

–weishaupt–



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product

Information on gas, oil, and dual-fuel burners



WM 30 for gas, oil, and dual-fuel

WM 30 monarch® burners (350–6200 kW) • powerful and versatile

Overview of burner control

Model designation

Oil-fired operation

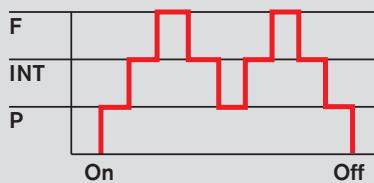
Three-stage control (T)

- Oil is released during start up by the opening of solenoid valve 1 and the safety solenoid valve.
- Full load is reached by the opening of solenoid valves 2 and 3.
- Load control is achieved by opening and closing solenoid valves 2 and 3.

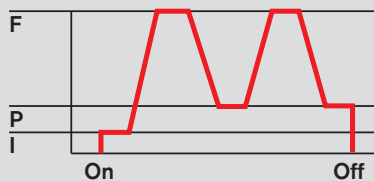
Sliding-two-stage or modulating control (R)

- On opening the solenoid valves the correct rate of oil for start up is released.
- An actuator sets the oil regulator to full load.
- Load control is achieved through the opening and closing of the oil regulator.
- Modulating operation:
 - W-FM 50 or W-FM 54 with KS20 controller
 - W-FM 100 with load controller
 - W-FM 200
- Alternatively, a PID controller can be fitted into the control panel

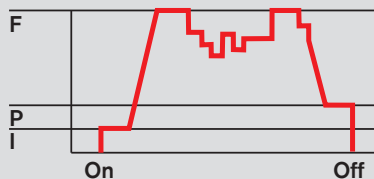
Three-stage



Sliding-two-stage



Modulating



Gas-fired operation

Sliding-two-stage or modulating control (ZM)

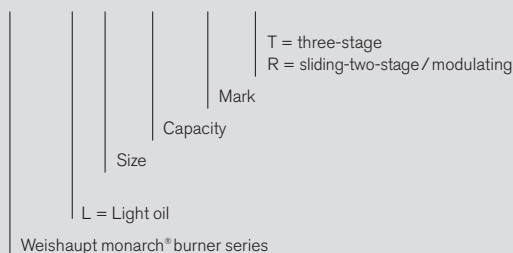
- Actuators drive the burner to partial load or full load in response to heat demand.
- There is a gradual change between both load points. There are no sudden, large changes in fuel throughput.
- Modulating operation:
 - W-FM 50 or W-FM 54 with KS20 controller
 - W-FM 100 with load controller
 - W-FM 200
- Alternatively, a PID controller can be fitted into the control panel

F = Full load (nominal load)
 INT = Intermediate load
 P = Partial load (minimum load)
 I = Ignition load

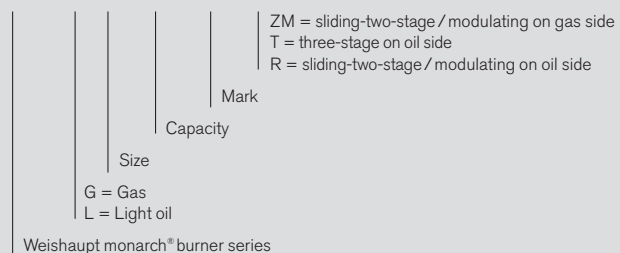
Fuel Version	Oil			Gas	
	three-stage	sliding-two-stage	modulating	sliding-two-stage	modulating
ZM				●	●
ZM-T	●			●	●
ZM-R		●	●	●	●

