Technical information
Monobloc burners

Weishaupt monarch® burners
WM 10–50 55–12000 kW

WM10–50
Vertically firing burners

Vertically firing
WM-series burners

Vertical heat generators can often place additional demands on typical burner equipment. Weishaupt therefore offers a special vertical-firing execution for these applications.

Reliable operation

Safety-critical components, such as the gas butterfly valve, actuator, gas valve assembly, and gas pressure switches, are securely located away from high-temperature zones to ensure their reliable operation.

This measure alone results in a considerable increase in operational readiness

Simple installation

The burner's gas valve train is supplied pre-assembled from the gas butterfly valve to the double gas valve assembly, ensuring the various components will be correctly located at the burner's air inlet. The ready-to-connect cables will likewise be precisely the right length.

A further benefit of the vertical execution is that the burner can be rotated about the heat generator's vertical axis to any desired angle. Consequently, the burner can be easily aligned to any gas supply handing.

Run-on or continuously running fan for burner cooling

Improved cooling is necessary to protect the burner when it is idle, because its installed position makes it vunerable to a backflow of heat from the appliance. A longer post-purge time, however, or a continuously running fan, can effectively keep the mixing assembly from overheating. The required run-on time and the air-damper position can be set using the combustion manager.

1 The burner motor can be equipped with an integral DOL contactor or with a star-delta combination as appropriate

2 The combustion manager can be mounted on the burner or externally in a control panel as required

3 The optimal placement of the actuators ensures their precise and reliable operation

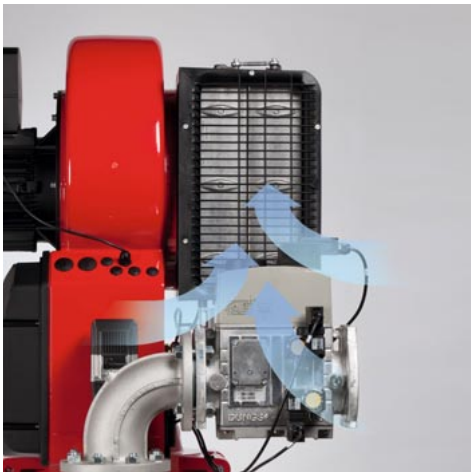
4 The side-mounted air inlet circulates the ambient air circulation and provides component cooling

5 The optimal positioning of the gas valve assembly ensures safe and reliable operation

6 All electrical components and cables are sited in secure, servicing-friendly positions

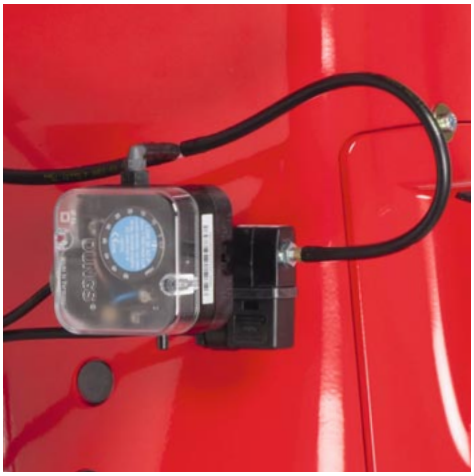
7 The valve train is suitable for both left and right-handed gas connections. The orientation of the burner determines the valve train handing

