

# PRODUCT RANGE

## CONDENSATE REMOVAL PUMPS

AIR CONDITIONING

HEATING

REFRIGERATION

Asia Pacific

USA

Europe

Africa



 **sauermann**<sup>®</sup>

FRANCE - ITALY - UNITED KINGDOM - GERMANY - IBERIAN PENINSULA - SCANDINAVIA, RUSSIA AND BALTIC COUNTRIES - USA - CHINA - HONG KONG

[www.sauermannpumps.co.uk](http://www.sauermannpumps.co.uk)

## SAUERMANN®, A REFERENCE BRAND FOR OVER 30 YEARS:

**1976**: Creation of Sauer mann Industrie (France)

**2006**: The Sauer mann® \*Group is made up of 7 international subsidiaries and 2 sales offices established in Europe, America and Asia.

Sauer mann® entrenches, within its corporate culture, its ambition to be the privileged partner of its customers and commits itself, through the skills and experience of its workforce, to attaining qualitative excellence, technological innovation and adopting an eco-friendly and socially responsible corporate policy.

**2007**: **Customer satisfaction** remains the **core value of the Group**.

Sauer mann®, determined to go beyond simple awareness, adopts a programme of actions formalised by a **3-point commitment charter that it is already signed up to**:

**Conceiving the innovations of the future**: by continuously investing heavily in Research and Development programmes and by adhering to a policy of technical excellence, the Sauer mann® Group is committed to offering its customers products that, from their conception to their use and from their very core to their final design, reflect innovation at its best.

**Imagining the environment of the future**: by integrating the principles of sustainable development as part of the company's decision making process and by elaborating products stemming from eco-design, the Sauer mann® Group affirms its voluntary approach. Its aim, through its policy of socially responsible corporate behaviour, is to put in place all necessary means to contribute actively to preserving our environment.

**Developing the quality policy of the future**: by unfailingly reinforcing the permanent control of its products, the continuous improvement of its services and the efficiency of its After Sales Service, by imposing on itself compliance with European and International Directives and Standards and obtaining certifications awarded by independent and certified laboratories, the Sauer mann® Group places listening to its customer at the heart of its quality policy.

*The company and its production sites are AFAQ, TÜV and IQ Net certified. Its products are CETLUS, VDE and CE certified and comply with the **RoHS and WEEE** European Directives.*





## CONDENSATE LIFT PUMPS ... FAQ

### What are condensates?

Air conditioning, industrial refrigeration and gas condensing heating units lead to the formation of condensates (drops of water caused by the flow of warm, humid air over the evaporator).

### What are condensate removal pumps used for?

Condensate removal pumps, comprising a pump unit and an independent or built-in detection system, enable, in the absence of any slope (gravity flow), condensation water to be evacuated towards a waste water "pipe".

### What are their advantages?

Their use enables the interior aesthetics of the place of installation to be respected by avoiding the presence of unsightly pipe work. The installation is simple, easy and secure thanks to detection systems.

The presence of check valves limits the risks of bacterial contamination caused by the stagnation and return of waste water.

### What technology is used?

Condensate removal pumps can be mono or bi blocks and operate according to 4 different technologies.

#### 1. Oscillating piston pumps

A piston sucks up then evacuates the condensation water.

#### 2. Centrifugal pumps

A turbine evacuates the condensation water.

Designed to cope with high flow rates, they are suitable for evacuating condensates known as "charged" condensates.

#### 3. Peristaltic pumps

The compression of a pipe by a roller draws off the condensates, whether charged or not.

The pumps are self-priming and can operate without water.

They must not be operated continuously.

#### 4. Membrane pumps

The movement of a membrane, generated by 4 pistons, evacuates the condensation water, whether charged or not.



RAPID PLUG IN CONNECTION



## AIR CONDITIONING

WALL SPLIT SYSTEMS

CONSOLE UNITS / FAN COILS

CEILING SUSPENDED UNITS / DUCTED UNITS

### MONO BLOCK, MINIMUM SIZE, MAXIMUM SILENCE

**Mono block piston pump with a built-in 3 level detection unit.** Its ergonomics make it ideal for tank outlet units or directly beside the air conditioning unit. Its design and its anti-vibration bracket fitted with rubber dampeners means it is **one of the quietest on the market when in operation.**

### BENEFITS

**Extremely silent operation**

**Complete installation kit \*\***

**Small size**

**Reduced maintenance:** the absence of a filter reduces clogging

**Rapid connection**

**Reversible bracket**

### RECOMMENDED ACCESSORIES



#### PVC TUBING

- ACC 00105:** clear tubing Ø 6 mm, 5 m.
- ACC 00150:** clear tubing Ø 6 mm, 50 m.
- ACC 00151:** reinforced clear tubing Ø 6 mm, 50 m



#### DRAINAGE FITTING

- ACC 00205:** 6 self-sealing fittings for condensate removal.



#### RUBBER ELBOW

- ACC 00208:** rubber elbow 90° Ø 15 x Ø 15 mm.



#### RUBBER HOSE

- ACC 00209:** «S» type rubber hose, Ø 15 x Ø 15 mm.

## SI 1082

MINI MONO BLOCK PUMP  
for air conditioners up to **10 kW**

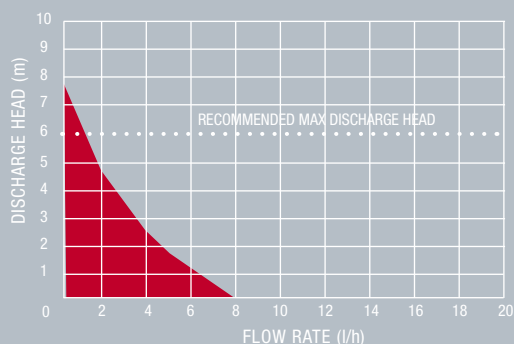
#### TECHNICAL CHARACTERISTICS

Max flow rate	8 l/h
Max discharge head	6 m
Electric power	10 W
Electric voltage	230 V~ 50/60 Hz
Alarm contact	NC 8 A resistive - 250 V
Thermal protection (overheating)	90° C
Detection	integrated
Detection levels in mm	On: 18, Off: 12, Alarm: 21
Protection	IP 54
Sound level at 1 m*	21.5 dBA
Safety standards	CE, VDE
RoHS and WEEE directives	complies
Master pack quantity	25 pieces

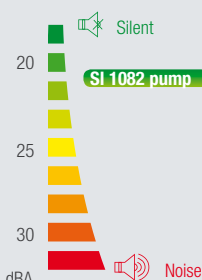
Ref. Sauermaier SI 1082      SI1082SIUN23

Dimensions in mm	Length	Width	Height
Pump	66	44	77

\*\*Kit contents : Pump/1.5 m cable/Metal bracket with flexible rubber dampeners/  
Rubber inlet tube: Ø 15 int. x 35 mm/Vent tube.



