



# KALORINA K 22 E

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| BOILER MODEL                   |                        | K 22 03 E |             |
|--------------------------------|------------------------|-----------|-------------|
| Generator type                 |                        |           | Smoke tubes |
| Carrier Fluid                  |                        |           | Water       |
| Rated Power                    |                        | <i>kW</i> | 30          |
| Nominal Power                  |                        | <i>kW</i> | 27          |
| Reduced Power                  |                        | <i>kW</i> | 8           |
| Efficiency                     | <i>min</i>             | %         | 89          |
|                                | <i>max</i>             | %         | 92          |
| Boiler class according to norm | <i>EN 303-5 : 1999</i> |           | 3           |

## CONSTRUCTION DATA <sup>(1)</sup>

|   |               |               |     |      |
|---|---------------|---------------|-----|------|
| Dimensions with standard hopper                     | <i>Width</i>  | <i>mm</i>     | (A) | 1350 |
|   | <i>Depth</i>  | <i>mm</i>     | (B) | 980  |
|   | <i>Height</i> | <i>mm</i>     | (C) | 1276 |
| Dimensions for the opening of the door for cleaning |               | <i>mm</i>     | (L) | 460  |
| Loading Door dimensions                             | <i>Width</i>  | <i>mm</i>     | (H) | 370  |
|   | <i>Height</i> | <i>mm</i>     | (I) | 220  |
| Standard hopper volume                              |               | <i>litres</i> |     | 190  |
| Weight  |               | <i>Kg</i>     |     | 404  |
| Chimney diameter                                    |               | <i>Ø mm</i>   | (R) | 200  |
| Ash tray Volume                                     |               | <i>litres</i> |     | /    |

## HYDRAULIC DATA

|                                     |                       |               |     |                  |
|-------------------------------------|-----------------------|---------------|-----|------------------|
| Max working pressure                |                       | <i>Bar</i>    |     | 3                |
| Max working temperature             |                       | <i>°C</i>     |     | 90               |
| Boiler water content                |                       | <i>litres</i> |     | 116              |
| Sleeves UNI/DIN EN 10241- ST 37     | <i>Delivery</i>       | <i>Ø mm</i>   | (O) | DN 50 V (2")     |
|                                     | <i>Return</i>         | <i>Ø mm</i>   | (P) | DN 40 V (2"1/ 2) |
|                                     | <i>Expansion tank</i> | <i>Ø mm</i>   | (Q) | DN 25 V (1")     |
|                                     | <i>Heat sink</i>      | <i>Ø mm</i>   | (K) | DN 14            |
| Loading drop in the water side 20 k |                       | <i>mbar</i>   |     | 4                |

## OPERATING DATA

|                          |  |           |  |                       |
|--------------------------|--|-----------|--|-----------------------|
| Draught Pressure         |  | <i>Pa</i> |  | 20±(30%)              |
| Smoke temperature        |  | <i>°C</i> |  | 180±(20%)             |
| Fuel flow setting        |  |           |  | Electronic modulating |
| Ventilation flow setting |  |           |  | Electronic modulating |

## FUELS

|                   |          |  |  |
|-------------------|----------|--|--|
| Recommended class |          |  | WOOD PELLETT (EN 14961-2)  |
| Fuel with W < 15% |          |  | Marc of olives, minced shells and cereal waste (EN 14961-6); Wood (EN 14961-5) |
|                   | Wood max |  | 430 mm   |

## REFERENCE FUEL

### PELLET<sup>(2)</sup>

|                                |  |                    |     |
|--------------------------------|--|--------------------|-----|
| Consumption with nominal power |  | kg/h               | 6,0 |
| Consumption with reduced power |  | kg/h               | 2   |
| Smoke flow with nominal power  |  | Nm <sup>3</sup> /h | 57  |
| Smoke flow with reduced power  |  | Nm <sup>3</sup> /h | 17  |

## ELECTRICAL DATA<sup>(3)</sup>

|                          |  |    |  |
|--------------------------|--|----|--|
| Control panel            |  |    | Modulating digital electronic thermoregulator complete with main switch, manual reset thermostat, light indicators |
| Ignition                 |  |    | Electrical through resistor 250 W, 230 V, 1A   |
| Installed electric power |  | W  | 534  |
| Average power input      |  | W  | 142  |
| Rated Voltage            |  | V  | 230  |
| Nominal frequency        |  | Hz | 50   |
| Nominal current          |  | A  | 3,45   |

## STANDARD ACCESSORIES

|                                    |  |  |                            |
|------------------------------------|--|--|----------------------------|
| Combustion chamber cleaning system |  |  | Through ash tray on wheels |
| Heat exchanger cleaning system     |  |  | Trough compressed air jets |

