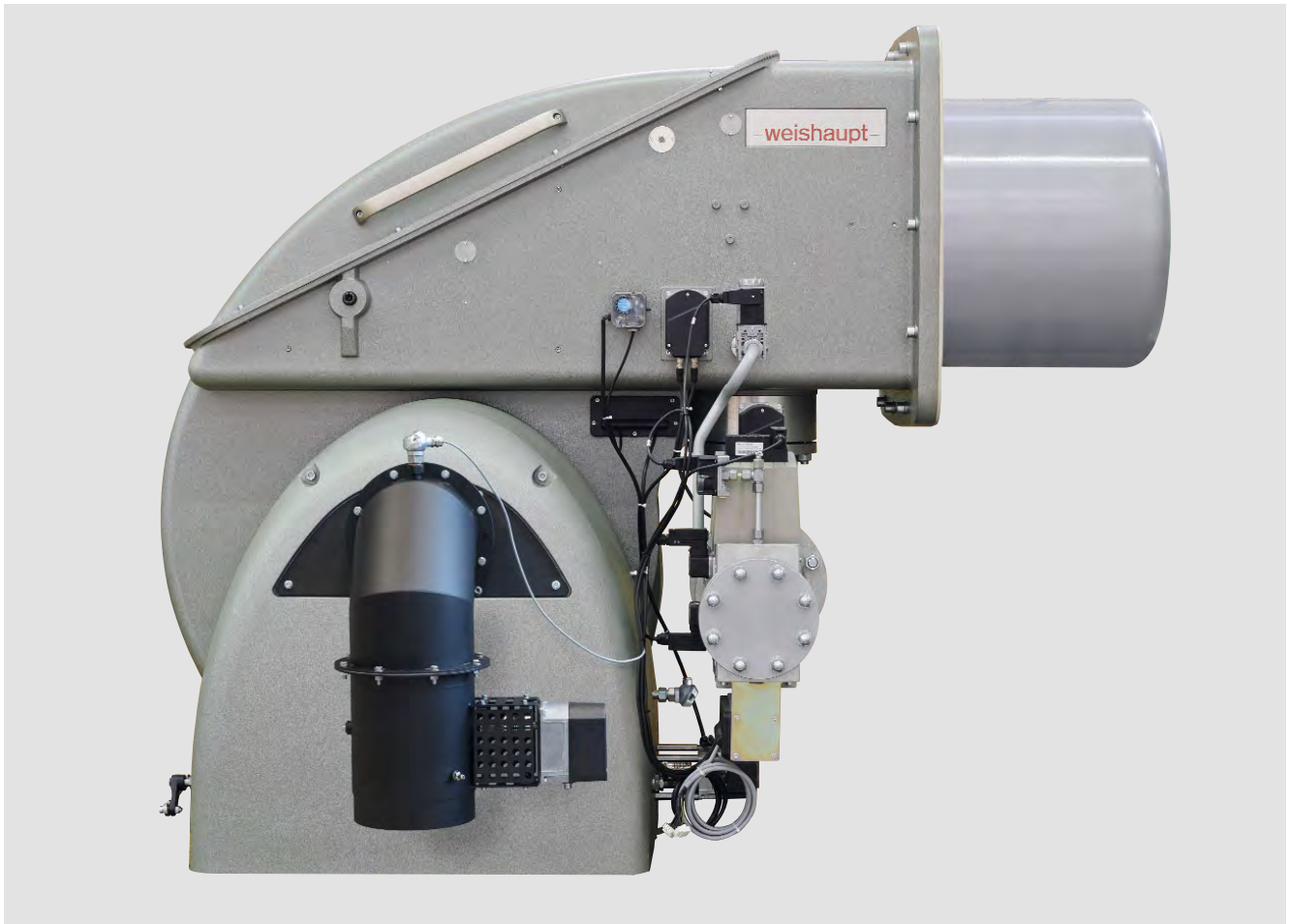


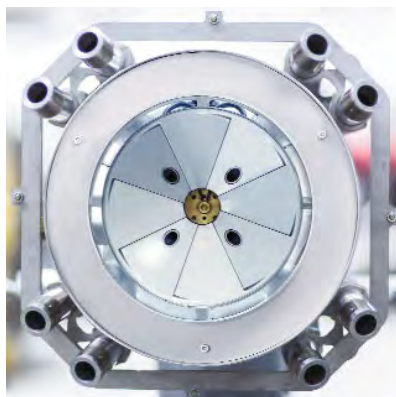
# Very high capacity, very low emissions: The 4LN-version WKmono 80



*WKmono-G80 with flue gas recirculation*



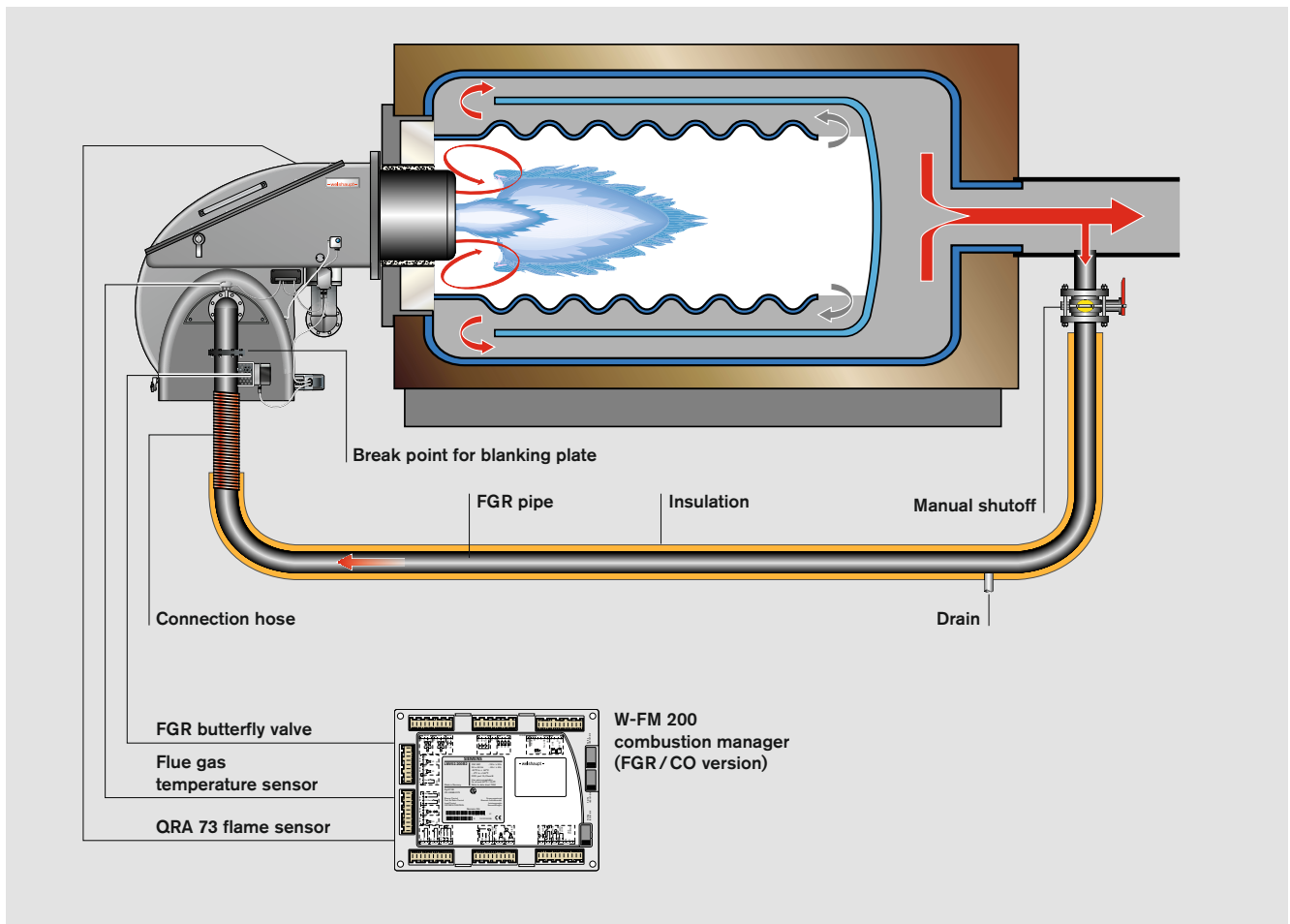
*FGR connecting bend with actuator and Pt100*