#### SOUND LEVEL\*



\*Measured on the pump operating alone with water in accordance with NF Standards by the LNE (French National Metrology and Test Laboratory), an officially approved and certified body.

## NEW 2008

Flat cover  
80 x 60 mm duct

## AIR CONDITIONING

### WALL SPLIT SYSTEMS

## READY TO INSTALL AND READY TO USE

This complete kit intended for wall mounted air conditioning units includes the SI 1082 mono block piston pump with built in detection unit equipped with its new anti-vibration bracket, 75 cm of 80 x 60 mm duct, clip-on cover and mounting accessories (ceiling duct, 1.50 m cable, 50 cm rubber tube, joints, mounting template, support clamps and screws).

## BENEFITS

### Extremely silent unit:

Noise insulation foam, anti-vibration brackets and direct wall mounting.

### Easy to install :

- Reversible, enabling it to be mounted on the left or right of the air conditioning unit
- No visible edge to edge connection
- Rapid plug in electrical connection
- More room for routing  $\varnothing$  5/8"-3/8" refrigerated tubing
- **Reduced maintenance:** the absence of a filter reduces clogging

## RECOMMENDED ACCESSORIES



### PVC TUBING

- ACC 00105:** clear tubing  $\varnothing$  6 mm, 5 m.
- ACC 00150:** clear tubing  $\varnothing$  6 mm, 50 m.
- ACC 00151:** reinforced transparent tube.  $\varnothing$  6 mm, 50 m



### DRAINAGE FITTING

- ACC 00205:** 6 self-sealing fittings for condensate removal.

# DELTA PACK

READY TO FIT ASSEMBLY  
for wall-mounted air conditioners  
up to **10 kW**



RAPID PLUG IN  
CONNECTION

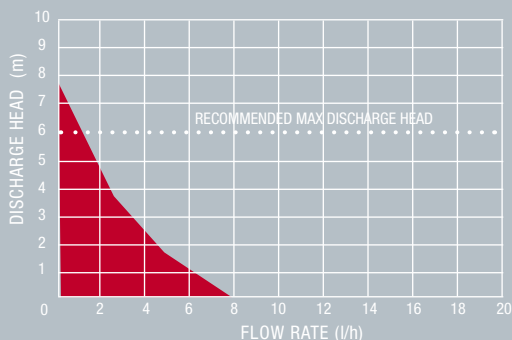


### TECHNICAL CHARACTERISTICS

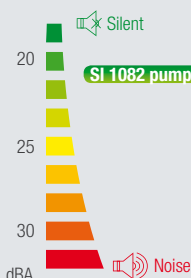
Max flow rate	8 l/h
Max discharge head	6 m
Electric power	10 W
Electric voltage	230 V~ 50/60 Hz
Alarm contact	NC 8 A resistive - 250 V
Thermal protection (overheating)	90° C
Detection	integrated
Detection levels in mm	On: 18, Off: 12, Alarm: 21
Protection	IP 54
Sound level at 1 m*	21.5 dBA
Safety standards	CE, VDE
RoHS and WEEE directives	complies
Master pack quantity	10 pieces

Ref. Sauer mann DELTA PACK DP1082SIUA23

Dimensions in mm	Length	Width	Height
Pump	66	44	77
Cover	165	165	60
Box	780	185	70



### SOUND LEVEL



\*Measured on the pump operating alone with water in accordance with NF Standards by the LNE (French National Metrology and Test Laboratory), an officially approved and certified body.

WALL SPLIT SYSTEMS

CONSOLE UNITS / FAN COILS

CEILING SUSPENDED UNITS / DUCTED UNITS

## SILENCE GUARANTEEING EXTREME COMFORT

The quietest range of mini two piece piston pumps on the market, specially designed for air conditioning units with limited internal space.

Supplied with a rubber dampening and anti-vibration fixing bracket and a detection unit with a 3 level float (On/Off/Alarm), which the elimination of the filter makes much less sensitive to clogging, 1.50 m power supply cable, blond rubber Ø 15 x 35, a Ø 4 x 6 - 75 mm vent tube and a self-adhesive mounting rail.

## BENEFITS

**SI 3080 very silent operation**

**Minimum size**

**Reduced maintenance**

**Simple and easy slide assembly**

**No fine mesh filter**

**Comb for trapping large particles**

**Reversible pump**

## RECOMMENDED ACCESSORIES



### PVC TUBING

- ACC 00105**: clear tubing Ø 6 mm, 5 m.
- ACC 00150**: clear tubing Ø 6 mm, 50 m.
- ACC 00151**: reinforced Clear tubing. Ø 6 mm, 50 m



### DRAINAGE FITTING

- ACC 00205**: 6 self-sealing fittings for condensate removal.



RAPID PLUG IN CONNECTION

NEW ANTI-VIBRATION FASTENING BRACKET SUPPLIED

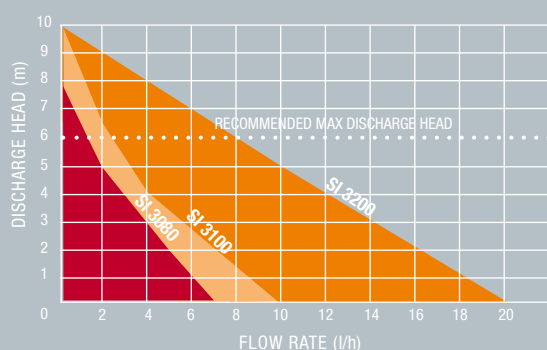
## SI 3080 / SI 3100 / SI 3200 MINI PUMPS for 10 kW (SI 3080 / SI 3100) up to 20 kW (SI 3200) air conditioning units

TECHNICAL CHARACTERISTICS	SI 3080	SI 3100	SI 3200
Max flow rate	8 l/h	10 l/h	20 l/h
Max suction head	1 m	2 m	
Max discharge head	6 m		
Electric power	10 W	18 W	
Electric voltage	230 V~ 50/60 Hz		
Alarm contact	NC 8 A resistive - 250 V		
Thermal protection (overheating)	90° C		
Detection	remote		
Protection	IP 20		
Detection levels in mm	On: 16, Off: 11, Alarm: 19		
Sound level at 1 m*	20,2 dBA	25,1 dBA	32,4 dBA
Safety standards	CE, VDE		
RoHS and WEEE directives	complies		
Master pack quantity	25 pieces		

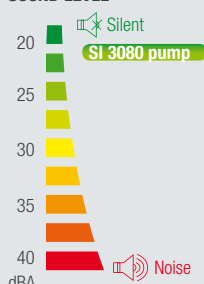
Ref. Sauermann SI 3080	SI3080SIUN23
Ref. Sauermann SI 3100	SI3100SIUN23
Ref. Sauermann SI 3200	SI3200SIUN23

Dimensions in mm	Length	Width	Height
Pump unit	66	44	59
Detection unit	55	38	36

**Kit contents** : Pump/Detection unit/ Rubber anti-vibration mounting bracket/ 1.5 m power cable / Detection unit installation kit: blond rubber Ø 15x35, vent pipe Ø 4x6 – 75 mm, self-adhesive mounting rail.



