

BACKER TERMINAL BOX K7E WITH ELECTRONIC CONTROL

BACKER

Features

Electronic terminal box with microprocessor controlled temperature control. Easy operation with push buttons in the front.

LED display for indication of current status, setpoint and setup.

K7E fits Backer immersion heaters with flange sizes between 1^{1/4} - 2^{1/2} inch.

K7E is designed for standalone operation or with external control system.

The product is intended for heating water / liquids.

K7E is certified according to: 60335-2-73 (Special requirements on fixed immersion heaters, unpressurized system)

For applications that do not fall under the above mentioned standard supplementary risk assessment and possible testing is required.

Technical specification

Item number:	1151409703
Material	Polycarbonate (PC)
Dimensions	95x92x110 mm
IP rating	IP54
Power range	From 1000W to 9700W, 3x400V (14A), 1x230V (14A)
Supply voltage:	230 VAC +N or 3x400 VAC +N
Temperature range	5°C-75°C Hysteresis adjustable between 1°C-10°C
Safety functions	Temperature overheat protection STB106°C melting fuses Temperature limiter electronic/software 82°C (75°C is maximum user setpoint for media) Protection for dryout if temperature rises >1°C/3s Indication broken heating element sense after 60 minutes
Measurement range	-45°C-195°C (NTC sensor)
Resolution	0,1°C
Data reading	7 segment LED display
Indication	LED indicates status of heating operation and alarms LED display indicates temperature and settings
Ambient temperature	5°C - 50°C
Temperature sensor	NTC 10 kΩ
External input	Terminal for external control signal (on/off)

Product advantages

- Temperature control with high accuracy
- Clear user friendly status display
- Several operation options
- Compact dimensions
- Can be operated from external control system



Mounted on the electric immersion heater

Options

K7E is available for applications which requires higher user setpoint range (max 160°C)
Spare part: overheat protection harness with melting fuses 106°C, part number: 1151550202