8 The control and display unit can be located on the burner or, preferably, in a control station close to the burner

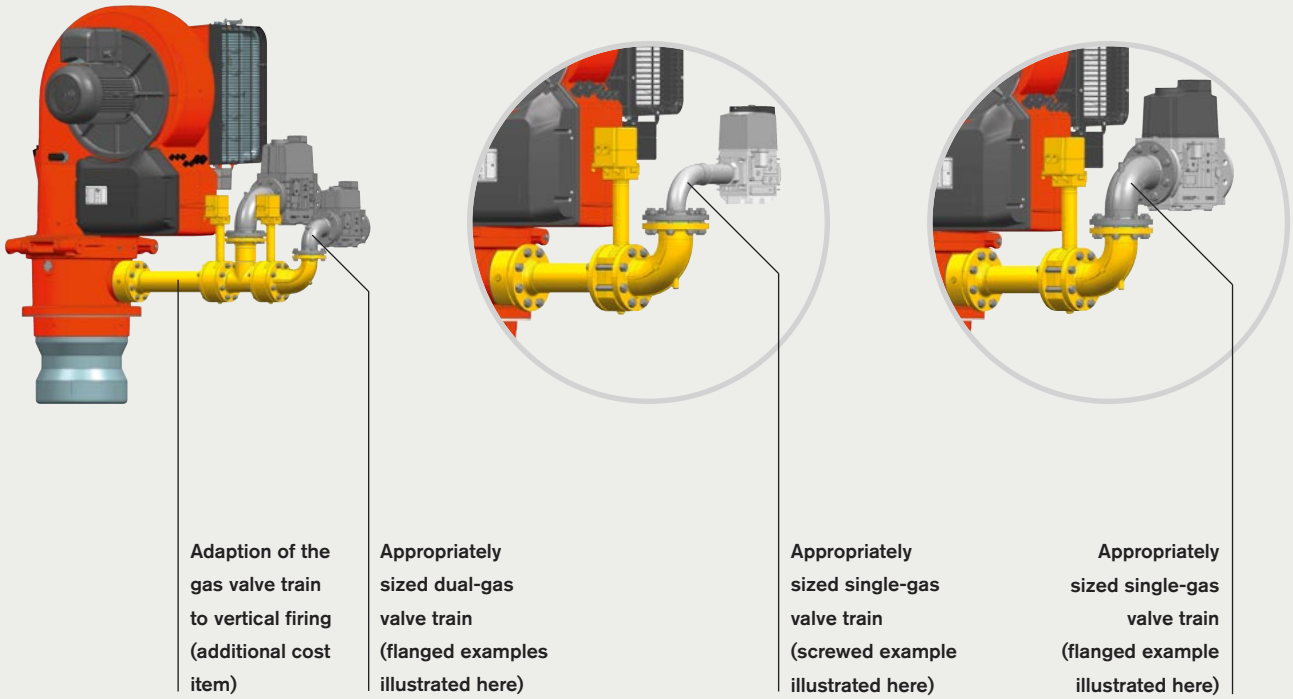


The gas valve assembly is ideally positioned, benefitting from additional cooling thanks to its proximity to the air inlet

Ideally, the ABE control and display unit should be located in a control station close to the burner



An additional solenoid valve enables the W-FM to also test the air pressure switch on burners with a post-purge or continuously running fan facility, ensuring maximal safety



Adaption of the gas valve train to vertical firing (additional cost item)

Appropriately sized dual-gas valve train (flanged examples illustrated here)

Appropriately sized single-gas valve train (screwed example illustrated here)

Appropriately sized single-gas valve train (flanged example illustrated here)

Vertically firing Weishaupt burners[1)]

Burner series monarch®	**Offset gas butterfly valve and double gas valve assembly** *Order No.*	**Solenoid valve for air pressure switch test with post-purge or continuous-run fan** *Order No.*
WM-G(L) 10	250 032 96	250 030 21
WM-G(L) 20	250 032 95	250 030 21
WM-G(L) 30	250 032 93	250 030 21
WM-G(L) 50	250 034 32	250 030 21

[1)] The burners are labelled as applicable with a CE mark, CE-PIN per Regulation (EU) 2016/426 with identification number of the Notified Body, and a DIN CERTCO label and registration number.

This brochure on vertically firing WM-series burners is a supplement to the product brochures for the WM 10 to WM 50 monarch® burners. Burner and valve train selection charts and extra equipment lists apply equally to vertically firing burners.

If you need us, we're there.

