

The installation GUIDE



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GENERAL INFORMATION

WHY, how?

Condensates (drops of water caused by warm, humid air passing over a cold surface) are formed in air conditioning, refrigeration and condensing boiler units.

There are **2 ways** of removing them

Gravity evacuation

1

Evacuate the condensates by **gravity**, which means dealing with **technical and aesthetic problems** (distant drainage outlet, not enough fall, damage to walls and unsightly pipework).



The removal pump

2

Or, install a condensate **removal pump** (smaller dimensions, the **appearance of the installation is preserved, simple and quick to install**, safer as equipped with alarm and non return valve).



WHAT IS a condensate removal pump?

It is a system which consists of a pump unit and a detection unit allowing condensates to be evacuated to a water drainage outlet where there is no gravity fall.

This technology has **3 advantages**:

- 1 **It protects the appearance** of the customer's installation (no unsightly pipework).
- 2 **Easy, simple and safe** to install.
- 3 **Reduction of the risk of bacterial contamination** by waste water (no stagnation or back-flow of water due to non return valves)

WHICH operating mode?

Whether monoblock or compound type, condensate removal pumps operate in **3 different ways**:

① Reciprocating piston method

These pumps are fitted with a piston which first draws in, then evacuates the condensate.

② Centrifugal impeller method

A turbine evacuates the condensation water. These pumps are intended for high flow rate requirements and are particularly suitable for contaminated condensates

③ Peristaltic pumps

A roller compresses a pipe which drives out the condensates (containing contaminants or not). These pumps are self-priming and can operate dry.

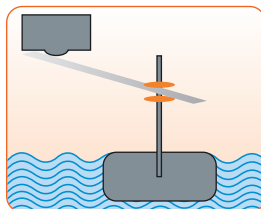
	PISTON	CENTRIFUGAL	PERISTALTIC
<i>Air conditioning</i>			
<i>Refrigeration</i>			
<i>Heating</i>			

WHICH detection system?

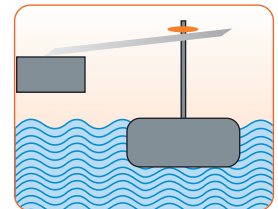
SAUERMANN has developed
3 detection systems:

The first is based on two mechanical float switches one of which controls the **On/Off** levels and the other the **Alarm**.

→ **Fitted on centrifugal pumps.**



On/Off

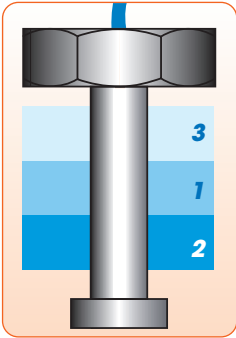


Alarm



The second

is based on a float switch controlling 3 levels:



1. On,
2. Off,
3. Alarm.

→ Fitted on piston pumps.

As it is largely unaffected by the nature of the condensates (oil or grease on the surface, deposits of scale, dust or algae formation) **float switch detection is very reliable.**

The presence of an alarm level leads to increased safety.

As soon as a problem is detected (abnormally high water level leading to a risk of overflow), the pump **automatically cuts** off the air conditioning system compressor or **triggers an audible or visual alarm.**

Problems may be caused by different reasons:

- power cut
- pump stoppage
- pinched pipe

The third

operates by detecting a temperature difference across the cooling coil of more than 6°C between two temperature sensors.

→ Fitted on PE 5100 peristaltic pumps.

HOW TO CHOOSE YOUR CONDENSATE REMOVAL PUMP

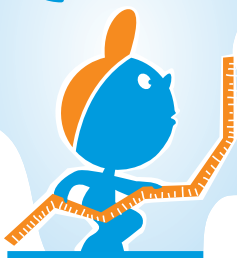
SELECTING pumps




Piston pumps for air conditioners up to 10 kW and up to 30 kW

YOU NEED TO KNOW THE FOLLOWING CHARACTERISTICS:

- 1 The volume of condensates produced or the refrigerating capacity of your installation will give you an indication of the volume of condensates to be removed.
- 2 The type of appliance which you are fitting it to.

Choose **your pump** based on these characteristics. Check that the model you choose has a sufficient **flow rate / pressure ratio**.



