

CONDENSATE PUMPS

For air conditioning
and refrigeration
technology



more safety
more reliability
more Eckerle



Condensate pumps

With a three-level float control and alarm-switch

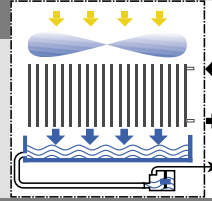
EE 1000

For air conditioners up to 10 kW

Micro-pump with a 3-level float switch sensor

Usage:

This float type pump is mainly used in air conditioners with a little spare space inside, e.g. wall mounted mini split and ceiling units. The small sensor can easily be adopted to the air conditioner's condensate drain hose.



Description:

The EE 1000 system consists of a pump unit and a separate 3-level float switch sensor. Beside the on/off function the system offers a high level, potential free NO / NC alarm switch (230 V, 8 A ohmic load).

The system comes with mounting accessories like pads of double-sided scotch tape to fix the floater and an anti-shock mount for the pump unit.

Technical Data:

Electrical spec.: 230 V, 50/60 Hz, 18 VA
Pump unit (L x W x H): 77 x 35 x 62 mm
Sensor unit (L x W x H): 82 x 39 x 39 mm
Max. flow rate: 10 l/h
Max. delivery height: 10 m
Max. suction height: 2.5 m
Alarm switch: max. 230 V, 8 A ohmic load
 NO / NC (normally open/normally closed)

EE 1000



General installation and mounting advice

1. When installing a condensate removal system make sure to have an easy access to the pump and sensor for easy maintenance.
2. The sensor can be mounted directly on metal surfaces without any detrimental effects on the magnetic float.
3. The sensor will work even if it's up to 10 degrees out of alignment.

Maintenance

1. Annually before the start of the season remove the top cover of the sensor and clean inside with a mild soap solution.
2. Re-assemble making sure the magnetic ring of the float is pointing downwards.
3. Check the tube for blockages.
4. Test the pump system by running the air conditioner.



EE 1200

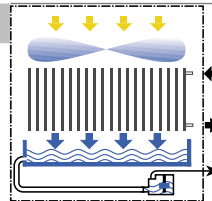
For air conditioners up to 10 kW

Condensate pump with duct with a 3-level float switch sensor

Usage:

The EE 1200 has particularly been designed for direct installation into the Eckerle-duct-system. Equal to the other volumetric systems of Eckerle the EE 1200 comes with a high quality Swiss-made piston pump inside.

These pumps were specially developed to deliver condensate water. They offer wide opening duck-bill-valves (non-sensitive against water borne contaminants) and furthermore they run remarkably quiet. These details arrange a pump system with a long-life-cycle. They provide a higher-than-average performance even at great delivery heights.



Description:

The EE 1200 comes in a set with a duct, an elbow, a ceiling seal and installation accessories. On request a special moulded foam part is available for different duct brands. This provides an easy mounting into pre-existing ducts.

Technical Data:

Electrical spec.: 230 V / 50 Hz, 18 VA
Pump unit (L x W x H): 78 x 42 x 46 mm
Max. delivery height: 6 m
Max. flow rate: 8 l/h
Max. suction height: 2.5 m
Sensor unit (L x W x H): 82 x 39 x 39 mm
Alarm switch: max. 230 V, 8 A (ohmic load)
 NO / NC (normally open / normally closed)

EE 1200



Condensate pumps

With a float control and alarm-switch

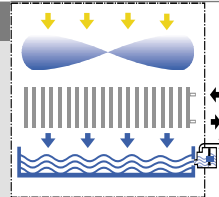
EE 1750^M

For air conditioners up to 30 kW

Pump
with a 3-level float switch sensor

Usage:

This float type pump is used in conjunction with air conditioners which have condensate collection tanks with an outlet on the drainage pipework: cassette, ceiling unit, split, fan convectors.



EE 1750^M



Description:

The EE 1750^M comprises a pump unit and a 3-level float switch sensor. The float switch controls On, Off and Alarm conditions.