*Gas-firing multiflam® mixing assembly*

## **Flexibility with flue gas recirculation**

Where stringent emission limits for oxides of nitrogen are in force, Weishaupt's multiflam® mixing assemblies for gas-fired burners can be combined with flue gas recirculation. Weishaupt takes advantage of the special properties of the flame geometry, and with it the adaption to the combustion chamber, to reduce NO<sub>x</sub> levels.



General arrangement of a flue gas recirculation system with a WKmono-series burner

**The multiflam® principle developed and patented by Weishaupt is a way to reduce nitrogen oxide emissions to a minimum.**

At the heart of Weishaupt's multiflam® technology is a special mixing assembly design, which distributes the fuel among primary and secondary nozzles. This results in extremely efficient combustion thanks to recirculation of the flue gases directly at the mixing assembly.

If a specific market demands ultra-low NO<sub>x</sub> emissions, Weishaupt combines multiflam® technology with external flue gas recirculation. This system, which is designed for gaseous fuels, reduces NO<sub>x</sub> emissions to levels that will meet the most stringent of standards worldwide.

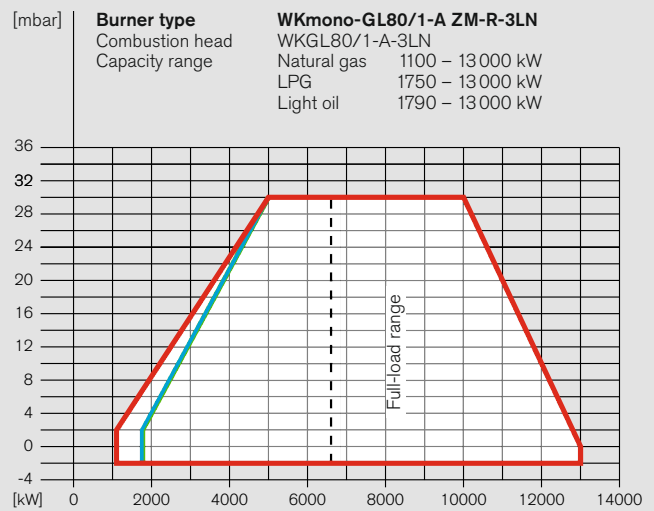
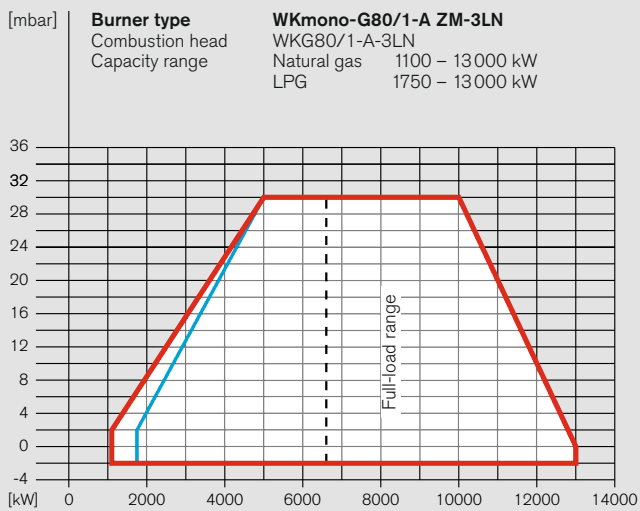
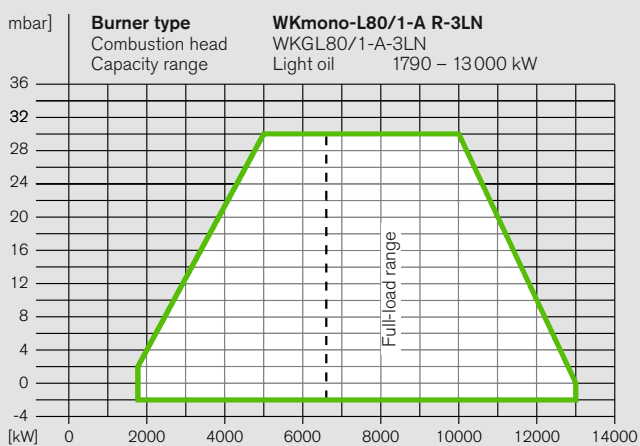
The compact FGR dosing unit is worth highlighting. The connecting bend incorporates the FGR butterfly valve and the associated temperature sensor. This packaged assembly allows the

system to be fully tested at the factory and avoids additional installation work on site.

The FGR system is controlled by the W-FM 200 combustion manager. An additional software module ensures the return of a temperature-compensated volume of flue gas at all operating stages, reliable cold start behaviour, and the highest degree of operational availability.

