

ELECTRA Comfort

Gas and electric heating...

Wall-mounted electric boiler

AOKA TOP

General description

Our company MORA-TOP, an inland manufacturer of heating equipment, introduces hereby a wall-mounted electric boiler, type ELECTRA Comfort. Its design utilises sophisticated technological components. Thanks to unique characteristics of this new boiler you can heat economically and always with high comfort. This energy saver is designed particularly for residential heating and common spaces with loss of heat up to 22,5 kW.

Performance classes



Features

- Comfort setting and control through multifunctional LCD
- Relay module separated from control unit
 Small size
- Silent running
- Reaction dynamics of heating rods (PI regulation) energy savings
- Rotation of heating rods prolonged service life
- Continuous power regulation as from 1,5 kW
 - switching of heating rods-gradually energy savings
- Support of equitherm regulation, incl. optional starting point
- Possible connection of DHW accumulator additionally
- Function of preferential DHW heating-Remote control of power input overload protection of main circuit breaker
- Remote control through GSM module

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Advantages

- Comfort setting and control through multifunctional LCD
- Small size
- Reaction dynamics of heating rods (PI regulation) energy savings prevents overheating and exceeding of pre-set
 - . water temperature remains fully functional even without equitherm regulation
- Rotation of heating rods prolonged service life
- Continuous power regulation as from 1,5 kW
- switching of heating rods gradually energy savings
- Boiler switching system through centralized ripple control, incl. power setting Boiler operation according to referential room
- connection through room sensor
- Relay module separated from control unit costs saving at replacement
- All protections and unblocking functions protection of pump and three-way valve (adjustable run-out period)
 - frost protection
 - tempering functions
- Soft cold start for heating system stability
- Support of equitherm regulation, incl. optional starting point
 - boiler always warmed up by outlet water in dependence on outdoor temperature (no overheating, running cost savings)
- Optional hysteresis of heating water Possible connection of DHW accumulator additionally
- Function of preferential DHW heating
- Remote control of power input two-stage overload protection of main circuit breaker with possibility of further utilisation in photovoltaic systems
- Silent running
- Remote control through GSM module
- 5 heating systems
 for water heating only

 - with room thermostat onlywith room thermostat and equitherm regulation
 - with room thermostat and Equilibrium regulation
 with room thermostat, equitherm regulation and DHW preparation
- Possible cascade arrangement

Control board with display

All information and data are putted on multifunctional LCD communicating in Czech.

- Current heating water temperature

- Current boiler power in kW Current temperature in referential room (only in case of room sensor installation) Current DHW temperature in accumulator (only in case of DHW module and sensor installation)
- Pump operation Current boiler mode (DHW or home heating)
- Current GSM mode (only in case of GSM module installation)
 Current boiler mode:

 ZI winter DHW and home heating

- LE summer DHW heating only



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Technical parameters

| ELECTRA COMFORT | Unit | 05 | 06 | 08 | 09 | 12 | 15 | 18 | 24 |
|---|------|-------------------------------------|-----------|-----------|------|------|------|------|------|
| Heat rate | KW | 4,5 | 6 | 7,5 | 9 | 12 | 15 | 18 | 22,5 |
| Output modulation | | 1,5 | 2 | 2,5 | 1,5 | 2 | 2,5 | 2 | 2,5 |
| Rated current | Α | 3x7,5/1x21 | 3x10/1x28 | 3x12/1x36 | 3x14 | 3x19 | 3x24 | 3x28 | 3x36 |
| Degree of protection | IP | 40 | | | | | | | |
| Electric network | | 3x230V+N+PE/50 Hz | | | | | | | |
| Electric network | | 1x230V+N+PE/50 Hz | | | | | | | |
| Max. rated current | А | 3x7,5/1x21 | 3x10/1x28 | 3x12/1x36 | 3x14 | 3x19 | 3x24 | 3x28 | 3x36 |
| Main circuit breaker | А | 3x10/1x25 | 3x16/1x32 | 3x16/1x40 | 3x16 | 3x20 | 3x25 | 3x32 | 3x40 |
| Rated current of control fuse | А | 0,315 | | | | | | | |
| Relay service life | | 250 000 cykles, 16 A, 250 V | | | | | | | |
| Heating water inlet/outlet | | G 3/4 [°] male threading | | | | | | | |
| Min. operating overpressure in heating system | bar | 0,4 | | | | | | | |
| Max. operating overpressure in heating system | bar | 3 | | | | | | | |
| Max. temperature of heating water | °C | 80 | | | | | | | |
| Usable boiler capacity | I | 10,6 | | | | | | | |
| Efficiency at rated power | % | 99 | | | | | | | |
| Expansion tank capacity | I | 8 | | | | | | | |
| Number of boilers in cascade arrangement | | According to cascade regulator type | | | | | | | |
| Boiler weight | kg | 36,5 | 36,5 | 36,5 | 38 | 38 | 38 | 39,5 | 39,5 |
| Dimensions (height/width/depth) | mm | 656/450/345 | | | | | | | |

Dimensions