

The DUEMILA series, available in both progressive and modulating operations, represents the culmination of our experience in the field of medium-large capacity burners (up to 19.000 kW). Like all the other dual fuels models, this series perfectly combine the mechanical devices and systems typical of gas burners with the ones of light oil burners. In this manner this series can burn the two flues separately.

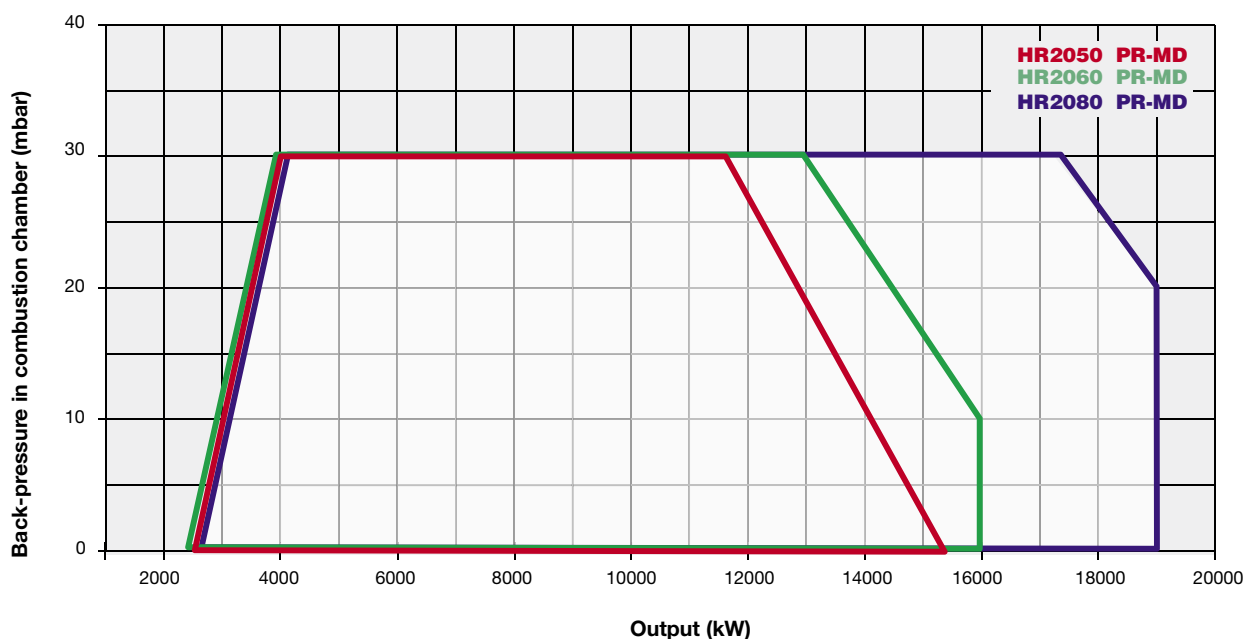
This is possible because these burners are equipped with an independent electric motor for the activation of the oil pump.

As a consequence, during gas firing the oil pump motor does not operate and remains off.

These burners are equipped with a high performance combustion head, designed to achieve a high irradiating flame when they run on natural gas. Instead, when they run on light oil, they are equipped with a by-pass nozzle which, using a pressure regulator, can reach a modulating ratio of 1:3.

The control panel is printed with a mimic diagram fitted with neon lamps to indicate the different stages of burners operation and any abnormalities.