Model designation

WM - L 30 / 3 -A T ...R

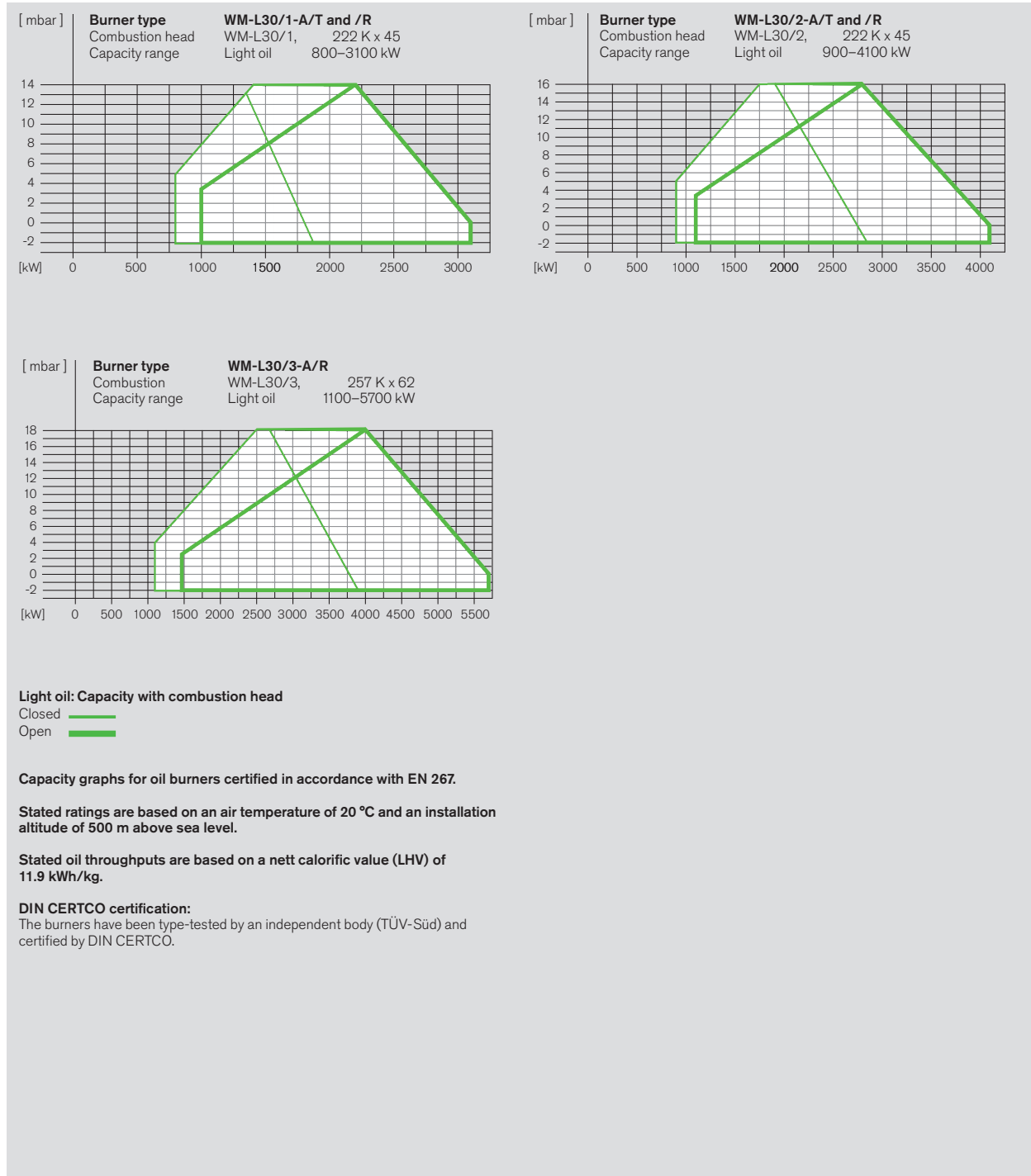


WM - GL 30 / 3 -A ZM - T ...ZM-R

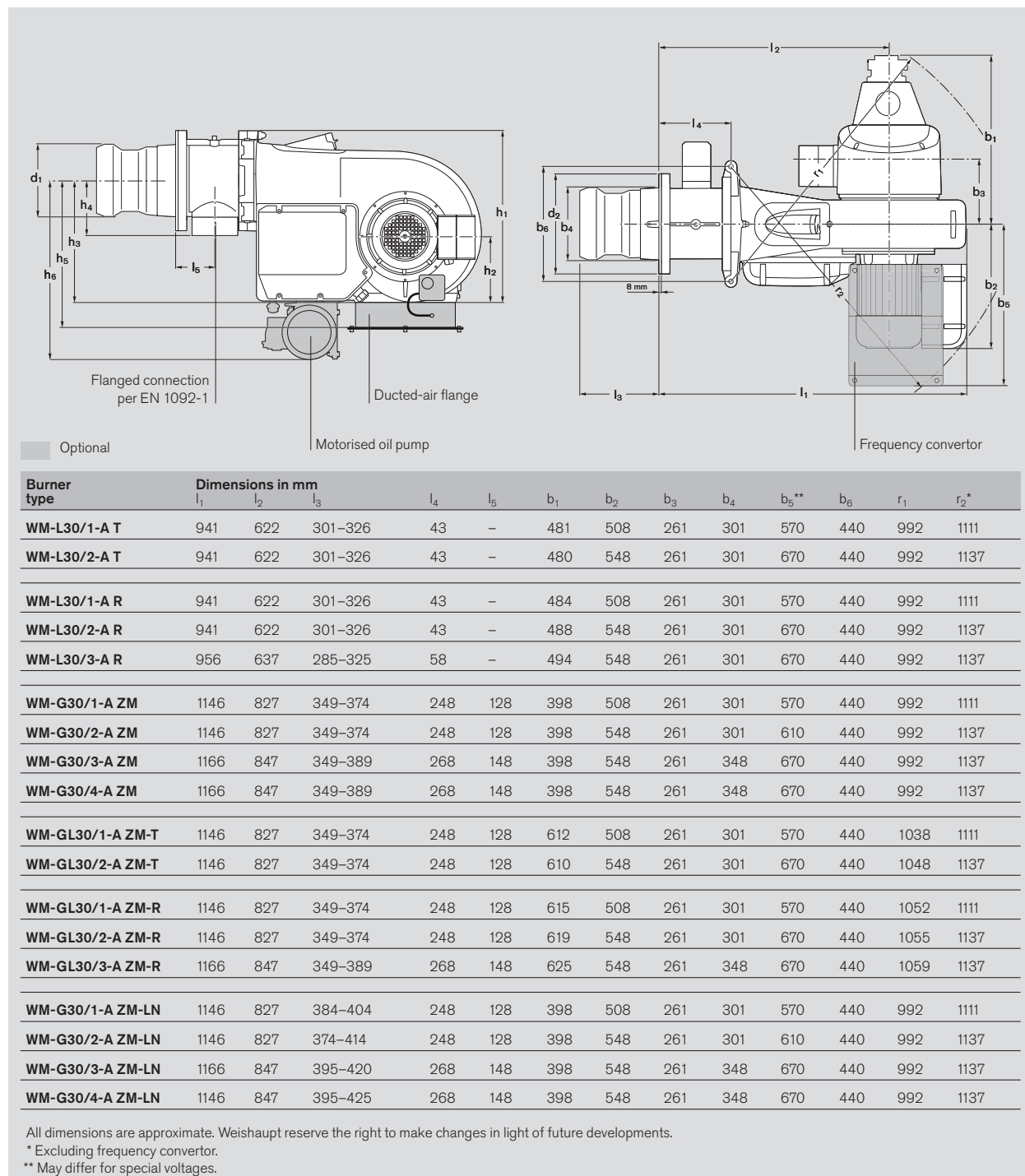


Burner selection

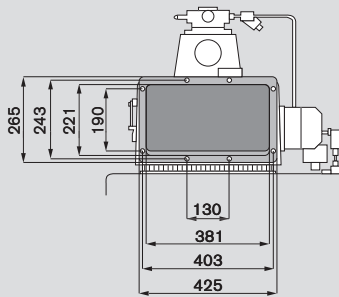