The float switch unit is fixed to the tank outlet or to a pipe end, it is connected to the pump unit by a 1.5 m/5 ft long pipe and cable (an optional extension is available).

Technical Data:

Electrical spec.: 230 V, 50/60 Hz, 40 VA
Pump unit (L x W x H): 100 x 81.5 x 67 mm
Sensor unit (L x W x H): 82 x 39 x 39 mm
Max. flow rate: 32 l/h
Max. delivery height: 15 m
Max. suction height: 3 m
Alarm switch: max. 230 V, 8 A (ohmic load)
NO / NC (normally open / normally closed)

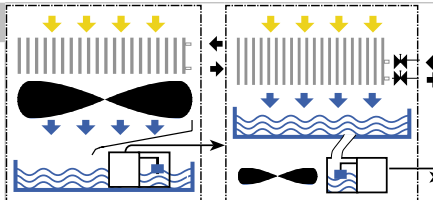
EE 1650^M

For air conditioners up to 30 kW

Pump
with integrated float switches and tank

Usage:

This compact unit with integrated float switch is designed to be used inside devices equipped only with a condensate collecting tank such as fan convectors, cabinet models, built-in units, water collection consoles ... Steps must be taken to ensure that no fluid runs over the pump!



EE 1650^M



Description:

The delivery system is equipped with 2 separately operating float switches. The working float switch turns the pump on and off depending on the filling level (with run-on time).

The function of the alarm float switch is to isolate the break contact element.

Technical Data:

Electrical spec.: 230 V, 50/60 Hz, 40 VA
Pump unit (L x W x H): 244 x 174 x 144 mm
Alarm switch: 230 V, 8 A (ohmic load) NO / NC (normally open / normally closed)
Max. flow rate: 32 l/h
Max. delivery height: 15 m
Tank capacity: 2 l
Start: 40 ± 2 mm*
Stop: 30 ± 2 mm*
Alarm: max. 53 mm*
*Dimensions specified from the mounting surface

EE 150 EE 400^M EE 400^M Premium

For air conditioners up to 50 kW

Condensate pumps
with tank

Usage:

The Eckerle condensate pumps EE 150, EE 400^M and EE 400^M Premium are designed to remove condensate water out of air conditioners, evaporator coils and high efficient gas furnaces automatically. The pump housing is made from a tough fiber-reinforced nylon plastic body so it will resist corrosion and impact.

Technical Data EE 150:

Pump unit (L x W x H): 165 x 65 x 85 mm
Electrical spec.: 230 V, 50/60 Hz, 48 VA
Max. flow rate: 120 l/h
Max. delivery height: 1,5 m
Tank capacity: max. 0,2 l
Pressure hose dia-Ø: 8 x 2 mm

EE 150



Description:

- Extremely quiet running and vibration-free
- Pump encapsulated and liquid cooled
- Protection class IP 55
- Max. medium temperature: 70° C
- Most compact design
- Pump housing made of glass-reinforced plastic material, including wall mounting accessory
- Separate alarm contact (only EE 400^M / EE 400^M Premium)
- Integrated check valve
- **EE 400^M Premium:** Version with additional alarm detector (special plug with integrated LED and buzzer), incl. 6 m PVC-tube

Technical Data EE 400^M / EE 400^M P:

Electrical spec.: 230 V, 50/60 Hz, 65 VA
Pump unit (L x W x H): 185 x 85 x 100 mm
Alarm switch: 230 V, 8 A ohmic load
NO / NC (normally open / normally closed)
Max. flow rate: 350 l/h
Max. delivery height: 4 m
Tank capacity: max. 0,5 l
Pressure hose dia-Ø: 8 x 2 mm
Pump unit can be used in an external pan as well
Pan height: min. 62 mm
max. 70 mm

