Presentation

EMS 10-E/O
DIN

Electro-magnetic pump

The best seller! This low cost plastic pump is mainly used, but not limited, in water condensation removal system; its plastic body avoids any problem of sticking even after long time stops.

Exceptional self-priming performances allow mounting up to three meters higher than the level of liquid. Output performances are not least, and let the pump works in many configuration.

Compatible with a variety of liquids.

Small, light and low power consumption, the pump to adopt in your top quality devices.

Application fields:

- Air conditioning: water condensation removal
- Kitchen appliances
- Medical and laboratory devices
- Cleaning equipment

Dimensions in millimeters (mm)

Hydraulic connection for soft tubing diameter from 5.5 to 7.5 (mm).
Performances tested with water:

Self-priming:
Maximum rated vertical lift: 2.5 [m]
Wet pumps have improved self-priming performance
! Maximum dry running time: 15 [min]!

Heating & flow:
The coil (motor) is warming up when the pump is running. The temperature's rise increase the resistance of the coil and so decrease the performances. The surface temperature stabilized about 80°C when ambient & liquid temperature are about 25 [°C]

Technical data
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Materials in contact with the liquid:
Body & connectors: POM plastic
Piston: stainless steel 431
Springs: stainless steel 316
Duckbills valves: EPDM
Special materials on request

Nominal rated data:

Rated voltage & frequency:
230/50, 110/60, 110/50, 24/50-60, 12/50-60 [VAC/Hz] diode rectified, specialty on request

Power consumption: maximum 18 [W]

Electrical connection: 3x 6.35/0.8 AMP style terminals, ISO/DIN 43650 11 [mm] form B

Coil insulation: class F (155°C), class H (180°C) on request (hot spot maximum allowed)

Insulation: Class I, require grounding (included: third terminal)

Operating cycle rate: continuous 100%ED @ 30°C

Dimension: 23/43.5/75 [mm]   Weight: 78 [g]

Operating temperature range: liquid & ambient: –10°C to 50°C. Protect against freezing.

Noise level: dry run = ~45 [dB(A)], open flow = ~22 [dB(A)], max. pressure = ~20 [dB(A)]

Approvals: CE conform to 73/23/CEE, CB & S+ Cert. Nr. CH-1403, UL (US&CA) on request

EMC: conform to CE 89/336/CEE

Filter to mount before the pump: Mesh 100 [µm]   Viscosity range: 1...600 [mm²/s]

Fuse and diode are necessary

Please, refer to instruction manual for more installation details

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