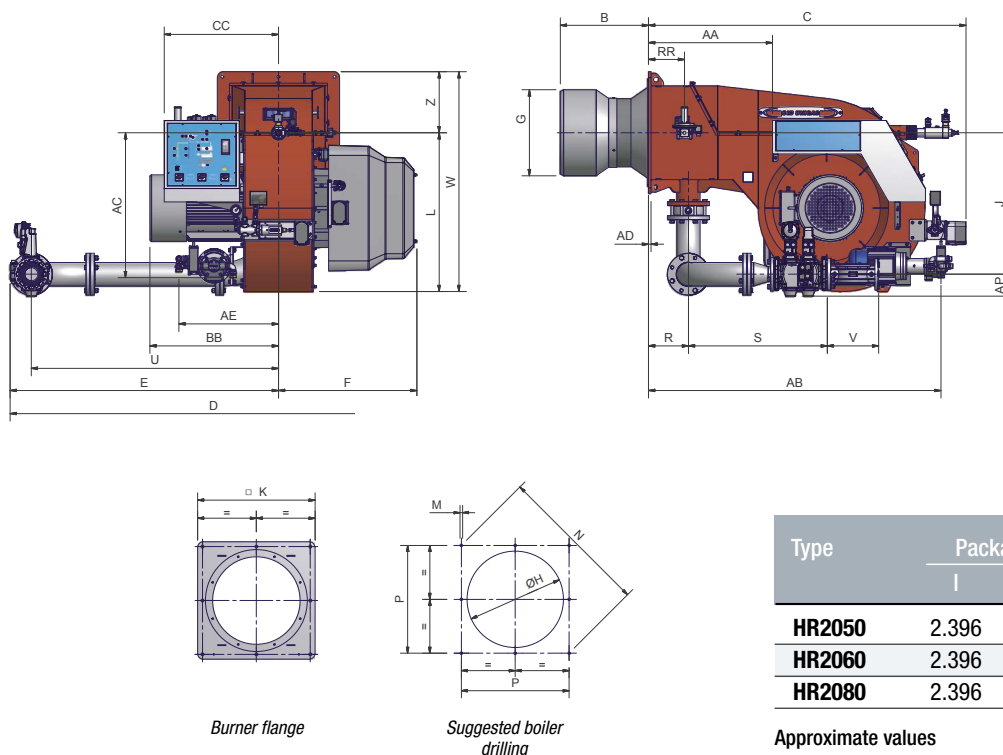
Therefore, the burners are provided with an UV photocell to control the flame during the operation.



## TECHNICAL DETAILS

| Type          | Model                 | Output kW |        | Auxiliary electrical power supply | Motor electrical power supply | Fan motor kW | Pump motor kW | Gas connections      | Noise level dBA |
|---------------|-----------------------|-----------|--------|-----------------------------------|-------------------------------|--------------|---------------|----------------------|-----------------|
|               |                       | min.      | max.   |                                   |                               |              |               |                      |                 |
| <b>HR2050</b> | MG.xx.S.xx.A.1.xxx.xx | 2.500     | 15.200 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 37,0         | 5,5           | DN80 - DN100 - DN125 | 92,5            |
| <b>HR2060</b> | MG.xx.S.xx.A.1.xxx.xx | 2.500     | 16.000 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 45,0         | 5,5           | DN80 - DN100 - DN125 | 91,7            |
| <b>HR2080</b> | MG.xx.S.xx.A.1.xxx.xx | 2.500     | 19.000 | 230 V 1N AC 50 Hz                 | 400 V 3 AC 50 Hz              | 55,0         | 5,5           | DN100 - DN125        | 91,7            |

For the configuration of the gas train, see page 112-113.



| Type          | Packaging dimensions (mm) |       |       |       |
|---------------|---------------------------|-------|-------|-------|
|               | l                         | p     | h     | kg    |
| <b>HR2050</b> | 2.396                     | 1.886 | 1.969 | 1.330 |
| <b>HR2060</b> | 2.396                     | 1.886 | 1.969 | 1.410 |
| <b>HR2080</b> | 2.396                     | 1.886 | 1.969 | 1.510 |