### SOUND LEVEL\*



\*Measured on the pump operating alone with water in accordance with NF Standards by the LNE (French National Metrology and Test Laboratory), an officially approved and certified body.

WALL SPLIT SYSTEMS

FAN COILS

CEILING SUSPENDED UNITS / DUCTED UNITS

## THE RECOGNISED HIGH CAPACITY STANDARD

**Very small size pump**, designed for air conditioning units with limited interior space. **Its reputation and its reliability** make it particularly **attractive and competitive**

## BENEFITS

**Small size**

**Silent**

## RECOMMENDED ACCESSORIES



### PVC TUBING

- ACC 00105**: clear tubing Ø 6 mm, 5 m.
- ACC 00150**: clear tubing Ø 6 mm, 50 m.
- ACC 00151**: reinforced Clear tubing, Ø 6 mm, 50 m



### DRAINAGE FITTING

- ACC 00205**: 6 self-sealing fittings for condensate removal.

# SI 2750 MINI PUMP for air conditioners up to 10 kW



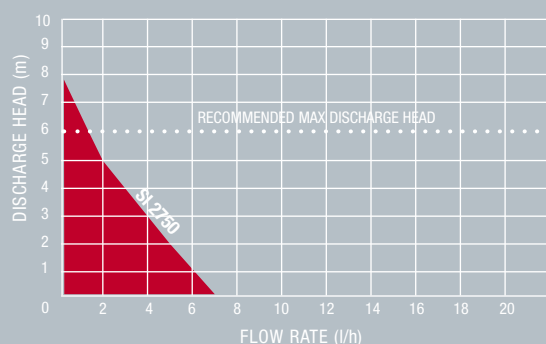
COMES WITH  
ANTI-VIBRATION MOUNTING

### TECHNICAL CHARACTERISTICS

Max flow rate	10 l/h
Max suction head	2 m
Max discharge head	6 m
Electric power	18 W
Electric voltage	230 V ~ 50/60 Hz
Alarm contact	NO - NC 8 A resistive - 250 V
Thermal protection (overheating)	90° C
Protection	IP20
Detection	remote
Detection levels in mm	On: 16, Off: 11, Alarm: 19
Sound level at 1 m	≤ 32 dBA
Safety standards	CE
RoHS and WEEE directives	complies
Master pack quantity	25 pieces

Ref. Sauer mann SI2750      SI2750SIAN23

Dimensions in mm	Length	Width	Height
Pump unit	61	38	76
Detection unit	55	38	36



- \* **Kit contents :**
- Piston pump
  - Detection unit
  - 1.5 m cable
  - Anti - vibration mounting
  - Detector installation kit: blond rubber Ø 15x35, vent pipe Ø 4x6 – 75 mm, self-adhesive mounting rail.

WALL SPLIT SYSTEMS

AIR CONDITIONING CABINETS/UNITS

CONSOLE UNITS/FAN COILS

CEILING SUSPENDED UNITS/DUCTED UNITS

## THE IDEAL COMBINATION: MINIMUM SIZE, MAX FLOW RATE

This **bi blocks condensate removal pump** comes supplied with a detection unit fitted with a 3 level float (On/Off/ Alarm).

The combination of its compact size and its power makes it ideal for high power wall or ceiling mounted air conditioning units.

## BENEFITS

- Small size
- High capacity
- High flow rate
- Rapid electrical connection by multi-pin connector

## RECOMMENDED ACCESSORIES



### PVC TUBING

- ACC 00105** : clear tubing Ø 6 mm, 5 m.
- ACC 00150** : clear tubing Ø 6 mm, 50 m.
- ACC 0015** : reinforced Clear tubing Ø 6 mm, 50 m



### DRAINAGE FITTING

- ACC 00205** : 6 self-sealing fittings for condensate removal.



### FILTER

- ACC 17010** : in line filter.

## SI 1730 CONDENSATE REMOVAL PUMP for air conditioners up to **30 kW**

SI 2758 detector  
replaced by SI 2958  
detector

PRACTICAL:  
MULTI-PIN  
CONNECTOR

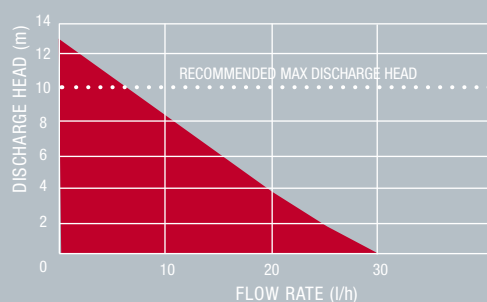
### TECHNICAL CHARACTERISTICS

Max flow rate	30 l/h
Max suction head	2.5 m
Max discharge head	10 m
Electric power	35 W
Electric voltage	230 V~ 50 Hz
Alarm contact	NO – NC 8 A resistive - 250 V
Thermal protection (overheating)	90° C
Detection	remote
Sound level at 1 m	≤ 42 dBA
Safety standards	CE, VDE
RoHS and WEEE directives	complies
Master pack quantity	10 pieces

Ref. Sauerermann SI 1730                      SI1730SIUN23

Dimensions in mm	Length	Width	Height
Pump unit	74	52	95
Detection unit	55	38	36

\*Kit contents : Pump / Detection unit/ 6 way connector (power: P, N, ground + alarm: C, NO, NC) and connector protector / Detection unit installation kit: blond rubber Ø 15x35, vent pipe Ø 4x6 – 75 mm, self-adhesive mounting rail.





