product

Information on oil, gas and dual fuel burners



Weishaupt Industrial Burners: Flexible and reliable

For more than 50 years, Weishaupt industrial burners have set global standards in terms of reliability, energy efficiency, noise levels and ease of use.

With firing rate between 3,400 and 40,000 MBH, the spectrum of application possibilities covers from heating and steam boilers to air heaters and modern high efficiency boilers.

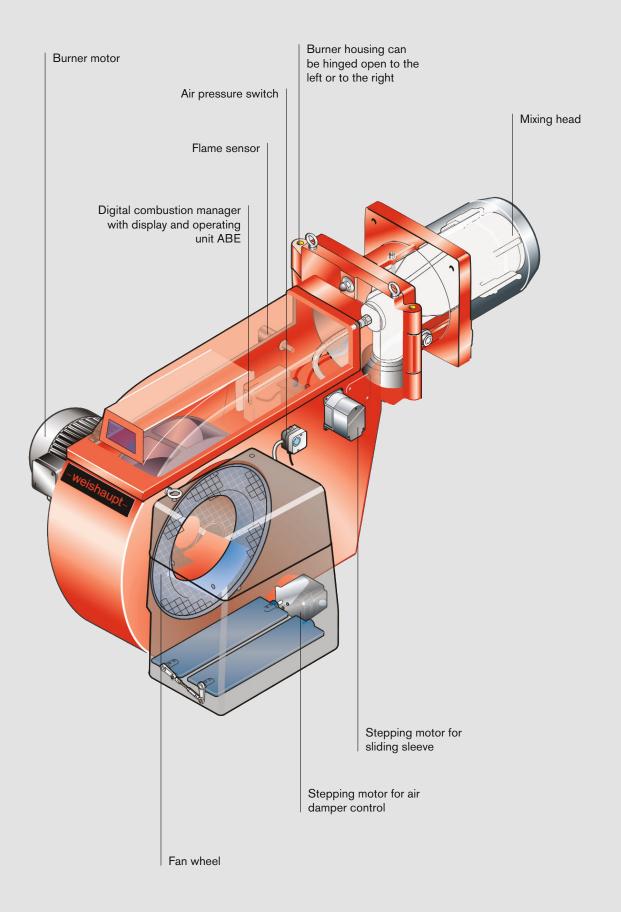
With its wide range of industrial burners, which can be used with almost any gaseous or liquid fuel, Weishaupt has the right burner for virtually any job.

Digital combustion management, included as standard with industrial burners, contributes not only to the economical use of oil and gas, but also simplifies the operation and servicing of the burner. Moreover, the integration into various monitoring and control systems and into complete building management systems is made possible.

The clear layout of the burners with their easily accessible components enables quick and reliable service and therefore also faster commissioning.

Selected materials combined with experience gained over decades in a modern research and development centre and an extensive service network guarantee Weishaupt proverbial reliability.





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Weishaupt industrial burners sizes 30 to 70 High capacity and flexible application range

Weishaupt industrial burners have been especially designed for industrial applications. The monobloc burners are noteworthy for their large capacity and operational ranges and numerous technical details:

Flexible application range

The burners can be used on heat exchangers such as hot water boilers, steam boilers, air heaters and for certain process applications. As the burners are capable of overcoming high combustion chamber resistances, they are primarily used on high efficiency boilers.

Digital combustion management

Digital combustion management ensures simple and safe operation of combustion application. All important functions, such as fuel and air supply or flame monitoring are controlled with digital precision. Operational functions are optimized, economy is maximized and emissions are minimized. The integral ModBus interface allows communication with building automization/ management system.

Energy saving with speed control and O_2 trim

Electrical consumption is definitely a cost factor for large combustion application.

Speed control uses frequency drive to match fan speed to the actual air requirement, allowing for significant savings of electricity, particularly at low fire. With O₂ trim the flue gases are continuously monitored and controlled to ensure the best possible degree of combustion efficiency and thus lower fuel consumption and increased reliability.

Applicable fuels

- Light oil #2 viscosity up to 6 cSt (6 mm²/s) at 68F (20 °C) to ASTM D396
- Medium #4 to heavy fuel #6 oil viscosity up to 50 cSt (50 mm²/s at 212F (100 °C) to ASTM D396
- Natural Gas
- Propane

Permissible ambient conditions:

- Ambient temperature
- -10 to +40 °C (14 to 104F)
- -15 to +40 °C (5 to 104F)
- Air humidity: max. 80% relative humidity, no condensation
- Suitable only for indoor operation
- For installation in unheated rooms under some circumstances special solutions are required (contact Weishaupt)

Any discrepancy from the above described applications requires written confirmation from Weishaupt Corporation. The maintenance interval could be shortened according to conditions where the burners are installed.

Approvals

The burners are in compliance with most North American and European applicable standards.

Outstanding service

Weishaupt maintains an extensive global sales and service network. Customer service is available every day around the clock. In-house training by Weishaupt ensures the high standard of their service engineers.

The most important advantages:

- Large capacity and application range
- Stable fan characteristics
- Good combustion behaviour
- Burner housing can be hinged open
- Easy installation, commissioning and service
- Increased safety provided by nozzle head shut off device with dedicated nozzle shut off solenoid
- Nozzle circulation and precise oil temperature regulation on heavy fuel oil burners
- Compliance with current emission standards worldwide
- High turndown ratio (RL, RGL)

Characteristics of the different variations

Version Standard

Oil, gas and dual fuel burners for installations without specific NO_x requirements. Suitable for Natural Gas, Propane, #2 - #6 oil, as well as special gases and special oils on request.

Version NR

Gas and dual fuel burners with advanced, standard mixing head for applications where there is NO_x requirements on gas side. NR means: lower NO_x emission on gas side compared to the standard version. Oil side as standard version. Suitable for Natural Gas, Propane, #2 - #6 oil.

Version 1LN

LowNO_x gas and dual fuel burners with special mixing head for applications, where there are requirements for lower NO_x emission on gas and oil side. 1LN means: lower NO_x values compared to version NR.

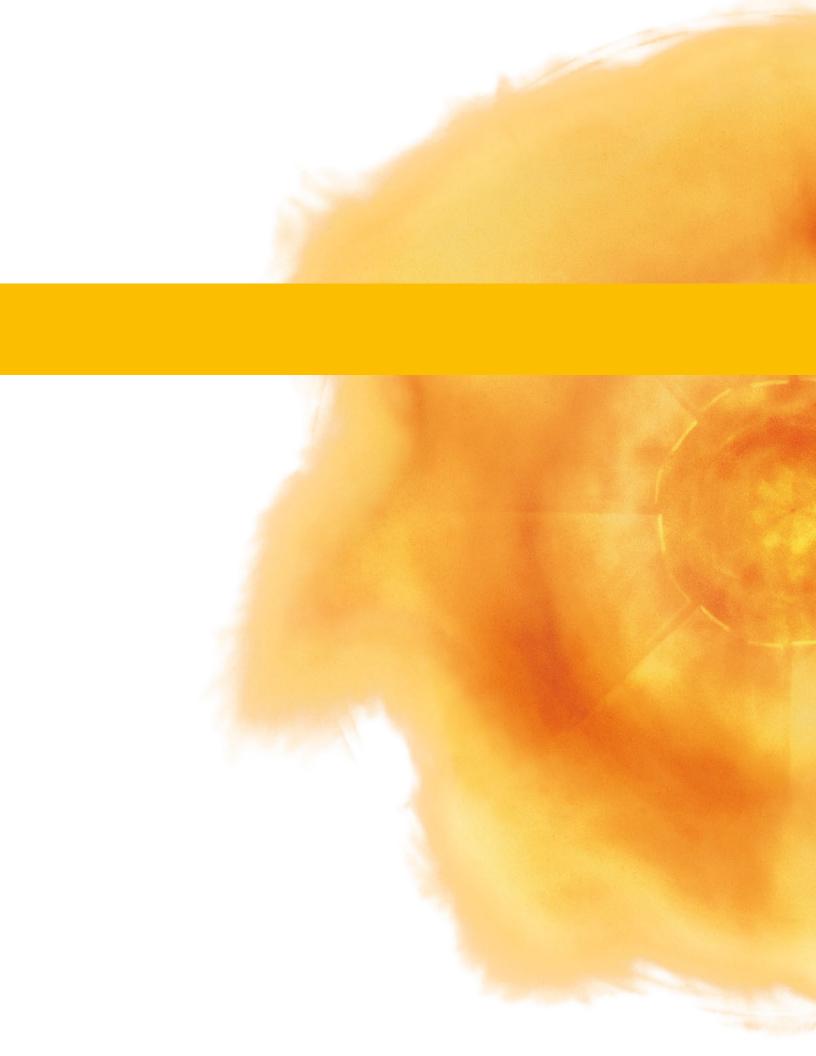
Suitable for Natural Gas, Propane, #2

Version LN

 $LowNO_x$ gas burners with special mixing head for installations where there is requirement for lower NO_x emission on gas operation. Lower NO_x value compared to vers. 1LN. Suitable for Natural Gas and Propane.