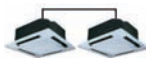
APPLICATIONS	SI 1082 DELTA PACK    D: 8 l/h R: 6 m
AIR CONDITIONING Max cooling capacity	10 kW
WALL OR FLOOR MOUNTED	
Wall	DELTA PACK
Consoles	
Fan-coil units	
Air conditioning units	
CEILING MOUNTED	
Ceiling suspended	
Ducted units	
Cassette or multi cassette systems	

D: Flow rate - A: Suction - R: Discharge

SELECTING pumps

Centrifugal impeller method

Peristaltic pumps









Multi Cassette systems



Air conditioning units



Wall-mounted air conditioner

APPLICATIONS	SI 1800 D: 500 l/h R: 5 m 	SI 1805 - SI 1820 D: 500 l/h R: 5,40 m 	SI 1830 D: 400 l/h R: 3,70 m 
AIR CONDITIONING Max cooling capacity			
WALL OR FLOOR MOUNTED			
Wall			
Consoles			
Fan-coil units			
Air conditioning units			
CEILING MOUNTED			
Ceiling suspended			
Ducted units			
Cassette or multi cassette systems			
REFRIGERATION			
Evaporators			
Display cabinets			
Humidifiers/dehumidifiers			
HEATING			
Gas condensing boilers			
Oil condensing boilers			

D: Flow rate - A: Suction - R: Discharge

WHICH PUMP FOR WHICH SYSTEM?



Ceiling suspended
DX / Chilled water
fan-coil units



Refrigerated
display
cabinets



Condensing
boilers



Ducted

SI 1822

D: 380 l/h
R: 5,80 m



SI 1850

D: 1100 l/h
R: 10 m



PE 5000 - PE 5100 - PE 5200

D: 6 l/h
A: 2 m
R: 12 m



PE 6250

D: 25 l/h
A: 2 m
R: 10 m



	8 kW		

Please contact us should you require any assistance in selecting a pump.

Cooling capacity and examples of actual flow rates

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

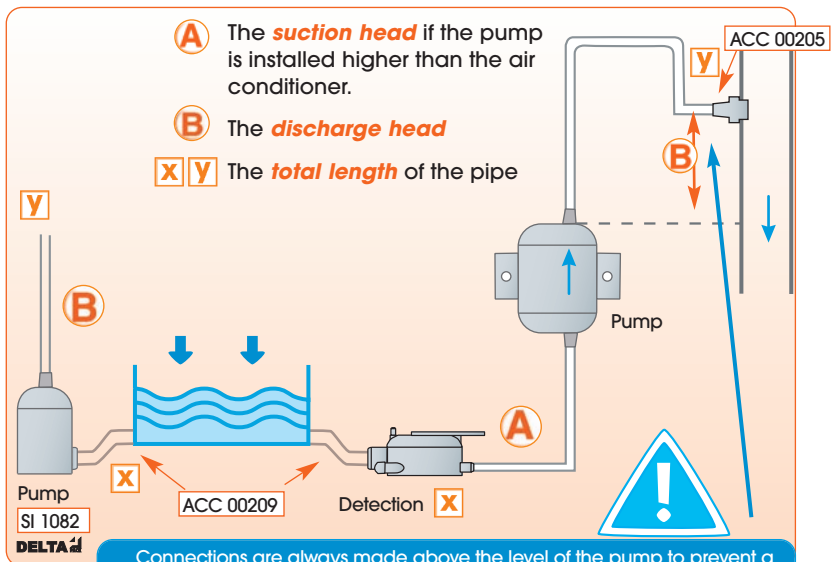
Use the cooling capacity information supplied by the manufacturer of the air conditioner. It is generally estimated that, for normal usage conditions, the volume of condensates to be removed varies from **0.5 to 0.8 l/hr per kW of cooling capacity**. This value may be doubled in very humid areas.

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, DELTA⁴, SI 3080, SI 3100, SI 3200, SI 2750, SI 1730, PE 5100, PE 5200, PE 6250

You must take into account the head loss connected with:



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.