AIR CONDITIONING

COLUMN AIR CONDITIONING UNITS

MULTI-CASSETTES



## EE 1650

### MONO BLOCK PUMP WITH BUILT IN TANK

for air conditioners up to **30 kW**

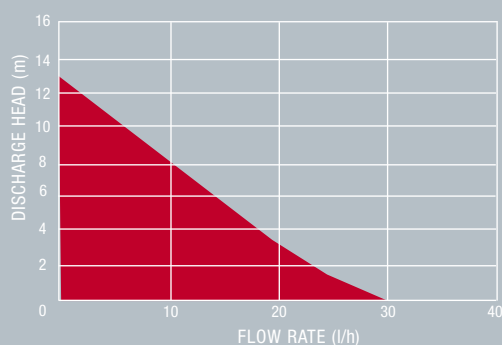
#### TECHNICAL CHARACTERISTICS

Max flow rate	30 l/h
Max discharge head	13 m
Electric power	35 W
Electric voltage	230 V~ 50/60 Hz
Alarm contact	NC 8 A resistive - 250 V
Thermal protection (overheating)	90° C
Detection	integrated
Sound level at 1 m	≤ 52 dBA
Safety standards	CE
RoHS and WEEE directives	complies
Master pack quantity	10 pieces

Ref. Sauer mann EE 1650

EE1650SIUN23

Dimensions in mm	Length	Width	Height	Tank
Pump unit	160	85	88	0.5 l



## THE RECOGNISED HIGH OUTPUT STANDARD

High capacity mono block piston pump (30 l/h), semi-submersible, equipped with a built in tank (0.5 l), recommended for high refrigeration capacity air conditioning units, equipped or not with drain tanks

**Leak tight**, it can be installed equally well below or inside the condensate drain tank.

## BENEFITS

**Powerful**

**Compact**

**Built in tank (0.5 l)**

**Leak tight: IP 65**

## RECOMMENDED ACCESSORIES



### PVC TUBING

**ACC 00105**: clear tubing Ø 6 mm, 5 m.

**ACC 00150**: clear tubing Ø 6 mm, 50 m.

**ACC 00151**: reinforced Clear tubing Ø 6 mm, 50 m.



### DRAINAGE FITTING

**ACC 00205**: 6 self-sealing fittings for condensate removal.

HEATING

AIR CONDITIONING

REFRIGERATION

GAS CONDENSING BOILERS

COLUMN AIR CONDITIONING UNITS

MULTI-CASSETTES

DUCTED UNITS

REFRIGERATED DISPLAY AND COLD STORE CABINETS

EVAPORATORS

GAS FURNACES

3/8 AND 1/4 OUTLET  
SUPPLIED WITH PUMP

## SI 1800

### MONO BLOCK CENTRIFUGAL PUMP WITH TANK

for gas condensing boilers, air conditioning  
units and refrigerated display cabinets.

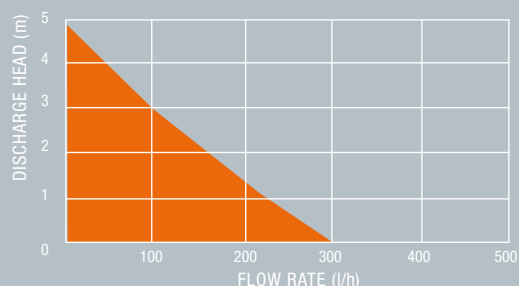
#### TECHNICAL CHARACTERISTICS

Max flow rate	300 l/h
Max discharge head	4.2 m
Electric power	70 W
Electric voltage	230 V~ 50 Hz
Alarm contact	NC 4 A resistive - 250 V
Thermal protection (overheating)	105° C
Condensate temperature and acidity	65° C - pH > 3.4
Detection	integrated
Protection	IP 20
Detection levels in mm	On: 40, Off: 28, Alarm: 66
Sound level at 1 m	≤ 54 dBA
Safety standards	CE, VDE
RoHS and WEEE directives	complies
Master pack quantity	6 pieces

Ref. Sauermann SI 1800

SI1800SIUN23

Dimensions in mm	Length	Width	Height	Tank
Pump unit	283	127	161	21



#### Kit contents :

- Pump
- Integrated check valve
- 10 mm (3/8") to 6 mm (1/4") tubing adaptor
- Power cable: 1.8 m bare ends
- Alarm wires: 1 m, 2 wires (contact NC)

## THE ALTERNATIVE BETWEEN HEAT AND COLD

**Mono block centrifugal pump (300 l/h)**, recommended for **lifting charged, high temperature (65°)** and **acid (pH > 3.4) condensates** from gas condensing boilers. Also suitable for air conditioning and industrial refrigeration units.

## BENEFITS

- Built in tank (2 l)**
- Integrated non return valve**

#### RECOMMENDED ACCESSORIES



#### PVC TUBING

- ACC 00125**: clear tubing Ø 10 mm, 25 m.
- ACC 00126**: clear tubing Ø 10 mm, 50 m.



#### CONTROL SWITCH

- ACC 00601**: control switch.
- Used to operate an additional alarm.



#### INSTALLATION KIT

- 3 condensate input adaptors\*
- 1 x ACC 00225: 1", Ø 25 mm,
- 1 x ACC 00230: 1" 1/4, Ø 32 mm,
- 1 x ACC 00240: 1" 1/2, Ø 40 mm.

\*Also available individually



## SI 1805 / SI 1820

### MONO BLOCK CENTRIFUGAL PUMP WITH TANK

For gas condensing boilers, air conditioning units and refrigerated display cabinets.

3/8 AND 1/4 OUTLET SUPPLIED WITH PUMP



SI 1805



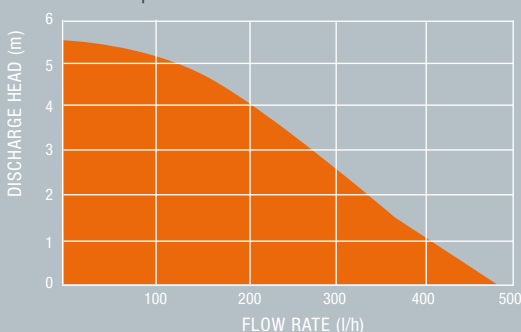
SI 1820

#### TECHNICAL CHARACTERISTICS

	SI 1805	SI 1820
Max flow rate	500 l/h	
Max discharge head	5.4 m	
Electric power	90 W	
Electric voltage	230 V~ 50/60 Hz	
Alarm contact	NC 4 A resistive - 250 V	
Thermal protection (overheating)	130° C	
Protection	IP 20	
Condensate temperature and acidity	80° C, pH > 3.4	
Detection	integrated	
Detection levels in mm	On: 24 Off: 13 Alarm: 30	On: 43 Off: 27 Alarm: 67
Sound level at 1 m	≤ 47 dBA	
Safety standards	CE, VDE	
RoHS and WEEE directives	complies	
Master pack quantity	10 pieces	

Ref. Sauermann SI 1805      SI1805SIUN23  
Ref. Sauermann SI 1820      SI1820SIAN23

Dimensions in mm	Length	Width	Height	Tank
SI 1805 Pump unit	195	130	122	0,5 l
SI 1820 Pump unit	195	130	170	2,0 l



#### Kit contents:

- Pump
- Integrated check valve
- 10 mm (3/8") to 6 mm (1/4") tubing adaptor
- Installation kit: 2 screws and plugs
- Power cable: 2 m with European plug
- Alarm wires: 1 m, 2 wires (NC contact)

HEATING

AIR CONDITIONING

REFRIGERATION

GAS CONDENSING BOILERS

COLUMN AIR CONDITIONING UNITS

MULTI-CASSETTES

DUCTED UNITS

REFRIGERATED DISPLAY AND COLD STORE CABINETS

EVAPORATORS

GAS FURNACES

## WITHSTAND EXTREME HEAT AND COLD

**Mono block centrifugal pumps (500 l/h)** suitable for **lifting charged, high temperature (80°C) and acid (pH > 3.4) condensates** from gas condensing boilers and air conditioning and refrigeration units.

