / -40 to 302°F
Pressure sensing accuracy	±0.5% of full scale	Temperature accuracy	±1.3°C / ±2.4°F
Overload	65 bar / 943 psi	Temperature sensor	High accuracy NTC thermistor
Burst pressure	150 bar / 2175 psi	Pipes diameter	6 to 42 mm / 0.2" to 1.7"
Battery life	250 h	Cable	2 m / 6 ft length
Protection	IP54	Protection	IP54



# Si RV3

## Smart wireless vacuum probe

### Technical data

	Si RV3
Measuring range	25,000 to 5 microns
Pressure sensing accuracy	±10% of the measured value ±10 microns
Overload	10 bar / 145 psi
Burst pressure	27.5 bar / 400 psi
Battery life	250 h
Protection	IP54



Download  
Si-Manifold APP



# KH 50 / KT 50

## Temperature/Humidity



### KH 50

- 1-line display
- Internal sensor
- Battery life: 365 days\*

Measuring range

🌡️ -20 to +70°C

☁️ 5 to 95 %RH



### KT 50

- 1-line display
- Internal sensor
- Battery life: 500 days\*

Measuring range

🌡️ -40 to +70°C



**CK 50:** USB cable - micro USB

This cable allows you to connect your KISTOCK to your PC.

**KH 50 kit:** KH 50 + CK 50

**KT 50 kit:** KT 50 + CK 50

Technical specifications	KT 50	KH 50
Units displayed	°C, °F	°C, °F, %RH
Resolution	0.1°C, 0.1°F	0.1°C, 0.1°F, 0.1%RH
External inputs	Micro-USB connector	
Setpoints alarms	2 setpoint alarms on each channel	
Internal sensor	Temperature	Humidity, temperature
Frequency of measurement	From 1 minute to 24 hours	
Operating temperature*	From -40 to +70°C	From -20 to +70°C
Storage temperature	From -40 to +85°C	
Battery life	500 days**	365 days**

# DF 110

## Detector of refrigerant gases and hydrogen (H2)

For detecting refrigerant and hydrogen leaks



Detection of all the HCFC and HFC refrigerants.



Detection of mixtures 5% hydrogen - 95% nitrogen (Nidron 5).



Heated diode sensor.



### Protective cover

CQ 15 Protective cover with integrated magnets, For class 50 / 110 portable instruments.

### Kit contents

Devices are supplied with: Verification certificate, Transport case, Test sample containing refrigerant gas, Filter.

### Technical specifications

	DF 110
<b>Detected gases</b>	<b>HFC:</b> R134a, R404a, R407c, R410a, R32, R422a/b/c/d, R425a, R507a, R125 <b>HCFC:</b> R22 <b>CFC:</b> R12, R502 <b>Others:</b> H <sub>2</sub> , R290, R600a, HFO-1234yf, HFO-1234ze
<b>Measuring element</b>	Semi-conductor sensor
<b>Display</b>	13 leds: - 8 for the graphic visualization of thresholds - 3 for the sensitivity of detection - 2 for the battery level and manual autozero
<b>Indication</b>	LED: gradual lighting up when the gas concentration increases Audible : the beep frequency increases when the gas concentration increases.
<b>Probe</b>	Flexible, 300 mm length
<b>Autonomy</b>	> 12 hours
<b>Housing</b>	Anti-choc ABS, protection IP54

# DBM 620

## Airflow / Pressure / Air velocity

For airflow commissioning and balancing



Switch between hoods quickly and easily.



Micromanometer Function.



SmartKap mobile App Data reading & reporting.



### Tripod

**26456:** Telescopic tripod with casters, length from 1.20 to 4m, supplied with soft case. For DBM 620 and measurement grid.

### Kit contents (standard DBM 620)

1 Base including the measurement grid and a temperature and hygrometry probe, 1 Removable measuring unit with Bluetooth® connection and 4 alkaline batteries LR6 AA 1.5V 1 Hood of 610 x 610 mm (2 x 2 ft) with flow straightener and foldable frame, 1 Sheath including the 4 frame fixing rods, 2 x 0.80 m of silicone tube, Replacement hinges for frames, 1 Transport case, 1 Calibration certificate.

### Technical Specifications

DBM 620 can be used on any supply or exhaust, air distributors: rectilinear, helical and toric.

- Quick and simple hood changes
- Measuring range from 40 to 3,500 m<sup>3</sup>/h
- Simultaneous display of airflow and temperature
- Automatic airflow direction (extraction or air blast)
- Supplied with 610x610 mm hood
- 4 others hoods are available as options: 720x720 mm, 720x1,320 mm, 420x1,520 mm, 1,020x1,020 mm

# ACCESSORIES

## Detection Mini Pump



### Rubber extension

ACC00931: For connecting the AC condensate tank outlet to a mini pump detection unit. Ø 15mm (9/16"). Length : 500mm  
Previously Ref ACC00106



### Multi diameter reducing adapter

ACC00927: To connect tubes of Ø 6 mm (1/4") or Ø 10 mm (3/8") to tubes of Ø 12 mm (1/2") or 16 mm (5/8").  
Previously Ref PE5003

## Spare Parts



### Detection unit

SI2958: For replacing the detection unit when necessary. Si-30, Si-33, PE 5200.



### Extension cable

SI2958: Extension cable to increase the length between the detection unit and the pump.

ACC00942 3m Extension cable. Previously Ref ACC00703

ACC00943 5m Extension cable. Previously Ref ACC00705



### Non-return valve

ACC00925: For replacing the non-return valve when necessary in Si-83, SI 1830. Previously Ref ACC00801



### Replacement tube

PE5002: Replacement tube of the peristaltic pumps PE5000, PE5100 and PE5200.



### Drain safe device anti siphon Ø 6 mm (1/4")

ACC00922: This drain safe device ensures there is no siphoning effect and that the pump will not run dry and stop working. Suitable for 6 mm (1/4") clear PVC tubes. Previously Ref ACC00216



### Glued fitting

ACC00921: This fitting is perfect for connecting clear tubing to new/first PVC tubing installations with glue recommended on the PVC end. Select inlet and outlet diameters according to installation. Inlet : clear PVC tube Ø 6 or 10 mm (1/4" or 3/8").  
Outlet : PVC tube Ø 21 or 40mm (1/2" or 1 1/4").



### Float Detector

ACC00601: Used to operate an additional safety or switch on the pump.

## Tank Pump Accessories



### Rubber multi diameter condensate inlet adapter

ACC00939: size multi adapter to be used for a range of different tubes Ø 15/17 -20 - 24/25 - 32 - 40mm (5/8" - 3/4" - 1" - 1" 1/4 - 1" 1/2). Previously Ref ACC02040



Sauermann Australasia Pty Ltd

Ph: +61 2 8880 4631 E-mail: juliana.freire@sauermanngroup.com

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