



# High-Performance Packaged Boiler

Australia's largest certified  
package boiler company.



**The Environmental  
Group Limited**  
*Engineering a Sustainable Future*

The Environmental Group Limited

[www.environmental.com.au](http://www.environmental.com.au)

# Working across the **Circular Economy**

## Our Purpose

Engineering a sustainable future.

## Our Mission

To enable our clients to contribute to a cleaner environment by safely delivering pivotal solutions while generating value for our shareholders, staff, and partner industries.

## Our Team

Our local experts are dedicated to reducing waste and boosting energy performance. Trusted worldwide to provide the highest standards of service and support.

# Tomlinson Energy Services

*Part of The Environmental Group*

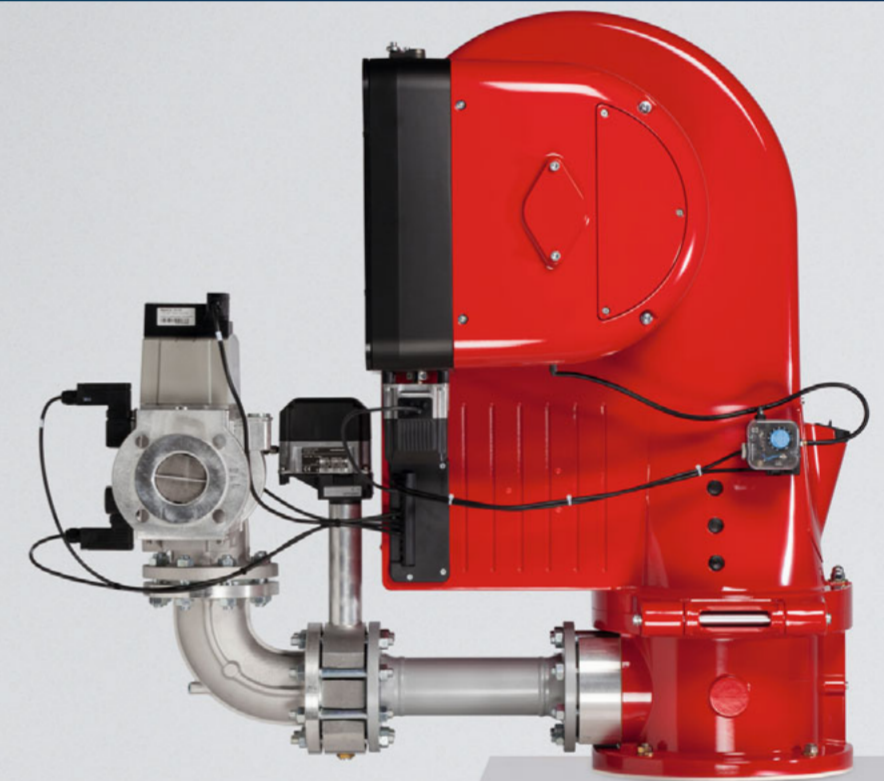
Tomlinson Energy Services is Australia's leading provider of packaged boiler solutions, delivering the highest combustion efficiency to keep operating costs low and performance high.

We specialise in custom design, installation, commissioning, and national servicing and repairs, complemented by our 24/7 emergency support.

With offices and a dedicated service team across Australia, Tomlinson Energy Services ensures boilers operate at peak performance for maximum efficiency and reliability.



# VERTICALLY FIRING BURNERS

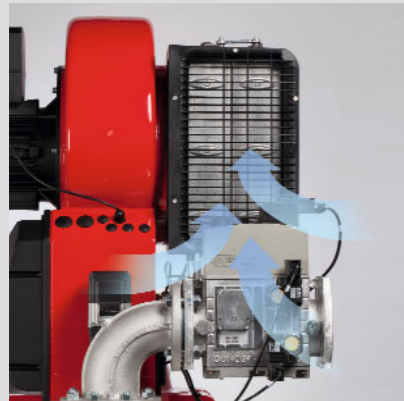


**–weishaupt–**

## Offering Industry Leading Burners

**Weishaupt** produces gas and oil-fired boilers, heat pumps, and burners. These top-quality products are characterised by their meticulous development, high-quality workmanship, outstanding operational reliability, and maximum Efficiency. Their unrivalled excellence extends equally to design and function.

