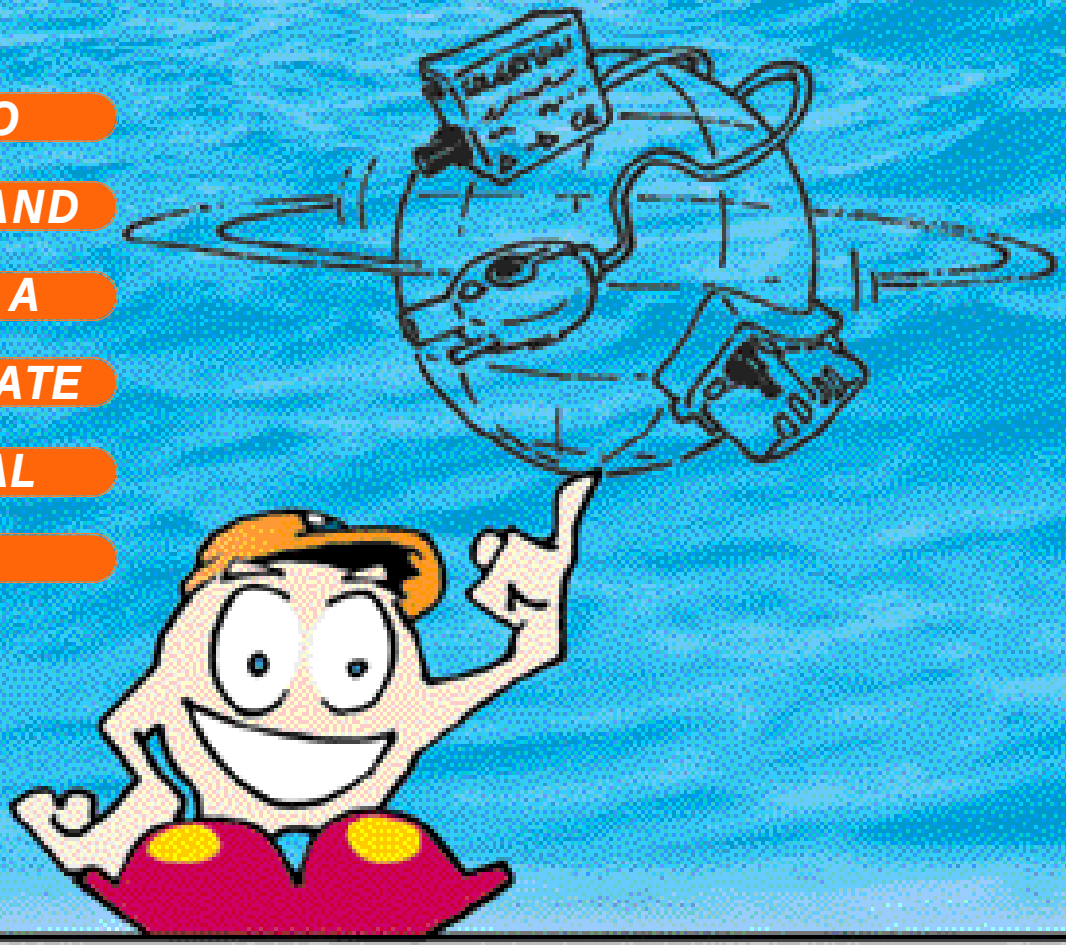
HOW TO CHOOSE AND INSTALL A CONDENSATE REMOVAL PUMP



sauermann

INSTALLER'S HANDBOOK

➤ WHY?

➤ HOW?

The installation of air conditioning entails the formation of condensates (drops of water caused by the passage of warm moist air over the evaporator).

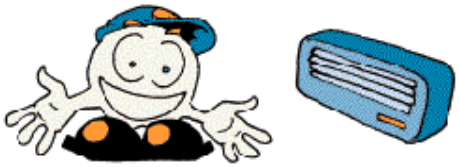
To get rid of them, there are 2 POSSIBILITIES:

1

Evacuate the condensates by gravity which means dealing with technical and aesthetic difficulties (distant sanitation outlet, not enough fall, damage to walls and ugly pipework).

2

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



WHAT IS A CONDENSATE REMOVAL PUMP?

It is a system which consists of a ***pump block and a detection unit*** which means that, without a gravity fall, condensates are positively removed to the waste-water pipework.

This technology has ***3 OVERWHELMING ADVANTAGES***:

1 It protects the appearance of the customer's installation (no ugly pipework to mar the site).

2 Ease, simplicity and safety of the installation.

3 Reduction of the risk of bacterial contamination by wastewater (no stagnation or back-flow of water thanks to non-return valves).

There are ***3 TYPES*** of condensate removal pumps:

COMPOUND PUMPS
(separate pump and detection system)

SI 2750 & SI 2760
Max. flow rate:
10 l/h / 20 l/h
Max. suction head:
2 m
Max. discharge head:
6 m

EE 1750
Max. flow rate:
30 l/h
Max. suction head:
2,50 m
Max. discharge head:
10 m

MONOBLOCK PUMPS with tanks
(integrated pump and detection system)

EE 1650
Tank:
0,5 l
Max. flow rate:
30 l/h
Max. discharge head:
13 m

SI 1805 & SI 1820
Tank:
0,5 l / 2 l
Max. flow rate:
500 l/h
Max. discharge head:
5,4 m

PERISTALTIC PUMPS
(with or without sensor)

PE 5000 / 5100 / 5200
Max. flow rate:
6 l/h
Max. suction head:
2 m
Max. discharge head:
12 m

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 sucks in, then evacuates the condensate.

2) Centrifugal impeller method

A centrifugal impeller wheel evacuates the condensate. These pumps are intended for high flow rate requirements and are particularly suitable for "heavy" condensates.

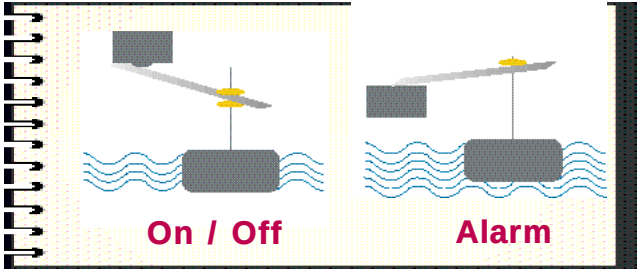
3) Peristaltic Pumps

Operates through compression of a tube by rotation of a roller assembly which evacuates even heavily contaminated condensates. These quiet self-priming pumps are able to run dry without damage.

WHICH DETECTION SYSTEM?

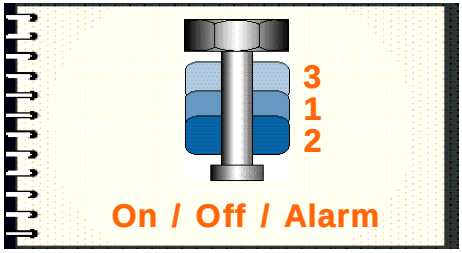
SAUERMANN has developed 3 detection systems: ***the first*** is based on two individual float switches, one of which controls the ***on/off*** levels and the other the ***alarm***.

SYSTEM INSTALLED ON THE SI 1805 & SI 1820 CENTRIFUGAL PUMPS.



The second is based on a float switch controlling 3 levels: **1 On, 2 Off, 3 Alarm**

SYSTEM INSTALLED ON THE
SI 2750, SI 2760, EE 1750, EE 1650
AND PE 5200
PISTON & PERISTALTIC PUMPS



Because they are largely insensitive to the nature of the condensates (oily or greasy on the surface, deposits of tartar, dust or algae formation) ***float switch detection*** offers ***great reliability***.

The presence of an alarm level makes an contribution to increased safety. As soon as a problem is detected (too much water arriving. etc.) the pump ***automatically cuts off*** the air conditioning system compressor or ***sets off an audio or light alarm.***

The third operates by ***detecting a temperature difference*** across the cooling coil of more than 5° C between two temperature sensors provided.