# Burner selection

## WKmono 80, vers. R-3LN, ZM-3LN, & ZM-R-3LN



- Natural gas
- LPG
- Light oil

**Turndown:** Natural gas max. 10:1  
 LPG max. 7:1  
 Light oil max. 5:1

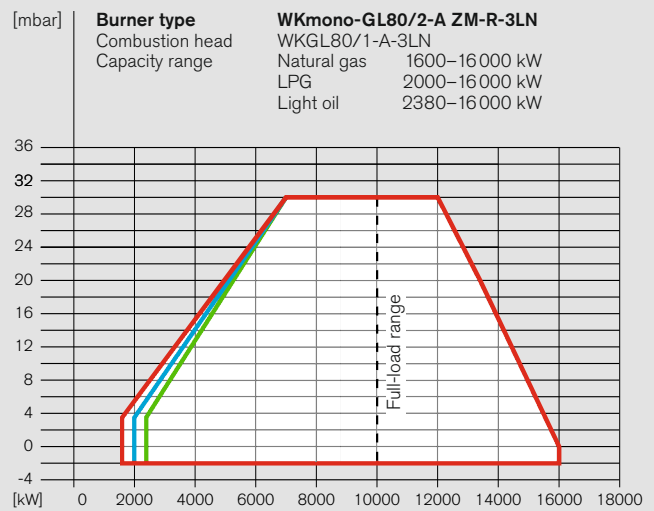
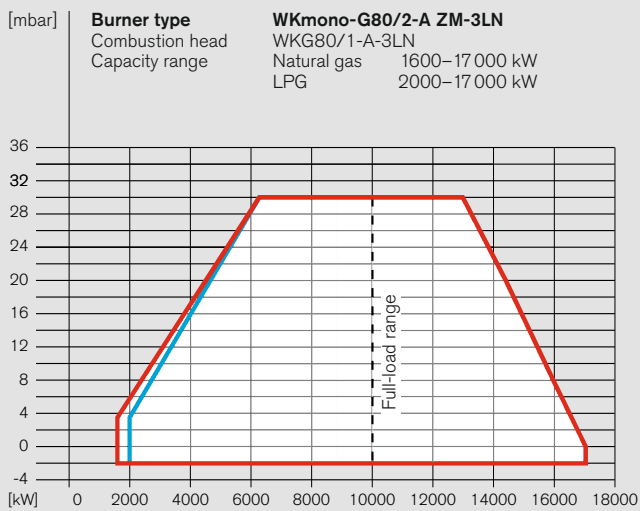
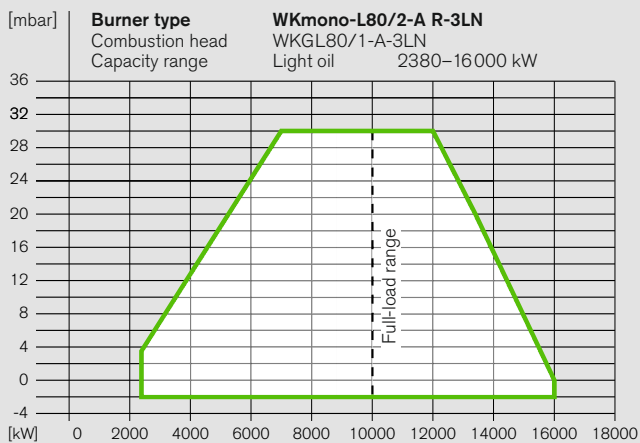
Capacity graphs for oil burners certified in accordance with EN 267.

Stated ratings are based on an air temperature of 20 °C and an installation altitude of 500 m above sea level.

Capacity graphs for gas and dual-fuel burners certified in accordance with EN 676 and EN 267.

Stated ratings are based on an air temperature of 20 °C and an installation at sea level. For installations at higher altitudes, a reduction in capacity of 1 % per 100 m above sea level should be taken into account.

Capacity is reduced for burners equipped with flue gas recirculation. The extent of the reduction is calculated individually for every application.



— Natural gas  
 — LPG  
 — Light oil

**Turndown:** Natural gas max. 10:1  
 LPG max. 8:1  
 Light oil max. 5:1

Capacity graphs for oil burners certified in accordance with EN 267.

Stated ratings are based on an air temperature of 20 °C and an installation altitude of 500 m above sea level.

Capacity graphs for gas and dual-fuel burners certified in accordance with EN 267 and EN 676.

Stated ratings are based on an air temperature of 20 °C and an installation at sea level. For installations at higher altitudes, a reduction in capacity of 1 % per 100 m above sea level should be taken into account.

Capacity is reduced for burners equipped with flue gas recirculation. The extent of the reduction is calculated individually for every application.

# Order numbers

## Oil burners, version R-3LN (multiflam®)

Burner type	Version	Order No.
WKmono-L80/1-A	R-3LN	281 814 20
WKmono-L80/2-A	R-3LN	281 824 20

**DIN CERTCO:** 5G1057

## Gas burners, version ZM-3LN (multiflam®)

Burner type	Version	Valve train size	Order No.
WKmono-G80/1-A	ZM-3LN	DN 100	287 814 26
		DN 125	287 814 27
		DN 150	287 814 28
WKmono-G80/2-A	ZM-3LN	DN 100	287 824 26
		DN 125	287 824 27
		DN 150	287 824 28

**CE-PIN:** CE-0085 CQ 4017

## Dual-fuel burners, version ZM-R-3LN (multiflam®)

Burner type	Version	Valve train size	Order No.
WKmono-GL80/1-A	ZM-R-3LN	DN 100	288 814 26
		DN 125	288 814 27
		DN 150	288 814 28
WKmono-GL80/2-A	ZM-R-3LN	DN 100	288 824 26
		DN 125	288 824 27
		DN 150	288 824 28