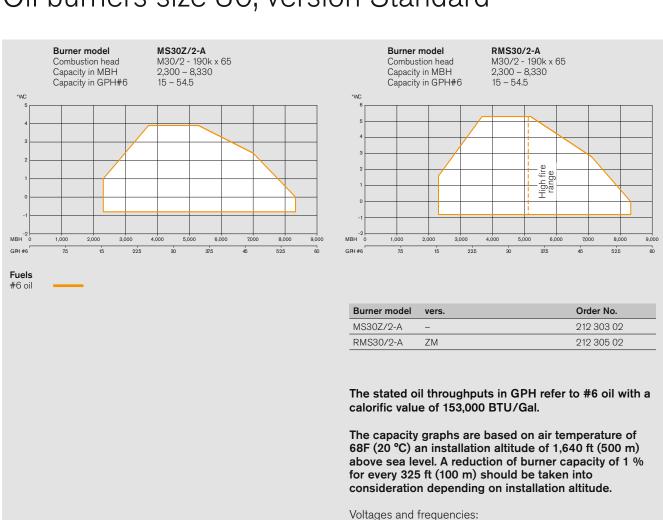
Version 3LN

LowNO_x gas and dual fuel burners with patented multiflam mixing head for installations with more stringent low NO_x requirements. Low NO_x values are achieved by fuel distribution method. Suitable for Natural Gas, Propane and #2 oil.





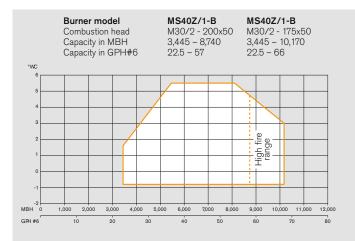
Burner selection Oil burners size 30, version Standard

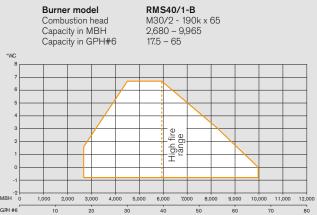


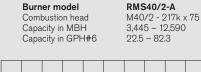
The burners are equipped with three phase motor in 208 -600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Burner selection Oil burners size 40, version Standard





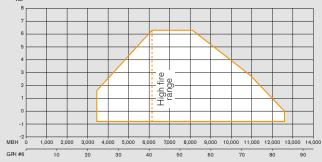


Fuels

#6 oil

Burner model	Vers.	Order No.
MS40Z/1-B	-	212 402 00
RMS40/1-B	ZM	212 404 00
RMS40/2-A	ZM	212 405 02

The stated oil throughputs in GPH refer to #6 oil with a



The capacity graphs are based on air temperature of 68F (20 °C) an installation altitude of 1,640 ft (500 m) above sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

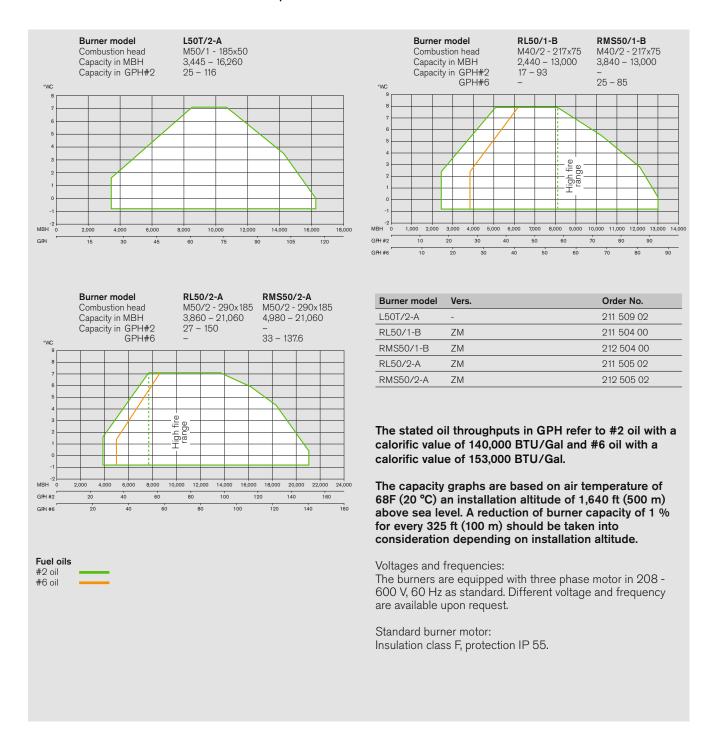
Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

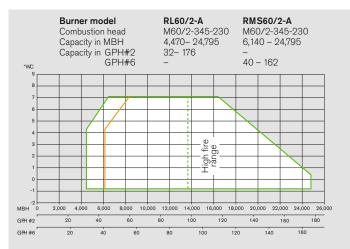
Standard burner motor: Insulation class F, protection IP 55.

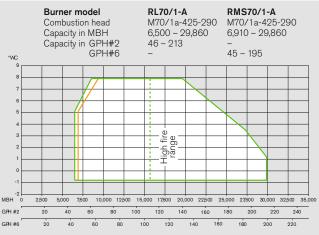
calorific value of 153,000 BTU/Gal.

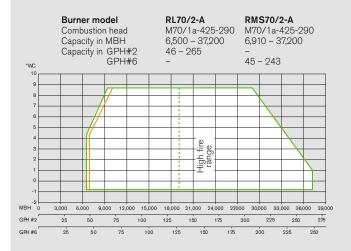
Burner selection Oil burners size 50, version Standard



Burner selection Oil burners size 60 and 70, version Standard







Burner model	Vers.	Order No.
RL60/2-A	ZM	211 605 02
RMS60/2-A	ZM	212 605 02
RL70/1-A	ZM	211 704 02
RMS70/1-A	ZM	212 704 02
RL70/2-A	ZM	211 705 02
RMS70/2-A	ZM	212 705 02

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal and #6 oil with a calorific value of 153,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 °C) an installation altitude of 1,640 ft (500 m) above sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