Alarm levels of the various pumps

	SI 2750 & SI 2760 PE 5200	EE 1750	EE 1650		SI 1805	SI 1820
			Under-tank version	In-tank version		
ON	16 mm +/- 2	17 mm +/- 2	16 mm +/- 2	21 mm +/- 2	24 mm +/- 3	43 mm +/- 3
OFF	11 mm +/- 2	11 mm +/- 2	10 mm +/- 2	15 mm +/- 2	13 mm +/- 3	27 mm +/- 3
ALARM	19 mm +/- 2	21 mm +/- 2	21 mm +/- 2	26 mm +/- 2	30 mm +/- 3	67 mm +/- 3

EE 1650 • functions as a standard Tank Pump (condensates enter from above) or as a semi-submersible Tank Pump (condensates enter the tank from below through the knockout hole provided).

HOW TO CHOOSE YOUR CONDENSATE REMOVAL PUMP

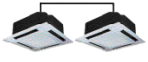
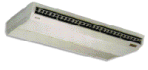
YOU NEED TO KNOW THE FOLLOWING CHARACTERISTICS:

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 equipping.

On the basis of these characteristics, you can choose your pump.
Check that the model you choose has a sufficient flow / pressure ratio.

WHICH PUMP ····► FOR WHICH APPLIANCE?

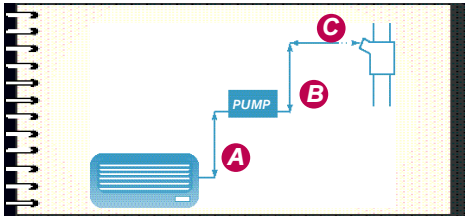
				
Air conditioning column units	Refrigerated display cabinets	Multi cassette systems	Ceiling suspended DX / Chilled water fan-coil units	Ducts units, consoles units

If you are in any doubt on which pump to choose, contact us!

PUMP SELECTION GUIDE TABLE	SI 2750 SI 2760	EE 1750	EE 1650	SI 1805	SI 1820	PE 5000 PE 5100 PE 5200
WALL MOUNTED						✓
Split system	✓	✓				
Water-cooled consoles	✓	✓	✓			
Fan-coil units	✓	✓	✓			✓
Column units				✓	✓	✓
CEILING MOUNTED						
Floor/ceiling suspended	✓	✓				✓
Ducted units	✓	✓	✓	✓	✓	✓
Cassette & multi-cassettes				✓	✓	
Units factory fitted with an internal pump with insufficient discharge height				✓	✓	
REFRIGERATION						
Laboratory evaporators				✓	✓	✓
Display cabinets				✓	✓	✓
Cold-store evaporators				✓	✓	✓
Ice-making machines				✓	✓	
Drinks vending machines				✓	✓	

YOU MUST TAKE INTO ACCOUNT THE LOSS OF HEAD CONNECTED WITH:

- **A** The ***suction head*** if the pump is installed higher than the air-handling unit
- **B** The ***vertical discharge*** head
- **C** The ***horizontal discharge length***



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/h per kW of cooling capacity***.

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

In the case of Heat Pump (reverse cycle) appliances, you must ensure that the flow rate of the chosen pump is compatible with the volume of condensate produced during the de-frost cycles.

DETERMINE THE TRUE PUMP FLOW RATE RELATING TO YOUR INSTALLATION

For example - For example - For example

- *One Air conditioner = 3 kW*
- *Volume to be removed : 3x0.8 l = 2.4l/hr.*
- *Conditions of installation as follows:*
  - *A Suction head: 1m*
  - *B Vertical discharge head: 2m*
  - *C Horizontal discharge length: 5m*
- *The right pump for these conditions is the: SI2750 (See table below)*
- *The true flow rate of your pump will therefore be: 9 l/hr (See table below)*

Observation - Observation

True flow rate ≥ volume of condensates to be removed

... You have chosen the right pump

True flow rate ≤ volume of condensates to be removed...

...You must select a more powerful pump

SI 2750 & SI 2760 PUMPS • TRUE FLOW RATES

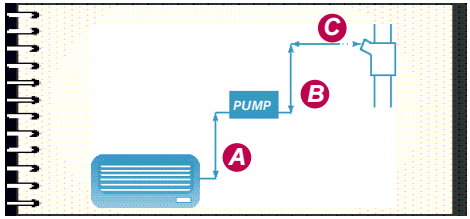


TABLE OF TRUE FLOW RATES FOR THE SI 2750 & SI 2760 PUMPS

The head losses defined in this table are calculated with 1/4" flexible pipework of 6mm internal Ø	Vertical discharge head (B) \ Horizontal discharge length (C)	5 m		10 m		20 m		30 m	
		SI 2750 (in l/h)	SI 2760 (in l/h)	SI 2750 (in l/h)	SI 2760 (in l/h)	SI 2750 (in l/h)	SI 2760 (in l/h)	SI 2750 (in l/h)	SI 2760 (in l/h)
(A) SUCTION HEAD 0m	1 m	10	20	9	18	8	16	7	14
	2 m	9	18	8	16	7	14	6	12
	3 m	8	16	7	14	6	12	5,5	11
	4 m	7	14	6	12	5,5	11	5	10
	5 m	6	12	5,5	11	5	10	4,5	9
	6 m	5,5	11	5	10	4,5	9	4	8
(A) SUCTION HEAD 1m	1 m	10	20	9	18	8	16	7	14
	2 m	9	18	8	16	7	14	6	12
	3 m	7	14	6	12	5	10	5	10
	4 m	6	12	5	10	4	8	4	8
	5 m	4,5	9	4	8	3,5	7	3	6
	6 m	3	6	2,5	5	2	4	1,5	3
(A) SUCTION HEAD 2m	1 m	8	16	6	12	5	10	4	8
	2 m	7	14	5	10	4	8	3	6
	3 m	5	10	4	8	3	6	2	4
	4 m	4	8	3	6	2	4	1	2
	5 m	3	6	2	4	1	2	0,5	1
	6 m	2	4	1	2	0,5	1	0	0

EE 1750 PUMP • TRUE FLOW RATES

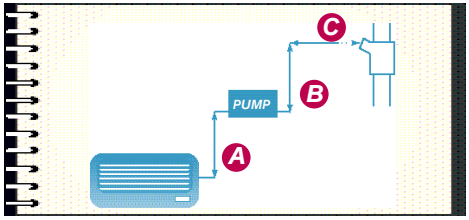
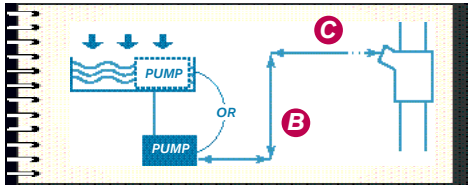


TABLE OF TRUE FLOW RATES FOR THE EE 1750 PUMP

The head losses defined in this table are calculated with 1/4" flexible pipework of 6mm internal Ø	Vertical discharge head B \ Horizontal discharge length C	5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (in l/h)
A SUCTION HEAD 0m	1 m	25	23	21	19
	2 m	20	19	18	17
	3 m	17	17	16	15
	4 m	14	14	13	12
	5 m	13	13	12	11
	6 m	10	9	8	7
A SUCTION HEAD 1m	1 m	19	18	16	15
	2 m	18	16	15	14
	3 m	16	15	14	12
	4 m	13	12	11	10
	5 m	12	10	9	6
	6 m	9	7	6	5
A SUCTION HEAD 2m	1 m	16	15	14	13
	2 m	15	14	13	12
	3 m	14	12	11	10
	4 m	12	10	9	8
	5 m	9	8	7	6
	6 m	6	5	4	3



EE 1650 PUMP • TRUE FLOW RATES

TABLE OF TRUE FLOW RATES FOR THE EE 1650 PUMP

The head losses defined in this table are calculated with flexible 1/4" pipework of 6mm internal Ø	Vertical discharge head B / Horizontal discharge length C	5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (in l/h)
	1 m	25	23	21	19
	2 m	20	19	18	17
	3 m	17	17	16	15
	4 m	14	14	13	12
	5 m	13	13	12	11
	6 m	10	9	8	7

SI 1805 & SI 1820 PUMPS • TRUE FLOW RATES

TABLE OF TRUE FLOW RATES FOR THE SI 1805 & SI 1820 PUMPS

The head losses defined in this table are calculated with flexible pipework of 10mm internal Ø	Vertical discharge head B / Horizontal discharge length C	5 m (in l/h)	10 m (in l/h)	20 m (in l/h)	30 m (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

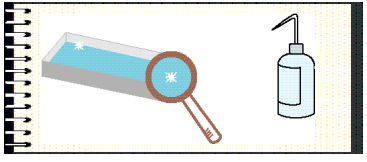
PE 5000, PE 5100 & PE 5200 PUMPS • TRUE FLOW RATES

THE FLOW RATE AVAILABLE IS CONSTANT AND IS INDEPENDENT OF BOTH THE SUCTION AND DISCHARGE HEAD WITHIN SYSTEM LIMITS.