Approximate values

| Type   | Model                 | Overall dimensions (mm) |     |     |    |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |      |     |     |     |     |      |     |      |     |
|--------|-----------------------|-------------------------|-----|-----|----|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|------|-----|
|        |                       | A                       | AA  | AC  | AD | AE  | AP  | B*  | BB  | C    | CC  | D    | E    | F   | G*  | H*  | J   | K   | L   | M   | N    | P   | R   | RR  | S   | U    | V   | W    | Z   |
| HR2050 | MG.xx.S.xx.A.1.80.xx  | 2180                    | 741 | 866 | 15 | 595 | 132 | 520 | 768 | 1898 | 735 | 2431 | 1604 | 827 | 514 | 564 | 845 | 730 | 949 | M16 | 948  | 670 | 239 | 215 | 827 | 1477 | 310 | 1314 | 365 |
| HR2050 | MG.xx.S.xx.A.1.100.xx | 2180                    | 741 | 866 | 15 | 595 | 145 | 520 | 768 | 1898 | 735 | 2447 | 1620 | 827 | 514 | 564 | 845 | 730 | 949 | M16 | 948  | 670 | 239 | 215 | 874 | 1477 | 350 | 1314 | 365 |
| HR2050 | MG.xx.S.xx.A.1.125.xx | 2180                    | 741 | 866 | 15 | 595 | 175 | 520 | 768 | 1898 | 735 | 2465 | 1638 | 827 | 514 | 564 | 845 | 730 | 949 | M16 | 948  | 670 | 239 | 215 | 755 | 1477 | 480 | 1314 | 365 |
| HR2060 | MG.xx.S.xx.A.1.80.xx  | 2160                    | 741 | 866 | 15 | 645 | 132 | 500 | 807 | 1890 | 735 | 2309 | 1463 | 846 | 550 | 600 | 775 | 850 | 949 | M16 | 1117 | 790 | 239 | 215 | 827 | 1336 | 310 | 1374 | 425 |
| HR2060 | MG.xx.S.xx.A.1.100.xx | 2160                    | 741 | 866 | 15 | 645 | 145 | 500 | 807 | 1890 | 735 | 2325 | 1479 | 846 | 550 | 600 | 775 | 850 | 949 | M16 | 1117 | 790 | 239 | 215 | 874 | 1336 | 350 | 1374 | 425 |
| HR2060 | MG.xx.S.xx.A.1.125.xx | 2160                    | 741 | 866 | 15 | 645 | 175 | 500 | 807 | 1890 | 735 | 2343 | 1497 | 846 | 550 | 600 | 775 | 850 | 949 | M16 | 1117 | 790 | 239 | 215 | 755 | 1336 | 480 | 1374 | 425 |
| HR2080 | MG.xx.S.xx.A.1.100.xx | 2180                    | 741 | 866 | 15 | 645 | 145 | 520 | 885 | 1890 | 735 | 2325 | 1479 | 846 | 700 | 750 | 775 | 850 | 949 | M16 | 1117 | 790 | 239 | 215 | 874 | 1336 | 350 | 1374 | 425 |
| HR2080 | MG.xx.S.xx.A.1.125.xx | 2180                    | 741 | 866 | 15 | 645 | 175 | 520 | 885 | 1890 | 735 | 2343 | 1497 | 846 | 700 | 750 | 775 | 850 | 949 | M16 | 1117 | 790 | 239 | 215 | 755 | 1336 | 480 | 1374 | 425 |

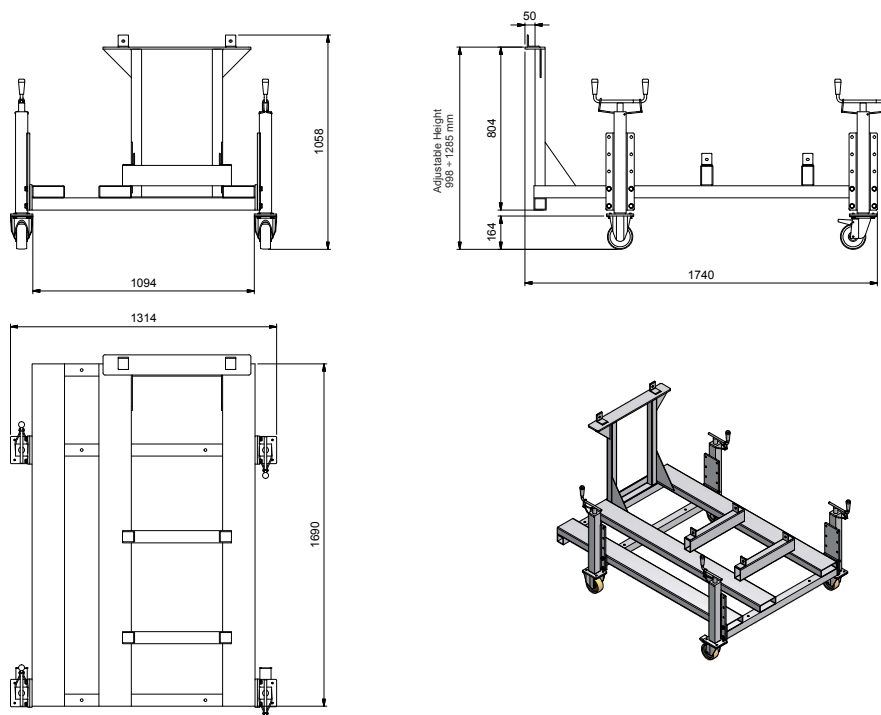
\* The B, G, H dimensions must be confirmed from our technical DPT.