#6 oil	

Fuels

Scope of delivery/Accessories Oil burners size 30 to 70, version Standard

Scope of delivery	MS30	MS40	RMS30	RMS40	RMS50	RMS60	RMS70	L50	RL50	RL60	RL70
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air intake housing fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes nozzle assembly with oil nozzle/s, combustion manager with operating unit, flame sensor, stepping motors, flange gasket,						_					
limit switch on hinge flange, fixing screws Combustion manager W-FM100	_	_	•	•	•	•	•	•	•	•	•
Air pressure switch		_				•	•	_	_		_
Oil pressure switch in return	•	•	•	•	•	•	•	•	•	•	•
Oil pressure switch in supply				_	_	•	•	_	_	_	_
Adjustable regulating sleeve in mixing head	•	_	_	_	_	_	_	_	_	_	_
Sliding sleeve in mixing head		_	•	•	•	•	•	_	•	•	•
Oil pump, fitted	•	•	•	•	•	_	_	•	•	•	•
Oil preheater, fitted	•	•	•	•	•	_	_	-	_	_	-
Oil hoses	•	•	•	•	•	•	•	•	•	•	•
3 oil solenoid valves, 1 safety shut off valve, three stage nozzle head without shut off device	_	_	_	_	_	_	_	•	_	_	_
in normally closed solenoid valve in supply and return, nozzle head with shut off device (nozzle solenoid on RL and RMS, hydraulically controlled ball valve on MS)	•	•	•	•	•	_	_	_	•	•	•
I normally closed solenoid valve in supply and return, bypass solenoid valve, nozzle head with shut off device (nozzle solenoid)	_	_	_	-	_	•	•	_	_	_	_
Downward firing version	•	•	•	•	•	•	•	•	•	•	•
Heating cartridges	•	•	•	•	•	•	•	-	-	-	-
Accessories											
Intake flange for connection of air duct	0	0	0	0	0	0	0	0	0	0	0
Stainless steel oil hoses, heated	0	0	0	0	0	0	0	-	-	-	-
Magnetic coupling	_	-	0	0	0	-	_	0	0	0	0
Combustion head extension	0	0	0	0	0	0	0	0	0	0	0
Media preheater with fittings	0	0	0	0	0	0	0	-	-	-	_
Speed control	-	-	0	0	0	0	0	0	0	0	0
O ₂ trim	-	-	0	0	0	0	0	0	0	0	0
W-FM loosed for installation in remote panel	_	_	0	0	0	0	0	0	0	0	0

Technical data Oil burners size 30 and 40, version Standard

		MS30Z/2-A	RMS30/2-A	
)OV	Model HP (kW) A rpm	W-D112/140-2/4K5 6.6 (4.5) 8.6 3,510	W-D112/140-2/4K5 6.6 (4.5) 8.6 3,510	
	Color / ø	red / 248 x 104	red / 248 x 104	
	Model	LAL2.25	W-FM100	
	Model	W-ZG02	W-ZG02	
Air Fuel Mixing head	Model Model Model	1055/80 - -	SQM45 SQM45 SQM45	
	Model	E7	TA3	
Oil throughput GPH and (kg/h) Heat rating kW	Model	EV2D 72 (270) 13.2	EV2D 72 (270) 13.2	
110V 1/8" 110V 1/8" 55V 3/8" (supply) 55V 3/8" (return)	19 W Model 19 W Model 20 W Model 20 W Model	121 K 2423 122 K 9321 321 H 2322 121 G 2320	- - 321 H 2322 121 G 2320	
		_ DSA 46 F001	_ DSA 46 F001	
	n inch and (mm)	20/40" (1000) 20/51" (1300)	20/40" (1000) 20/51" (1300)	
	approx. lbs (kg)	297 (135)	309 (140)	
		MS40Z/1-B	RMS40/1-B	RMS40/2-A
VOV	Model HP (kW) A	W-D112/170-2/5K5 8.6 (6.5) 12 3.530	W-D112/170-2/5K5 8.6 (6.5) 12 3.530	W-D112/170-2/7K0 10.4 (7.8) 14 3,500
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	,	red / 275 x 104
	Model	LAL2.25	W-FM100	W-FM100
	Model	W-ZG02	W-ZG02	W-ZG02
Air Fuel Mixing head	Model Model Model	SQM10 - -	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
	Model	E7	TA3	TA3
Oil throughput in GPH and (kg/h Heat rating kW	Model)	EV2D 75 (270) 13.2	EV2D 75 (270) 13.2	EV2D ^{2) 3)} 75 (270) 13.2
110V 1/8" 110V 1/4" (safety v.) 110V 1/8" 55V 3/8" (supply) 55V 3/8" (return)	19 W Model 20 W Model 19 W Model 20 W Model 20 W Model	121 K 2423 - 122 K 9321 321 H 2322 121 G 2320	- - - 321 H 2322 121 G 2320	- - - 321 H 2322 121 G 2320
		– DSA 46 F001	_ DSA 46 F001	– DSA 46 F001
DN, length in	n inch and (mm)	20/40" (1000)	20/40" (1000)	20/40" (1000)
high pressure metal hoses)		20/51" (1300)	20/51" (1300)	20/51" (1300)
	Air Fuel Mixing head Oil throughput GPH and (kg/h) Heat rating kW 110V 1/8" 55V 3/8" (supply) 55V 3/8" (return) 1 – 10 bar (return fuel oil EL 1 – 10 bar (return fuel oil S DN, length i high pressure metal hoses) OOV Air Fuel Mixing head Oil throughput in GPH and (kg/h Heat rating kW 110V 1/8" 110V 1/8" 110V 1/8" 150V 3/8" (supply) 55V 3/8" (return) 1 – 10 bar (return #2 oil	HP (kW)	HP (kW)	HP (kW)

Technical data Oil burners size 50, version Standard

Technical data				L50T/2-A	RL50/1-B	RL50/2-A
Burner motor 3~208 V · Motor rating FLA at 460V Speed (60 Hz)	600V	HP (k	odel kW) A rpm	W-D132/210-2/14K0 20 (15) 25 3,520	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour .	/ ø	red / 330 x 104.5	red / 330 x 104.5	red / 330 x 104.5
Combustion manager		Мо	odel	W-FM100	W-FM100	W-FM100
Ignition unit		Мо	odel	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Mo	odel odel odel	SQM45 -	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump, fitted		Мо	odel	TA2C	TA4C	T2C
Oil preheater	Oil throughput in GPH and Heat rating kW		odel	- - -	- - -	- - -
Oil solenoid valve	110V 1/8" 110V 1/4" (safety v.) 55V 3/8" (supply) 55V 3/8" (return)	20 W Mo	odel odel odel odel	121 K 2423 (3 off) 121 K 6220 -	- - 321 H 2322 121 G 2320	- - 321 H 2322 121 G 2320
Oil pressure switches		2 oil - 5 bar) Mo 6 oil - 7 bar) Mo	odel odel	_ _	DSA 46 F001	DSA 46 F001 -
Oil hoses	DN, le	ngth in inch and (m	nm)	20/51" (1300)	25/51" (1300)	25/51" (1300)
Burner weight		approx. lbs (l	(kg)	440 (200)	458 (208)	463 (210)

Technical data			RMS50/1-B	RMS50/2-A
Burner motor 3~208 - 60 Motor rating FLA at 460V Speed (60 Hz)	OV	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour / ø	red / 330 x 104.5	red / 330 x 104.5
Combustion manager		Model	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump, fitted		Model	TA4C	T2C
Oil preheater	Oil throughput in GPH and (kg/h) Heat rating kW	Model	WEV2.2/01 ¹⁾ 82.5 (300) 13.8	WEV3/01 137.5 (500) 22.4
Oil solenoid valve	55V 3/8" (supply) 20 V 55V 3/8" (return) 20 V		321 H 2322 121 G 2320	321 H 2322 121 G 2320
Oil pressure switches	1 - 10 bar (return #2 oil - 5 bar 1 - 10 bar (return #6 oil - 7 bar		_ DSA 46 F001	_ DSA 46 F001
Oil hoses (on MS, RMS and RGMS,	DN, length in inch high pressure metal hoses)	and (mm)	25/45" (1150) 25/59" (1500)	25/45" (1150) 25/59" (1500)
Burner weight	appro	x. lbs (kg)	546 (248)	552 (250)

¹⁾ Burners above 82.5 GPH (300 kg/h): Oil preheater WEV3 in lieu of WEV2.2, Refer to 'Accessories'