**DIN CERTCO:** 5G1056M

**CE-PIN:** CE-0085 CQ 4017

# Gas valve train sizing

## WKmono-G(L)80, versions ZM-3LN & ZM-R-3LN

WKmono-G80/1-A version ZM-3LN							WKmono-GL80/2-A version ZM-R-3LN						
Burner rating kW	Low-pressure supply (LP1) (flow pressure in mbar into shut-off valve)			High-pressure supply (HP) (flow pressure in mbar into gas valve assembly)			Burner rating kW	Low-pressure supply (LP1) (flow pressure in mbar into shut-off valve)			High-pressure supply (HP) (flow pressure in mbar into gas valve assembly)		
	Nominal valve train diameter			Nominal valve train diameter				Nominal valve train diameter			Nominal valve train diameter		
	100	125	150	100	125	150		100	125	150	100	125	150
	Nominal diameter of gas butterfly			Nom. diameter of gas b'fly				Nominal diameter of gas butterfly			Nom. diameter of gas b'fly		
	150	150	150	150	150	150		150	150	150	150	150	150
<b>Natural gas E</b> LHV = 10.35 kWh/Nm <sup>3</sup> ; d = 0.606							<b>Natural gas E</b> LHV = 10.35 kWh/Nm <sup>3</sup> ; d = 0.606						
6600	113	96	87	88	82	80	6600	113	96	87	88	82	80
7000	120	101	91	93	86	83	7000	120	101	91	93	86	83
8000	140	114	102	105	95	92	8000	140	114	102	105	95	92
9000	161	128	113	117	105	100	9000	161	128	113	117	105	100
10000	183	143	124	130	115	109	10000	183	143	124	130	115	109
11000	222	173	150	157	139	133	11000	222	173	150	157	139	133
12000	262	204	177	186	164	156	12000	262	204	177	186	164	156
13000	-	235	203	214 So	189	180	13000	-	235	203	214 So	189	180
<b>Natural gas LL</b> LHV = 8.83 kWh/Nm <sup>3</sup> ; d = 0.641							<b>Natural gas LL</b> LHV = 8.83 kWh/Nm <sup>3</sup> ; d = 0.641						
6600	151	125	113	116	107	103	6600	151	125	113	116	107	103
7000	160	132	118	122	111	107	7000	160	132	118	122	111	107
8000	186	149	131	136	122	117	8000	186	149	131	136	122	117
9000	214	167	145	152	134	128	9000	214	167	145	152	134	128
10000	245	186	159	168	146	138	10000	245	186	159	168	146	138
11000	-	226	192	204	178	168	11000	-	226	192	204	178	168
12000	-	-	227	241 So	210	199	12000	-	-	227	241 So	210	199
13000	-	-	-	280 So	243 So	230 So	13000	-	-	-	280 So	243 So	230 So
<b>LPG*</b> LHV = 25.89 kWh/Nm <sup>3</sup> ; d = 1.555							<b>LPG*</b> LHV = 25.89 kWh/Nm <sup>3</sup> ; d = 1.555						
6600	82	74	71	70	67	66	6600	82	74	71	70	67	66
7000	85	77	73	72	69	68	7000	85	77	73	72	69	68
8000	94	83	78	78	74	72	8000	94	83	78	78	74	72
9000	103	90	83	83	78	77	9000	103	90	83	83	78	77
10000	125	108	100	101	95	93	10000	125	108	100	101	95	93
11000	148	129	119	121	113	111	11000	148	129	119	121	113	111
12000	176	152	141	143	134	131	12000	176	152	141	143	134	131
13000	207	179	166	169	159	155	13000	207	179	166	169	159	155

So → High-pressure regulator for  $p_0 \leq 350$  mbar.

\* The LPG charts are based on propane, but may also be used for butane.

**Stated flow pressures are based on a combustion chamber resistance of 0 mbar. The combustion chamber pressure of the heat generator must be added to the figure determined from the above chart when sizing the gas valve train.**

For low-pressure supplies, EN 88-compliant governors with safety diaphragms are used.

For high-pressure supplies, an EN 334-compliant high-pressure regulator should be selected from the following technical booklets:

- Regulators up to 4 bar, Print No. 83001202
- Regulators with safety devices, Print No. 83197902

Refer to the burner's rating plate for the maximum connection pressure.

### Flanged

DN 100	DMV 5100/12
DN 125	VDG 40.125
DN 150	VDG 40.150

# Gas valve train sizing

## WKmono-G80, version ZM-3LN

WKmono-G80/2-A version ZM-3LN							WKmono-G80/2-A version ZM-3LN						
Burner rating kW	Low-pressure supply (LP1) (flow pressure in mbar into shutoff valve)			High-pressure supply (HP) (flow pressure in mbar into gas valve assembly)			Burner rating kW	Low-pressure supply (LP2, LP3) (flow pressure in mbar into shutoff valve)			SKP25 setting press. (Pressure in mbar at the flanged bend)		
	<b>Nominal valve train diameter</b>			<b>Nominal valve train diameter</b>				<b>Nominal valve train diameter</b>					
	100 125 150			100 125 150				125 150					
	Nominal diameter of gas butterfly			Nom. diameter of gas b'fly				Nominal diameter of gas butterfly					
	150	150	150	150	150	150		150	150	150	150	150	
<b>Natural gas E</b> LHV = 10.35 kWh/Nm <sup>3</sup> ; d = 0.606							<b>Natural gas E</b> LHV = 10.35 kWh/Nm <sup>3</sup> ; d = 0.606						
10 000	159	118	99	105	90	85	10 000	103	93	75			
11 000	178	129	106	113	95	89	11 000	110	99	77			
12 000	199	141	114	123	101	93	12 000	118	105	79			
13 000	228	160	128	139	114	105	13 000	134	118	88			
14 000	260	182	145	158	128	118	14 000	151	133	99			
15 000	295	204	162	177	144	132	15 000	169	148	110			
16 000	-	228	179	197	159	145	16 000	188	164	121			
17 000	-	252	197	218 So	175	159	17 000	207	180	131			
<b>Natural gas LL</b> LHV = 8.83 kWh/Nm <sup>3</sup> ; d = 0.641							<b>Natural gas LL</b> LHV = 8.83 kWh/Nm <sup>3</sup> ; d = 0.641						
10 000	216	158	130	139	118	110	10 000	135	121	96			
11 000	244	173	140	152	126	116	11 000	146	129	99			
12 000	274	190	151	165	134	123	12 000	158	138	102			
13 000	-	217	171	188	151	138	13 000	179	156	114			
14 000	-	248	194	214 So	172	156	14 000	203	176	129			
15 000	-	279	217	241 So	192	174	15 000	228	197	143			
16 000	-	-	241	268 So	213 So	193	16 000	254	218	157			
17 000	-	-	266	297 So	234 So	211 So	17 000	280	240	171			
<b>LPG*</b> LHV = 25.89 kWh/Nm <sup>3</sup> ; d = 1.555							<b>LPG*</b> LHV = 25.89 kWh/Nm <sup>3</sup> ; d = 1.555						
10 000	116	99	91	92	86	84	10 000	93	89	80			
11 000	126	106	97	98	91	88	11 000	98	94	83			
12 000	137	113	102	105	96	93	12 000	104	99	87			
13 000	153	125	112	115	104	101	13 000	114	107	94			
14 000	174	142	127	131	119	114	14 000	129	122	107			
15 000	199	162	145	150	136	131	15 000	148	139	122			
16 000	226	184	164	170	154	148	16 000	167	157	138			
17 000	251	203	181	188	170	164	17 000	185	174	153			

So → High-pressure regulator for  $p_0 \leq 350$  mbar.

