

# PRODUCT RANGE

## CONDENSATE REMOVAL PUMPS

Asia Pacific

USA

Europe

Africa

AIR CONDITIONING

HEATING

REFRIGERATION

 **sauer mann**<sup>®</sup>

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

[www.sauer mann pumps.com](http://www.sauer mann pumps.com)

## 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 unflinchingly 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.

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.



### INSTALLATION KIT

ACC 00100: special installation kit containing:  
1 X self sealing fitting, 1 X ACC 00208,  
1 X ACC 00209, 1 X ACC 00304.



### ANTI-VIBRATION MOUNTING BRACKETS

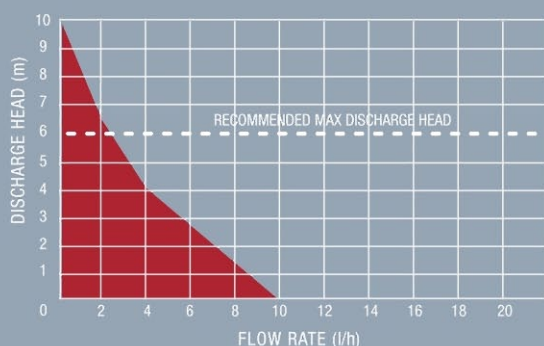
ACC 00304: anti-vibration mounting brackets \*  
\* supplied without the pump.

## SI 2750 / SI 2760 MINI PUMP for air conditioners up to 10 kW



TECHNICAL CHARACTERISTICS	SI 2750	SI 2760
Max flow rate	10 l/h	20 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	≤35 dBA
Safety standards	CE	
RoHS and WEEE directives	complies	
Master pack quantity	25 pieces	

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  
- Detector installation kit: blond rubber Ø 15x35, vent pipe Ø 4x6 – 75 mm, self-adhesive mounting rail.

HEATING

AIR CONDITIONING

REFRIGERATION

GAS CONDENSING BOILERS

COLUMN AIR CONDITIONING UNITS

MULTI-CASSETTES

DUCTED UNITS

REFRIGERATED DISPLAY AND COLD STORE CABINETS

EVAPORATORS

GAS FURNACES

## SI 1800

### MONO BLOCK CENTRIFUGAL PUMP WITH TANK

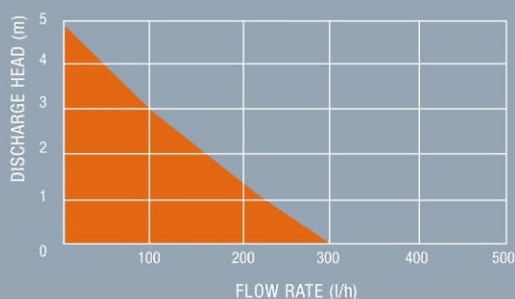
for gas condensing boilers, air conditioning units and refrigerated display cabinets.



#### TECHNICAL CHARACTERISTICS

Max flow rate	300 l/h
Max discharge head (no flowrate)	4.7 m
Max recommended discharge head (flow approx 30–40l/h)	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

Dimensions in mm	Length	Width	Height	Tank
Pump unit	283	127	161	2 l



#### Kit contents :

- Pump
- Integrated non return 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" 1/4, 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

HEATING

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DUCTED UNITS

REFRIGERATED DISPLAY AND COLD STORE CABINETS

EVAPORATORS

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## SI 1820

### MONO BLOCK CENTRIFUGAL PUMP WITH TANK

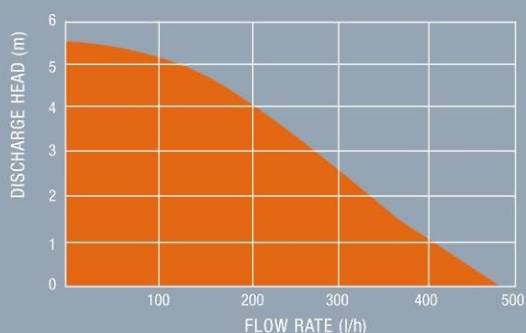
For gas condensing boilers, air conditioning units and refrigerated display cabinets.



#### TECHNICAL CHARACTERISTICS

Max flow rate	500 l/h
Max discharge head (no flowrate)	5.8 m
Max recommended discharge head (flow approx 30–40l/h)	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: 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

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



#### Kit contents:

- Pump
- Integrated check valve
- Installation kit: 2 screws and plugs
- Power cable: 2 m with European plug
- Alarm wires: 1 m, 2 wires (NC contact)

## 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

- 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.



#### CHECK VALVE

**ACC 00801:** Ø 10 mm.

# 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 / SI 2760	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 2750 / SI 2760	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 1820	3 pcs, blister
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 2750 / SI 2760	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. For SI 2750 / SI 2760	Filmed roll
ACC 00204	 Straight and elbow connectors To connect 2 tubes	For Ø6 mm int. (1/4" ID) tube	10 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 2750 / SI 2760	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 00304	 Anti-vibration mounting brackets (supplied without the pump)	For SI 2750 / SI 2760	2 pcs, blister
<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
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

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

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