WM-L30, versions T and R



Dimensions

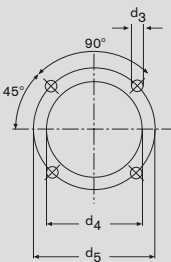


Underside of
ducted-air flange

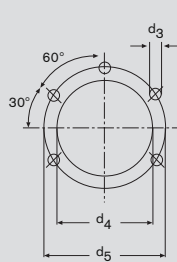


Mounting-plate drilling dimensions

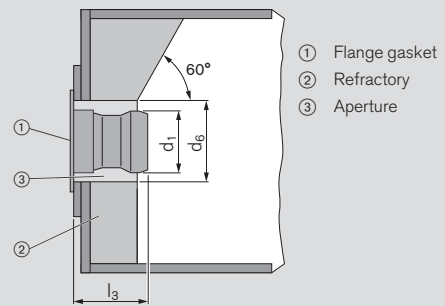
WM 30/1 and
WM 30/2



WM 30/3 and
WM 30/4



Heat generator preparation



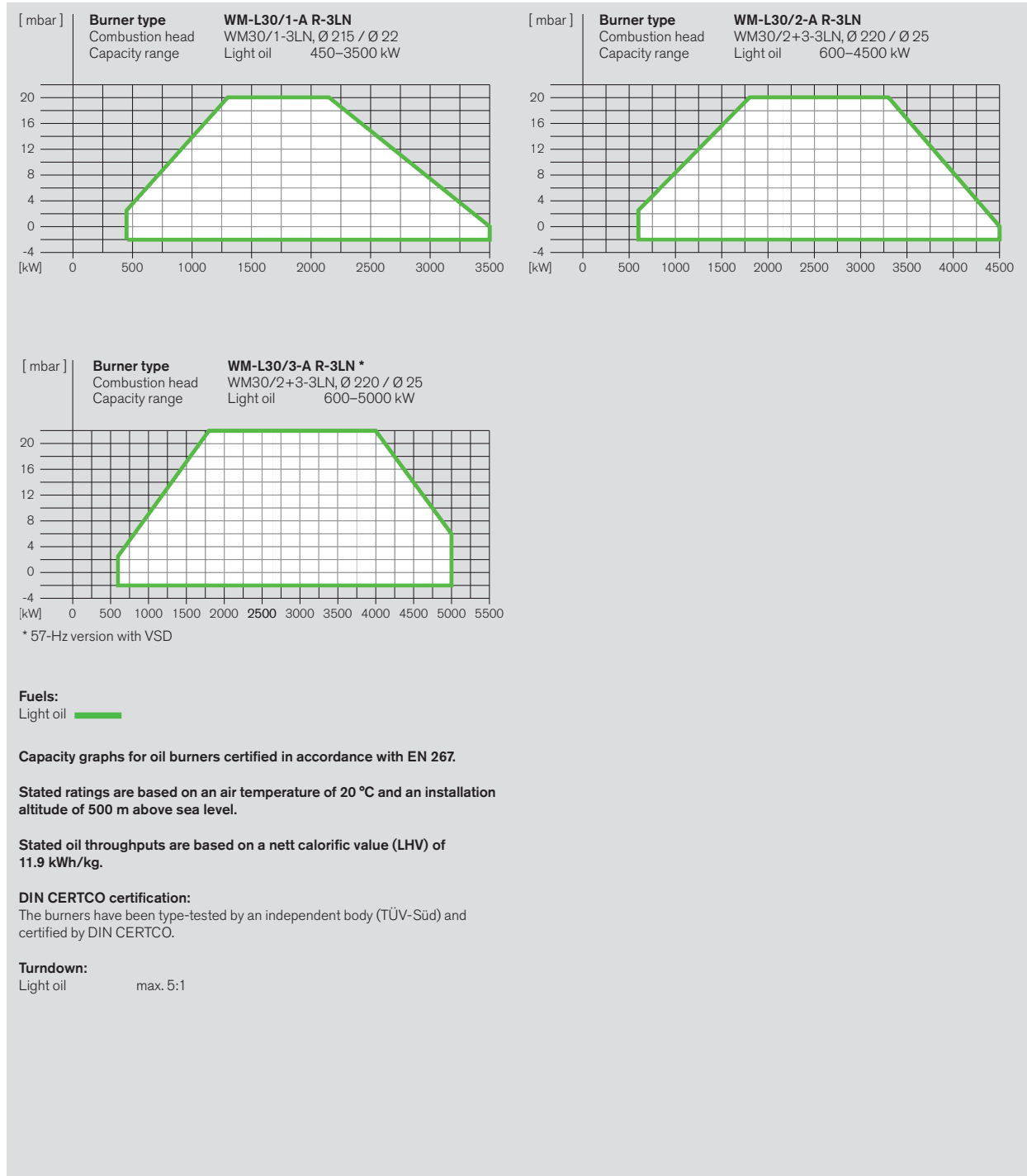
The refractory ② must not protrude beyond the front edge of the combustion head. It may however be tapered (min. 60°).