\* The LPG charts are based on propane, but may also be used for butane.

**Stated flow pressures are based on a combustion chamber resistance of 0 mbar. The combustion chamber pressure of the heat generator must be added to the figure determined from the above chart when sizing the gas valve train.**

For low-pressure supplies, EN 88-compliant governors with safety diaphragms are used.

For high-pressure supplies, an EN 334-compliant high-pressure regulator should be selected from the following technical booklets:

- Regulators up to 4 bar, Print No. 83001202
- Regulators with safety devices, Print No. 83197902

Refer to the burner's rating plate for the maximum connection pressure.

### Flanged

DN 100	DMV 5100/12
DN 125	VDG 40.125
DN 150	VDG 40.150

# Gas valve train sizing WKmono-GL80, version ZM-R-3LN

WKmono-GL80/2-A version ZM-R-3LN							WKmono-GL80/2-A version ZM-R-3LN				
Burner rating kW	Low-pressure supply (LP1) (flow pressure in mbar into shutoff valve)			High-pressure supply (HP) (flow pressure in mbar into gas valve assembly)			Burner rating kW	Low-pressure supply (LP2, LP3) (flow pressure in mbar into shutoff valve)			SKP25 setting press. (Pressure in mbar at the flanged bend)
	Nominal valve train diameter 100 125 150			Nominal valve train diameter 100 125 150				Nominal valve train diameter 125 150			
	Nominal diameter of gas butterfly 150 150 150			Nom. diameter of gas b'fly 150 150 150				Nominal diameter of gas butterfly 150 150			
<b>Natural gas E</b> LHV = 10.35 kWh/Nm <sup>3</sup> ; d = 0.606							<b>Natural gas E</b> LHV = 10.35 kWh/Nm <sup>3</sup> ; d = 0.606				
10000	159	118	99	105	90	85	10000	103	93	75	
11000	178	129	106	113	95	89	11000	110	99	77	
12000	199	141	114	123	101	93	12000	118	105	79	
13000	228	160	128	139	114	105	13000	134	118	88	
14000	260	182	145	158	128	118	14000	151	133	99	
15000	295	204	162	177	144	132	15000	169	148	110	
16000	-	228	179	197	159	145	16000	188	164	121	
<b>Natural gas LL</b> LHV = 8.83 kWh/Nm <sup>3</sup> ; d = 0.641							<b>Natural gas LL</b> LHV = 8.83 kWh/Nm <sup>3</sup> ; d = 0.641				
10000	216	158	130	139	118	110	10000	135	121	96	
11000	244	173	140	152	126	116	11000	146	129	99	
12000	274	190	151	165	134	123	12000	158	138	102	
13000	-	217	171	188	151	138	13000	179	156	114	
14000	-	248	194	214 So	172	156	14000	203	176	129	
15000	-	279	217	241 So	192	174	15000	228	197	143	
16000	-	-	241	268 So	213 So	193	16000	254	218	157	
<b>LPG*</b> LHV = 25.89 kWh/Nm <sup>3</sup> ; d = 1.555							<b>LPG*</b> LHV = 25.89 kWh/Nm <sup>3</sup> ; d = 1.555				
10000	116	99	91	92	86	84	10000	93	89	80	
11000	126	106	97	98	91	88	11000	98	94	83	
12000	137	113	102	105	96	93	12000	104	99	87	
13000	153	125	112	115	104	101	13000	114	107	94	
14000	174	142	127	131	119	114	14000	129	122	107	
15000	199	162	145	150	136	131	15000	148	139	122	
16000	226	184	164	170	154	148	16000	167	157	138	

So → High-pressure regulator for p<sub>0</sub> ≤ 350 mbar.

\* The LPG charts are based on propane, but may also be used for butane.

**Stated flow pressures are based on a combustion chamber resistance of 0 mbar. The combustion chamber pressure of the heat generator must be added to the figure determined from the above chart when sizing the gas valve train.**

For low-pressure supplies, EN 88-compliant governors with safety diaphragms are used.

For high-pressure supplies, an EN 334-compliant high-pressure regulator should be selected from the following technical booklets:

- Regulators up to 4 bar, Print No. 83001202
- Regulators with safety devices, Print No. 83197902

Refer to the burner's rating plate for the maximum connection pressure.

## Flanged

DN 100	DMV 5100/12
DN 125	VDG 40.125
DN 150	VDG 40.150



# Scope of delivery

Description	WKmono-L80 version R-3LN	WKmono-G80 version ZM-3LN	WKmono-GL80 version ZM-R-3LN
Burner housing, housing cover, burner motor, air inlet housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, combustion manager with control unit, flame sensor, actuators, flange gasket, fixing screws	●	●	●
Digital combustion manager W-FM 100 W-FM 200	● ○	● ○	● ○
Valve proving via the combustion manager	–	●	●
Class-A double gas valve assembly	–	●	●
Gas butterfly valve	–	●	●
Air pressure switch	●	●	●
Low gas pressure switch High gas pressure switch	– –	● ●	● ●
Modulating mixing assembly	●	●	●
Actuators for compound regulation of fuel and air via W-FM: Air damper actuator Gas butterfly valve actuator Oil regulator actuator Mixing assembly actuator	● – ● ●	● ● – ●	● ● ● ●
Oil pressure switch in return Oil pressure switch in supply	● ●	– –	● ●
Supply and return with 2 oil solenoid valves, oil regulator, nozzle head, preinstalled nozzles	●	–	●
Oil pump fitted to burner	–	–	–
IP 54 protection	●	●	●

**EN 676 stipulates that ball valves, gas filters, and gas pressure regulators form part of the burner supply (see Weishaupt accessories list). Please enquire or see the special equipment section of this brochure for further burner executions.**