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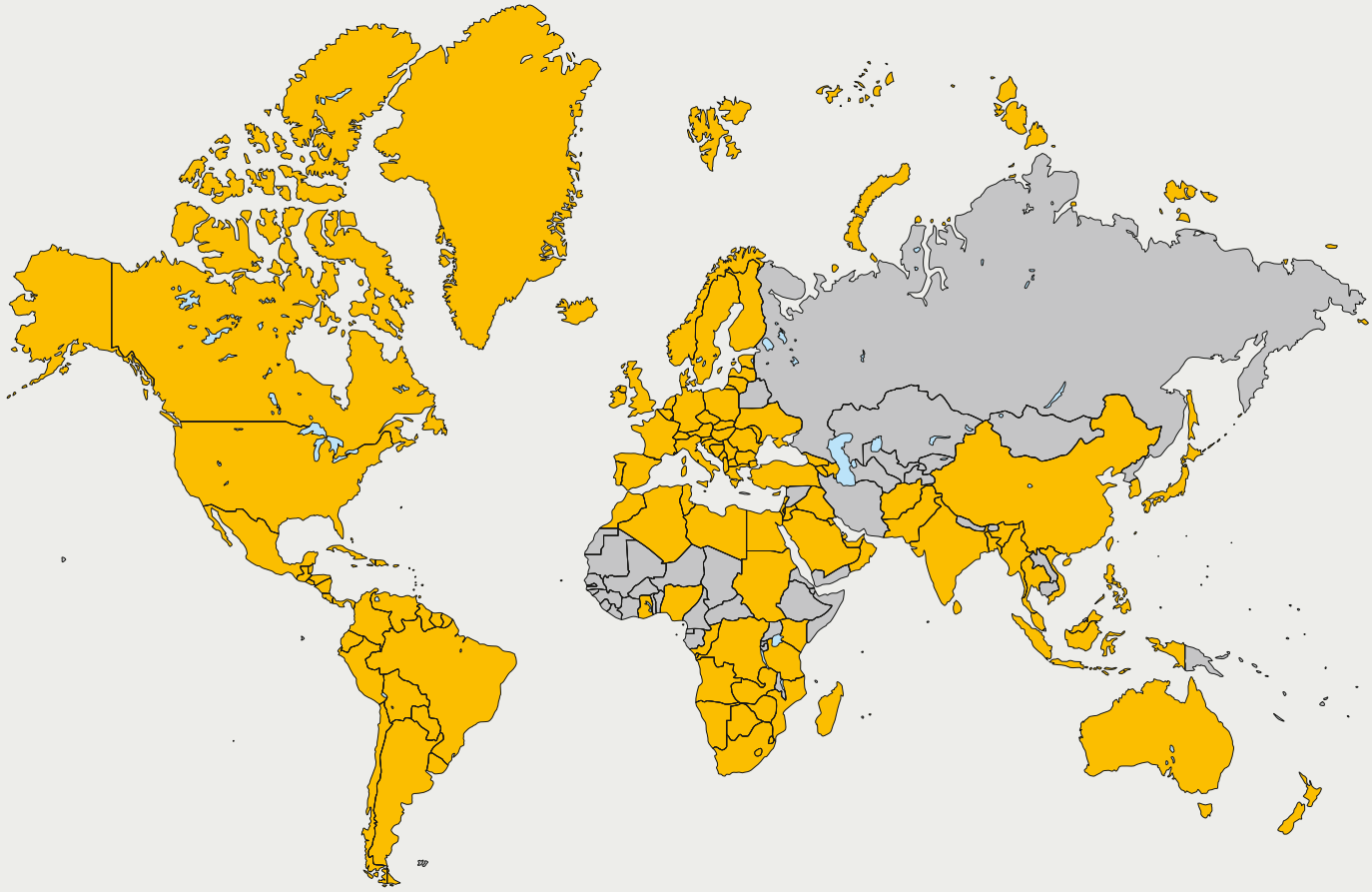
Some illustrations depict optional extras that are available at additional cost.



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