## BENEFITS

**High discharge head**

**High capacity**

**Compact**

**High flow rate**

## RECOMMENDED ACCESSORIES



#### CONTROL SWITCH

**ACC 00601:** control switch. Used to operate an additional alarm.



#### INSTALLATION KIT

3 condensate input adaptors\*  
1 x ACC 00225: 1" Ø 25 mm,  
1 x ACC 00230: 1" 1/4, Ø 32 mm,  
1 x ACC 00240: 1" 1/2, Ø 40 mm.  
\* Also available individually



#### CHECK VALVE

**ACC 00801:** Ø 10 mm.



SI 1850



SI 1822

## SI 1822 / SI 1850 MONOBLOCK CENTRIFUGAL PUMP WITH TANK

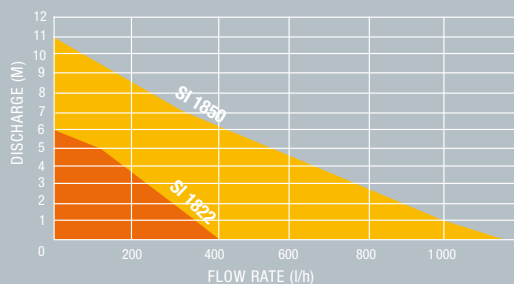
for gas condensing boilers, air conditioning  
units and refrigerated display cabinets

TECHNICAL CHARACTERISTICS	SI 1822	SI 1850
Max flow rate	380 l/h	1100 l/h
Max discharge head	6.2 m	11 m
Electric power	90 W	325 W
Electric voltage	230 V~ 50 Hz	
Alarm contact	NC 4 A resistive - 250 V	
Thermal protection (overheating)	105° C	135° C
Condensate temperature and acidity	65° C pH > 3.4	87° C pH > 3.4
Detection	integrated	
Detection levels in mm	On: 75 Off: 20 Alarm: 90	On: 81 Off: 48 Alarm: 101
Sound level at 1 m	≤ 47 dBA	≤ 66 dBA
Safety standards	CE	CE, VDE
RoHS and WEEE directives	complies	
Packaging	4 pieces	3 pieces

Ref. Sauermann SI 1822  
Ref. Sauermann SI 1850

SI1822SIUN23  
SI1850SIUN23

Dimensions in mm	Length	Width	Height	Tank
SI 1822	305	152	235	3,8 l
SI 1850	305	152	257	3,8 l



Kit contents:  
- Pump  
- Integrated non return valve

HEATING

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EVAPORATORS

GAS FURNACES

## WARMLY RECOMMENDED POWER

These mono block centrifugal pumps combine **power and high flow rates** (380 l/h and 1100 l/h). They are recommended for **lifting heavy, charged, high temperature (65°C/87°C) and acid (pH > 3.4) condensates**, from gas condensing boilers, air conditioning and industrial refrigeration units.

## BENEFITS

**Built in large volume (3.8 l) tank**  
**Thermal protection: 105°C and 135°C**  
**Large discharge head**

## RECOMMENDED ACCESSORIES



### PVC TUBING

ACC 00125: clear tubing Ø 10 mm, 25 m.  
ACC 00126: clear tubing Ø 10 mm, 50 m.



### CONTROL SWITCH

ACC 00601: control switch.  
Used to operate an additional alarm.



### ADAPTERS

1 x ACC 00230: 1" 1/4, Ø 32 mm.  
1 x ACC 00240: 1" 1/2, Ø 40 mm.



PE 5000



REPLACEABLE HEADS

PE 5100



PE 5200



AIR CONDITIONING

REFRIGERATION

WALL SPLIT SYSTEMS

CONSOLE UNITS / FAN COILS

COLUMN AIR CONDITIONING UNITS

CEILING SUSPENDED UNITS / DUCTED UNITS

REFRIGERATED DISPLAY AND COLD STORE CABINETS

EVAPORATORS

## COMPACT AND PERFECTLY FORMED HEADS!

Peristaltic pumps\* help lift charged condensates. Among **the most compact on the market**, they combine **silence with a practical and clever design**: detachable and replaceable heads and tubes = optimised maintenance and cost.

\* These pumps must not operate continuously

## BENEFITS

**Small size**

**Large discharge head**

**Very silent operation**

**Detachable and replaceable heads and tubes**

## RECOMMENDED ACCESSORIES



### CONTROL SWITCH

**ACC 00601**: control switch. Used to operate an additional alarm.



### REPLACEMENT HEAD

**PE 5001**: replacement head for peristaltic pumps.



### REPLACEMENT TUBE

**PE 5002**: replacement tube, 2 end pieces, 1 tube.

# PE 5000 / PE 5100 / PE 5200

## PERISTALTIC PUMPS

For applications up to **8 kW**

### TECHNICAL CHARACTERISTICS

Max flow rate	6 l/h	
Max suction head	2 m	
Max discharge head	12 m	
Electric power	11 W	
Electric voltage	230 V~ 50/60 Hz	
Alarm contact PE 5200	NC 8 A - 250 V	
Protection	IP 65	
Sound level at 1 m	≤ 30 dBA	
Detection	PE 5000	cooling signal
	PE 5100	temperature differential
	PE 5200	float sensor
Safety standards	CE	
RoHS and WEEE directives	complies	
Master pack quantity	16 pieces	

Ref. Sauermann PE 5000	PE5000SIUN23
Ref. Sauermann PE 5100	PE5100SIUN23
Ref. Sauermann PE 5200	PE5200SIUN23