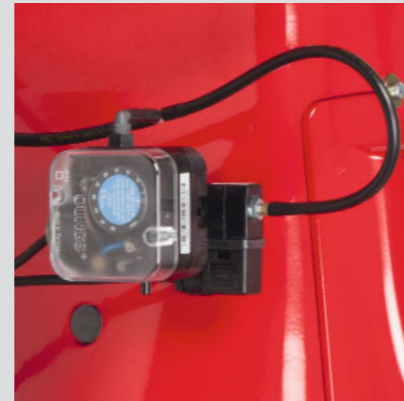
# Vertically firing burners for any application



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



The ABE control and display unit should ideally 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 continuous-run fan or post-purge facility, ensuring maximal safety

Vertical heat generators can often place additional demands on burner equipment. Weishaupt 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 single measure alone results in a considerable increase in operational readiness.

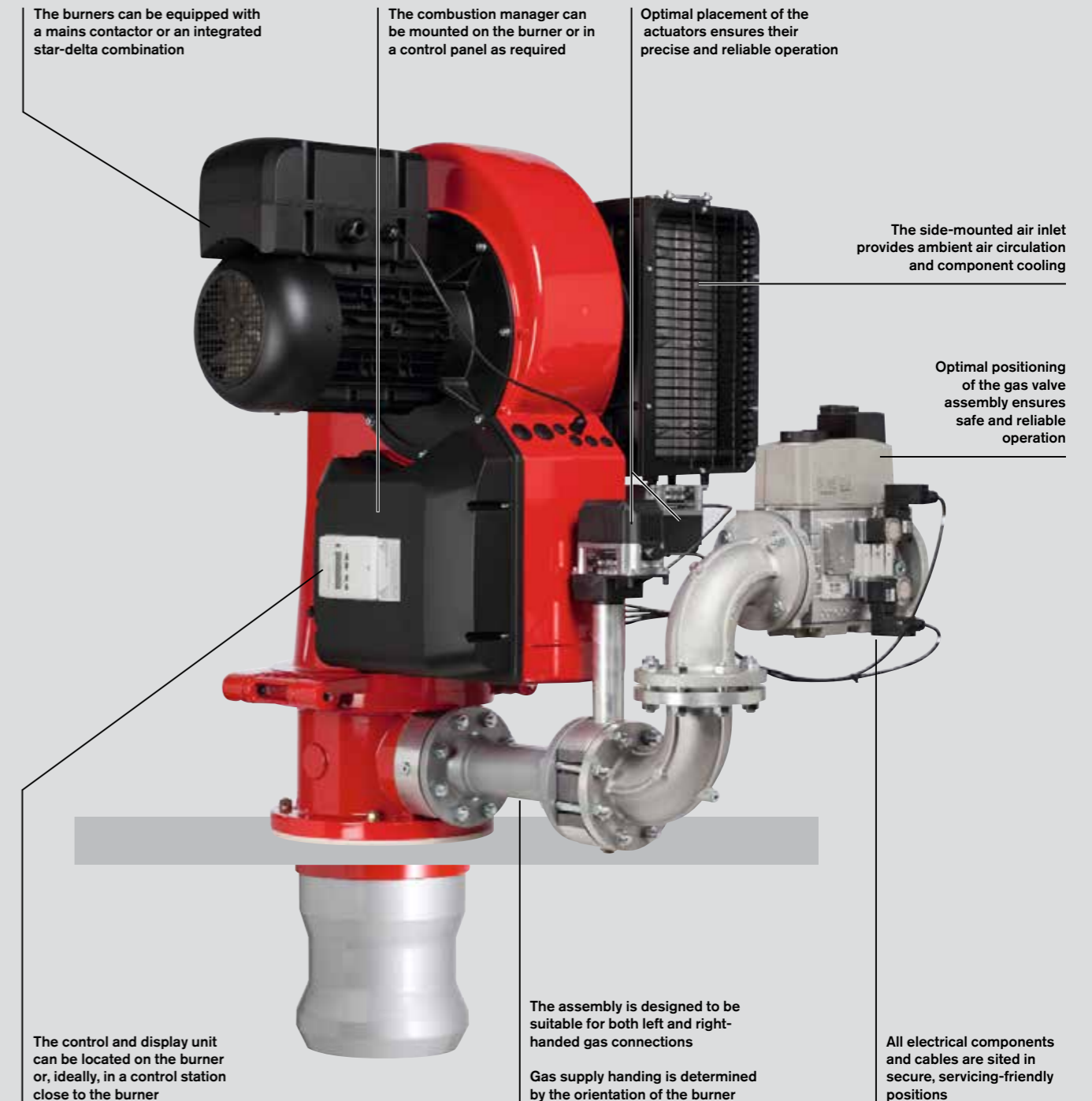
### Simple installation

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.