Actual flow rates for the pumps

SI 1082 - DELTA¹					
THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 6MM (1/4") ID FLEXIBLE PIPEWORK	DISCHARGE	 TOTAL PIPE LENGTH			
	HEAD	5 m	10 m	20 m	30 m
		(in l/h)	(in l/h)	(in l/h)	(in l/h)
	1 m	6.8	6.3	5.3	4.3
	2 m	5.5	5	4.1	3.2
	3 m	4.2	3.8	3	2.5
	4 m	3	2.6	2.2	2
	5 m	2.2	2	1.8	1.5
	6 m		1.4	1.2	1

SI 3080					
THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 6MM (1/4") ID FLEXIBLE PIPEWORK	DISCHARGE	 TOTAL PIPE LENGTH			
	HEAD	5 m	10 m	20 m	30 m
		(in l/h)	(in l/h)	(in l/h)	(in l/h)
SUCTION HEAD 	1 m	6.8	6.3	5.3	4.3
	2 m	5.5	5	4.1	3.2
	3 m	4.2	3.8	3	2.5
	4 m	3	2.6	2.2	2
	5 m	2.2	2	1.8	1.5
	6 m		1.4	1.2	
MAX SUCTION HEAD 1 m	1 m	5.6	5.2	4.3	3.4
	2 m	4.3	3.9	3.1	2.3
	3 m	3	2.7	2	1.6
	4 m	1.8	1.5	1.2	1.1
	5 m	1	0.9	0.8	0.6
	6 m		0.2	0.2	0.1




Actual flow rates for the pumps

SI 3100 - SI 2750

THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 6MM (1/4") ID FLEXIBLE PIPEWORK	DISCHARGE HEAD 	 TOTAL PIPE LENGTH			
		5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (in l/h)
		SUCTION HEAD  0 m	1 m 2 m 3 m 4 m 5 m 6 m	9.5 7 5 4 3.2 	9 6.5 4.6 3.6 2.7 2.2
MAX SUCTION HEAD 1 m	1 m 2 m 3 m 4 m 5 m 6 m	7.5 6 4.8 3.6 2.2	7 5 3.5 2.6 1.7 1.2	6.2 4.2 2.9 2.1 1.5 1	5.4 3.4 2.5 1.8 1.3 0.8
MAX SUCTION HEAD 2m	1 m 2 m 3 m 4 m 5 m 6 m	6.2 5 3.8 2.4 1	5.7 4.5 3.4 2 0.5 0	4.9 3.7 2.7 1.5 0.3 0	4.1 2.9 2.2 1.2 0 0






Actual flow rates for the pumps

		SI 3200				
THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 6MM (1/4") ID FLEXIBLE PIPEWORK		DISCHARGE HEAD 	 TOTAL PIPE LENGTH			
			5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (in l/h)
SUCTION HEAD  0 m	1 m	19	17.5	15.5	13.5	
	2 m	17.5	16	14	12	
	3 m	16	14	12	10	
	4 m	14	12	10	8.5	
	5 m	11.5	10	8.5	7	
	6 m		8	7	6	
SUCTION HEAD 1 m	1 m	16.5	15.5	13.5	12	
	2 m	14.5	13.5	11.5	11	
	3 m	12.5	11.5	10.5	10	
	4 m	10	9	8.5	8	
	5 m	8.5	7.5	6.5	5.5	
	6 m		5	4	3	
MAX SUCTION HEAD 2 m	1 m	13	12.5	12	11	
	2 m	12	11.5	11	10	
	3 m	11	10.5	10	9	
	4 m	8	7.5	7	6	
	5 m	6	5.5	5	5	
	6 m		3.5	3	3	