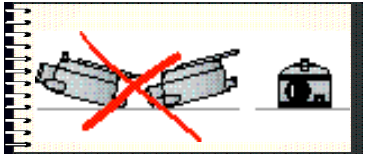
Flow	6 l/h	Max Suction Head	2 m	Max Discharge Head	12 m

HOW TO INSTALL YOUR CONDENSATE REMOVAL PUMP

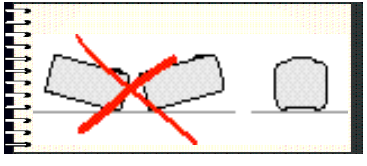
A FEW ESSENTIAL RULES



⇨ ***Before installation,*** thoroughly rinse the coil and the condensates collection tray to get rid of any foreign bodies and metal particles.



⇨ When the pump has ***a separate detection unit,*** it ***MUST be fixed horizontally*** on a flat surface.



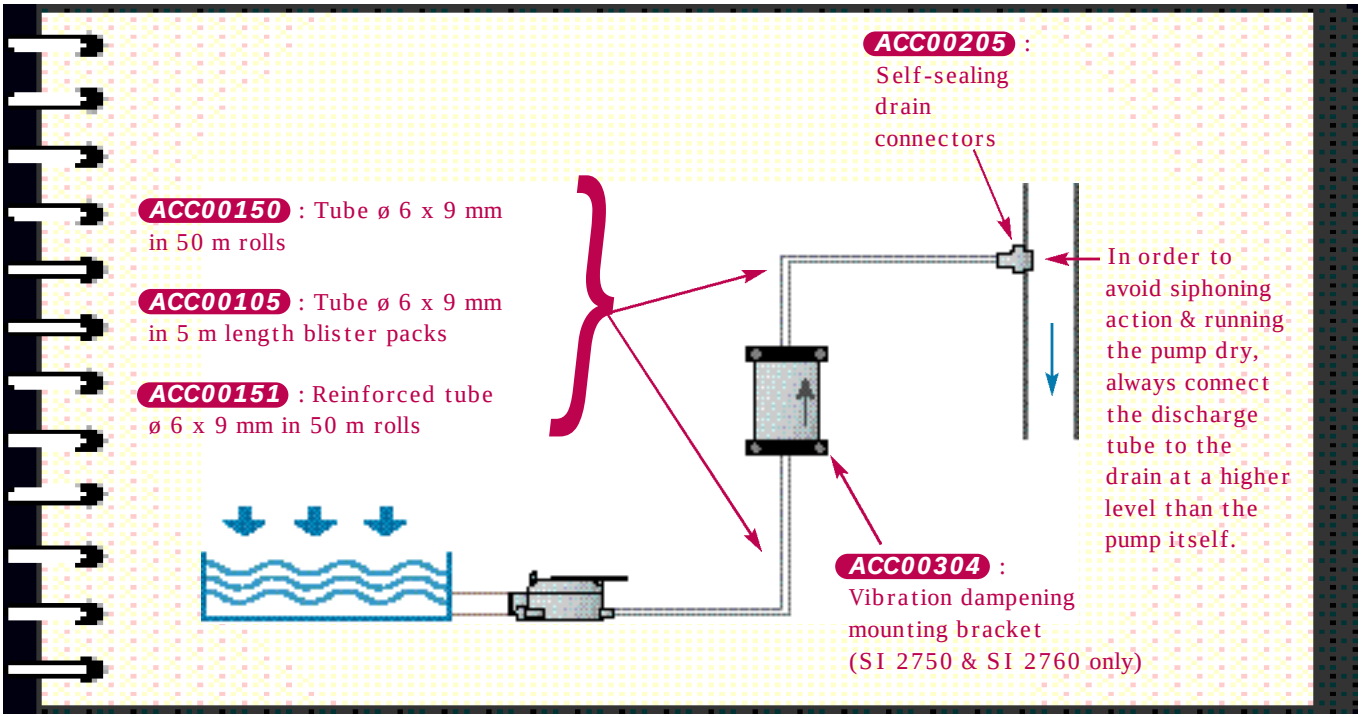
⇨ ***Monoblock*** tank pump must always ***be fitted horizontally on a level surface.***

CAUTION

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

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 on the tank of the EE 1650, SI 1805 and SI 1820 monoblock tank pumps.

OUTLINE DIAGRAM OF A TYPICAL SI 2750 & SI 2760 PUMPS INSTALLATION



IMPORTANT COMMENT ON COMMISSIONING & MAINTENING SI 2750, SI 2760 AND EE 1750 PUMPS

To ensure that the pumps function correctly in the future, ensure that when you first commission them (and after each maintenance operation) that the pump are properly primed. In other words, ensure that the intake tube between that float detection unit and the pump itself is completely filled with water. For this you can use the ACC 00401 priming squeeze bottle.

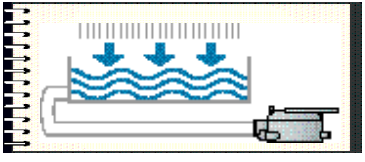
HOW TO INSTALL THE SAUERMANN

1• The Detection Block

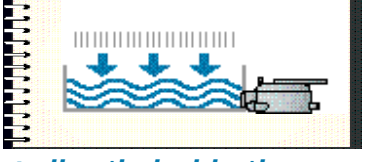
Dimensions : L 55 x W 38 x H 32 mm

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

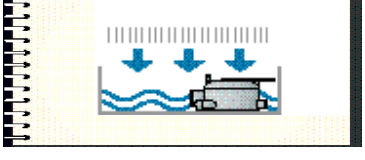
⇨ ***at the output*** from the condensate evacuation tube



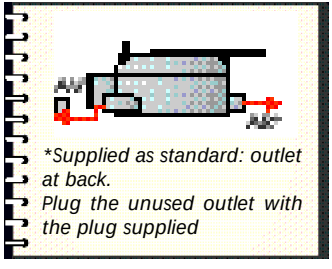
⇨ ***directly at the condensate drain tray outlet***



⇨ ***directly inside the condensate drain tray***

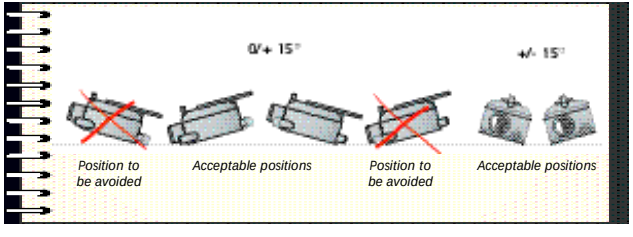


Condensate can be drawn from either the ***front*** or the ***back of*** the detection unit to the pump.



**Supplied as standard: outlet at back.*
Plug the unused outlet with the plug supplied

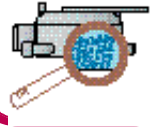
Installation position of the detection unit



The vent pipe allows the air to be bled from the detection unit. You are advised to use the 4 mm clear tube supplied. Its length allows the upper level of the tube to be slightly above the maximum level of the condensates drain tray. In the event of an alarm or defect, this avoids overspill (principle of communicating vessels). When commissioning or after routine maintenance, ensure that this breather tube does not contain any water. Do not use a longer tube than the one supplied.

IMPORTANT

Make sure you clean the filter at every maintenance visit.

