

1. Description and range of application

Fully automatic condensate removal pump designed to remove condensate air conditioning units and chillers where drainage by gravity is not possible.

2. Technical Data

- Motor power output P2 = 11 Watt
- Voltage 230 V – 50 Hz
- Operational voltage: 230 V – 50 Hz
- Max. flow: 11 l/h
- Max. head: 22 m WS
- Max. liquid temperature: 50° C
- ¼" connection with 6 mm hose connector
- Weight overall system: 2.3kg
- Cable with plug connector, length 2.0 m.
- Protection class IP20

3. Scope of delivery

| Pos. | Descrizione | note |
|------|-------------------------|-------|
| 1 | PUMP | |
| 2 | DUMPING BRACKET | |
| 3 | VASCA | |
| 4 | INLET PIPE | 50cm |
| 5 | VENT | 10cm |
| 6 | PUMP-TANK PIPE | 30cm |
| 7 | DELIVERY PIPE | 110cm |
| 8 | QUICK PLUG SENSOR CABLE | |
| 9 | MALE CONNECTOR | |
| 10 | FEMALE CONNECTOR | |
| 11 | POWER CABLE | 200cm |
| 12 | SIGNAL CABLE | 200cm |
| 13 | ELBOW | |
| 14 | ELBOW CAP | |
| 15 | DUCT 80X60 | 80cm |
| 16 | DUCT CAP | 80cm |
| 17 | WALL DUCT | |
| | INSTRUCTIONS | |
| | CABLE TIE | |

4.2 Internal connection and signalling cable

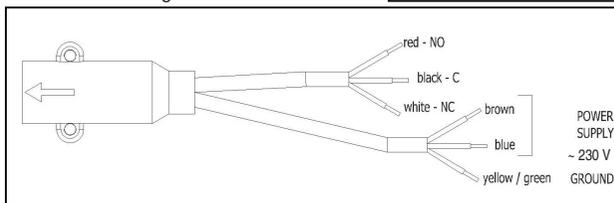
Besides being connected electrically, the water collecting reservoir and the pump must be connected with a hose (internal intake tube) as well. The system is therefore equipped with a special electrical connection. This cable will ensure proper power supply as well as signalling. The signalling cable (dry contact) can be used to either conduct a safety shutdown of the air conditioning unit or to activate an external low voltage alarm system (max 5A).



Please refer to the instruction manual of the air conditioning unit for the connection as a safety shutdown or to the manual of the alarm system for the connection as an alarm.



- Contact configuration -



4.3 Pressure connection and venting

PVC tubing with an inner diameter of 6 mm is to be tightly connected to the pressure port and channel the tube to an appropriate drain avoiding kinking. In order to prevent siphoning the end of the discharge tube must be higher (+0.5m) than the water level in the tray of the air conditioning unit.



WARNING: Consequence of non-observance may be dry-run or destruction of pump.

Furthermore it must be ensured that the water collecting reservoir is vented. The vent tube must also be installed kink-free in the duct and also not be squeezed by the refrigerant pipes.

4.4 Testing

A test-run should be performed after all connections have been made professionally to ensure water tightness and a flawless operation. For this purpose the water collecting reservoir should be carefully fed with clean water until the pump turns on and discharges the water. This process should be repeated 2-3 times.

5. Limitation of use and improper operation:



WARNING: This pump may not be used for waste water, in particular

- liquids containing solids
 - liquids with abrasive content
 - as well as flammable and explosive liquids.
- Pump system (pump unit and tank) is only for indoor installation with absolutely dry ambience.
Protection against environmental humidity is required !

6. Maintenance



WARNING: Ensure that the NTH14 - E800 is disconnected from the mains before performing any service or maintenance !

The proper function of the pump, its wear parts and its product life are mainly dependant on regular servicing and maintenance of this unit. Particulates settle on the bottom of the tank in

the course of time. This sediment can lead to pump clogging and block the float switch. A regular visual inspection of the transparent water collecting reservoir should therefore be conducted. This can be very easily be done by removing the cover of the assembly bracket. It is therefore recommended to service the pump, tubing, inlets and pressure port biannually and, if necessary, clean the respective areas and parts. .
After that the unit should be rinsed 2-3 times by using clean water.

WARNING:

All points pertaining to installation and start up (see point 4) must be observed when pump is returned to service.



WARNING:

Unit must be disconnected from the power source before servicing or performing pump maintenance!

7. Warranty

The warranty period for this product is 24 months from date of purchase. Proof of purchase must be provided.

Any material or manufacturing defect within this timeframe will be rectified or repaired free of cost. Any damage resulting from misuse, in particular non-observance of the instruction manual and excessive wear and tear is excluded from warranty. Any unauthorized modifications or opening of the product will void the warranty.

8. Troubleshooting

| Problem | Probable cause | Remedy |
|--------------------------------------|--|---|
| Low flow rate | Discharge tube clogged or kinked | Clean / remove kink |
| | Inlet tube clogged or kinked | Clean / remove kink |
| | Head to large | Reduce head |
| Motor is idle or does not start | No voltage present | Check power supply |
| | Plug not plugged in | Connect plug and connector |
| | Pump blocked by mud or solids | Clean tank and pump body |
| | Defective motor | Replacement by qualified personnel |
| | Defective electronics | Replacement by qualified personnel |
| Motor running, pump does not deliver | Outlet tubing clogged or kinked | Clean / remove kink |
| | Leakage on the intake side, pumps pump draws air | Check suction hose, eliminate leakage |
| Pump does not operate automatically | Float switch contaminated | Clean |
| Pump makes noise | Pump running dry, "siphoning" | Remedy siphoning, ensure that end of discharge tube is higher than the water level in the tray of the air conditioning unit |

9. Declaration of conformity

This declaration is valid for the following product:
Device type: Condensate-Pump NTH14 - E800



We hereby declare that the product is conformed to the Low-Voltage Directive (2006/95/EG).
The following norms have been taken as a reference with respect to the electromagnetic compatibility: 2004/108/EG

This declaration is made by:

Steeppumps srl
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Lari, 22/4/2014

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