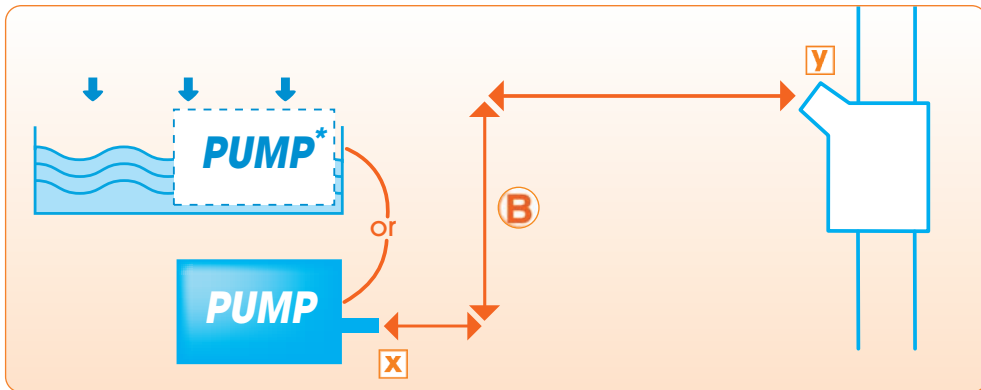


Actual flow rates for the pumps

SI 1730					
THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 6MM (1/4") ID FLEXIBLE PIPEWORK	DISCHARGE	 TOTAL PIPE LENGTH			
	HEAD	5 m	10 m	20 m	30 m
		(in l/h)	(in l/h)	(in l/h)	(in l/h)
SUCTION HEAD 0 m 	1 m	29	27	25	23
	2 m	27.5	25.5	24	22
	3 m	25.5	24	22	20.5
	4 m	23.5	22	20	19
	5 m	21	19.5	18	16.5
	6 m		16.5	15	14
	7 m		14	12.5	11.5
	8 m		11.5	10	9
	9 m		9	7.5	6.5
	10 m		6	5	4
SUCTION HEAD 1 m	1 m	24	22	20	20
	2 m	22	21	20	19
	3 m	20	19	18	17.5
	4 m	17	16.5	16	15.5
	5 m	14.5	14	13.5	13.5
	6 m		11.5	11	11
	7 m		10	9.5	9
	8 m		8	7.5	7
	9 m		6	5.5	5
	10 m		4	3.5	3
MAX SUCTION HEAD 2 m	1 m	20	19	18	17.5
	2 m	17	16.5	16	15.5
	3 m	14.5	14	13.5	13.5
	4 m	12	11.5	11	11
	5 m	10.5	10	9.5	9
	6 m		8	7.5	7
	7 m		6	5.5	5
	8 m		4	3.5	3
	9 m		2	1.5	1

Installation overview

For pumps EE1650*, SI1800, SI1805, SI1820, SI1822, SI1850



B Discharge head

x y Total pipe length

Actual flow rates for the pumps

		EE 1650			
THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 6MM (1/4") ID FLEXIBLE PIPEWORK	DISCHARGE HEAD	x y TOTAL PIPE LENGTH			
	B	5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (in l/h)
	1 m	29	27	25	23
	2 m	27.5	25.5	24	22
	3 m	25.5	24	22	20.5
	4 m	23.5	22	20	19
	5 m	21	19.5	18	16.5
	6 m		16.5	15	14
	7 m		14	12.5	11.5
	8 m		11.5	10	9
	9 m		9	7.5	6.5
	10 m		6	5	4

Actual flow rates for the pumps

SI 1800

THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 10MM (3/8") ID FLEXIBLE PIPEWORK	DISCHARGE	TOTAL PIPE LENGTH					
	HEAD	X	Y	5 m	10 m	20 m	30 m
	B	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)
	1 m	380	300	240	190		
	2 m	310	260	200	150		
	3 m	240	200	145	110		
	4 m	150	130	80	60		
	5 m	30	20	0	0		

SI 1805 - SI 1820

THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 10MM (3/8") ID FLEXIBLE PIPEWORK	DISCHARGE	TOTAL PIPE LENGTH					
	HEAD	X	Y	5 m	10 m	20 m	30 m
	B	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)
	1 m	460	380	280	200		
	2 m	390	320	240	180		
	3 m	300	250	190	150		
	4 m	200	180	130	100		
	5 m	90	80	60	50		

SI 1830

THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 10MM (3/8") ID FLEXIBLE PIPEWORK	DISCHARGE	TOTAL PIPE LENGTH					
	HEAD	X	Y	5 m	10 m	20 m	30 m
	B	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)	(IN L/H)
	1 m	320	270	190	200		
	2 m	240	200	130	100		
	3 m	150	110	70	50		
	3,7 m	50	40	25	15		

SI 1822

THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 10MM (3/8") ID FLEXIBLE PIPEWORK	DISCHARGE HEAD B	TOTAL PIPE LENGTH			
		X	Y		
		5 m (IN L/H)	10 m (IN L/H)	20 m (IN L/H)	30 m (IN L/H)
	1 m	330	260	220	190
	2 m	275	220	190	160
	3 m	220	175	155	135
	4 m	160	130	120	100
	5 m	100	80	70	60
	6 m		15	10	10

SI 1850

THE HEAD LOSSES DEFINED IN THIS TABLE ARE CALCULATED WITH 10MM (3/8") ID FLEXIBLE PIPEWORK	DISCHARGE HEAD B	TOTAL PIPE LENGTH			
		X	Y		
		5 m (IN L/H)	10 m (IN L/H)	20 m (IN L/H)	30 m (IN L/H)
	1 m	750	590	375	285
	2 m	675	545	345	270
	3 m	600	500	310	255
	4 m	520	460	285	235
	5 m	450	410	255	215
	6 m		355	225	190
	7 m		300	185	160
	8 m		240	145	125
	9 m		170	100	85
	10 m		85	60	45