## ARRANGEMENTS

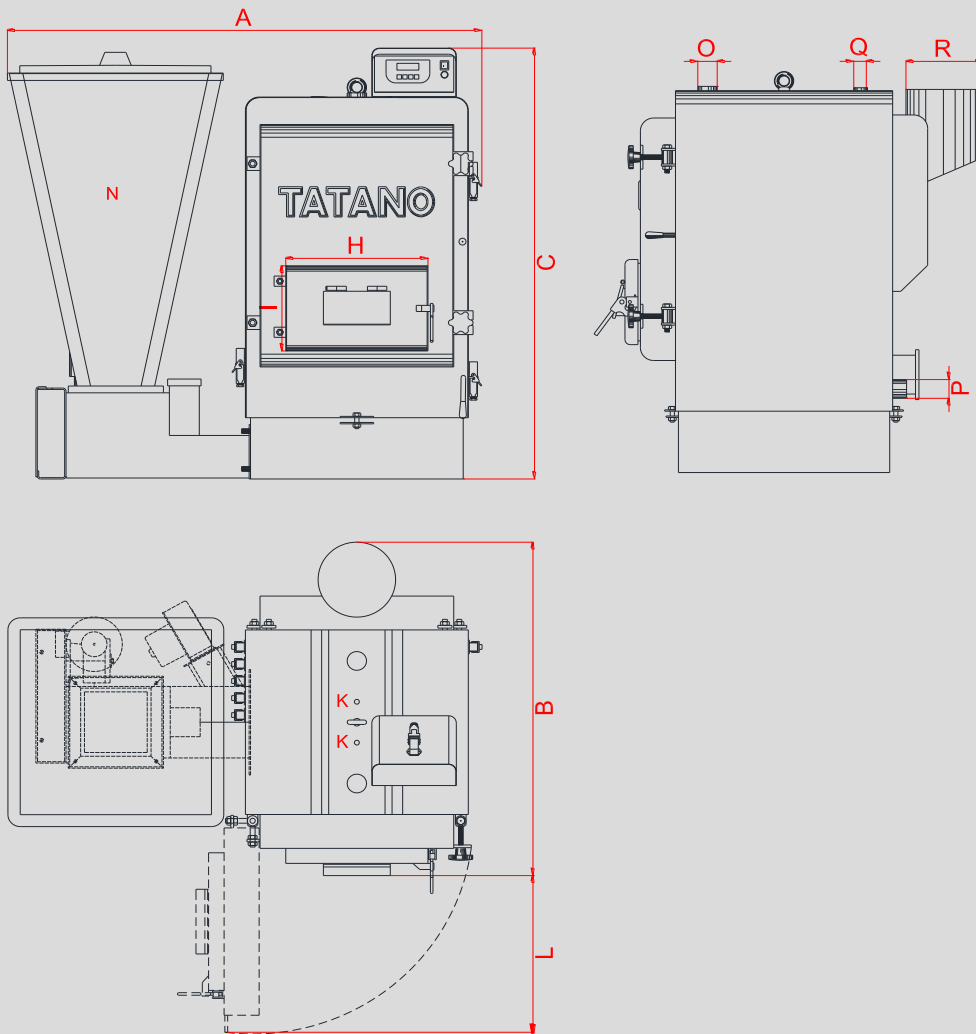
|                            |  |  |                                       |
|----------------------------|--|--|---------------------------------------|
| Burner connection          |  |  | Gas and/or fluid fuels                |
| Remote assistance          |  |  | Output connection                     |
| Room thermostat            |  |  | Output connection                     |
| Water Pressure switch      |  |  | Output connection                     |
| Antifire valve application |  |  | Through threaded sleeves DN 20 (3/4") |

## OPTIONAL

|                                  |  |  |                                |
|----------------------------------|--|--|--------------------------------|
| Remote assistance\Remote control |  |  | Hopper position<br>Wifi module |
| SECURITY SYSTEM                  |  |  | Antifire valve                 |

## SECURITY SYSTEM

|   |  |  |                                       |
|---|--|--|---------------------------------------|
|   |  |  | Anti-freeze programming               |
| <b>Signaling, control and boiler stop</b> |  |  | Through boiler probe and smoke probe  |
|   |  |  | Manual resetting thermostat           |
|   |  |  | Boiler block for open hatch           |
| <b>Reporting of operating errors</b>      |  |  | Fuel level sensor                     |
|   |  |  | Through visual and/or acoustic alarms |



(1) The dimensions may vary depending on the position of the hopper(right-left-rear) or in addition of optional accessories or for constructive choices.

(2) The data concerning consumption may vary according to the characteristics of the fuel used, or for the operating conditions.

(3) Data may vary according to the electrical components installed (motors, fans, etc.). The actual data will be shown on the plate attached to the boiler.

The company reserves the right to change dimensions and features without prior notice, declines all responsibility for errors in transcription or printing.