Dimensions in mm	Length	Width	Height
Pump	109	110	91

### Standard kit contents:

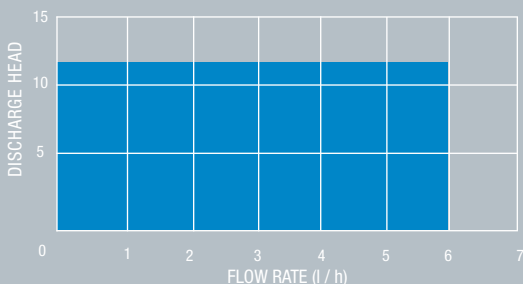
Pump/ 1.7 m cable including 2 power supply cables/ Sliding plastic bracket / PE 5003 adaptor, to reduce the diameter from 15 to 6 mm

### Additional PE 5100 kit contents:

Cables for the 2 probes: 3.5 m long (an ambient air adaptor and a cold air adaptor)

### Additional PE 5200 kit contents:

Detection unit with 1.5 m cable / Detection unit installation kit: blond rubber Ø 15x35, vent pipe Ø 4x6 – 75 mm, self-adhesive mounting rail





## PE 6000 / PE 6250 PERISTALTIC PUMPS



PE 6250

PE 6000

AIR CONDITIONING

REFRIGERATION

COOLING TOWERS

REFRIGERATED DISPLAY AND COLD STORE CABINETS

EVAPORATORS

MULTI-CASSETTES

### PE 6000: A METERED AND PREVENTIVE ACTION AGAINST HEALTH RISKS

This peristaltic metering pump is used to inject detergent products\*, disinfectants and bactericides in order to prevent the proliferation of bacteria (Legionnaires' disease) or the formation of algae in cooling towers.

The quantity and the frequency of injections may be programmed by means of a timer and a clock.

\* Products not supplied. Periodicity of use, concentration and dosage according to the recommendations of the product manufacturers.

### PE 6250: CONSTANT HIGH FLOW RATE

The PE 6250 peristaltic pump assures a constant high flow rate whatever the discharge or suction head. The 10 mm diameter evacuation pipe enables highly charged condensates to be evacuated from air conditioning units up to 25 kW.

#### TECHNICAL CHARACTERISTICS

	PE 6000	PE 6250
Max flow rate	1.5 l/h	25 l/h
Max suction head	2 m	
Max discharge head	15 m	10 m
Electric power	3.5 W	66 W
Electric voltage	230 V~ 50/60 Hz	
Timer (operating range)	from 2 to 18 min	
Programmable daily clock	15 min periods	
Maximum ambient temperature	50° C	
Protection	IP 65	
Packaging	Unit	

Ref. Sauremann PE 6000  
Ref. Sauremann PE 6250

PE6000SIUN23  
PE6250SIUN23

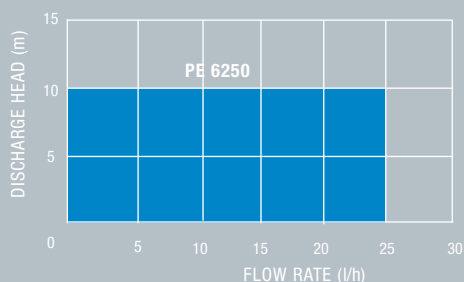
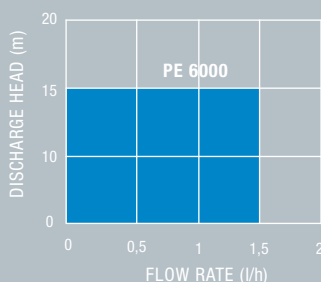
Dimensions in mm	Length	Width	Height
Pompe PE 6000	167	116	213
Pompe PE 6250	134	171	282

#### PE 6000 Kit contents:

Pump/ Fluid suction strainer /Connector including a non return valve / Ø 4 mm suction tube (l = 3 m) / Ø 4 mm discharge tube (l = 2 m)

#### PE 6250 Kit contents:

Pump/Screws and plugs/Control switch



#### RECOMMENDED ACCESSORIES



#### PVC TUBING

ACC 00125 : clear tubing Ø 10 mm, 25 m.  
ACC 00126 : clear tubing Ø 10 mm, 50 m.



#### CONTROL SWITCH

ACC 00601 : control switch.  
Used to operate an additional alarm.

## REFRIGERATED DISPLAY AND COLD STORE CABINETS

## VERY POWERFUL, FOUR WAY PUMP

**Membrane pump** intended for lifting condensates charged with de-icing water from refrigerated display cabinets, evaporators and cold store cabinets. **Four times more efficient, it evacuates condensates from 4 cabinets (L 2.50 m x h 2 m) and treats them 4 times faster than standard pumps.** Ultra flat (92 mm), its compact size (L 460 mm x l 300 mm) allows it to slide easily under refrigerated display cabinets.

## BENEFITS

**Stainless steel tank**  
**Ventilated motor**  
**Can run dry**  
**Built in alarm**

## RECOMMENDED ACCESSORIES



GLAND

**ACC 00316:** for flexible tube 5/8".



GLAND

**ACC 00340:** for flexible tube 1 1/2".

## SI 1930

### MEMBRANE PUMP

For applications up to  
**4 refrigerated display cabinets**



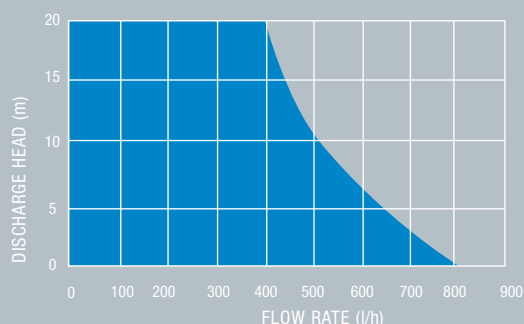
## TECHNICAL CHARACTERISTICS

Max flow rate	800 l/h
Max discharge head	20 m
Electric power	100 W
Electric voltage	230 V ~ 50/60 Hz
Alarm contact	NO - 8 A resistive - 250 V
Detection levels in mm	On: 34, Off: 25, Alarm: 44
Sound level at 1 m	63 dBA
Safety standards	CE
RoHS and WEEE directives	complies
Packaging	unit

Ref. Sauermann SI 1930

SI1930SIUN23

Dimensions in mm	Length	Width	Height	Tank
Pump	460	300	92	4,5 l



CASSETTES

CEILING SUSPENDED UNITS

DUCTED UNITS

## COMPATIBLE WITH MARKET STANDARDS

**Centrifugal pump** identical to those supplied as standard in cassettes and ceiling mounted units.

As a maintenance kit, it comes supplied with:

- A metal bracket with "universal" mounting holes that fit all major brands currently available on the market
- A 85 cm cable with connector and single level alarm detection unit.