PE 5000 - PE 5100 - PE 5200

Flow rate	6 l/h	Max suction head	A	2 m	Max vertical discharge	B	12 m
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PE 6250

Flow rate	25 l/h	Max suction head	A	2 m	Max vertical discharge	B	10 m
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Technical specifications

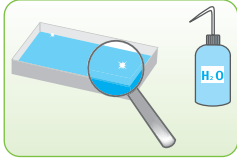
Pumps	DETECTION LEVELS			Sound level	Alarm contact at 250V		DIMENSIONS l x w x h in mm	
	On	Off	Alarm		Pump unit	Detection unit		
SI 1082	18	12	21	21,5 dB(A)	NC	8 A resistive	66 x 44 x 77	—
SI 2750	16	11	19	32 dB(A)	NO/NC	8 A resistive	61 x 38 x 76	55 x 38 x 36
SI 3080				20,2 dB(A)	NC	8 A resistive	66 x 44 x 59	55 x 38 x 36
SI 3100				25,1 dB(A)	NC	8 A resistive	66 x 44 x 59	55 x 38 x 36
SI 3200				32,4 dB(A)	NC	8 A resistive	66 x 44 x 59	55 x 38 x 36
SI 1730	17	11	21	42 dB(A)	NO/NC	8 A resistive	74 x 52 x 95	55 x 38 x 36
PE 5000	—	—	—	30 dB(A)	—	—	109 x 110 x 91	—
PE 5100	—	—	—	30 dB(A)	NC	8 A resistive	109 x 110 x 91	—
PE 5200	16	11	19	30 dB(A)	—	—	109 x 110 x 91	55 x 38 x 36

CENTRIFUGAL PUMPS WITH TANK

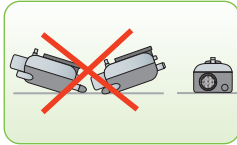
Pumps	On	Off	Alarm	Sound level	Alarm contact at 250V		Pump unit	Tank
EE 1650 Under the tank	25	19	28	52 dB(A)	NC	8 A resistive	160 x 85 x 88	0,5 l
In the tank	28	22	31	52 dB(A)	NC	8 A resistive	160 x 85 x 88	0,5 l
SI 1800	43	27	56	45 dB(A)	NC	4 A resistive	279 x 130 x 171	2 l
SI 1805	32	25	39	47 dB(A)	NC	4 A resistive	195 x 130 x 122	0,5 l
SI 1820	50	37	64	47 dB(A)	NC	4 A resistive	195 x 130 x 170	2 l
SI 1830	27	21	32	43 dB(A)	NC	4 A resistive	221 x 100 x 106	0,5 l
SI 1822	75	20	90	47 dB(A)	NC	4 A resistive	305 x 152 x 235	3,8 l
SI 1850	81	48	101	66 dB(A)	NC	4 A resistive	305 x 152 x 257	3,8 l

HOW TO INSTALL YOUR CONDENSATE REMOVAL PUMP

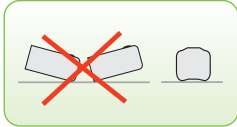
A few Basic Rules



Before installation, thoroughly rinse the coil and the condensates collection tank to remove any foreign bodies and metal particles.



When the pump has a separate detection unit, it must be fixed horizontally on a support.



Monoblock tank pumps must always be fitted horizontally on a support.

Failure to observe these rules can lead to poor results (tank overflow, high noise level, abnormal overheating etc.) which are both inconvenient for the end user and costly for the installer.



YOU ARE STRONGLY ADVISED TO AVOID THE USE OF DETERGENT OR AGGRESSIVE PRODUCTS WHEN CLEANING THE TANK OF MONOBLOCK PUMPS

IMPORTANT NOTE ON COMMISSIONING PUMPS WITH REMOTE DETECTION

To ensure that the pumps function correctly in the future, ensure that when you first commission them (and after each maintenance operation) the pumps are properly primed.

Check that the suction pipe (between the detection unit and the pump) and part of the discharge pipe are filled with water.



You can use the priming squeeze bottle **ACC 00401**.