EE 400^M



EE 400^M Premium: Safety device visual and acoustical alarm

info@eckerle.com

Condensate pumps

EE 900 EE 900 Basic

For air conditioners
up to 10 kW

Peristaltic pump

Usage:

The peristaltic pumps EE 900 / EE 900 Basic are designed to deliver condensate in noise-sensitive surroundings, e.g. in hotel and sleeping rooms. Referring to the resistivity against dry running and water borne contaminants the system is suitable for rooms with a high contamination of particles (e.g. hairdresser's shops). Independent of the delivery height the pump offers a constant flow rate of condensate water. The pump comes with an all-purpose mounting device, **a check valve and a replacement tube.**

Description:

EE 900:

The EE 900 provides a thermal detection. The pump switches on when temperature difference between the two sensors exceeds 5° Celsius. If the detected temperature difference drops the pump offers a 3 minute over-run-time in order to evacuate the remaining condensate. Then the pump stops.

EE 900 Basic:

The EE 900 Basic peristaltic pump is de-signed to run constantly while the air conditioning system is cooling. The pump must be connected electrically to the main power supply (230 V / 50 Hz) and the separate control link to the air-conditioning units cooling signal.

If the air conditioner stops running the pump has a 3 minute over-run-time in order to evacuate the remaining condensate. Then the pump stops.

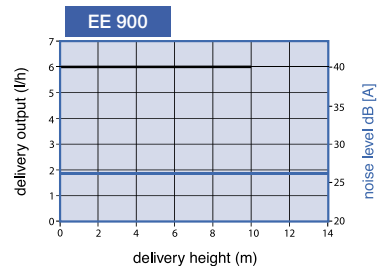
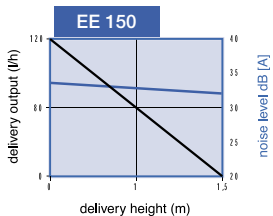
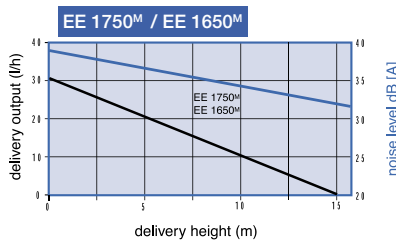
Technical Data:

Electrical spec.: 230 V, 50/60 Hz, 10 VA
Pump unit (L x W x H): 90 x 115 x 137 mm
Max. flow rate: 6 l/h
Max. delivery height: 10 m
Max. suction height: 2 m

EE 900 Basic



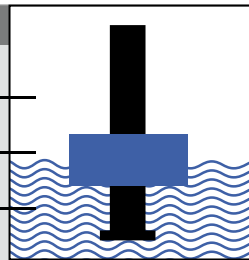
Performance Diagrams:



Level control appliance:

The float switch has 3 operating points

- Alarm: max. 23 mm
- Start: 18 ± 2 mm
- Stop: 14 ± 2 mm



The measure specification refers to the lower bottom of the sensor. The working float switch turns the pump on and off depending on the filling level (with run-on time). The function of the alarm float switch is to isolate the break contact element. (Alarmswitch max. 230 V, 8 A ohmic load).



Accessories:

- extension cable 3 m (EE 1000, EE 1750^M)
- extension cable 5 m (EE 1000, EE 1750^M)
- extension cable 10 m (EE 1000, EE 1750^M)
- PVC tube (for EE 1000, EE 1750^M u. EE 1650^M) 100 m roll, inside ø 6 mm x 1.5 mm
- PVC tube (for EE 400^M u. EE 150) 100 m roll, inside ø 8 mm x 2 mm
- Inline filter (EE 1000, EE 1750^M)
- Check valve (EE 1000, EE 1750^M, EE 1650^M)
- Santoprene®-replacement tube for EE 900 incl. tube connectors

- order-no. 22003
- order-no. 22005
- order-no. 22010
- order-no. 22150
- order-no. 0505050024
- order-no. 21757
- order-no. 22011
- order-no. 9704010008