## BENEFITS

**Silent**

**Small size**

**Removable connector for easy installation**

**Compatible with market standards**

## RECOMMENDED ACCESSORIES



PVC TUBING

**ACC 00125**: clear tubing Ø 10 mm, 25 m.

**ACC 00126**: clear tubing Ø 10 mm, 50 m.

# SI 2052

## MAINTENANCE KIT WITH CENTRIFUGAL PUMP

For applications up to **20 kW**



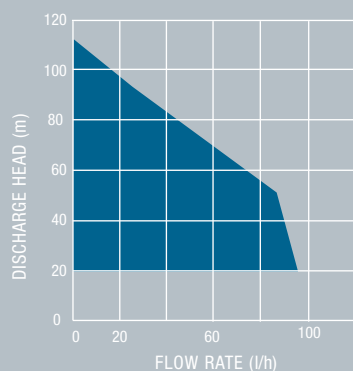
### TECHNICAL CHARACTERISTICS

Max flow rate	70 l/h
Max discharge head	95 cm
Electric power	14 W
Electric voltage	230 V~ 50/60 Hz
Alarm contact	NC 50 VA resistive - 250 V
Thermal protection (overheating)	impedance protected
Alarm level	18 mm
Sound level at 1 m	≤ 30 dBA
Safety standards	CE, VDE
Directive RoHS	complies
Master pack quantity	25 pieces

Dimensions in mm	Length	Width	Height
Pump unit	88	75	94

#### Kit contents:

KS2052 /Power cable: 85 cm with waterproof special connector/ Single level detection unit: DET01550





# ACCESSORIES

Part number	Application description	Technical Description	Packaging
ACC 00100	 Special installation kit	Kit containing 1X self sealing fitting, 1x ACC 00208, 1x ACC 00209, 1x ACC 00304 For SI 2750	Blister
ACC 00105	 PVC tubing To connect the pump to the discharge outlet	Clear tubing Ø 6 mm int. (1/4" ID), 5 m long. For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 2750/ SI 1730 / PE 5000 / PE 5100 / PE 5200	Plastic bag
ACC 00150	 PVC tubing To connect the pump to the discharge outlet	Clear tubing Ø6 mm int. (1/4" ID), 50 m long for SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 2750/ SI 1730 / PE 5000 / PE 5100 / PE 5200	Filmed roll
ACC 00151	 PVC tubing To connect the pump to the discharge outlet	Reinforced clear tubing Ø 6 mm int. (1/4" ID), 50 m long. SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 2750/ SI 1730 / PE 5000 / PE 5100 / PE 5200	Filmed roll
ACC 00125	 PVC tubing To connect the pump to the discharge outlet	Clear tubing Ø10 mm int. (3/8" ID), 25 m long. For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850 / SI 2052 / PE 6250	Filmed roll
ACC 00126	 PVC tubing To connect the pump to the discharge outlet	Reinforced clear tubing Ø10 mm int. (3/8" ID), 25 m long. For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850 / SI 2052 / PE 6250	Filmed rolls
ACC 00106	 Rubber extension To connect condensate outlet to the detector inlet	Blond rubber, 50 cm long, Ø15 mm int. for SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5200	1 pc, in plastic bag
ACC 00110	 Special kit for SI1800 type centrifugal pumps with tray Adaptor for large diameter tube	1x ACC00225 (Ø25mm, 1"), 1x ACC00230 (Ø30mm, 1¼"); 1x ACC00240 (Ø40mm, 1½"). For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850	3 pcs, blister
ACC 00201	 Adaptor To reduce condensate tray / detector outlet diameter	Ø22 ext. to Ø17 ext. For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5200	1 pc, blister
ACC 00202	 Adaptor To reduce condensate tray / detector outlet diameter	Ø32 ext. to Ø17 ext. For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5200	1 pc, blister
ACC 00203	 Adaptor To reduce condenser / detector outlet diameter	Ø32 ext. to Ø17 ext. for SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5200	1 pc, blister
ACC 00204	 Straight and elbow connectors To connect 2 tubes	For Ø6 mm int. (1/4") ID tube For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5000 / PE 5100 / PE 5200	10 pcs, blister
<b>NEW</b> ACC 00207	 Straight connectors To connect 2 tubes	For Ø6 mm int. (1/4") tubes. 5 no. elbows, 5 no. straight pieces. For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5000 / PE 5100 / PE 5200	10 pcs, blister
ACC 00211	 Tee connectors To connect 3 tubes	For Ø6 mm int. (1/4") tubes. For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5000 / PE 5100 / PE 5200	5 pcs, blister
<b>NEW</b> ACC 00213	 Straight connectors To connect 2 tubes	For Ø10 mm int. (3/8") tube. For SI 1800 / SI 1805 / SI 1820 / SI 1822/ SI 1850/ SI 2052/ PE 6250	5 pcs, blister
ACC 00205	 Self-sealing drainage fitting For leak tight connection to the PVC drainage tube	For Ø6 mm int. (1/4") tube. For SI 1082/ SI 3080 / SI 3100 / SI 3200 / SI 2750/ SI 1730 / PE 500 / PE 5100 / PE 5200	6 pcs, blister
ACC 00208	 90° Rubber elbow To connect detector inlet	Black rubber, Ø15 int. to Ø15 int	1 pc, blister
ACC 00209	 «S» type rubber hose Allows the position of the detector to be lowered in relation to the condensates tank.	Black rubber, Ø15 int. to Ø15 int	1 pc, blister
ACC 00210	 90° Rubber elbow To connect the detector inlet to the condensates tank	Black rubber, Ø17 int. to Ø15 int.	1 pc, blister