Before carrying out any operation on the pump, make sure the installation is disconnected from the power supply.

Piston pump with integral detection

DELTA 
PACK

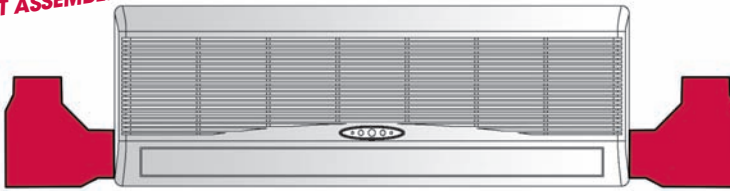
Ready to fit assembly for wall-mounted air
conditioners up to 10 kW

Delta Pack comprises:

- a mini pump with integral detection SI 1082
- a complete assembly kit containing:
 - a clip-on cover,
 - 75 cm of 80 x 60 mm duct,
 - all assembly accessories.

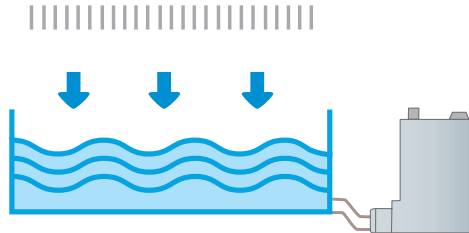


**REVERSIBLE LEFT OR
RIGHT ASSEMBLY**



Allows the pump to be assembled on the left or right of the air conditioner.

INSTALLATION SI 1082



For an SI 1082 pump sold individually,
the connection should be made directly
at the tank outlet.

You can use connector **ACC 00209**



Carry out an in situ test and prime the pump.
To do this, gently fill with water using the priming squeeze bottle (**ACC 00401**).

Piston pumps with remote detection

SI 3080 / SI 3100 / SI 3200 / SI 2750 / SI 1730



SI 2750
up to 10 kW

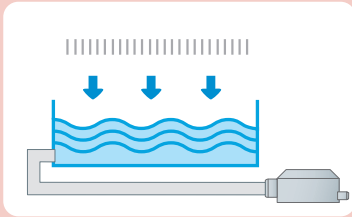


SI 1730
up to 30 kW

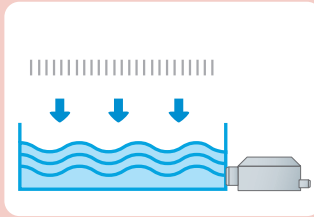


**SI 3080, SI 3100 up to 10 kW /
SI 3200 up to 20 kW**

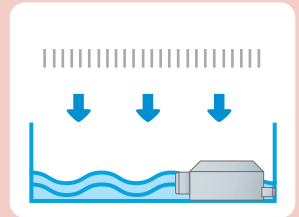
The detection unit can be **connected in 3 ways:**



At the outlet of the
condensate evacuation tube



At the tank outlet



Directly inside the tank

PUMP UNIT INSTALLATION

The recommended fitting positions for the pump are: (avoid all other positions)



Acceptable
position

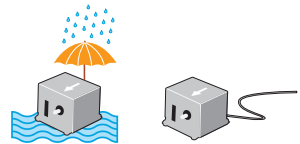


Recommended
position

Vertical discharge guarantees that the non return valve is watertight.
The electrical connection must always be above the water inlet/outlet.



The pump must not **be splashed** nor located in a damp environment.



Water may accumulate from condensation in the tube or due to a leak from the clear tube/pump end piece connection.

Centrifugal pumps with tank

SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850



SI 1820
tank: 2 l



SI 1822
tank: 3.8 l



SI 1800
tank: 2 l

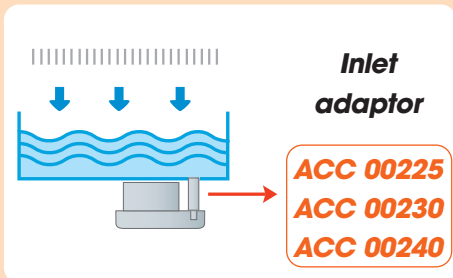


SI 1850
tank: 3.8 l



SI 1805
tank: 0.5 l

INSTALLATION



The pump collects the condensates via the inlet **in the top.**



The inside of the pump must be **regularly cleaned**. For this we recommend that you use a solution

containing 5% bleach. Ensure that the float switches remain clean.