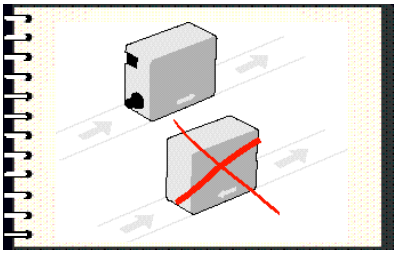


SI 2750 & SI 2760 PUMPS

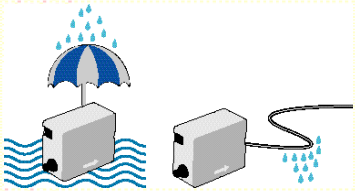
2• The pump units

Dimensions : L 75 x W 38 x H 60 mm

Ensure that the condensates pass through the pump in the ***right direction*** (see arrow provided)



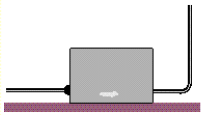
The pump unit must ***not be splashed with water*** or be placed in a damp position.



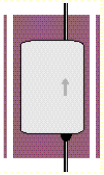
Caution: The water might come from condensation along the connecting or discharge pipes or from a poor seal at the pipe/pump connection fittigs.

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..

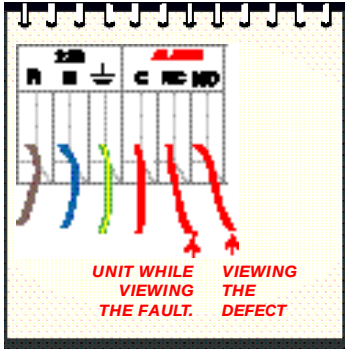
STARTING UP

Carry out an in situ test and prime the pump. To do this, gently fill with water using the priming squeezle bottle (ACC00401)

3• Connections

You must wire up the 8A 230V (resistive) alarm contacts.

ALLOWS YOU TO TURN OFF THE AIR CONDITIONING UNIT WHILE VIEWING THE FAULT.



The pump must remain electrically live even when the air conditioner is not.

4• Recommended accessories

NEW

ACC 00100

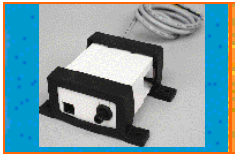
Special SI 2750 & SI 2760 installation kit containing the following accessories:
1 x ACC 00205, 1 x ACC 00208,*
1 x ACC 00209, 1 x ACC 00304

ACC 00105
ACC 00150
ACC 00151

Clear tubing Ø 6mm
ACC 00105 : 5m in blister pack
ACC 00150 : in 50m roll
ACC 00151 : reinforced, 50m roll

ACC 00205

6 self-sealing fittings for condensate removal

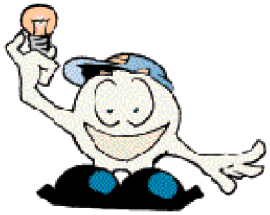


ACC 00304

Vibration dampening fastener kit (Supplied without the pump)

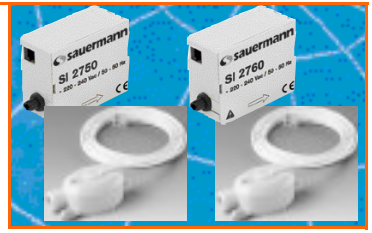
**1 self sealing fitting*

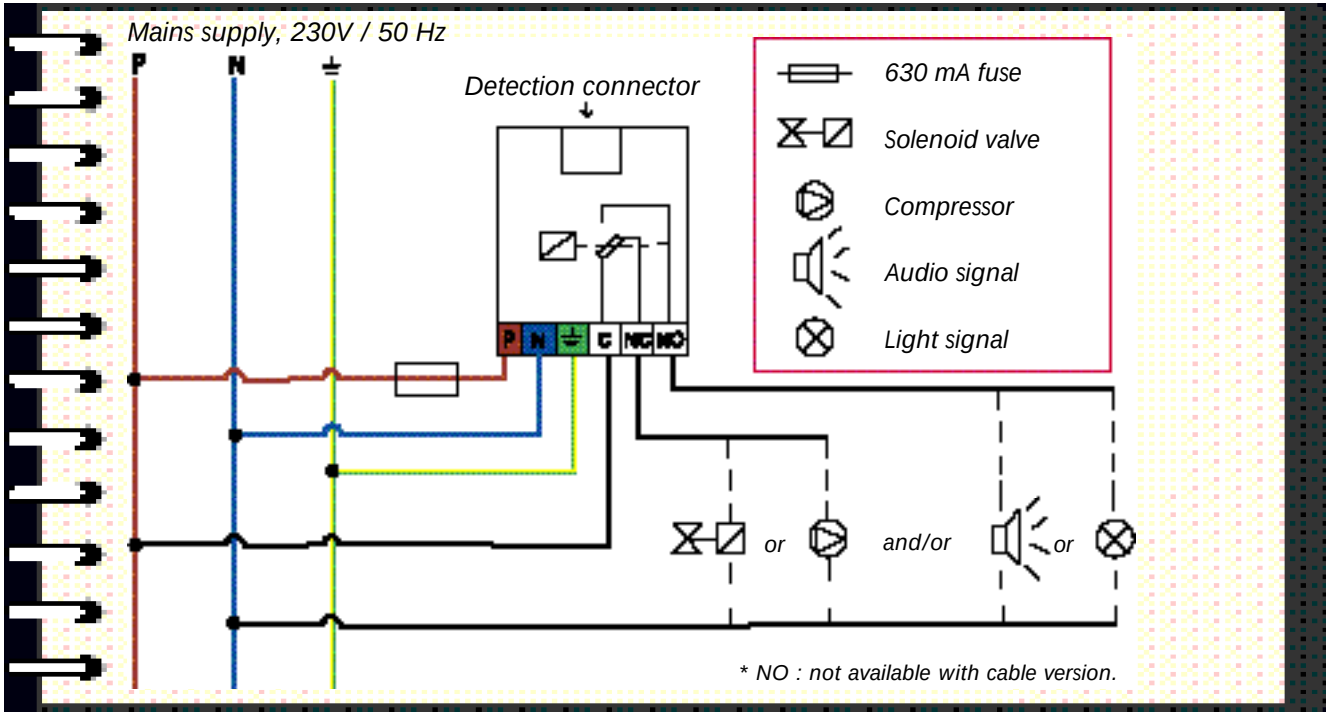
5• Diagram of electrical connections of the SI 2750 & SI 2760 pumps



IMPORTANT

The pumps must have an electricity supply that is independent to that of the air conditioner to ensure that they continue to operate if the refrigerating appliance breaks down.





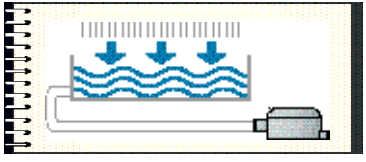
HOW TO INSTALL THE

1 • The Detection Unit

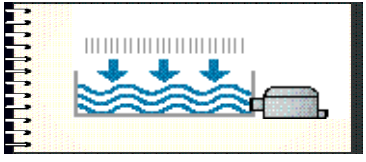
Dimensions : L 55 x W 40 x H 35 mm

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

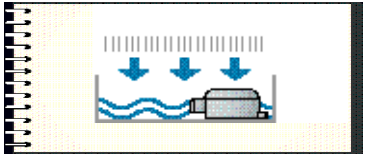
⇨ ***at the output*** from the condensate drain tube



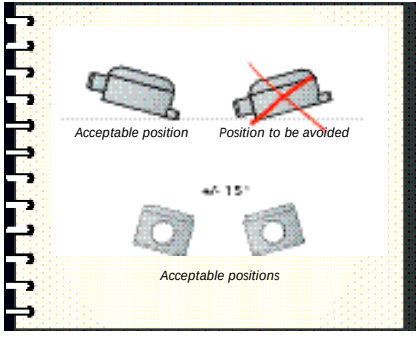
⇨ ***directly at the condensate drain tray outlet***



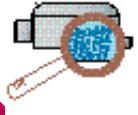
⇨ ***directly inside the condensate drain tray***



Installation position of the detection unit.



Make sure you clean the filter at every maintenance visit.