Approximate values

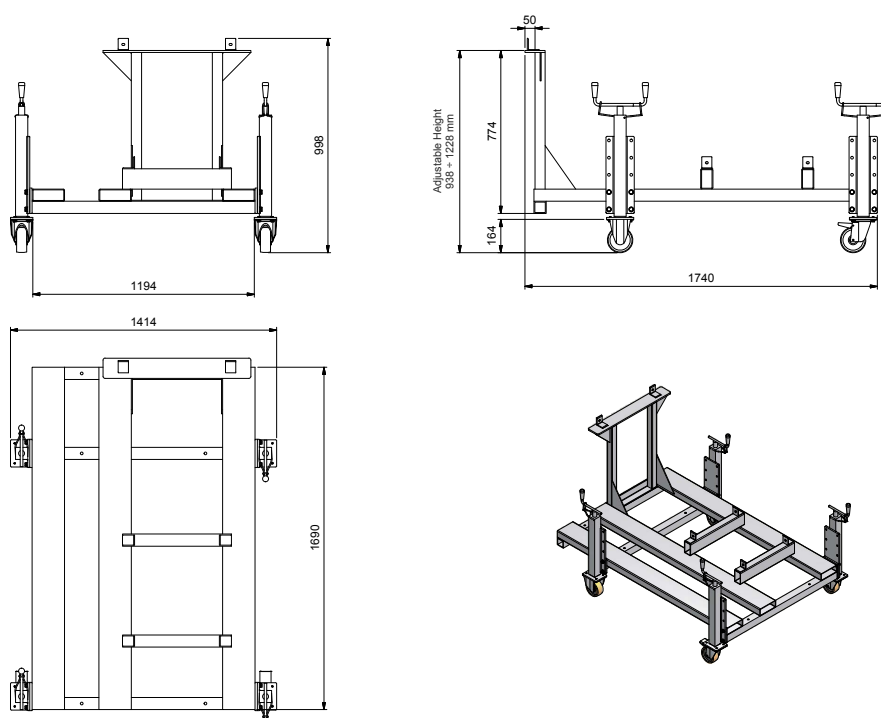
Monoblock burners 2000 series are supplied complete with a steel supporting frame; burner installation and manutention are greatly simplified.