MECHANICAL ASSEMBLY

All monoblock impeller pumps have a **reversible tank.**

Condensate inlet
on left



Condensate inlet
on right



Peristaltic pumps

PE 5000 / PE 5100 / PE 5200 / PE 6250



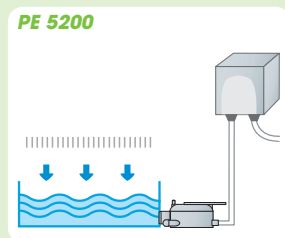
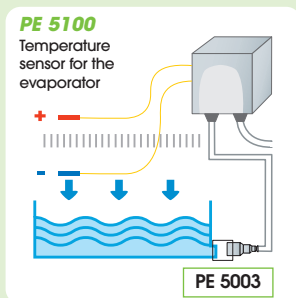
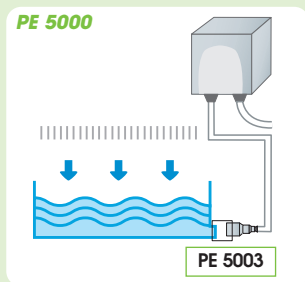
PE 5000



PE 5100



PE 5200



PE 5000 OPERATION

Pump operation is dependent on the operation of the air conditioning compressor or whenever the system provides cooling. The pump will continue to run for three minutes after the compressor has stopped.

PE 5100 OPERATION

The pump switches on when the temperature difference across the coil as measured by the two sensors is more than 6°C. The pump stops 3 minutes after the temperature difference falls below 6° C.

PE 5200 OPERATION

The pump operates when condensates enter the detection unit. In this configuration, a 230 V / 8 A NC alarm contact is available.





ACCESSORIES*: ESSENTIALS



- Piston pumps for air conditioners up to 10 kW and up to 30 kW**
- Centrifugal impeller method**
- Peristaltic pumps**

		ACC 00100	Installation kit SI 2750
		ACC 00105 ACC 00150 ACC 00151	ACC 00105: 5m in blister pack ACC 00150: in 50m roll ACC 00151: reinforced, 50m roll
		ACC 00106	Blond rubber 50 cm for SI 1082 / SI 2750 / SI 3080 / SI 3100 / SI 3200 / SI 1730
		ACC 00110	Installation kit comprising the following components: 1 X ACC 00225, 1 X ACC 00230, 1 X ACC 00240.
		ACC 00125 ACC 00126	Clear tube, 10 mm int. On 25 m coil ACC 00125: non-reinforced tube ACC 00126: reinforced tube
		ACC 00201	∅ 17 / ∅ 22 mm adaptor kit
		ACC 00202	∅ 17 / ∅ 32 mm adaptor kit
		ACC 00203	∅ 17 / ∅ 32 mm reduction for reducing flow
		ACC 00204	5 ∅ 6 mm straight connectors + 5 ∅ 6 mm elbow connectors.
		ACC 00205	6 condensate self-sealing evacuation connectors.
		ACC 00208	90° elbow, 15 x 15 mm

* Accessories are only guaranteed for the applications for which they are recommended.

	ACC 00209	15 x 15 mm flexible connector used to drain the tank completely.
	ACC 00210	90° elbow, 17 x 15 mm
	ACC 00211	Ø 6 mm Tee connector
	ACC 00214	To prevent siphoning when the discharge point is lower than the detector level
	ACC 00225 ACC 00230 ACC 00240	Condensate inlet adaptors.
	ACC 00401	Squeeze bottle: used to test the pump without removing the unit.
	ACC 00501	10 double-sided stickers.
	ACC 00601	Float control switch. Used to control the pump or an alarm SI 1800 / SI 1805 / SI 1820 / SI 1822 / SI 1850 / PE 5000 / PE 5100 / PE 6250.
	ACC 00703	3 m extension for SI 2750 / SI 3080 SI 3100 / SI 3200 / SI 1730 / PE 5200.
	ACC 00705	5 m extension for SI 2750 / SI 3080 SI 3100 / SI 3100 / SI 3200 / SI 1730 / PE 5200.
	ACC 00801	10 mm non return valves for SI 1805 / SI 1820.
	ACC 00805	5 non return valves for Ø 6 mm tube.
	ACC 17010	In-line filter for SI 1730.
	PE 5001	Replacement head For pumps PE 5000 / PE 5100 / PE 5200
	PE 5002	Replacement tube For pumps PE 5000 / PE 5100 / PE 5200
	PE 5003	Ø 17 mm - Ø 6 mm reduction for pumps PE 5000 / PE 5100 / PE 5200

QUALITY, GUARANTEE, SERVICE

Our priorities

To anticipate your requirements, meet your expectations in full and provide total satisfaction:

In 1997, Sauermann committed itself to implementing a quality policy in accordance with standard ISO 9002.