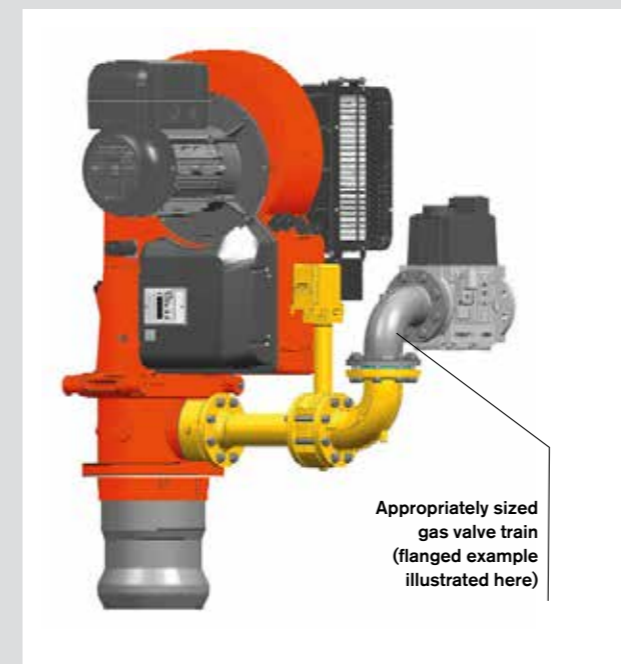
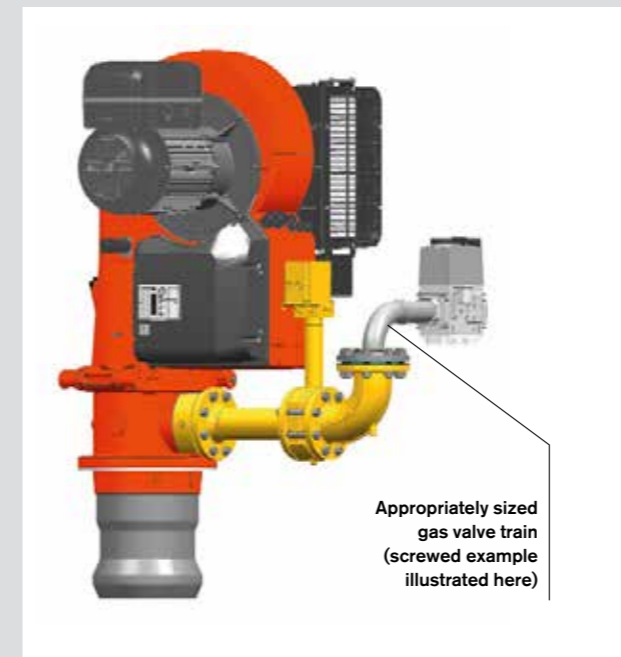
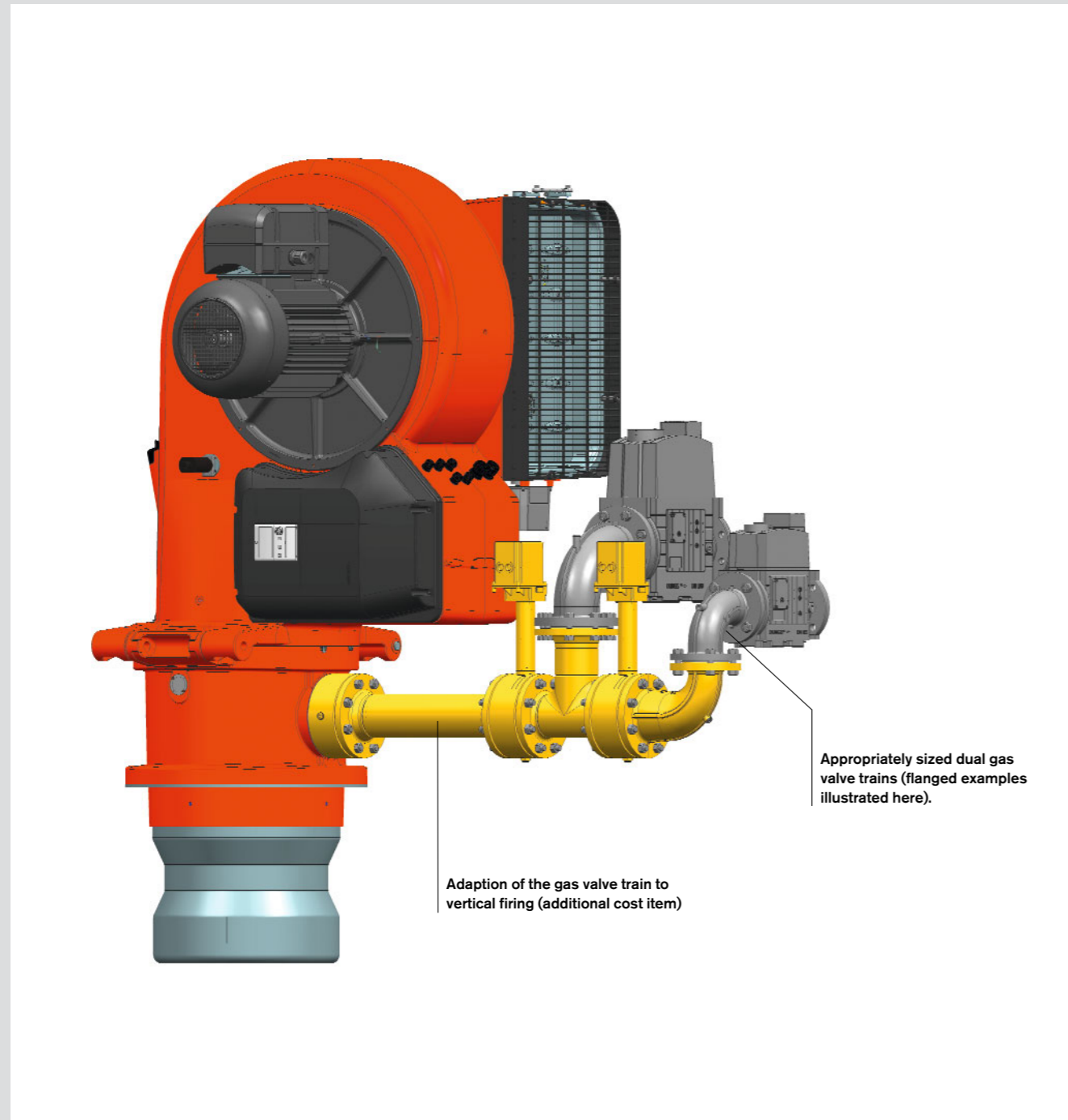
A further benefit of the vertical execution is that the burner can be rotated about the heat generator's vertical axis to any desired angle. Consequently, the burner can be easily aligned to any gas supply handing.

