



Technical parameters for gaseous fuel local space heaters

|                                                 |  |  |                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------|--|--|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Manufacturer                                    |  |  | Barbas BV, Hallenstraat 17, 5531 AB Bladel, The Netherlands        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Product name                                    |  |  | Barbas                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Model identifier                                |  |  | Gas Fire Front 90-60 PF 2                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equivalent models                               |  |  | N/A                                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test report nr.                                 |  |  | 200601986 by KIWA Nederland BV                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Harmonised European standards                   |  |  | EN 613:2021                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Indirect heating functionality                  |  |  | no                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fuel type                                       |  |  | gaseous                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimum permissible total flue duct length      |  |  | 1,5 meter vertical - 90° bend - 0,6 meter horizontal wall terminal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Energy Efficiency Index (EEI) - [(EU)2015/1186] |  |  | 90                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Fuel                       | Fuel type | Nitrogen oxides (NO <sub>x</sub> ) emission | Heat output         |       |      |                     |       |      | Efficiency (NCV)                         |       |      |                                                       |       |      |                                          |       |      |
|----------------------------|-----------|---------------------------------------------|---------------------|-------|------|---------------------|-------|------|------------------------------------------|-------|------|-------------------------------------------------------|-------|------|------------------------------------------|-------|------|
|                            |           |                                             | Nominal heat output |       |      | Minimum heat output |       |      | Useful efficiency at nominal heat output |       |      | Useful efficiency at minimum heat output (indicative) |       |      | Seasonal space heating energy efficiency |       |      |
|                            |           | [mg/kWh <sub>input</sub> ] (GCV)            | Symbol              | Value | Unit | Symbol              | Value | Unit | Symbol                                   | Value | Unit | Symbol                                                | Value | Unit | Symbol                                   | Value | Unit |
| High calorific natural gas | G20       | 120                                         | P <sub>nom</sub>    | 8,7   | kW   | P <sub>min</sub>    | 3,5   | kW   | η <sub>th, nom</sub>                     | 77,3  | %    | η <sub>th, min</sub>                                  | 67,3  | %    | η <sub>s</sub>                           | 73,5  | %    |
| Low calorific natural gas  | G25       | 120                                         | P <sub>nom</sub>    | 8,4   | kW   | P <sub>min</sub>    | 2,8   | kW   | η <sub>th, nom</sub>                     | 77,8  | %    | η <sub>th, min</sub>                                  | 57,8  | %    | η <sub>s</sub>                           | 73,6  | %    |
| Butane 30/37/50 mbar       | G30       | 120                                         | P <sub>nom</sub>    | 8,7   | kW   | P <sub>min</sub>    | 2,9   | kW   | η <sub>th, nom</sub>                     | 77,3  | %    | η <sub>th, min</sub>                                  | 67,3  | %    | η <sub>s</sub>                           | 73,5  | %    |
| Propane 30/37/50 mbar      | G31       | 120                                         | P <sub>nom</sub>    | 7,5   | kW   | P <sub>min</sub>    | 2,5   | kW   | η <sub>th, nom</sub>                     | 75,8  | %    | η <sub>th, min</sub>                                  | 65,8  | %    | η <sub>s</sub>                           | 72,0  | %    |
| Butane 28-30 mbar          | G30       | 120                                         | P <sub>nom</sub>    | 8,7   | kW   | P <sub>min</sub>    | 2,9   | kW   | η <sub>th, nom</sub>                     | 77,3  | %    | η <sub>th, min</sub>                                  | 67,3  | %    | η <sub>s</sub>                           | 73,5  | %    |
| Propane 37 mbar            | G31       | 120                                         | P <sub>nom</sub>    | 8,4   | kW   | P <sub>min</sub>    | 2,8   | kW   | η <sub>th, nom</sub>                     | 77,8  | %    | η <sub>th, min</sub>                                  | 67,8  | %    | η <sub>s</sub>                           | 73,9  | %    |

|                             |                   |        |      |
|-----------------------------|-------------------|--------|------|
| Auxiliary power consumption |                   |        |      |
|                             | Symbol            | Value  | Unit |
| At nominal heat output      | e <sub>lmax</sub> | 0,075  | kW   |
| At minimum heat output      | e <sub>lmin</sub> | 0,0003 | kW   |

|                                                    |                   |       |      |
|----------------------------------------------------|-------------------|-------|------|
| Power consumption                                  |                   |       |      |
|                                                    | Symbol            | Value | Unit |
| In off-mode                                        | P <sub>0</sub>    | 0     | W    |
| In standby mode                                    | P <sub>sm</sub>   | 0,3   | W    |
| In idle mode                                       | P <sub>idle</sub> | 0     | W    |
| In networked standby mode                          | P <sub>nsm</sub>  | 0,3   | W    |
| Standby mode with display of information or status | No                |       |      |

|                                               |                    |       |      |
|-----------------------------------------------|--------------------|-------|------|
| Permanent pilot flame power requirement       |                    |       |      |
|                                               | Symbol             | Value | Unit |
| Pilot flame power requirement (if applicable) | P <sub>pilot</sub> | N/A   | kW   |

|                                                           |     |
|-----------------------------------------------------------|-----|
| Type of heat output/room temperature control (select one) |     |
| single stage heat output, no room temperature control     | no  |
| two or more manual stages, no room temperature control    | no  |
| mechanic thermostat room temperature control              | no  |
| electronic room temperature control                       | no  |
| electronic room temperature control plus day timer        | no  |
| electronic room temperature control plus week timer       | yes |
| Other control options (multiple sections possible)        |     |
| room temperature control, with presence detection         | no  |
| room temperature control, with open window detection      | no  |
| distance control option                                   | yes |
| adaptive start control                                    | no  |
| working time limitation                                   | no  |
| with black bulb sensor                                    | no  |
| Self-learning functionality                               | yes |
| control accuracy                                          | yes |