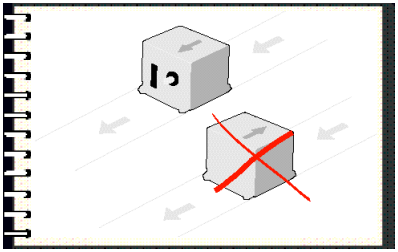
The vent pipe allows the air to be bled from the detection unit. You are advised to use the 4 mm clear tube supplied. Its length allows the upper level of the tube to be slightly above the maximum level of the condensates drain tray. In the event of an alarm or defect, this avoids overspill (principle of communicating vessels). When commissioning or after routine maintenance, ensure that this breather tube does not contain any water. Do not use a longer tube than the one supplied.

SAUERMANN EE 1750 PUMP?

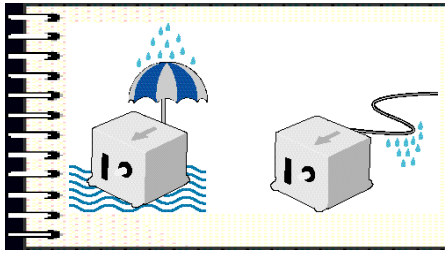
2• The pump unit

Dimensions : L 87 x W 103 x H 70 mm

Ensure that the condensates pass through the pump ***in the right direction*** (arrow on the case)

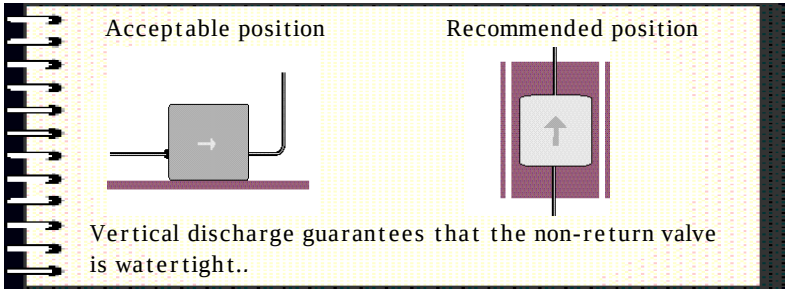


The pump unit ***must not be splashed with water*** or be placed in a damp position.



Caution: The water might come from condensation along the connecting or discharge pipes or from a poor seal at the pipe/pump connection fittigs.

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



Vertical discharge guarantees that the non-return valve is watertight..

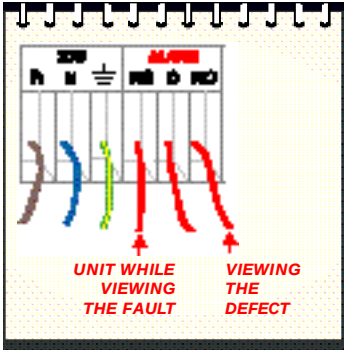
STARTING UP

Carry out an in situ test and prime the pump. To do this, gently fill with water using the priming squeezle bottle (ACC00401)

3• Connections

You must wire up the 8A 230V (resistive) alarm contacts.

ALLOWS YOU TO TURN OFF THE AIR CONDITIONING UNIT WHILE VIEWING THE FAULT.

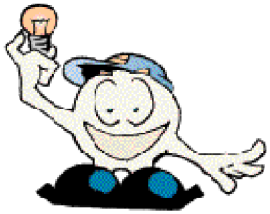


The pump must remain electrically live even when the air conditioner is not.

4• Recommended accessories

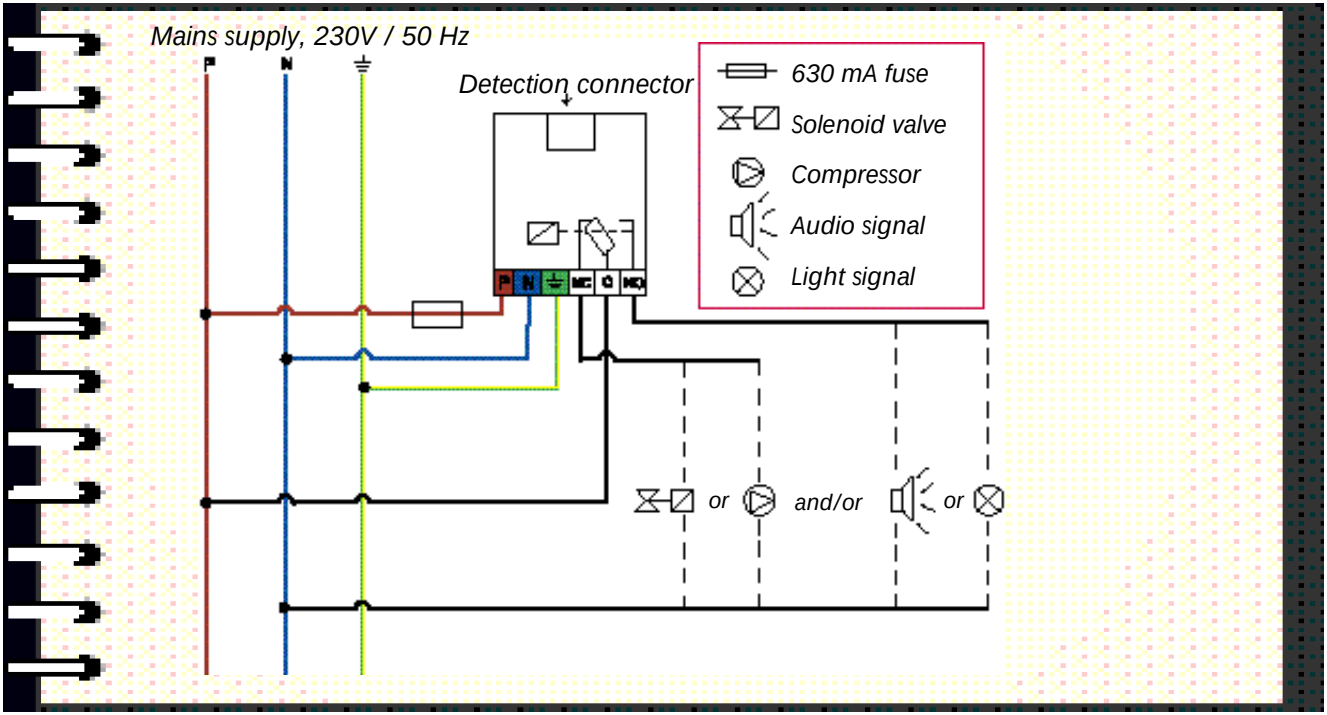
	**ACC 00105** **ACC 00150** **ACC 00151**	*Clear tubing Ø 6mm int.* *ACC 00105 : 5m in blister pack* *ACC 00150 : in 50m roll* *ACC 00151 : reinforced, 50m roll*
	**ACC 00205**	*6 self-sealing fittings removal for condensate*
	**ACC 17010**	*In-line filter*

5• Diagram of electrical connections of the EE 1750 pump



IMPORTANT

The pumps must have an electricity supply that is independent to that of the air conditioner to ensure that they continue to operate if the refrigerating appliance breaks down.



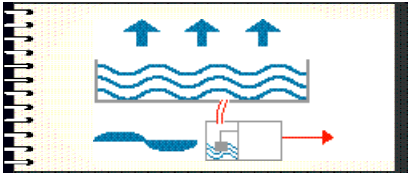
HOW TO INSTALL THE

1• The Pump

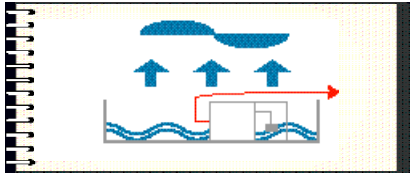
Dimensions : L 159 x W 84 x H 100 mm

The pump can be connected in ***2 ways:***

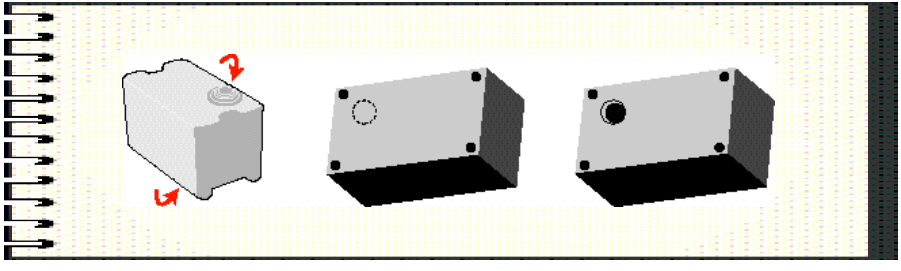
➪ The pump receives the condensates via the ***gravity inlet (in the top)***



➪ The pump is placed directly ***in the condensate collecting tray***



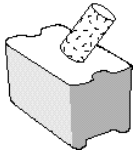
To use an EE 1650 in a condensate collecting tray, where the condensates feed ***from below***, follow the procedure outlined below.