- Standard
- Optional

## Special equipment WKmono 80, vers. R-3LN, ZM-3LN, & ZM-R-3LN

Burner	WKmono-L80 version R-3LN	WKmono-G80 version ZM-3LN	WKmono-GL80 version ZM-R-3LN
W-FM 100 supplied loose	○	○	○
Integral load controller and analogue signal convertor for W-FM 100	○	○	○
W-FM 200 in lieu of W-FM 100, with integral load controller, analogue signal convertor, and VSD module (burner mounted)	○	○	○
W-FM 200 in lieu of W-FM 100, with integral load controller, analogue signal convertor, and VSD module (supplied loose)	○	○	○
W-FM 200 with extended O <sub>2</sub> trim / CO control functionality	○	○	○
110 V control voltage	○	○	○
Flue gas recirculation (requires W-FM 200 with extended functionality)	–	○	○
W-FC 4.0 flame monitoring	○	○	○
W-FC 5.0 flame monitoring	○	○	○
W-FC 6.0 flame monitoring	–	○	○
ABE with Chinese-character display, supplied loose	○	○	○
VSD with separate frequency convertor (W-FM 200 required) (See accessories list for frequency convertor)	○	○	○
Pt1000 air temperature sensor for combustion efficiency display with W-FM 200 and O <sub>2</sub> trim	○	○	○
Solenoid valve for air pressure switch test with continuous-run fan or post-purge	○	○	○
Low-pressure variant 2 (LP2)	–	○	○
Low-pressure variant 3 (LP3)	–	○	○
0–40 bar pressure gauge with ball valve in supply	○	–	○
0–40 bar pressure gauge with ball valve in return	○	–	○
Separate pump station	○	–	○
Inverted air inlet (air supply from above)	○	○	○
Air inlet positioned at an angle other than 0° or 180°	Please enquire	Please enquire	Please enquire
Air inlet with LGW air pressure switch for ducted extraneous air supply	○	○	○
Combustion head extension			
by 150 mm	○	○	○
by 300 mm	○	○	○

Please enquire regarding further special equipment, or refer to the price list.

**Country-specific executions and special voltages on application.**

# Technical data

## WKmono 80, vers. R-3LN, ZM-3LN, & ZM-R-3LN

Fuel-independent		WKmono 80/1-A	WKmono 80/2-A
Burner motor 400V, 3~, 50 Hz <sup>1)2)</sup>	type	AF 225M/2L - 24LS 45K0	AF 225M/2L - 24LS 45K0
Motor power output	kW	45	45
Nominal current	A	70	75
Motor protection switch <sup>2)</sup> or motor prefusing <sup>2)</sup>	type (e.g.) Star-delta DOL	NZMN1-M80 100 A gG (by others) 160 A gG (by others)	NZMN1-M80 100 A gG (by others) 160 A gG (by others)
Speed (50 Hz)	rpm	2955	2955
Combustion manager Prefusing	type A	W-FM 100 16 A B	W-FM 100 16 A B
Air damper actuator	type	SQM48 (20 Nm)	SQM48 (20 Nm)
Mixing assembly actuator	type	SQM48 (35 Nm)	SQM48 (35 Nm)

Oil		WKmono-L80/1-A R-3LN	WKmono-L80/2-A R-3LN
Ignition unit	type	W-ZG02 (2-pole)	W-ZG02 (2-pole)
Flame monitoring	type	QRA 73	QRA 73
Oil actuator	type	SQM48 (20 Nm)	SQM48 (20 Nm)
NO <sub>x</sub> Class per EN 267		3	3
Mass	kg	915	925
Maximum weight moment	kNm	10	10
Oil solenoid valves 110–120 V DN 20 (supply) 20 W 110–120 V DN 20 (return) 20 W	type type	5406 NC 5407 NC	5406 NC 5407 NC
Oil press. switch 0–25 bar (supply – 18 bar) 1–10 bar (return, light oil – 5 bar)	type type	DSB 158 DSB 146	DSB 158 DSB 146

Gas		WKmono-G80/1-A ZM-3LN	WKmono-G80/2-A ZM-3LN
Ignition unit	type	W-ZG02 (2-pole)	W-ZG02 (2-pole)
Ignition gas valve	type	SV-D 507	SV-D 507
Ignition gas valve (LP3)	type	–	VGG10 with SKP15
Flame monitoring	type	QRA 73	QRA 73
Gas actuator	type	SQM45 (3 Nm)	SQM45 (3 Nm)
NO <sub>x</sub> Class per EN 676		3	3
Mass (excl. double gas valve assembly and fittings)	kg	885	895
Maximum weight moment	kNm	10	10
Mass of the double gas valve assembly incl. ignition gas valve and connection pieces	DN kg	100 approx. 61	125 approx. 51
			150 approx. 70

Dual-fuel		WKmono-GL80/1-A ZM-R-3LN	WKmono-GL80/2-A ZM-R-3LN
Ignition unit	type	W-ZG02 (2-pole)	W-ZG02 (2-pole)
Ignition gas valve	type	SV-D 507	SV-D 507
Ignition gas valve (LP3)	type	–	VGG 10 with SKP15
Flame monitoring	type	QRA 73	QRA 73
Actuators	gas oil	SQM45 (3 Nm) SQM48 (20 Nm)	SQM45 (3 Nm) SQM48 (20 Nm)
NO <sub>x</sub> Class per EN 676/EN 267		3/3	3/3
Mass (excl. double gas valve assembly and fittings)	kg	915	925
Maximum weight moment	kNm	10	10
Oil solenoid valves	110–120 V DN 20 (supply) 20 W 110–120 V DN 20 (return) 20 W	type type	5406 NC 5407 NC
Oil press. switch	0–25 bar (supply – 18 bar) 1–10 bar (return, light oil – 5 bar)	type type	DSB 158 DSB 146

**Notes**

<sup>1)</sup> The electrical motors are premium-efficiency IE3 motors in accordance with Commission Regulation (EC) No. 640/2009

<sup>2)</sup> The necessary motor starter and protection must be fitted in a control panel.

**Voltages and frequencies:**

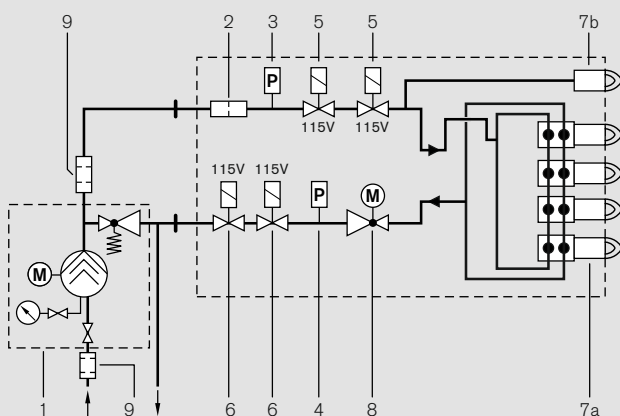
Other voltages and frequencies are available on application.

**Standard burner motor:**

Insulation Class F, IP 55 protection.