In 2003, Sauermann applied to obtain standard ISO 9001 version 2000 and was successful in obtaining it.

Through regular internal audits, standard ISO 9001 version 2000 shows the total involvement at all levels of the company to ensure we constantly work towards:

- Complying with our lead-times
- Controlling our products
- And improving our services.

Our quality requirement continues through developing our products which are subject to certification with the main independent laboratories, in order to obtain the CE and ETL labels.



All Sauermann pumps mentioned in this guide comply with the RoHS and WEEE European Directives.

At your service

In practice, our quality policy continues in day to day life through the implementation of customer services:

→ **Technical assistance** which, with just one phone call, can provide you with advice and offer the best **tips and information**.

Office open times (8.30am – 5pm Monday to Friday)

Contact 01253 340170

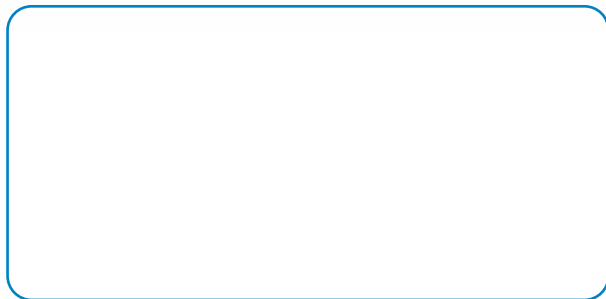
Out of hours service line 24/7 Contact 07730 435 790

→ **Products guaranteed for 24 months.**

→ **An effective after sales department.**

(Products returned to the after sales department are analysed, thus helping to improve our products on a permanent basis).



**SAUERMANN INDUSTRIE S.A**

Parc d'activités de l'orée de Chevry
Route de Férolles
77173 Chevry Cossigny / France
Tel.: (+33) 01 60 62 06 06
Fax: (+33) 01 60 62 09 09
E-mail: info@sauermann.fr

SAUERMANN ITALIA S.R.L.

Via G.Golini 61/11
40024 Castel S.Pietro Terme (Bo) / Italy
Tel.: (+39)-051-6951033
Fax: (+39)-051-942254
E-mail: info@sauermann.it

SAUERMANN UK Ltd.

Units 7 – 9, Trident Business Park
Amy Johnson Way
Blackpool - Lancashire FY4 2RP
United Kingdom
Tel.: + 44 (0) 01253 340170
Fax: + 44 (0) 01253 340179
E-mail: sales@sauermann-uk.com

SAUERMANN GmbH

Kernerstrasse 18
D-74223 Flein / Germany
Tel: (+49) 07131/399990
Fax: (+49) 07131/399992
E-mail: Sauermann-Flein@t-online.de

DIVISION PENINSULA IBERICA

C/ribera del Sena, s/n-Edificio APOT-3°
28042 Madrid / Spain
Tel.:(+34) 91 701 02 53
Fax: (+34) 91 532 87 37
E-mail: juliocastelao@sauermann.es

DIVISION SCANDINAVIA, BALTIC COUNTRIES, RUSSIA

Parkgade 8
6440 Augustenborg / Denmark
Tel.: (+45) 74 47 10 78
mobil: (+45) 40 59 10 78
E-mail: peter.remontius@get2net.dk

SAUERMANN N.A. Corp.

415 Oser Avenue
Suite P, Hauppauge, NY 11788 / USA
Tel.: (+1) 631-234-7600
Fax: (+1) 631-234-7605
E-mail: sales@sauermann.us

SAUERMANN Shanghai Co. Ltd.

155 ZhangPu Road
JuYuan Development Park, JiaDing District
Shanghai 201821 / P.R. Chine
Tel. : (+ 86) 21 69 16 89 61
Fax : (+ 86) 21 691 689 62
E-mail : sales@sauermann.com.cn

SAUERMANN Hong Kong Ltd

10A Seapower Ind. Centre
177 Hoi Bun Road, Kwun Tong
Kowloon, Hong Kong
E-mail: sales@sauermannpumps.hk



www.sauermannpumps.co.uk