### Burner cooling with post-purge or continuous-run fan

The vertical arrangement of the heat generator, and the associated backflow of heat, mean that improved cooling is necessary to protect the burner when it is idle. A longer post-purge time, or continuous-run fan, can effectively prevent the mixing assembly from overheating. The required run-on times and air-damper position can be set via the combustion manager



# Vertically firing WM-series burners: Gas and dual-gas valve train arrangements



**Vertically firing Weishaupt burners<sup>1)</sup>  
Additional equipment to standard burner**

Burner series	Offset gas butterfly valve and double gas valve assembly Order No.
monarch® WM-G(L) 10	250 032 96
monarch® WM-G(L) 20	250 032 95
monarch® WM-G(L) 30	250 032 93
monarch® WM-G(L) 50	250 034 32

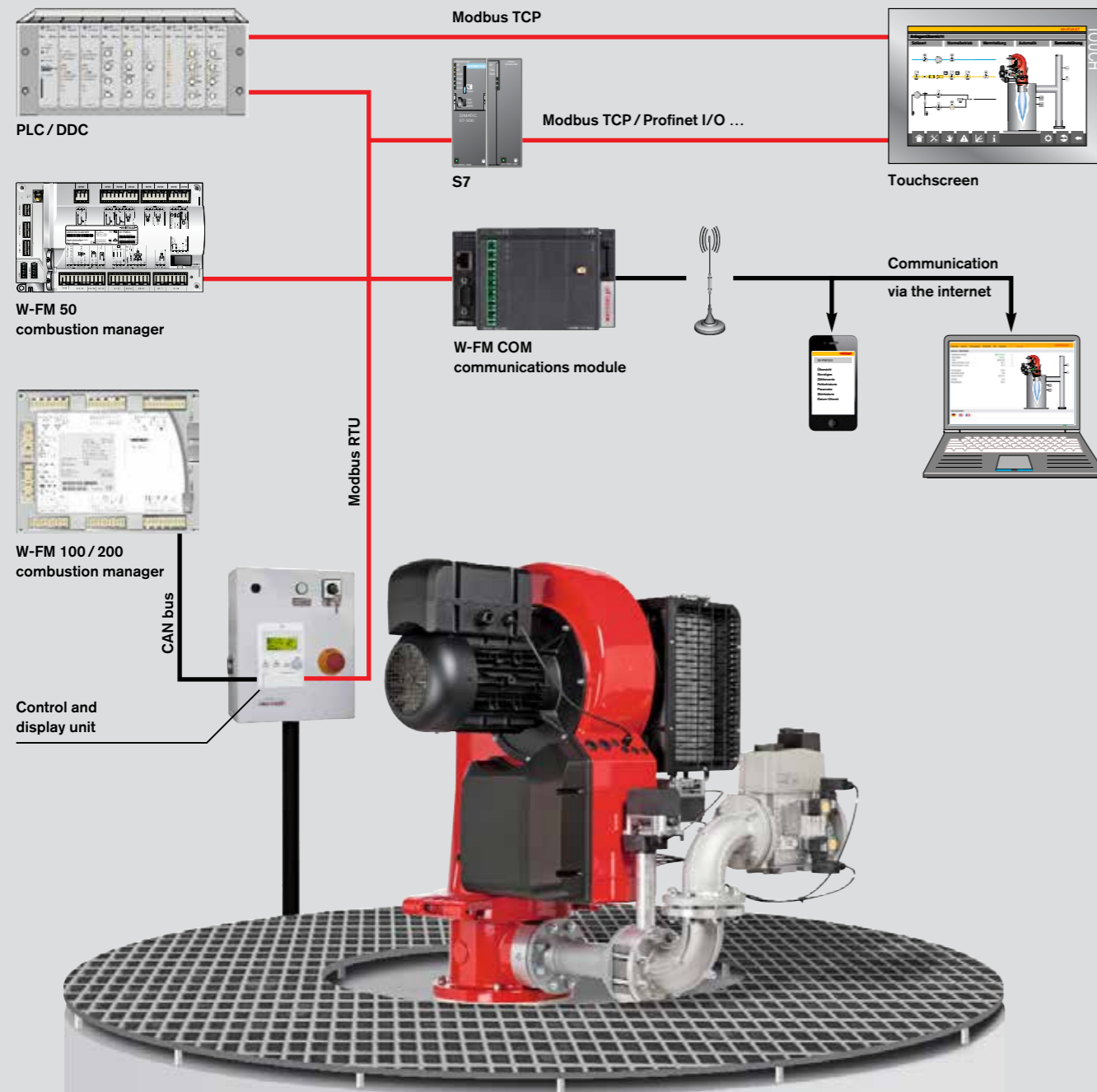
  

Burner series	Solenoid valve for air pressure switch test with post-purge or continuous-run fan Order No.
monarch® WM-G(L) 10	250 030 21
monarch® WM-G(L) 20	250 030 21
monarch® WM-G(L) 30	250 030 21
monarch® WM-G(L) 50	250 030 21

<sup>1)</sup> The burners are labelled with a CE Mark, the relevant CE-PIN per 2009/142/EC, DIN-CERTCO, and the identification number of the notified body.

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

# Flexible communications: Compatible with building management systems



The digital combustion manager is the basis of communications with other superordinate systems. This is generally achieved using the eBus or Modbus protocols.

All the usual burner and boiler functions can be monitored and controlled through a direct connection with a building management system.