Burner type	Dimensions in mm													Nominal diameter of gas butterfly
	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆		
WM-L30/1-A T	695	256	505	–	621	680	290	380	M12	305	330	360	–	
WM-L30/2-A T	695	256	505	–	621	680	300	380	M12	305	330	360	–	
WM-L30/1-A R	695	256	505	–	621	710	290	380	M12	305	330	360	–	
WM-L30/2-A R	695	256	505	–	621	720	300	380	M12	305	330	360	–	
WM-L30/3-A R	730	256	505	–	621	720	367	450	M12	375	400	420	–	
WM-G30/1-A ZM	695	256	505	212	621	–	290	380	M12	305	330	360	DN 80	
WM-G30/2-A ZM	695	256	505	212	621	–	300	380	M12	305	330	360	DN 80	
WM-G30/3-A ZM	730	256	505	232	621	–	367	450	M12	375	400	420	DN 80	
WM-G30/4-A ZM	730	256	505	232	621	–	367	450	M12	375	400	420	DN 80	
WM-GL30/1-A ZM-T	695	256	505	212	621	680	290	380	M12	305	330	360	DN 80	
WM-GL30/2-A ZM-T	695	256	505	212	621	680	300	380	M12	305	330	360	DN 80	
WM-GL30/1-A ZM-R	695	256	505	212	621	710	290	380	M12	305	330	360	DN 80	
WM-GL30/2-A ZM-R	695	256	505	212	621	720	300	380	M12	305	330	360	DN 80	
WM-GL30/3-A ZM-R	730	256	505	232	621	720	367	450	M12	375	400	420	DN 80	
WM-G30/1-A LN	695	256	505	212	621	–	280	380	M12	305	330	360	DN 80	
WM-G30/2-A LN	695	256	505	212	621	–	296	380	M12	305	330	360	DN 80	
WM-G30/3-A LN	730	256	505	232	621	–	356	450	M12	375	400	420	DN 80	
WM-G30/4-A LN	730	256	505	232	621	–	356	450	M12	375	400	420	DN 80	

All dimensions are approximate. Weishaupt reserve the right to make changes in light of future developments.

Burner selection

WM-L30, version 3LN (multiflam®)



Special equipment WM-G30 and WM-GL30, vers. 3LN (multiflam®)