CAUTION!
THIS PROCEDURE CANNOT BE REVERSED

SAUERMANN EE 1650 PUMP

Make sure you clean the filter at every maintenance visit.

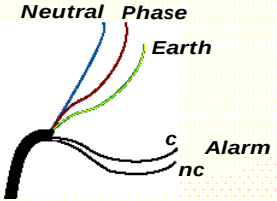


STARTING UP

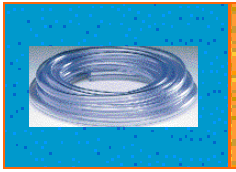
Carry out an in situ test and prime the pump. To do this, gently fill with water using the priming squeezle bottle (ACC00401)

2• Connections

You must wire up the 8A 230V (resistive) alarm contacts.



3 • Recommended accessories



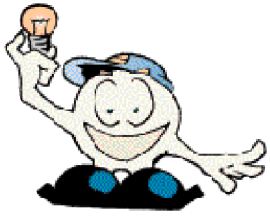
ACC 00105
ACC 00150
ACC 00151

Clear tubing Ø 6mm int.
ACC 00105: 5m in blister pack
ACC 00150: in 50m roll
ACC 00151: reinforced, 50m roll

ACC 00205

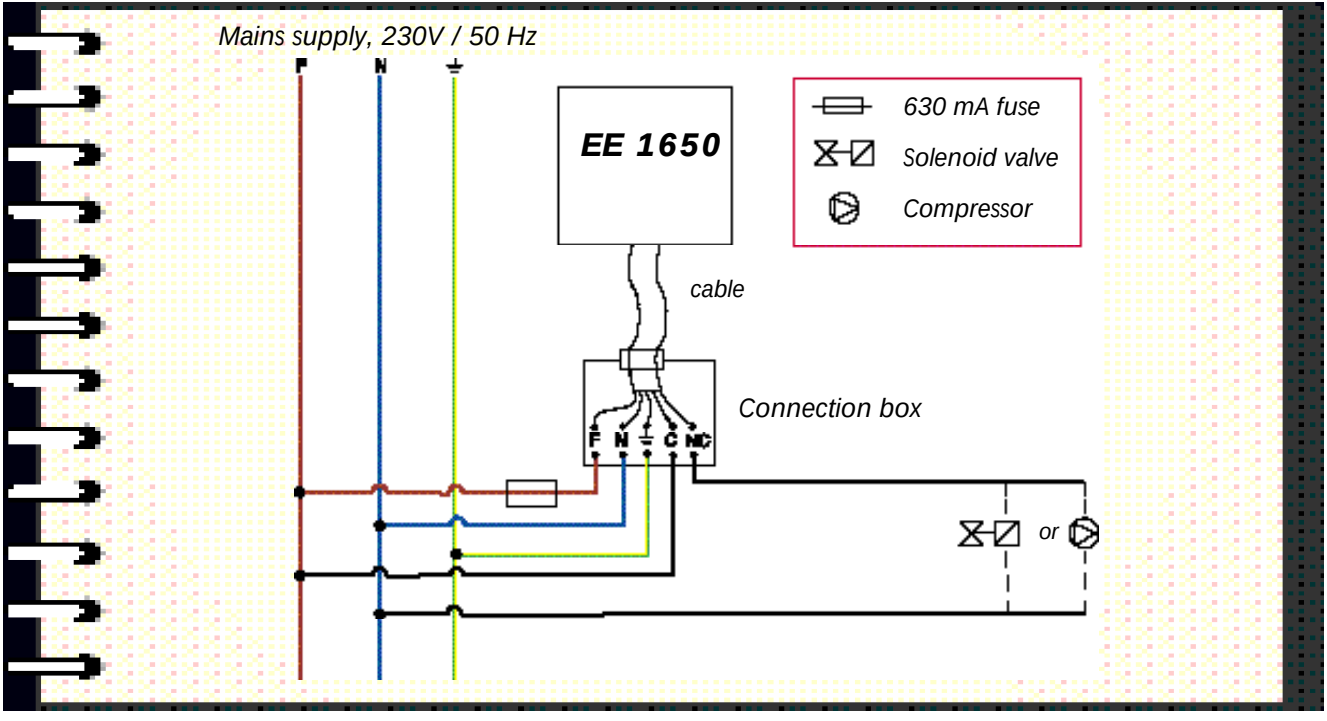
6 self-sealing fittings condensate removal

5• Diagram of electrical connections of the EE 1650 pump



IMPORTANT

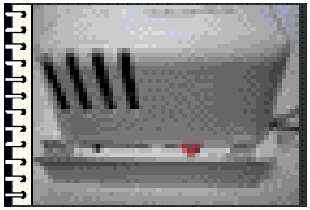
The pumps must have an electricity supply that is independent to that of the air conditioner to ensure that they continue to operate if the refrigerating appliance breaks down.



HOW TO INSTALL SAUERMANN SI 1805 & SI 1820 PUMPS

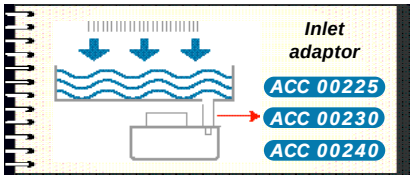
1• The pump

Dimensions : SI 1805 : L 195 x W 130 x H 122 mm
SI 1820 : L 195 x W 130 x H 170 mm



➪ The transport ***tear-off strip*** is to be removed before starting up.

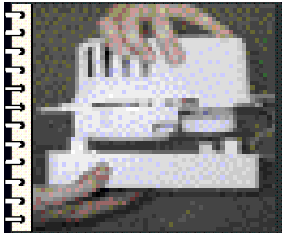
➪ The pump receives the condensates via the inlet ***in the top***

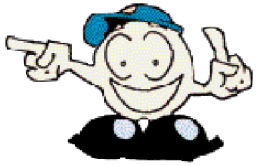


2• Mechanical assembly

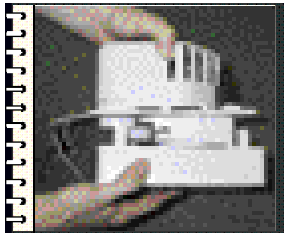
SAUERMANN ***SI 1805 and SI 1820*** have a UNIQUE ***reversible tank***

➪ Condensate inlet ***on left***





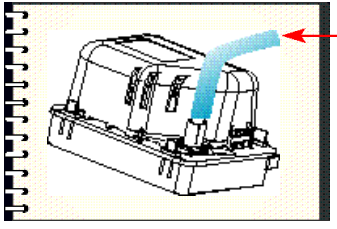
➪ Condensate inlet ***on right***



For reasons of compliance with standards, the motor cover (hood) must not be removed

HOW TO INSTALL SAUERMANN

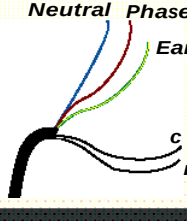
3• Hydraulic connections



PLEASE NOTE: THE RADIUS OF THE BEND MUST NOT BE LESS THAN ***55 mm***

4• Connection of alarm

You must wire up the 4A 230V (resistive) alarm contact.