## Oil-side fuel system

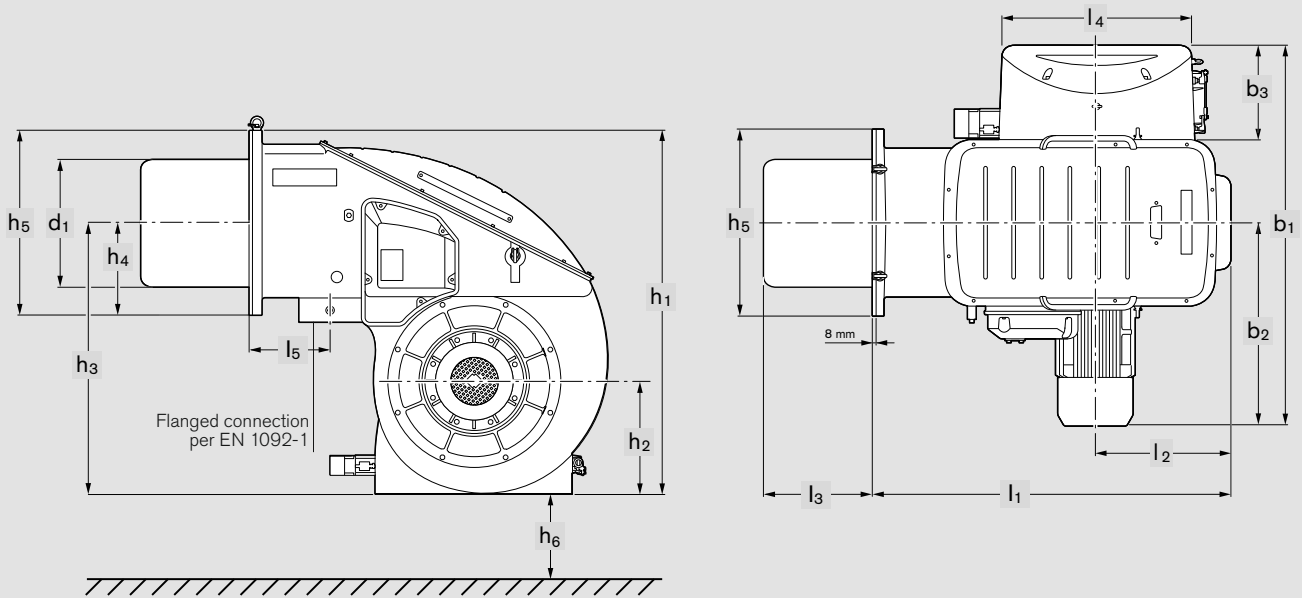
### Versions R-3LN and ZM-R-3LN



- 1 External pump with pressure maintenance
- 2 Strainer
- 3 Min. oil pressure switch
- 4 Max. oil pressure switch
- 5 Supply solenoid valve (fitted in direction of flow)
- 6 Return solenoid valve (fitted against direction of flow)
- 7a Hydraulic nozzle head with secondary nozzles
- 7b Nozzle assembly with primary nozzle
- 8 Oil regulator
- 9 100 µm filter (accessory)

# Dimensions

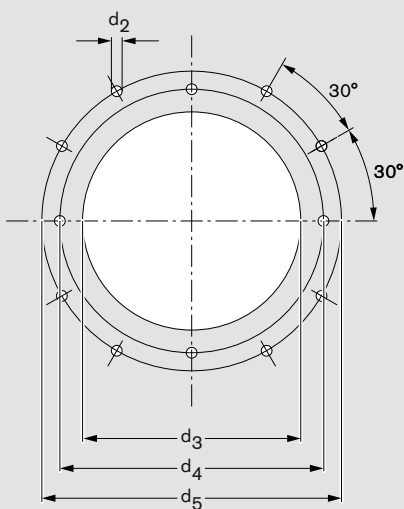
## Standard housing configuration



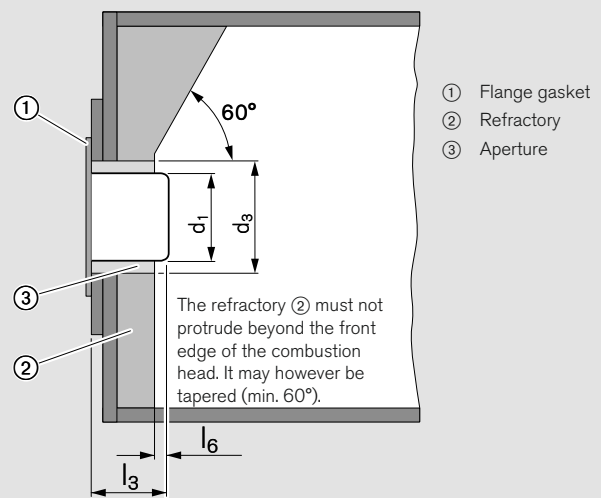
Burner type	Dimensions in mm												
	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>
<b>WKmono-L80/1-A R</b>	1635	615	425	900	368	≥ 0	1732	925	543	1661	515	1236	456
<b>WKmono-L80/2-A R</b>	1635	615	500	900	368	≥ 0	1732	925	543	1661	515	1236	456
<b>WKmono-G80/1-A ZM-NR</b>	1635	615	425	900	368	≥ 0	1732	925	543	1661	515	1236	456
<b>WKmono-G80/2-A ZM-NR</b>	1635	615	500	900	368	≥ 0	1732	925	543	1661	515	1236	456
<b>WKmono-GL80/1-A ZM-R-NR</b>	1635	615	425	900	368	≥ 0	1732	925	543	1661	515	1236	456
<b>WKmono-GL80/2-A ZM-R-NR</b>	1635	615	500	900	368	≥ 0	1732	925	543	1661	515	1236	456
<b>WKmono-L80/1-A R-3LN</b>	1635	615	452	900	368	≥ 50	1732	925	543	1661	515	1236	456
<b>WKmono-L80/2-A R-3LN</b>	1635	615	510	900	368	≥ 70	1732	925	543	1661	515	1236	456
<b>WKmono-G80/1-A ZM-3LN</b>	1635	615	452	900	368	≥ 50	1732	925	543	1661	515	1236	456
<b>WKmono-G80/2-A ZM-3LN</b>	1635	615	510	900	368	≥ 70	1732	925	543	1661	515	1236	456
<b>WKmono-GL80/1-A ZM-R-3LN</b>	1635	615	452	900	368	≥ 50	1732	925	543	1661	515	1236	456
<b>WKmono-GL80/2-A ZM-R-3LN</b>	1635	615	510	900	368	≥ 70	1732	925	543	1661	515	1236	456