Technical data Oil burners size 60 and 70, version Standard

	Technical data			RL60/2-A	RMS60/2-A
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	500V	H	Model HP (kW) A rpm	W-D132/210-2/14K0 20 (15) 25 3,520	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Со	lour / ø	red / 465 x 103	red / 465 x 103
Combustion manager			Model	W-FM100	W-FM100
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head		Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump fitted			Model	T2C	-
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return) 110V 3/8" (bypass)	20 W 20 W 19 W	Model Model Model	321 H 2322 121 G 2320 -	321 H 2322 121 G 2320 322 H 7306
Oil pressure switches	1 - 10 bar (return	upply-18 bar) #2 oil-5 bar) #6 oil-7 bar)	Model Model Model	_ DSA 46 F 001 _	DSA 58 F 001 - DSA 46 F 001
Oil hoses (on RMS and RGMS, hig		ngth in inch ar	nd (mm)	25/51" (1300) -	16/45" (1150) 16/59" (1500)
Burner weight		approx.	lbs (kg)	552 (250)	463 (210) ²⁾

Technical data				RL70/1-A	RL70/2-A	RMS70/1-A	RMS70/2-A
Burner motor 3~208 - 600 Motor rating FLA at 460V Speed (60 Hz)	OV	F	Model HP (kW) A rpm	W-D160/215-2/14K0 21.3 (16) 28 3,540	W-D160/240-2/22K0 26.6 (20) 33 3,550	W-D160/215-2/14K0 21.3 (16) 28 3,540	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel		Со	lour / ø	yellow / 475 x 128	green / 530 x 120	yellow / 475 x 128	green / 530 x 120
Combustion manager			model	W-FM100	W-FM100	W-FM100	W-FM100
Ignition unit			model	W-ZG02	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head		model model model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump fitted			model model	T2C (up to 173 GPH. T3C (from 173 GPH.		- -	-
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return) 110V 3/8" (bypass)	20 W 20 W 19 W	Model Model Model	321 H 2322 121 G 2320 -	321 H 2322 121 G 2320 -	321 H 2322 121 G 2320 322 H 7306	321 H 2322 121 G 2320 322 H 7306
Oil pressure switch		(supply-18 bar) eturn #2 oil-5 bar) eturn #6 oil-7 bar)	Model Model Model	_ DSA 46 F 001 _	_ DSA 46 F 001 _	DSA 58 F 001 - DSA 46 F 001	DSA 58 F 001 - DSA 46 F 001
Oil hoses (on RMS and RGMS, high		N, length in inch ar	nd (mm)	25/51" (1300) -	25/51" (1300) -	20/45" (1150) 20/59" (1500)	20/45" (1150) 20/59" (1500)
Burner weight		approx.	lbs (kg)	772 (350)	772 (350)	684 (310) ²⁾	684 (310) ²⁾

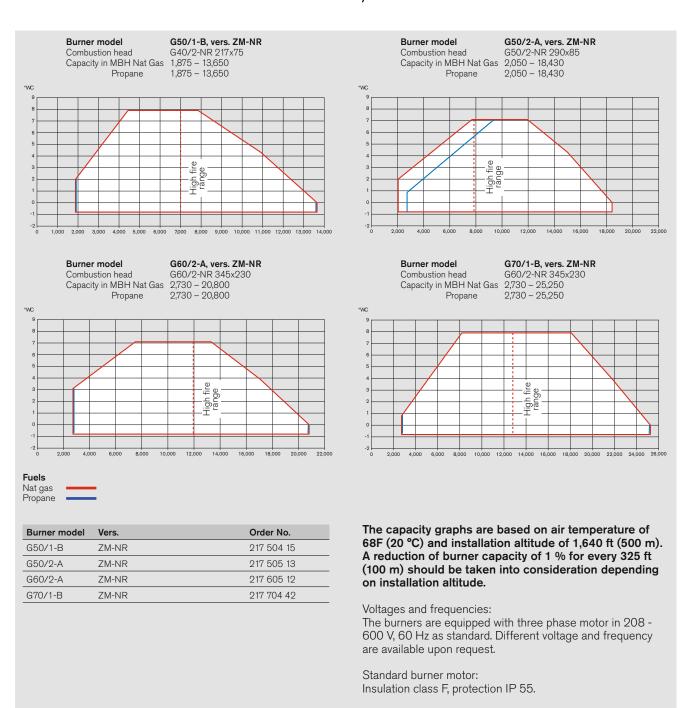
 $^{^{2)}}$ Weight without pump and preheater station



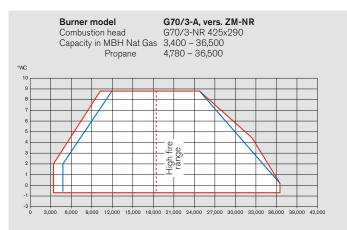


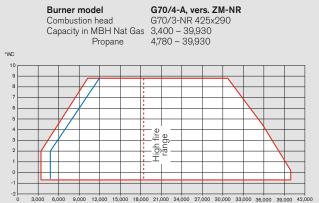


Burner selection Gas burners size 50 to 70, version NR



Burner selection Gas burners size 70, version NR





Fuels Nat gas Propane

Burner model	Vers.	Order No.
G70/3-A	ZM-NR	217 714 14
G70/4-A	ZM-NR	217 734 14

The capacity graphs are based on air temperature of 68F (20 °C) and installation altitude of 1,640 ft (500 m). A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Scope of delivery/Accessories Gas burners size 50 to 70, version NR

Scope of delivery	G50	G60	G70
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrode, combustion manager with operating unit, flame sensor, stepping motors, flange gasket, limit switch			
on hinge flange, fixing screws	•	•	•
Combustion manager W-FM100	•	•	•
Two gas safety shut off valves	•	•	•
Gas butterfly valve	•	•	•
Ignition pilot	•	•	•
Air pressure switch	•	•	•
Gas pressure switches	•	•	•
Servomotor driven sliding sleeve in mixing head	•	•	•
Stepping motor for Gas /Air ratio control with W-FM100 Stepping motor for air damper	•	•	•
Stepping motor for gas butterfly valve	•	•	•
Stepping motor for sliding sleeve	•	•	•
Accessories	0	0	0
Accessories Downward firing burner			0
Accessories Downward firing burner Intake flange for the connection of an air duct	0 0	0 0	
Accessories Downward firing burner	0	0	0
Accessories Downward firing burner Intake flange for the connection of an air duct Solenoid valve for air pressure switch test for cont. run fan or post-purge Combustion head extension	0	0	0
Accessories Downward firing burner Intake flange for the connection of an air duct Solenoid valve for air pressure switch test for cont. run fan or post-purge	0 0	0 0	0 0
Accessories Downward firing burner Intake flange for the connection of an air duct Solenoid valve for air pressure switch test for cont. run fan or post-purge Combustion head extension Speed control	0 0 0	0 0 0	0 0 0

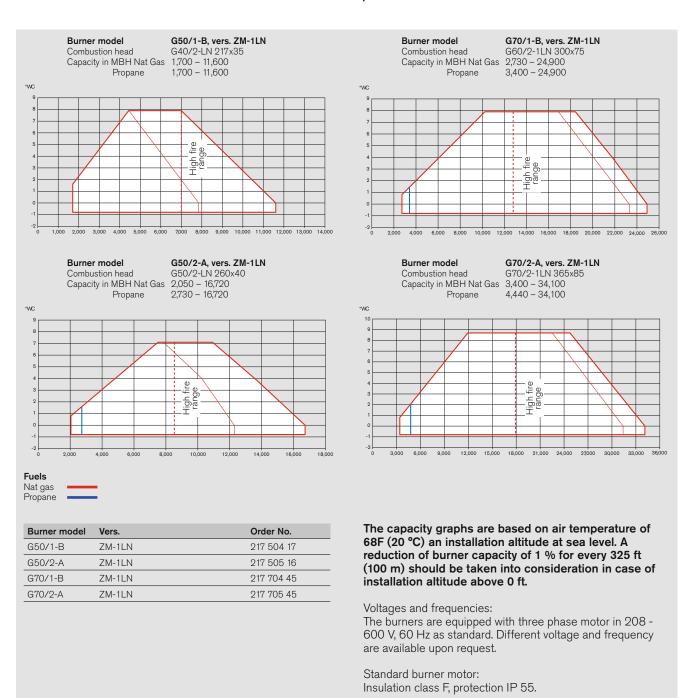
Technical data Gas burners size 50 to 70, version NR

Technical data			G50/1-B	G50/2-A	G60/2-A
Burner motor 3~208 Motor rating FLA at 460V Speed (60 Hz)	- 600V	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour ø	red 330 x 104.5	red 330 x 104.5	red 465 x 103
Combustion manager		Model	W-FM100	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel	Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45	SQM48 SQM45 SQM45
Burner weight		approx. lbs (kg)	408 (185)	408 (185)	606 (275)

Technical data			G70/1-B	G70/3-A	G70/4-A
Burner motor 3~208 Motor rating FLA at 460 V Speed (60/55 Hz)	- 600V	Model HP (kW) A rpm	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550	W-D160/240-2/28K0 37.3 (28) 53 (at 400V) 3220 (55 Hz)
Fan wheel		Colour ø	green 530 x 120	green 530 x120	blue 590 x 160
Combustion manager		Model	W-FM100	W-FM100	W-FM200
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel	Model Model Model	SQM48 SQM45 SQM45	SQM48 SQM48 SQM45	SQM48 SQM48 SQM45
Burner weight		approx. lbs (kg)	860 (390)	860 (390)	860 (390)

 $^{^{\}star}$ Operation at 55 Hz only in conjunction with frequency drive.