# ACCESSORIES

Part number	Application description	Technical Description	Packaging
<b>NEW</b> ACC 00212	 Adaptor To aid installation of detector in mini split units	Plastic, Ø14 to Ø17 mm OR Ø15.6 to Ø17 mm	5 pcs, blister
<b>NEW</b> ACC 00214	 Accessory To prevent siphoning when the discharge point is lower than the detector level	IN: for tube Ø6 mm int. (1/4") OUT: for tube Ø10 mm int. (3/8")	5 pcs, blister
<b>NEW</b> ACC 00220	 Rubber condensate outlet adaptor. For rigid pipe	Black rubber, Ø10 mm (3/8") to Ø20 mm (3/4"). For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850 / SI 2052	1 pc, blister
ACC 00225 ACC 00230 ACC 00240	 Rubber condensate inlet adaptors. To connect two different diameter pipes together	Black rubber connectors 1 x ACC00225 (Ø25 mm 1"), 1 x ACC00230 (Ø32 mm 1¼"), 1 x ACC00240 (Ø40 mm 1½") For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850	1 pc, blister
<b>NEW</b> ACC 00310	 Gland for flexible tube	For Ø10mm (3/8") tube For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850 / SI 2052	1 pc, blister
ACC 00316	 Gland for flexible tube	For Ø16 mm (5/8") tube For SI 1930	1 pc, blister
ACC 00340	 Gland for flexible tube	For Ø40 mm (1½") tube For SI 1930	1 pc, blister
<b>NEW</b> ACC03225	 Rubber adaptors To connect two different diameter pipes together	Black rubber connectors for Ø25 mm (1") to Ø32 mm (1¼") pipe For SI 1930	3 pcs, blister
ACC00401	 Test bottle To test pump without dismantling unit		1 pc
<b>NEW</b> ACC 00425 ACC 00430 ACC 00440	 Condensate inlet adaptors To connect two different diameter pipes together	Set of black connectors ACC00425: 3 x ACC00225 (Ø25 mm 1") ACC00430: 3 x ACC00230 (Ø30mm 1¼") ACC00440: 2 x ACC00240 (Ø40 mm 1½") For SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850	3 or 2 pcs, blister
ACC 00601	 Control switch To operate an additional alarm and switch on the pump	115 / 230 V~ - 10 A 61 x 60 x 27 mm	1 pc, blister
ACC 00703	 Extension To increase the length between the detection unit and the pump	5 m long For SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5200	1 pc, blister
ACC 00705	 Extension To increase the length between the detection unit and the pump	5 m long For SI 3080 / SI 3100 / SI 3200 / SI 1730 / PE 5200	1 pc, blister
ACC 00801	 Check valve	For Ø10 mm int. (3/8") tube For SI 1805 / SI 1820 / SI 2052	1 pc, blister
ACC 00805	 Check valve	For Ø6 mm int. (1/4") tube For SI 1082 / SI 3080 / SI 3100 / SI 3200 / SI 1730 / EE1650	5 pcs, blister
ACC 17010	 In-line filter	For Ø6 mm int. (1/4") tube For SI 3080 / SI 3100 / SI 3200 / SI 1730	1 pc, blister
PE 5001	 Replacement head for peristaltic pumps	For PE 5000 / PE 5100 / PE 5200	1 pc, blister
PE 5002	 Replacement tube	2 end pieces, 1 tube For PE 5000 / PE 5100 / PE 5200	1 pc, blister
PE 5003	 Diameter reduction adaptor	For Ø6 mm int. (1/4") to Ø15 mm int. tube For PE 5000 / PE 5100 / PE 5200 / PE 6250	1 pc, blister
PE 5005	 Replacement tube	2 end pieces, 1 tube For peristaltic pumps For PE 6250	1 pc, blister
SI 2958	 Detection unit	For tube: * IN: Ø15 mm int. * OUT: Ø6 mm int. (1/4") For SI 1082 / SI 1730 / SI 2750 / SI 3080 / SI 3100 / SI 3200 / PE 5200	1 pc, blister

# COOLING CAPACITY AND EXAMPLES OF ACTUAL FLOW RATES

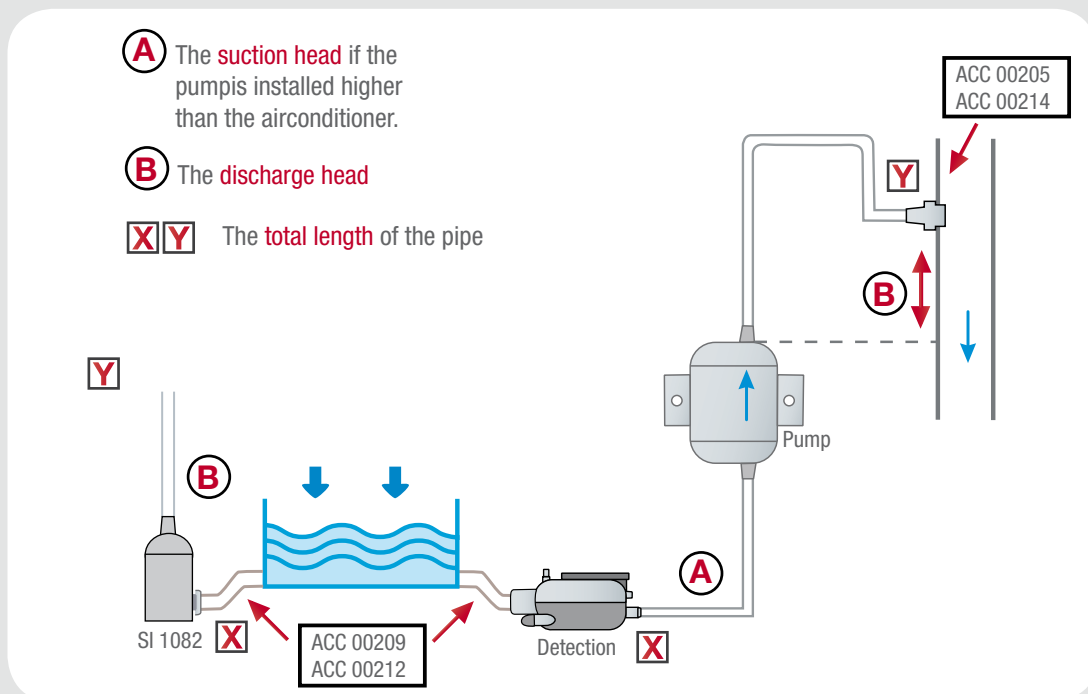
## THE REFRIGERATING CAPACITY GIVES YOU THE VOLUME OF CONDENSATES TO BE REMOVED

Use the cooling capacity information supplied by the manufacturer of the air conditioner. It is generally estimated that, for normal usage conditions, the volume of condensates to be removed varies from 0.5 to 0.8 l/hr per kW of cooling capacity. This value may be doubled in very humid areas.

**For example:** a cooling capacity of 3 kW will produce from 1.5 to 2.4 l/hr of condensates to be removed.

## INSTALLATION OVERVIEW :

For pumps SI 1082, SI 3080, SI 3100, SI 3200, SI 2750, SI 1730, PE 5000, PE 5100, PE 5200, PE 6250.



**Connections are always made above the level of the pump to prevent a siphon effect in the pipes and the pump becoming unprimed (B>0).**  
**NOTE: If the discharge connection is made below the level of the pump then fit the Sauermann anti-siphon device ACC00214.**

## SI 1082

The head losses defined in this table are calculated with 1/4" flexible pipework of 6mm internal diameter.

Discharge Head (B)	Total pipe length (XY)			
	5m	10m	20m	30m
1m	6.8	6.3	5.3	4.3
2m	5.5	5	4.1	3.2
3m	4.2	3.8	3	2.5
4m	3	2.6	2.2	2
5m	2.2	2	1.8	1.5
6m	1.5	1.4	1.2	1

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