

Product Name :
Parabolic Trough Collector With Solar Tracking

Product Code :
NEDM995



Description :

Parabolic Trough Collector With Solar Tracking

Technical Specification :

Parabolic Trough Collector With Solar Tracking
Thermal solar collector with parabolic trough mirror and selectively absorbing absorber tube
Two-axis sun tracking with gear motors
Plant control with plc, operation via touch screen
Integrated router for operation and control via an end device and for screen mirroring: mirroring of the user interface on up to 5 end devices
Integrated sun sensor (direct normal radiance)
Integrated magnetometer and accelerometer for astronomical alignment
Connection of the absorber pipe by solar circuit with pump, plate heat exchanger, expansion vessel and safety valve
Hot water circuit with buffer tank, pump and connectable air heat exchanger
Sensors for temperature, illuminance and flow
Pivoted suspension enables vertical alignment of the collector
Operation with solar radiation or with artificial light source
Data acquisition via PLC on internal memory, access to stored measured values via WLAN with integrated router/ LAN connection to customer's own network

Technical data:
PLC: Included
Collector

Parabolic mirror
Trough length: 1,4m
Aperture width: 1,1m
Mirror surface: 1,5m²
Focal length: 0,3m
Absorber
Selectively coated absorber tubes with u-tube line for heat transfer fluid
Double-walled glass shell to reduce heat loss
Solar circuit station
Solar pump: adjustable
Hot water circuit
Plate heat exchanger: 3kw, 10 plates
Buffer tank: 70L
Measuring ranges
Flow rate: 20â€”320L/h
Temperature: 4x 0â€”160Â°C
Pressure: 0â€”6bar
230V, 50Hz, 1 phase

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