Burner selection Gas burners size 50 to 70, version 1LN





Scope of delivery/Accessories/ Technical data Gas burners size 50 and 70, version 1LN

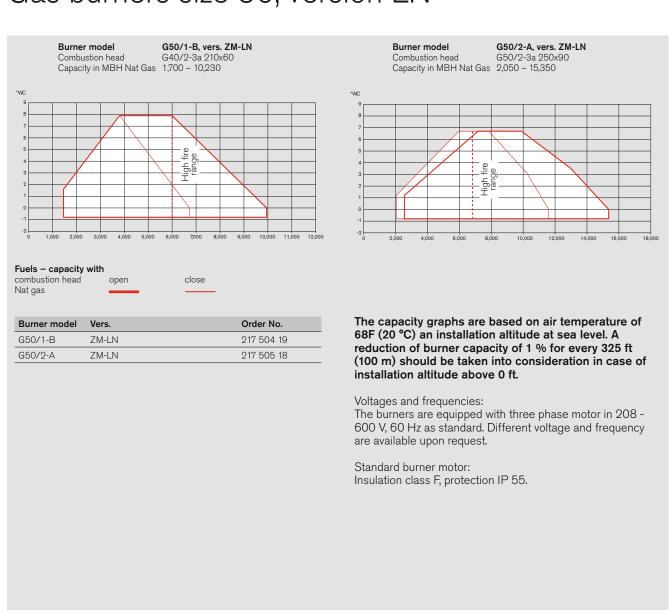
Scope of delivery	G50	G70
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrode, combustion manager with operating unit, flame sensor, stepping motors, flange gasket, limit switch on hinge flange, fixing screws	•	•
Combustion manager W-FM100	•	•
Two gas safety shut off valves	•	•
Gas butterfly valve	•	•
Ignition pilot	•	•
Air pressure switch	•	•
Gas pressure switches	•	•
Adjustable flame tube in mixing head	•	•
Stepping motor for Gas/Air ratio control with W-FM100 Stepping motor for air damper	•	•
Stepping motor for gas butterfly valve	•	•
Accessories		
Downward firing burner	0	0
Intake flange for the connection of an air duct	0	0
Solenoid valve for air pressure switch test for cont. run fan or post-purge	0	0
Combustion head extension	0	0
Speed control	0	0
O_2 trim	0	0
W-FM loosed for installation in remote control panel	0	0

Scope of deliveryAccessories

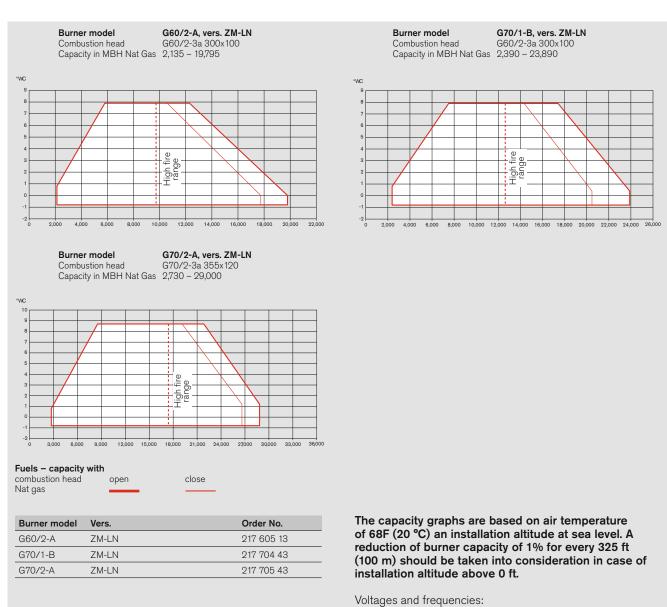
Additional accessories on request.

Technical data			G50/1-B	G50/2-A	G70/1-B	G70/2-A
Burner motor 3~208 - Motor rating FLA at 460V Speed (60 Hz)	600V	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel		Colour ø	red 330 x 104.5	red 330 x 104.5	green 530 x 120	green 530 x 120
Combustion manager		Model	W-FM100	W-FM100	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel	Model Model	SQM45 SQM45	SQM45 SQM45	SQM48 SQM45	SQM48 SQM45
Burner weight		approx. lbs (kg)	408 (185)	408 (185)	860 (390)	860 (390)

Burner selection Gas burners size 50, version LN



Burner selection Gas burners size 60 and 70, version LN



The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Scope of delivery/Accessories Gas burners size 50 to 70, version LN

Scope of delivery	G50	G60	G70
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, combustion manager with operating unit, flame sensor, stepping motors, flange gasket, limit switch on inge flange, fixing screws	•	•	•
Combustion manager W-FM100	•	•	•
wo safety gas shut off valves	•	•	•
Gas butterfly valve	•	•	•
Air pressure switch	•	•	•
Gas pressure switches	•	•	•
Adjustable flame tube in mixing head	•	•	•
Stepping motor for Gas /Air ratio control with W-FM100 Stepping motor for air damper	•	•	•
Stepping motor for gas butterfly valve	•	•	•
Accessories			
	0	0	0
Downward firing burner ntake flange for the connection of an air duct	0	0	0
Combustion head extension	0	0	0
	0	0	0
Speed control	0		
Ω_2 trim W-FM loosed for installation in remote panel	0	0	0
Accessories dditional accessories on request.			



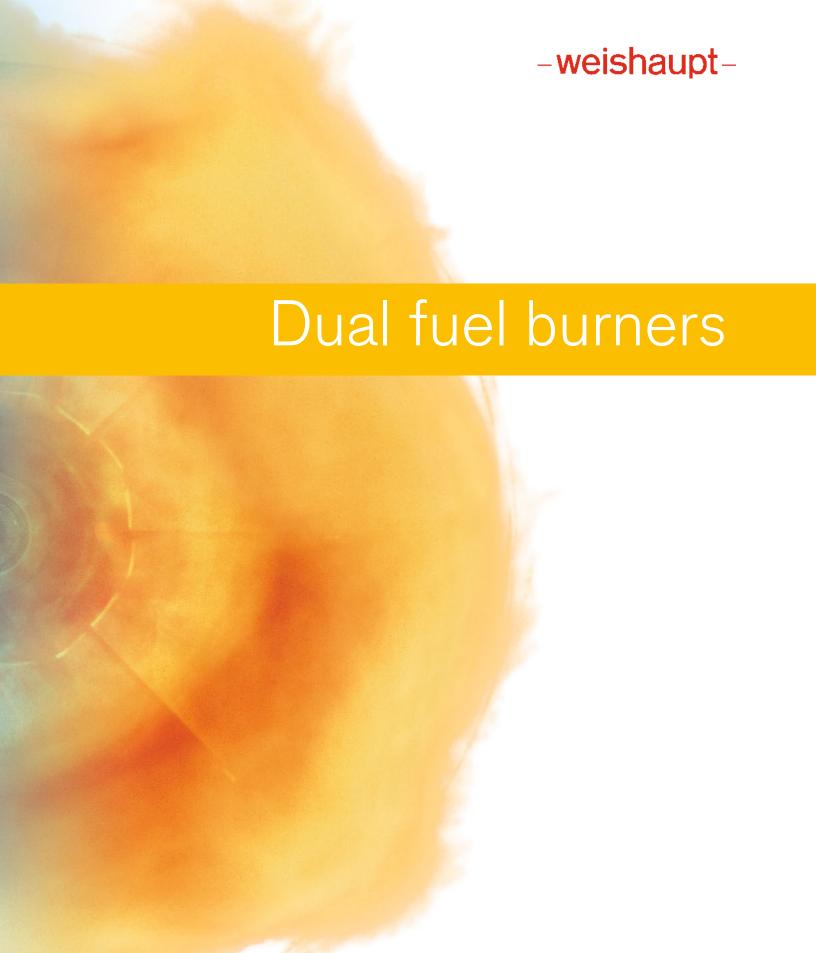
Technical data Gas burners size 50 to 70, version LN