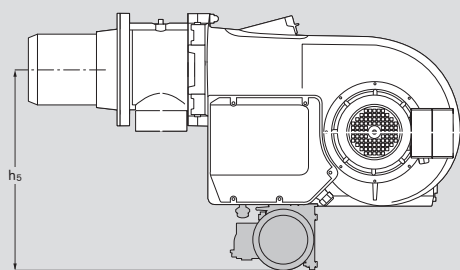
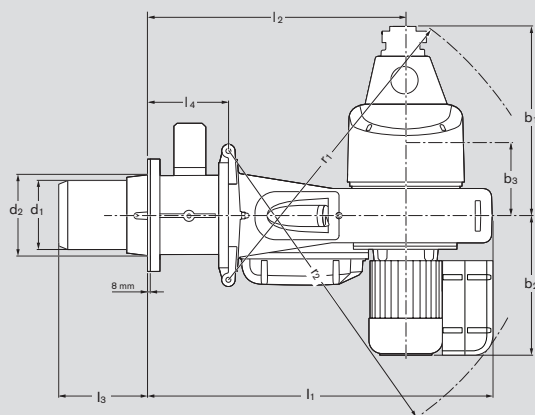
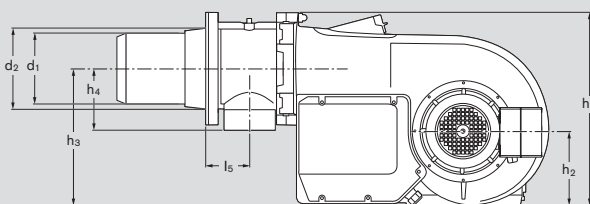
Gas and dual-fuel burners, version ZM(-R)-3LN		WM-G(L)30/1-A	WM-G(L)30/2-A	WM-G(L)30/3-A
Combustion head extension	by 150 mm	Please enquire	Please enquire	Please enquire
	by 300 mm	Please enquire	Please enquire	Please enquire
Solenoid valve for air pressure switch test with continuous-run fan or post-purge		Please enquire	Please enquire	Please enquire
High gas pressure switch ¹⁾ (Screwed R¾ to R2 for low-pressure supplies)	GW 50 A6/1	250 033 30	250 033 30	250 033 30
	GW 150 A6/1	250 033 31	250 033 31	250 033 31
	GW 500 A6/1	250 033 32	250 033 32	250 033 32
High gas pressure switch ¹⁾ (Flanged DMV / VGD for low-pressure supplies)	GW 50 A6/1	150 017 49	150 017 49	150 017 49
	GW 150 A6/1	150 017 50	150 017 50	150 017 50
	GW 500 A6/1	150 017 51	150 017 51	150 017 51
High gas pressure switch ¹⁾ (Fitted to high-pressure regulator)	GW 50 A6/1	250 033 33	250 033 33	250 033 33
	GW 150 A6/1	250 033 34	250 033 34	250 033 34
	GW 500 A6/1	250 033 35	250 033 35	250 033 35
ST 18/7 and ST 18/4 plug connections		250 030 22	250 030 22	250 030 22
Air inlet flange for ducted-air connection, with LGW air pressure switch		210 031 15	210 031 15	–
DSB158 pressure switch in supply ¹⁾		210 031 09	210 031 09	Standard
W-FM 100 supplied loose in lieu of fitted		250 034 28	250 034 28	–
W-FM 200 supplied loose in lieu of fitted		–	–	250 034 30
Integral load controller and analogue signal convertor for W-FM 100		110 017 18	110 017 18	–
W-FM 200 in lieu of W-FM 100 with integral load controller, analogue signal convertor, and VSD module with optional fuel metering	burner-mounted	250 030 72	250 030 72	Standard
	supplied loose	250 034 29	250 034 29	–
VSD with integral frequency convertor (W-FM 200 required)	WM-G	210 030 97	210 031 49	Standard
	WM-GL	210 031 48	210 031 49	Standard
VSD with separate frequency convertor (W-FM 200 required) (See accessories list for frequency convertor)		210 030 98	210 031 00	210 031 57
W-FM 200 with extended O ₂ trim / CO control functionality		250 033 78	250 033 78	250 033 78
Mixing assembly with HDK 40 in lieu of HDK 30 (for media temperatures > 120 °C)	WM-GL	210 031 86	210 031 86	210 031 86
ABE with Chinese-character display, supplied loose		110 018 53	110 018 53	110 018 53
110 V control voltage		Please enquire	Please enquire	Please enquire

Country-specific executions and special voltages on application

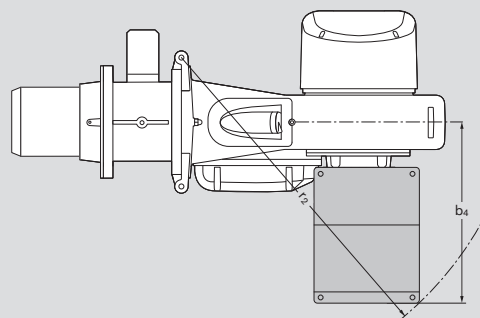
¹⁾ Required for PED (2014/68/EU) compliance.