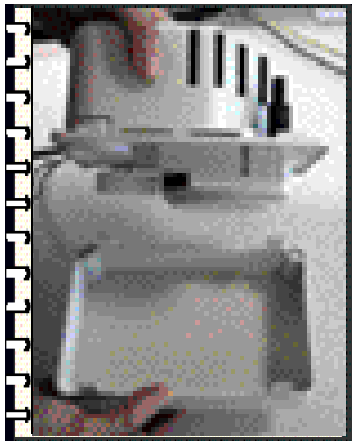


5• Recommended accessories

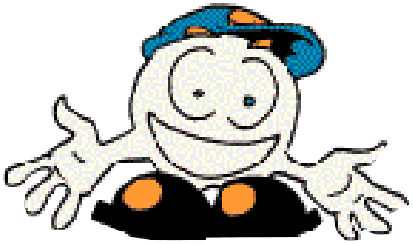
	***ACC 00110***	*Special SI1805 & SI1820 installation kit containing the following accessories:1 x ACC 00225, 1 x ACC 00230, 1 x ACC 00240*
	***ACC 00125*** ***ACC 00126***	*Clear tubing ∅ 10 mm int. 25m roll* *ACC 00125: non-reinforced tube* *ACC 00126: reinforced tube*
	***ACC 00225*** ***ACC 00230*** ***ACC 00240***	*Condensate inlet adapters* *ACC 00225: 1", Ø 25 mm* *ACC 00230: 1" 1/4, Ø 32 mm* *ACC 00240: 1" 1/2, Ø 40 mm*
	***ACC 00801***	*Non-return valve ∅ 10mm*

SI 1805 & SI 1820 PUMPS

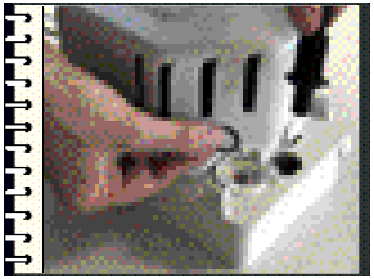
6• Maintenance



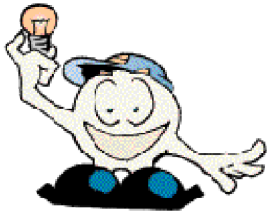
⇨ The inside of the pump must be ***regularly*** cleaned. For this we recommend that you use a solution containing 5% bleach. Ensure that the float switches remain clean.



7• Removing the valve

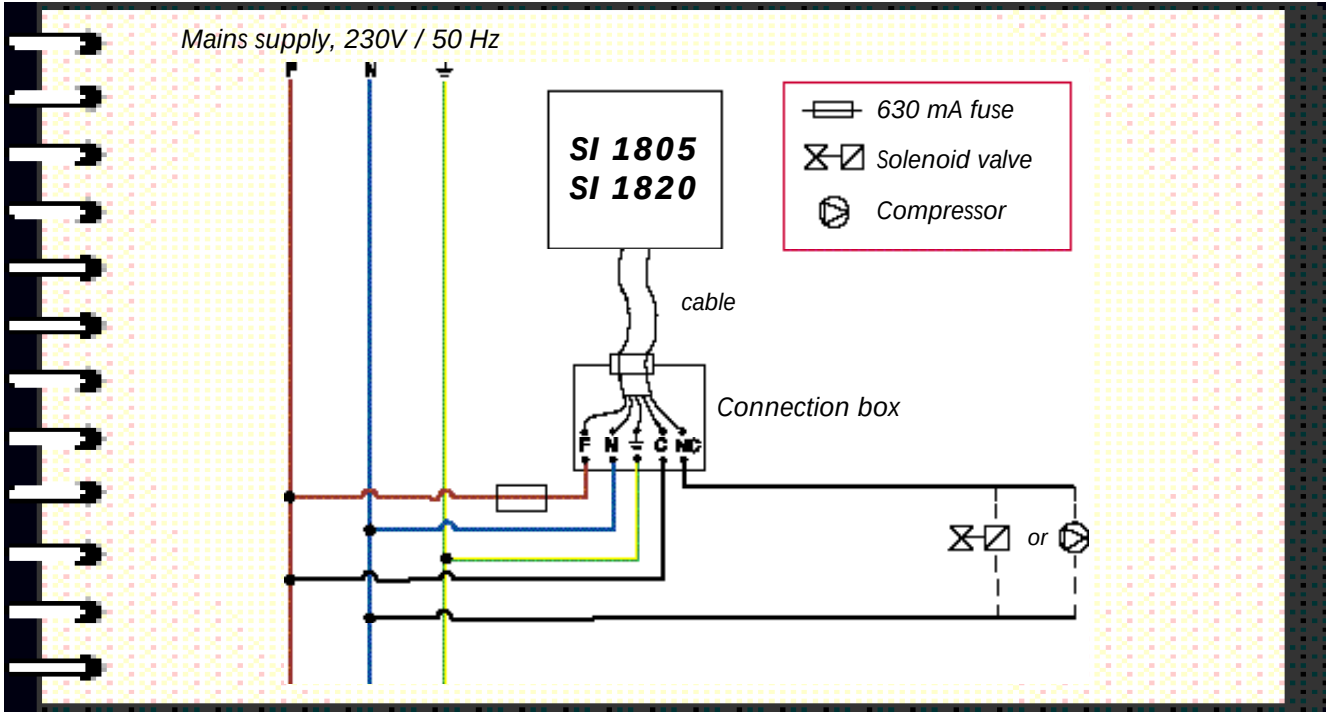


8• Diagram of electrical connections of the SI 1805 & SI 1820 pumps



IMPORTANT

The pumps must have an electricity supply that is independent to that of the air conditioner to ensure that they continue to operate if the refrigerating appliance breaks down.



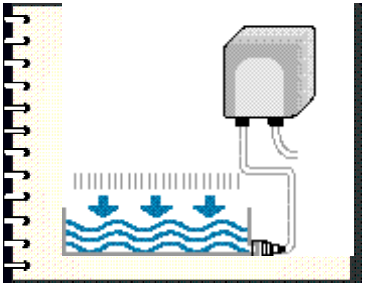
HOW TO INSTALL
SAUERMANN PE 5000, PE 5100 & PE 5200

1• The pump units ***Dimensions : PE 5000 : L 109 x W 102 x H 91 mm***
PE 5100 : L 109 x W 102 x H 91 mm
PE 5200 : L 109 x W 102 x H 91 mm

Each model requires its own distinct installation method as follows:

PE 5000 ***Model : 240 V signal, Cooling only applications***

Installation

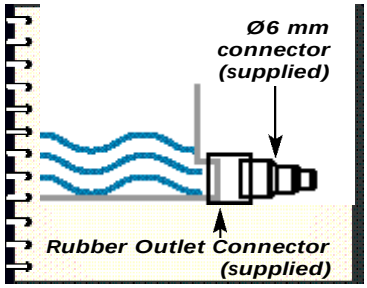


⇨ Connect ***the inlet port*** of the PE 5000 to the condensate tray with the 6mm dia flexible plastic tube provided.

Operation

Pump operation is dependent on the operation of the compressor of the Air Conditioning unit or whenever the system provides cooling. The pump will continue to run on for three minutes after compressor shut down.

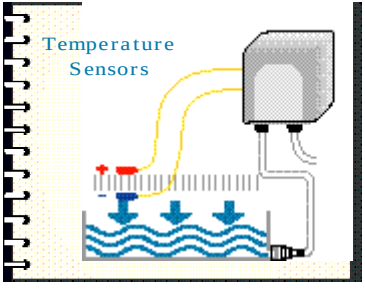
Example Install for PE 5000 & PE 5100 Pumps



HOW TO INSTALL SAUERMANN

PE 5100 Model : low Voltage Cooling only, Heat-Pump & Inverter Applications

Installation



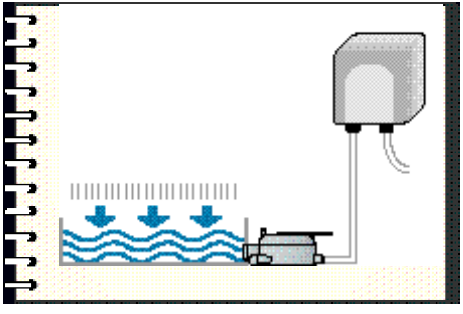
⇨ Connect ***the inlet port*** of the PE 5100 to the condensate tray with the 6mm dia flexible plastic tube provided.

Operation

Pump works by sensing a tempature difference across the cooling coil of more than 5° C between the two temperature sensors provided. The PE 5100 continues to operate on overrun for three minutes after the sensors detect that the system is no longer in cooling mode.