Technical data			G50/1-B	G50/2-A
Burner motor 3~208 Motor rating FLA at 460 V Speed (60 Hz)	- 600V	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour Ø	red 330 x 104.5	red 330 x 104.5
Combustion manager		Model	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel	Model Model	SQM45 SQM45	SQM45 SQM45
Burner weight		approx. lbs (kg)	408 (185)	408 (185)

Technical data			G60/2-A	G70/1-B	G70/2-A
Burner motor 3~208 - Motor rating FLA at 460 V Speed (60 Hz)	- 600V	Model HP (kW) A rpm	W-D132/210-2/14K0 20 (15) 25 3,520	W-D160/215-2/14K0 21.3 (16.0) 28 3,540	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel		Colour ø	red 465 x 103	green 530 x 120	green 530 x 120
Combustion manager		Model	W-FM100	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel	Model Model	SQM48 SQM45	SQM48 SQM45	SQM48 SQM45
Burner weight		approx. lbs (kg)	606 (275)	860 (390)	860 (390)

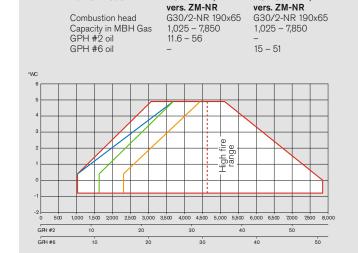






Burner selection Dual fuel burners size 30, version NR

RGMS30/2-A,



RGL30/2-A,

Burner model

Burner model	Vers.	Order No.
RGL30/2-A	ZM-NR	218 305 13
RGMS30/2-A	ZM-NR	219 305 13



The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal and #6 oil with a calorific value of 153,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 °C) and installation altitude of 1,640 ft (500 m). A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

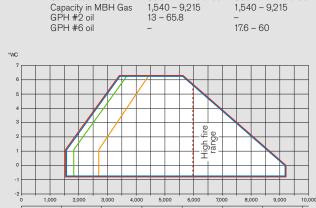
Standard burner motor: Insulation class F, protection IP 55.

Burner selection Dual fuel burners size 40, version NR

RGMS40/1-B,

G30/2-NR 190x58

vers. ZM-NR



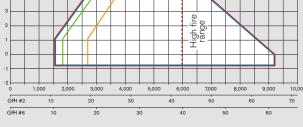
RGL40/1-B,

vers. ZM-NR

G30/2-NR 190x58

Burner model

Combustion head





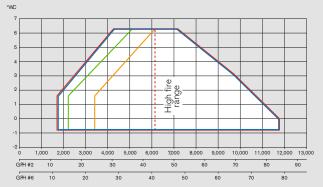
	Burner model	Vers.	Order No.
	RGL40/1-B	ZM-NR	218 404 13
	RGMS40/1-B	ZM-NR	219 404 13
	RGL40/2-A	ZM-NR	218 405 15
	RGMS40/2-A	ZM-NR	219 405 15

Burner model	
Combustion head Capacity in MBH Ga GPH #2 oil	LS
GPH #6 oil	

RGL40/2-A. vers. ZM-NR G40/2-NR 217x75 1,710 - 11,775 15.8 – 84

RGMS40/2-A, vers. ZM-NR G40/2-NR 217x75 1,710 - 11,775

22.3 - 76.9



The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal and #6 oil with a calorific value of 153,000 BTU/Gal.

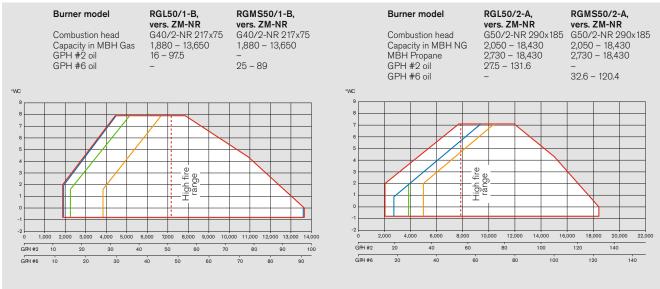
The capacity graphs are based on air temperature of 68F (20 °C) and installation altitude of 1,640 ft (500 m). A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 -600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Burner selection Dual fuel burners size 50, version NR



Fuels
#2 oil
#6 oil
Nat gas
Propane

Burner model	Vers.	Order No.
RGL50/1-B	ZM-NR	218 504 42
RGMS50/1-B	ZM-NR	219 504 42
RGL50/2-A	ZM-NR	218 505 42
RGMS50/2-A	ZM-NR	219 505 42

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal and #6 oil with a calorific value of 153,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 $^{\circ}$ C) and installation altitude of 1,640 ft (500 m). A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor:

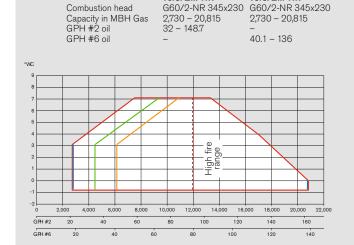
Insulation class F, protection IP 55.



Burner selection Dual fuel burners size 60 and 70, version NR

RGMS60/2-A,

vers. ZM-NR



RGL60/2-A.

vers. ZM-NR



Burner model

	Burner model	Vers.	Order No.
	RGL60/2-A	ZM-NR	218 605 42
	RGMS60/2-A	ZM-NR	219 605 42
	RGL70/1-B	ZM-NR	218 704 42
	RGMS70/1-B	ZM-NR	219 704 42

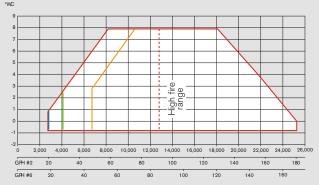
Burner model

Combustion head
Capacity in MBH Gas
GPH #2 oil
GPH #6 oil

RGL70/1-B, vers. ZM-NR G60/2-NR 345x230 2,730 – 25,250 29 – 180

RGMS70/1-B, vers. ZM-NR G60/2-NR 345x230 2,730 – 25,250 –

43.9 - 180



The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal and #6 oil with a calorific value of 153,000 BTU/Gal.

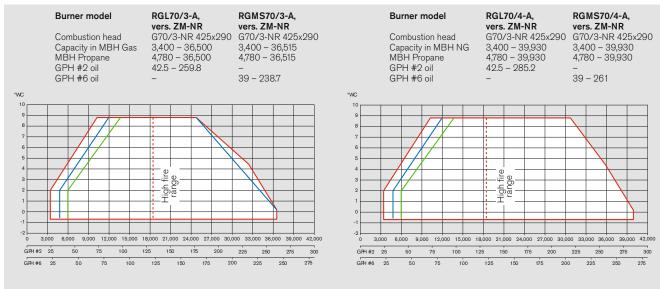
The capacity graphs are based on air temperature of 68F (20 °C) and installation altitude of 1,640 ft (500 m). A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Burner selection Dual fuel burners size 70, version NR



Fuels
#2 oil
#6 oil
Nat gas
Propane

Burner model	Vers.	Order No.
RGL70/3-A	ZM-NR	218 714 14
RGMS70/3-A	ZM-NR	219 714 14
RGL70/4-A	ZM-NR	218 734 14
RGMS70/4-A	ZM-NR	219 734 14

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal and #6 oil with a calorific value of 153,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 °C) and installation altitude of 1,640 ft (500 m). A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor:

Insulation class F, protection IP 55.