Dimensions

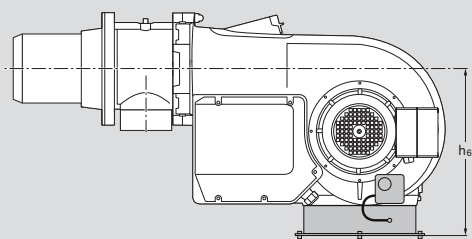
multiflam® burners, version 3LN



Motorised oil pump
(Standard on WM 30/3)



Frequency converter
(Standard on WM 30/3)



Ducted-air flange

Optional

Burner type	Dimensions in mm						b ₁	b ₂	b ₃	b ₄ **	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆
	l ₁	l ₂	l ₃	l ₄	l ₅											
WM-L30/1-A R-3LN	1166	847	473	268	148	488	548	261	670	730	256	505	–	720	621	
WM-L30/2-A R-3LN	1166	847	480	268	148	494	548	261	670	730	256	505	–	720	621	
WM-L30/3-A R-3LN	1166	847	480	268	148	446	548	261	670	730	256	505	–	720	621	
WM-G30/1-A ZM-3LN	1166	847	473	268	148	398	548	261	610	730	256	505	232	–	621	
WM-G30/2-A ZM-3LN	1166	847	480	268	148	398	548	261	670	730	256	505	232	–	621	
WM-G30/3-A ZM-3LN	1166	847	480	268	148	398	548	261	670	730	256	505	232	–	621	
WM-GL30/1-A ZM-R-3LN	1166	847	473	268	148	619	548	261	670	730	256	505	232	720	621	
WM-GL30/2-A ZM-R-3LN	1166	847	480	268	148	625	548	261	670	730	256	505	232	720	621	
WM-GL30/3-A ZM-R-3LN	1166	847	480	268	148	446	548	261	670	730	256	505	232	720	621	

Burner type	Dimensions in mm				Nominal diameter of gas butterfly	d ₃	d ₄	d ₅	d ₆
	r ₁	r ₂ *	d ₁	d ₂					
WM-L30/1-A R-3LN	992	1137	296	348		M12	375	400	380
WM-L30/2-A R-3LN	992	1137	322	348		M12	375	400	380
WM-L30/3-A R-3LN	992	1151	322	348		M12	375	400	380
WM-G30/1-A ZM-3LN	992	1137	296	348	DN80	M12	375	400	380
WM-G30/2-A ZM-3LN	992	1137	322	348	DN80	M12	375	400	380
WM-G30/3-A ZM-3LN	992	1151	322	348	DN80	M12	375	400	380
WM-GL30/1-A ZM-R-3LN	1055	1137	296	348	DN80	M12	375	400	380
WM-GL30/2-A ZM-R-3LN	1059	1137	322	348	DN80	M12	375	400	380
WM-GL30/3-A ZM-R-3LN	992	1151	322	348	DN80	M12	375	400	380

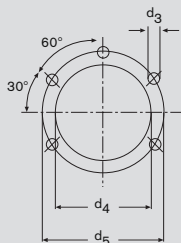
All dimensions are approximate.

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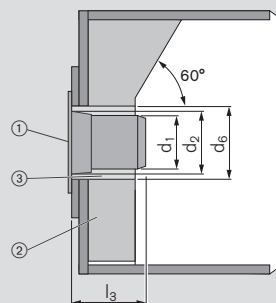
* Excluding frequency convertor.

** May differ for special voltages.

Mounting-plate drilling dimensions



Heat generator preparation



- ① Flange gasket
- ② Refractory
- ③ Aperture

The leading edge of the combustion head must protrude approx. 50 mm beyond the refractory ②. The refractory may be tapered (min. 60°).