



Osby Parca offer a wide range of electric boilers with outputs from 36 to 495 kW. The boilers can also be connected in parallel to achieve higher total outputs.



# Electric boilers

Output 36–50 kW

The Professional's Choice Since 1935

## Small electric boiler with micro processor control system OX2001

Osby Parca's electric boilers are well known on the market and represents high quality and safe operation. Common areas of use for this type of boilers is heating of hot water for all kinds of facilities, including industrial process water. The electric boilers are also used in connection with other hot water sources, such as solid fuel boilers and heat pumps.

All electrical boilers are delivered with a micro processor control system. This piece of equipment offers great possibilities to optimise the boiler operation, which enables safer and more economical operation.

The boilers are built around a pressure vessel with electric elements assembled from the top and connections for flow and return water easily accessible. The electric equipment is assembled in the front.

### Benefits With Osby Parca Electric Boilers (36-50 kW):

- When current drops which lasts longer than three minutes occur, the re-connection of the boiler load is delayed with 60 minutes;
- The boiler output is regulated by power steps. The output can easily be optimised by adjusting the number of power steps used;
- The main fuse of the facility can be protected by installing current transformer and current sensors;
- The boiler water temperature is regulated with the setpoint;
- Equipped with over heating protection equipment;
- Several boiler can be connected for higher total output;
- The boilers are approved for 0-flow.

### OX 2001 – Electronic Control System

The unit is composed of two printed circuit cards assembled on top of each other. All the connections for 230V is placed on the lower card. The upper card contains the electronics for the control and monitoring functions, as well as a display with eighth light emitting diodes (LED) for status indication.

## OX 2001 has the following features/functions:



- External limit that indicates if the external analogue input is limiting or blocking the output;
- One-hour delay after power cut;
- Current limit;
- Supply flow temperature matched to set point value;
- Output regulation;
- Step regulation;
- Six LED diodes that indicates wich output step that is active;
- Seven potentiometers for setting the following parameters: step duration, current limit, current margin, delta T, minimum limit, maximum limit, boiler temp;

## Accessories

| Prod.no.   | Denomination  |
|------------|---|
| 3317-0202  | Outdoor temperature compensator, incl. outdoor sensor |
| 1118404-01 | 3 pc current sensor for current limit, max. 5A        |
| 7641437-01 | Stand for electric boiler 36kW, H=500mm               |

## Connections

| 1. Output               | 2. Input                | 3. Drainage     | 4. El. Conn.         |
|-------------------------|-------------------------|-----------------|----------------------|
| DN32<br>External thread | DN32<br>External thread | R1"<br>External | 1 x Ø48<br>3 x Ø22,5 |

- Four buttons for reading and setting parameters;
- Eight electronic DIP-switches for programming the boiler: supply flow sensor, over-temperature setting (relative or constant), internal or external set point value, external set point value signal (0-10V or 4-20mA), input – external signal for output control (0-10V or 4-20mA), relay function – alarm or operation indication.

## Technical Data

| Model | Output | Power steps |     | Voltage  | Current | Rec. fuse | Connection area | Weight |
|-------|--------|-------------|-----|----------|---------|-----------|-----------------|--------|
|       | kW     | kW          | qty | A        | A       | A         | mm <sup>2</sup> | kg     |
| EL36  | 36     | 5.2         | 7   | 400V 3N~ | 53      | 63        | 25              | 40     |
| EL50  | 50     | 7.5         | 7   | 400V 3N~ | 73      | 80        | 50              | 50     |

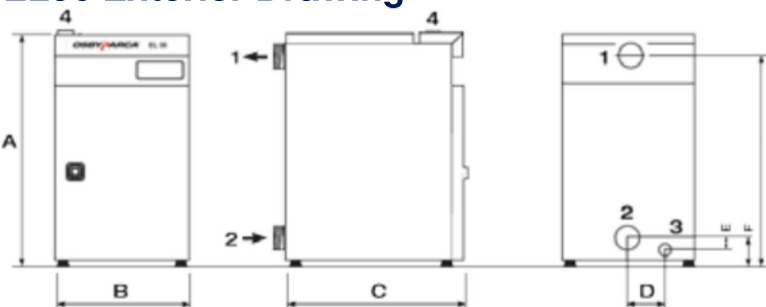
## Design Data

| Model | Output | Work. press. | Design press. | Max op.temp. | Design temp. | Max flow  | Water vol. |
|-------|--------|--------------|---------------|--------------|--------------|-----------|------------|
| EL36  | 36 kW  | 4 bar        | 5,2 bar       | 100°C        | 110°C        | 1,8 l/sec | 24 liter   |
| EL50  | 50 kW  | 4 bar        | 5,2 bar       | 100°C        | 110°C        | 2,4 l/sec | 52 liter   |

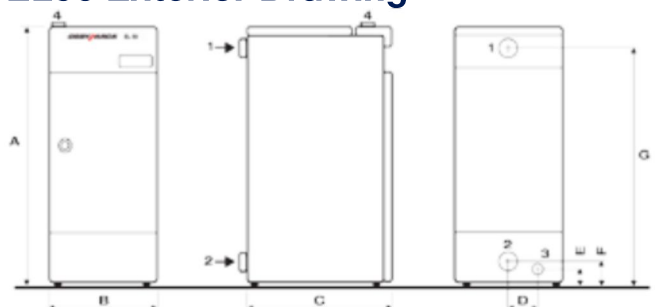
## Dimensions

| Model | Output | A      | B      | C      | D      | E     | F     | G      |
|-------|--------|--------|--------|--------|--------|-------|-------|--------|
| EL36  | 36 kW  | 650 mm | 370 mm | 500 mm | 100 mm | 60 mm | 85 mm | 590 mm |
| EL50  | 50 kW  | 950 mm | 370 mm | 500 mm | 100 mm | 60 mm | 85 mm | 890 mm |

### EL36 Exterior Drawing



### EL50 Exterior Drawing



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