Scope of delivery/Accessories Dual fuel burners size 30 to 50, version NR

Scope of delivery	RGMS30	RGMS40	RGMS50	RGL30	RGL40	RGL50
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, nozzle assembly with oil nozzle/s, combustion manager with operating unit, flame sensor, stepping motors, flange gasket, limit switch on hinge flange, fixing screws	•	•	•	•	•	•
Combustion manager W-FM100	•	•	•	•	•	•
Two safety gas shut off valves	•	•	•	•	•	•
Gas butterfly valve	•	•	•	•	•	•
Ignition pilot	•	•	•	•	•	•
Air pressure switch	•	•	•	•	•	•
Oil pressure switch in return	•	•	•	•	•	•
Gas pressure switches	•	•	•	•	•	•
Servomotor driven sliding sleeve in mixing head	•	•	•	•	•	•
Stepping motor for Gas /Air ratio control with W-FM100 Stepping motor for air damper	•	•	•	•	•	•
Stepping motor for gas butterfly valve	•	•	•	•	•	•
Stepping motor for regulating/sliding sleeve	•	•	•	•	•	•
Oil pump, fitted	•	•	•	•	•	•
Oil preheater, fitted	•	•	•	_	_	_
Oil hoses	•	•	•	•	•	•
Two oil solenoid valves in supply and return	_	_	_	•	_	_
1 solenoid valve in supply and in return, nozzle head with shut off device (nozzle solenoid)	•	•	•	_	•	•
Magnetic coupling	•	•	•	•	•	•
Accessories						
Downward firing burner	-	-	0	0	0	0
Intake flange for the connection of an air duct	-	-	0	0	0	0
Solenoid valve for air pressure switch test for cont. run fan or post-purge	-	-	0	0	0	0
Combustion head extension	-	-	0	0	0	0
Speed control	-	_	0	0	0	0
O ₂ trim	-	-	0	0	0	0
W-FM loose to fit into control panel	_	_	0	0	0	0
Separate pump station	0	0	0	0	0	0
Separate preheater station (electric or media)	0	0	0	_	_	_
Scope of delivery Accessories Additional accessories on request.						

Scope of delivery/Accessories Dual fuel burners size 60 and 70, version NR

cope of delivery	RGMS60	RGMS70	RGL60	RGL70
urner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator busing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, ozzle assembly with oil nozzle/s, combustion manager with operating unit, flame sensor, tepping motors, flange gasket, limit switch on hinge flange, fixing screws	•	•	•	•
ombustion manager W-FM100	•	•	•	•
wo safety gas shut off valves	•	•	•	•
as butterfly valve	•	•	•	•
inition pilot	•	•	•	•
ir pressure switch	•	•	•	•
il pressure switch in return	•	•	•	•
as pressure switches	•	•	•	•
ervomotor driven sliding sleeve in mixing head	•	•	•	•
Stepping motor for Gas /Air ratio control with W-FM100 Stepping motor for air damper	•	•	•	•
Stepping motor for gas butterfly valve	•	•	•	•
Stepping motor for regulating/sliding sleeve	•	•	•	•
il pump, fitted	-	-	•	•
il hoses	•	•	•	•
solenoid valve in supply and in return, ozzle head with shut off device (nozzle solenoid)	•	•	•	•
agnetic coupling	•	•	•	•
ownward firing burner	0	0	0	0
ownward firing burner	0	0	0	0
take flange for the connection of an air duct	0	0	0	0
olenoid valve for air pressure switch test for cont. run fan or post-purge	0	0	0	0
ombustion head extension	0	0	0	0
peed control	0	0	0	0
2 trim	0	0	0	0
/-FM loose to fit into control panel	0	0	0	0
eparate pump station	0	0	0	0
eparate preheater station (electric or media)	0	0	-	-
Scope of delivery Accessories ditional accessories on request.				

Technical data Dual fuel burners size 30 and 40, version NR

Technical data			RGL30/2-A	RGMS30/2-A
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	000V	Model HP (kW) A rpm	W-D112/140-2/4K5 6.6 (5.0) 8.6 3,510	W-D112/140-2/4K5 6.6 (5.0) 8.6 3,510
Fan wheel		Colour / ø	red / 248 x 104	red / 248 x 104
Combustion manager		Model	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel	Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump, fitted		Model	TA3	TA3
Oil preheater	Oil throughput Heat rating	Model GPH (kg/h) kW	- - -	EV2D 72 (270) 13.2
Oil solenoid valves	55V 1/4" (supply) 20 V 55V 1/8" (return) 20 V 55V 3/8" (supply) 20 V 55V 3/8" (supply) 20 V	/ Model / Model	121 K 6220 121 K 2423 - -	- - 321 H 2322 121 G 2320
Oil pressure switches	1 – 10 bar (return #2 oil - 5 bar) 1 – 10 bar (return #6 oil - 7 bar)		DSA 46 F001	DSA 46 F001
Oil hoses (on RGMS, high pressure	e metal hoses)	DN, length in inch (mm) DN, lenght in inch (mm)	20/40" (1000) -	_ 20/51" (1300)
Burner weight		approx. lbs (kg)	320 (145)	386 (175)

Technical data				RGL40/1-B	RGMS40/1-B	
Burner motor 3~208 - 60 Motor rating FLA at 460V Speed (60 Hz)	00V		Model HP (kW) A rpm	W-D112/170-2/5K5 8.6 (6.5) 12 3,530	W-D112/170-2/5K5 8.6 (6.5) 12 3,530	
Fan wheel			Colour / ø	red / 275 x 104	red / 275 x 104	
Combustion manager			Model	W-FM100	W-FM100	
Ignition unit			Model	W-ZG02	W-ZG02	
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45	
Pump, fitted			Model	TA3	TA3	
Oil preheater	Oil throughput Heat rating		Model GPH (kg/h) kW	- - -	EV2D 75 (270) 13.2	
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return)	20 W 20 W	Model Model	321 H 2322 121 G 2320	321 H 2322 121 G 2320	
Oil pressure switches	1 – 10 bar (return fuel 1 – 10 bar (return fuel		Model Model	DSA 46 F001	_ DSA 46 F001	
Oil hoses (on RGMS, high pressure	metal hoses)		ength in inch (mm) ength in inch (mm)	20/40" (1000) -	_ 20/51" (1300)	
Burner weight			approx. lbs (kg)	419 (190)	419 (190)	

Technical data Dual fuel burners size 40 and 50, version NR

Technical data				RGL40/2-A	RGMS40/2-A
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	00V	(40/2)	Model HP (kW) A rpm	W-D112/170-2/7K0 10.4 (7.8) 14 3,500	W-D112/170-2/7K0 10.4 (78) 14 3,500
Fan wheel			Colour / ø	red / 275 x 104	red / 275 x 104
Combustion manager			Model	W-FM100	W-FM100
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump, fitted			Model	TA3	TA3
Oil preheater	Oil throughput Heat rating		Model GPH (kg/h) kW	-	EV2D 75 (270) 13.2
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return)	20 W 20 W	Model Model	321 H 2322 121 G 2320	321 H 2322 121 G 2320
Oil pressure switches	1 - 10 bar (return fuel 1 - 10 bar (return fuel		Model Model	DSA 46 F001 -	_ DSA 46 F001
Oil hoses (on RGMS, high pressure	e metal hoses)		ength in inch (mm) ength in inch (mm)	20/40" (1000)	_ 20/51" (1300)
Burner weight			approx. lbs (kg)	419 (190)	419 (190)