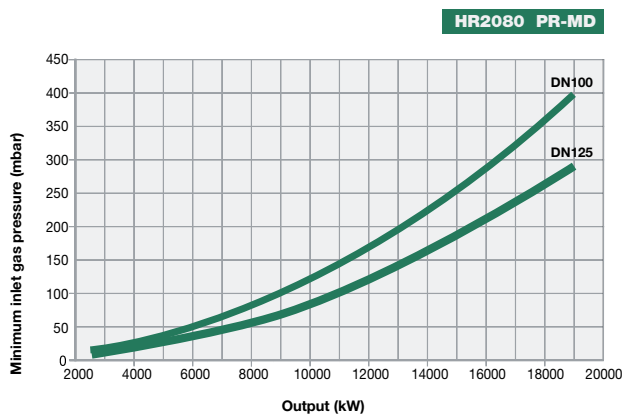
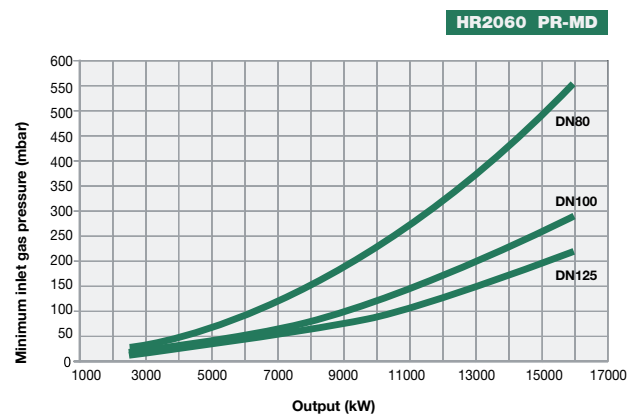
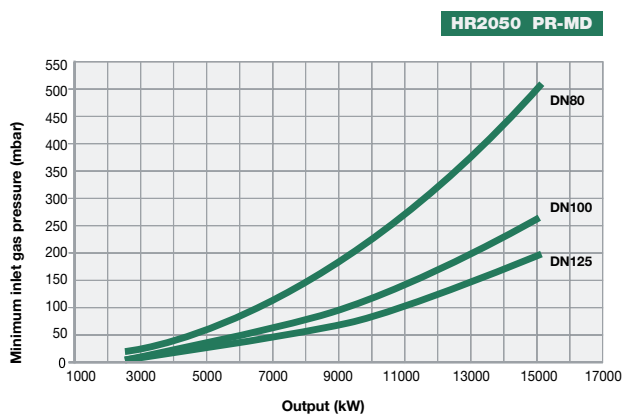
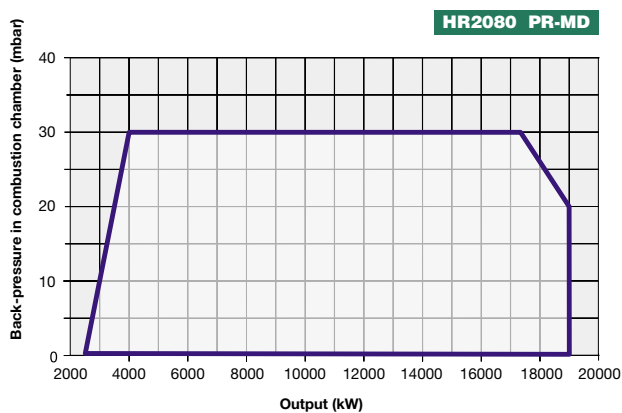
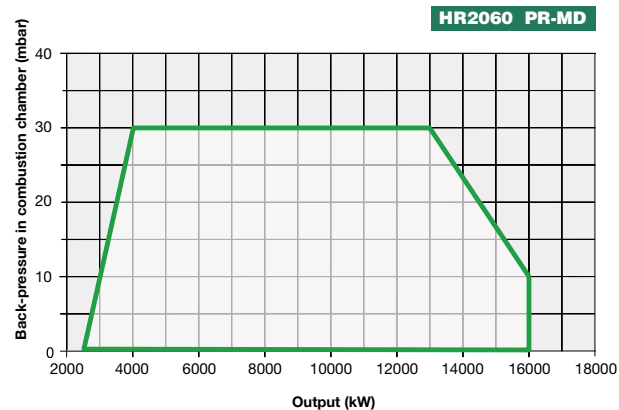
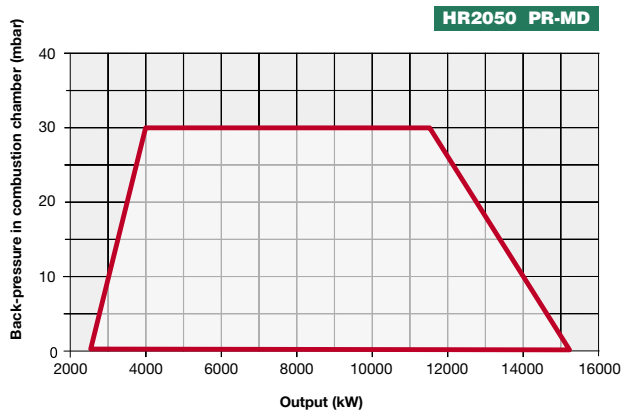
The frame is equipped with wheels to easily move the burner, and its height is adjustable to match any type of boiler or furnace.

### SUPPORTING FRAME FOR BURNERS 2050 SERIES



### SUPPORTING FRAME FOR BURNERS 2060/2080 SERIES





**Attention:** the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.