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

### Mounting-plate drilling dimensions



### Heat generator preparation



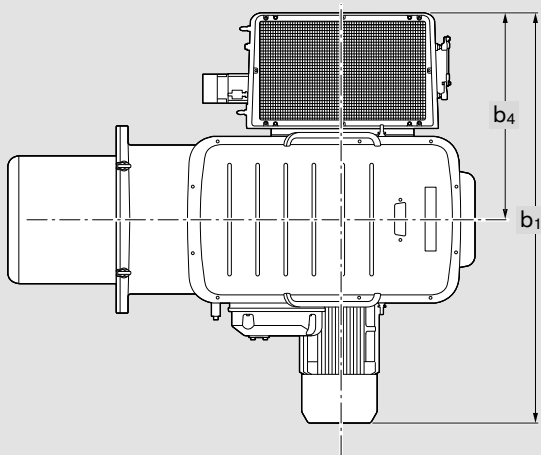
Burner type	Dimensions in mm							Nominal diameter of gas butterfly
	$h_5$	$h_6$	$d_1$	$d_2$	$d_3$	$d_4$	$d_5$	
WKmono-L80/1-A R	850	200	485	M16	530	770	875	–
WKmono-L80/2-A R	850	200	590	M16	640	770	875	–
WKmono-G80/1-A ZM-NR	850	200	485	M16	530	770	875	DN150
WKmono-G80/2-A ZM-NR	850	200	590	M16	640	770	875	DN150
WKmono-GL80/1-A ZM-R-NR	850	200	485	M16	530	770	875	DN150
WKmono-GL80/2-A ZM-R-NR	850	200	590	M16	640	770	875	DN150
WKmono-L80/1-A R-3LN	850	200	480	M16	640	770	875	–
WKmono-L80/2-A R-3LN	850	200	540	M16	640	770	875	–
WKmono-G80/1-A ZM-3LN	850	200	480	M16	640	770	875	DN150
WKmono-G80/2-A ZM-3LN	850	200	540	M16	640	770	875	DN150
WKmono-GL80/1-A ZM-R-3LN	850	200	480	M16	640	770	875	DN150
WKmono-GL80/2-A ZM-R-3LN	850	200	540	M16	640	770	875	DN150

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

# Dimensions

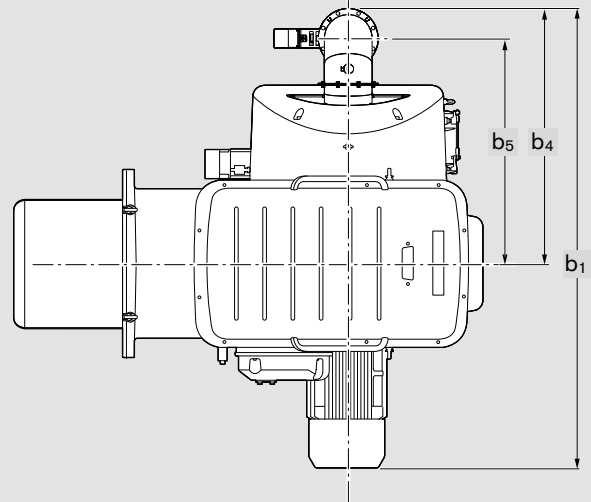
## Air inlet with ducted-air flange

Inverted air inlet



WKmono 80 burner	Dimensions in mm	
	b <sub>1</sub>	b <sub>4</sub>
with ducted-air flange	1892	967

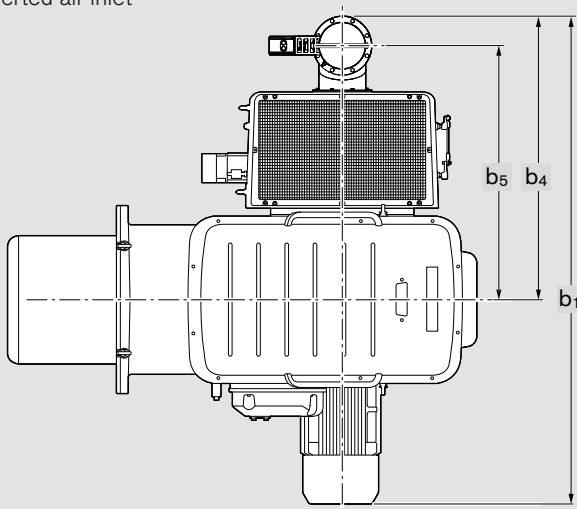
## Air inlet with FGR connecting bend



WKmono 80 burner	Dimensions in mm		
	b <sub>1</sub>	b <sub>4</sub>	b <sub>5</sub>
with FGR connecting bend	2085	1160	1023

## Air inlet with ducted-air flange and FGR connecting bend

Inverted air inlet

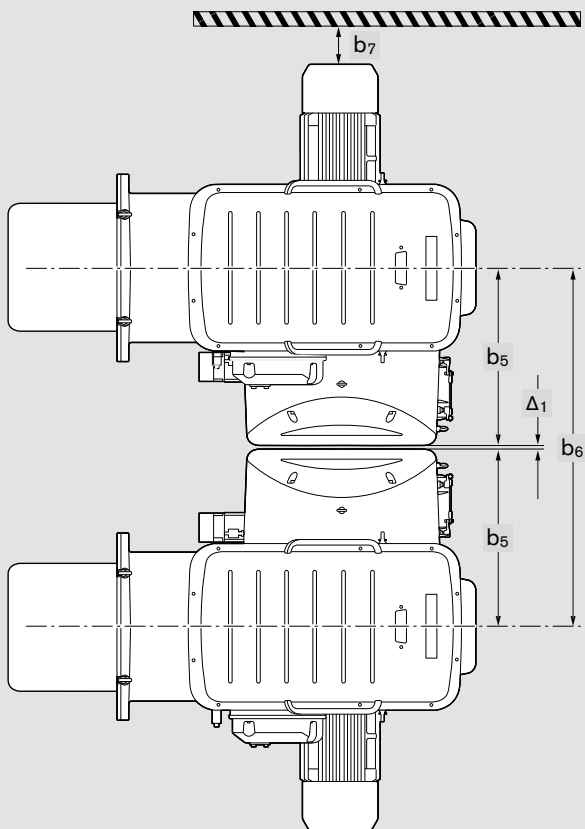


WKmono 80 burner	Dimensions in mm		
	b <sub>1</sub>	b <sub>4</sub>	b <sub>4</sub>
with ducted-air flange and FGR bend	2245	1320	1183

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

**Minimum clearances with multiple burners**

Burners without ducted-air flange



WKmono 80 burner	Dimensions in mm			
	$b_5$	$b_{6(min)}$	$b_7$	$\Delta_1$
without ducted-air flange	807	1650	25* / 250**	35

\*) Minimum clearance for air cooling of the burner motor

\*\*) Servicing dimension (please enquire regarding smaller clearances)

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