PE 5200 Model : Float detection for All Applications

Installation



⇨ Connect ***the inlet port*** of the PE 5200 to the outlet of the remote float detection unit or ***directly to the condensate tray*** outlet with the 6mm dia flexible plastic tube provided.

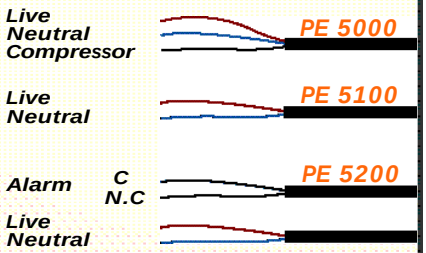
Operation

The pump operates when condensates enter the remote float detection unit. In this model, an 230 V / 8 Amp Resistive Alarm contact is available.

PE 5000, PE 5100 & PE 5200

2• Connecting the pump units

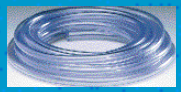
Always use the alarm contacts provided
8 A 230 V (resistive).



STARTING UP

Carry out an in situ test and prime the pump. To do this, pour water into the tray with squeeze bottle (ACC00401). Selecting test button on the PE 5000 & PE 5100 will operate the pump for three minutes. The PE 5200 will automatically start as soon as condensates enter the detection unit atteched to the tray.

3 • Recommended accessories



ACC 00105
ACC 00150
ACC 00151

Clear tubing Ø 6mm int.
ACC 00105: 5m in blister pack
ACC 00150: in 50m roll
ACC 00151: reinforced, 50m roll

ACC 00205

6 self-sealing fittings condensate removal

MAINTENANCE

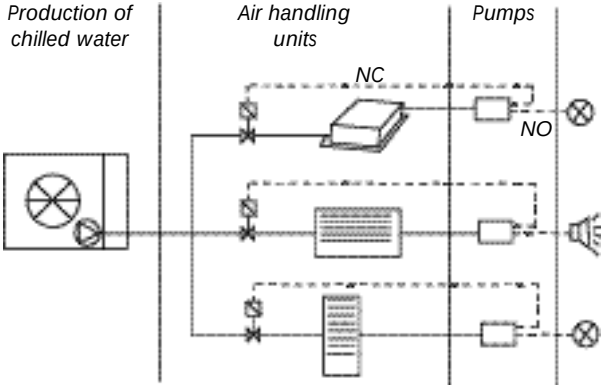
Replace the tube (PE 5002) at least every year and the pump head (PE 5001) every two years or as required.

DIFFERENT USES OF THE ALARM

Alarm Contact

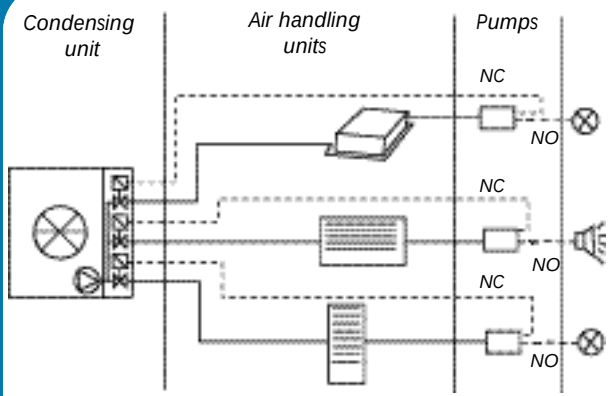
SI 2750 & SI 2760 & EE 1750 :
NO - NC 8 A 230 V resistive
EE 1650 : NC 8 A 230 V resistive
SI 1805 & SI 1820 : NC 4 A 230 V resistive
PE 5200 : NC 8 A 230 V resistive

Chilled water Monosplit and Multisplit



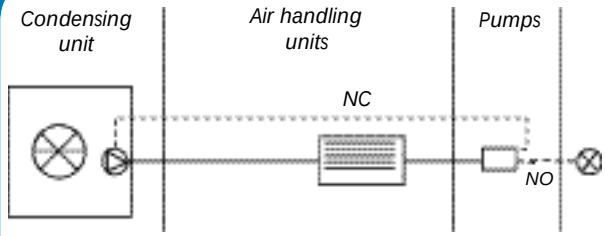
A pump in alarm condition cuts the solenoid valve or sets off an audio or light alarm

Direct expansion Multisplit



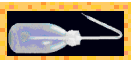
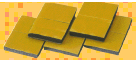
A pump in alarm condition cuts the solenoid valve or sets off an audio or light alarm

Direct expansion Monosplit



A pump in alarm condition cuts the solenoid valve or sets off an audio or light alarm

THE RECOMMENDED ACCESSORIES

	REFERENCES	DESCRIPTION
	ACC 00106	Blond rubber 50 cm for SI 2750 / SI 2760 / EE 1750 / PE 5200
Ø 22  Ø 17	ACC 00201	Adapter kit Ø 17 / Ø 22 mm
Ø 32  Ø 17	ACC 00202	Adapter kit Ø 17 / Ø 22 mm
Ø 32  Ø 17	ACC 00203	Restriction Ø 17 / Ø 32 mm for flow reduction
	ACC 00204	5 straight connectors Ø 6 mm and 5 elbows Ø 6 mm
	ACC 00401	Priming squeezle bottle allowing pump to be tested without dismantling
	ACC 00501	10 double side adhesive tape
	ACC 00703	Extension 3 m for SI 2750 / SI 2760 / EE 1750 / PE 5200
	ACC 00705	Extension 5 m for SI 2750 / SI 2760 / EE 1750 / PE 5200
Ø 15  Ø 15	ACC 00208	90° elbow, 15 x 15 mm
Ø 15  Ø 15	ACC 00209	Flexible coupling 15 x 15 mm, allows complete emptying of condensate tray
Ø 17  Ø 15	ACC 00210	90° elbow 17 x 15 mm

SPARE PARTS

	REFERENCES	DESCRIPTION
	SI 2858	Detection unit for SI 2750 / SI 2760 / PE 5200 pumps.
	SI 2758	Detection unit for EE 1750pump.
	PE 5001	Replacement head for PE 5000, PE 5100 & PE 5200 pumps.
	PE 5002	Replacement tube unit for all PE 5000, PE 5100 & PE 5200 models.

Notes

SAUERMANN FRANCE
Parc d'activités de l'Orée de Chevry
Route de Férolles • 77173 CHEVRY COSSIGNY
Tél. : (+33) 01 60 62 06 06 • Fax : (+33) 01 60 62 09 09
E-mail: info@sauermann.fr • Http://www.sauermann.fr

SAUERMANN UK - DRYCLIM
30 SILVERHILL Road • SHEFFIELD.S11 9JG
Tel. : (+44) 0 114 262 1140 • Fax : (+44) 0 114 262 1556
E-mail: pdelfour@hotmail.com

SAUERMANN U.S.A. & CANADA
1405 Bishop, Suite 100 • Montréal QUEBEC H3G 2E4
Tel. : (+1) 514 284-4948 • Fax : (+1) 514 284-4940
E-mail: ads@sympatico.ca

SAUERMANN GmbH
Kernerstrasse 18 • D-74223 FLEIN
Fon : (+49) 07131/399990 • Fax : (+49) 07131/399992
E-mail: Sauermann-Flein@t-online.de

SAUERMANN SCANDINAVIA & BALTICS
Parkgade 8 • 6440 AUGUSTENBORG • DENMARK
Tlf. : (+45) 74 47 10 78 • Mobil : (+45) 40 59 10 78
E-mail: peter.remontius@get2net.dk

SAUERMANN ITALIA s.r.l.
Via Umbria 11/17 • 40060 OSTERIA GRANDE (BO)
Tel. : (+39) 051/6958400 • Fax : (+39) 051/6950169
E-mail: info@sauermann.it • Http://www.sauermann.it

SAUERMANN PENÍNSULA IBÉRICA
Avda, del Encinar, 1 • Urb. Fuente del Fresno
28708 SAN SEBASTIAN DE LOS REYES • (Madrid) ESPANA
Tel. : (+34) 91 623 64 42 • Fax : (+34) 91 623 64 34
E-mail: pbusslingerp@nexo.es

sauermann

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