A graphical HMI is available as an option to provide a user-friendly overview of the boiler. The touchscreen display allows numerous functions to be adjusted and monitored, such as system parameters

and setpoints of individual and multi-boiler plant and ancilliary equipment.

The controls specialists, Neuberger, who are a part of the Weishaupt Group, are able to design and implement complex control solutions.

Further optional components enable connections to be made to systems using commonplace industrial standards, such as Profibus-DP, LON-Bus, and Modbus RTU, and network protocols such as Profinet I/O, Modbus TCP, BacNet, etc.

A recent addition to Weishaupt's portfolio is the W-FM COM communications module. It transmits data securely over the internet so that it can be called up and displayed in a browser window on a computer, tablet, or smartphone, facilitating accurate service planning for example. Even away from the internet you can be kept up to date with the operation of the burner: In the event of a safety shutdown or other predefined trigger, an SMS text message is sent automatically.

## Overview of digital control variants (Equipment must comply with local regulations)

Burner types	Combustion manager	ABE				Features	Options							
		Burner-mounted	In an external control panel	Burner-mounted	In an external control station (ABE within 20 m of the burner)		In an external control station / panel (ABE within 100 m of the burner)	Gas valve proving	O <sub>2</sub> trim					
WM-G 10-50	W-FM50	●	●	●	●	Post-purge time adjustable via W-FM (Factory presets in parentheses) Recommended > 15 min A separate timer relay is required to achieve longer post-purge times	Direct start <sup>1)</sup> set via the W-FM (Factory preset: normal start)	Suitable for intermittent firing	Suitable for continuous firing	4-20 mA input signal for load control	Data transfer via Modbus interface	Gas valve proving	Variable speed drive with externally located frequency converter	O <sub>2</sub> trim
	W-FM100	●	●	●	●									
	W-FM200	●	●	●	●									
WM-L 10-50	W-FM50	●	●	●	●	0.2 s-108 min (0.2 s) 0.2 s-1092 h (5.0 s) 0.2 s-1092 h (5.0 s)	●	●	●	○	●	●	○	○
	W-FM100	●	●	●	●									
	W-FM200	●	●	●	●									
WM-GL 10-50	W-FM54	●	●	●	●	0.2 s-108 min (0.2 s) 0.2 s-1092 h (5.0 s) 0.2 s-1092 h (5.0 s)	●	●	●	○	●	●	○	○
	W-FM100	●	●	●	●									
	W-FM200	●	●	●	●									

ABE = Control and display unit ● Standard ● Recommended ○ Optional

<sup>1)</sup> In the event of a call for heat during the post-purge time, the burner restarts without a motor shutdown

# Contact Us



Maximising Energy Efficiencies for a Sustainable Future

[admin@egl.com.au](mailto:admin@egl.com.au)

[www.environmental.com.au](http://www.environmental.com.au)

03 9541 8699

## Office Locations



### Melbourne

Tomlinson Energy Services  
Suite 2.01 | Level 2  
315 Ferntree Gully Road  
Mount Waverley VIC 3149

P: 03 8560 0416

E: [energyservice.melbourne@tomlinsonenergy.com.au](mailto:energyservice.melbourne@tomlinsonenergy.com.au)

### Sydney

Tomlinson Energy Services  
A2, 26 Power Road  
Seven Hills NSW 2417

P: 02 9681 4177

E: [energyservice.sydney@tomlinsonenergy.com.au](mailto:energyservice.sydney@tomlinsonenergy.com.au)

### Brisbane

Tomlinson Energy Services  
1/48 Commerce Circuit  
Yatala QLD 4207

P: 07 3462 0159

E: [energyservice.brisbane@tomlinsonenergy.com.au](mailto:energyservice.brisbane@tomlinsonenergy.com.au)

### South Australia

Tomlinson Energy Services  
26 Phillips Street  
Thebarton SA 5031

P: 08 8297 9688

E: [energyservice.adelaide@tomlinsonenergy.com.au](mailto:energyservice.adelaide@tomlinsonenergy.com.au)

### Western Australia

Tomlinson Energy Services  
40 Sorbonne Crescent  
Canning Vale WA 6155

P: 08 9455 5511

E: [energyservice.perth@tomlinsonenergy.com.au](mailto:energyservice.perth@tomlinsonenergy.com.au)



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