Technical data				RGL50/1-B	RGL50/2-A
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	500V	ŀ	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel			Colour ø	red 330 x 104.5	red 330 x 104.5
Combustion manager			Model	W-FM100	W-FM100
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Pump, fitted			Model	TA4C	T2C
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return)	20W 20W	Model Model	321 H 2322 121 G 2320	321 H 2322 121 G 2320
Oil pressure switch	1 - 10 bar (return #2 oil - 5 b	ar)	Model	DSA 46 F001	DSA 46 F001
Oil hoses		DN, length in inch ar	nd (mm)	25/51" (1300)	25/51" (1300)
Burner weight		approx.	lbs (kg)	508 (230)	508 (230)

Technical data Dual fuel burners size 50 and 60, version NR

Technical data			RGMS50/1-B	RGMS50/2-A
Burner motor 3~208 - Motor rating FLA at 460V Speed (60 Hz)	600V	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour ø	red 330 x 104.5	red 330 x 104.5
Combustion manager		Model	W-FM100	W-FM100
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel	Model Model Model	SQM45 SQM45 SQM45	SQM45 SQM45 SQM45
Oil preheater	Oil throughput Heat rating	Model GPH (kg/h) kW	WEV2.2/01 ²⁾ 82.5 (300) 13.8	WEV3/01 137.5 (500) 22.4
Pump, fitted		Model	TA4C	T2C
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return)	20W Model 20W Model	321 H 2322 121 G 2320	321 H 2322 121 G 2320
Oil pressure switch	1 - 10 bar (return #6 oil)	Model	DSA 46 F001	DSA 46 F001
Oil hoses		DN/length	25/59" (1500)	25/59" (1500)
Burner weight		approx. lbs (kg)	672 (305)	672 (305)

 $^{^{2)}}$ Burners above 82.5 GPH (300 kg/h): Oil preheater WEV3 in lieu of WEV2.2 (refer to Accessories)

Technical data				RGL60/2-A	RGMS60/2-A
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	500V	ŀ	Model HP (kW) A rpm	W-D132/210-2/14K0 20 (15) 28 3,520	W-D132/210-2/14K0 20 (15) 28 3,520
Fan wheel			Colour ø	red 465 x 103	red 465 x 103
Combustion manager			Model	W-FM100	W-FM100
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM48 SQM45 SQM45	SQM48 SQM45 SQM45
Pump, fitted			Model	T2C	-
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return) 110V 3/8" (bypass)	20W 20W 19W	Model Model Model	321 H 2322 121 G 2320 -	321 H 2322 121 G 2320 322 H 7306
Oil pressure switches	3 – 25 bar (supply - 18 bar) 1 – 10 bar (return #2 oil - 5 bar) 1 – 10 bar (return #6 oil - 7 bar)		Model Model Model	_ DSA 46 F001 _	DSA 58 F001 - DSA 46 F001
Oil hoses (on RGMS, high pressure		length in inch ar length in inch ar		25/51" (1300) -	- 16/59" (1500)
Burner weight		approx.	lbs (kg)	684 (310)	640 (290) ²⁾

²⁾ Weight without pump and preheater stations

Technical data Dual fuel burners size 70, version NR

Technical data				RGL70/1-B	RGL70/3-A
Burner motor 3~208 - 60 Motor rating FLA at 460V Speed (60 Hz)	0V	ı	Model HP (kW) A rpm	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel			Colour ø	green 530 x 120	green 530 x 120
Combustion manager			Model	W-FM100	W-FM100
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM48 SQM45 SQM45	SQM48 SQM45 SQM45
Pump, fitted			Model Model	T2C (up to 173 GPH/6 T3C (from 173 GPH/6	
Oil solenoid valves	55V 1/2" (supply) 55V 1/2" (return) 110V 3/8" (bypass)	20W 20W 19W	Model	321 H 2522 121 G 2520 -	321 H 2522 121 G 2520 -
Oil pressure switch	3 – 25 bar (supply - 18 ba 1 – 10 bar (return #2 oil - 1 – 10 bar (return #6 oil -	5 bar)	Model Model Model	_ DSA 46 F001 _	_ DSA 46 F001 _
Oil hoses (on RGMS, high pressure	metal hoses) DN, len	gth in inch a gth in inch a gth in inch a	nd (mm)	25/1300 - -	25/1300 - -
Burner weight		approx	. lbs (kg)	948 (430)	948 (430)

Technical data				RGMS70/1-B	RGMS70/3-A	
Burner motor 3~208 - 60 Motor rating FLA at 460V Speed (60 Hz)	00V	ŀ	Model IP (kW) A rpm	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550	
Fan wheel			Colour ø	green 530 x 120	green 530 x 120	
Combustion manager			Model	W-FM100	W-FM100	
Ignition unit			Model	W-ZG02	W-ZG02	
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM48 SQM48 SQM45	SQM48 SQM48 SQM45	
Pump, fitted			Model Model	- -		
Oil solenoid valves	55V 1/2" (supply) 55V 1/2" (return) 110V 3/8" (bypass)	20W 20W 19W	Model Model Model	321 H 2522 121 G 2520 322 H 7306	321 H 2522 121 G 2520 322 H 7306	
Oil pressure switch	3 – 25 bar (supply - 1 – 10 bar (return # 1 – 10 bar (return #	2 oil - 5 bar)	Model Model Model	DSA 58 F001 - DSA 46 F001	DSA 58 F001 - DSA 46 F001	
Oil hoses (on RGMS, high pressure	metal hoses)	N, length in inch ar N, length in inch ar N, length in inch ar	nd (mm)	- 20/1150 20/1500	- 20/1150 20/1500	
Burner weight		approx.	lbs (kg)	848 (385) ²⁾	848 (385) ²⁾	



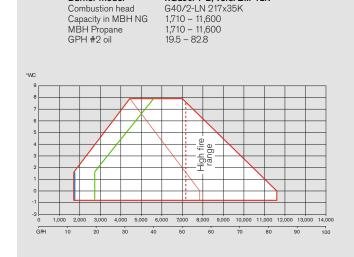
Technical data Dual fuel burners size 70, version NR

Technical data				RGL70/4-A	RGMS70/4-A
Burner motor 3~208 - 60 Motor rating FLA at 400V Speed (55 Hz)	DOV	F	Model IP (kW) A rpm	W-D160/240-2/28K0 37.3 (28) 53 3,220	W-D160/240-2/28K0 37.3 (28) 53 3,220
Fan wheel			Colour ø	blue 590 x 160	blue 590 x 160
Combustion manager			Model	W-FM200	W-FM200
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Mixing head Fuel		Model Model Model	SQM48 SQM48 SQM45	SQM48 SQM48 SQM45
Pump, fitted			Model	T4C	-
Oil solenoid valves	55V 1/2" (supply) 55V 1/2" (return) 110V 3/8" (bypass)	20W 20W 19W	Model Model Model	321 H 2522 121 G 2520 -	321 H 2522 121 G 2520 322 H 7306
Oil pressure switches	3 – 25 bar (supply - 18 ba 1 – 10 bar (return fuel oil 1 – 10 bar (return fuel oil	EL - 5 bar)	Model Model Model	_ DSA 46 F001 _	DSA 58 F001 - DSA 46 F001
Oil hoses (on RGMS, high pressure	metal hoses) DN, lei	ngth in inch ar ngth in inch ar ngth in inch ar	nd (mm)	25/51" (1300) - -	- 20/45" (1150) 20/59" (1500)
Burner weight		ар	prox. kg	948 (430)	848 (385) ²⁾

²⁾ Weight without pump and preheater stations

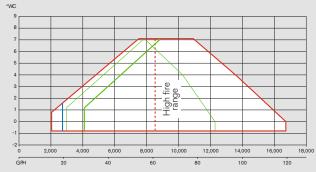
^{*} Operation with 55 Hz frequency converter only.

Burner selection Dual fuel burners size 50, version 1LN



RGL50/1-B, vers. ZM-1LN

Burner model Combustion head Capacity in MBH NG MBH Propane GPH #2 oil **RGL50/2-A, vers. ZM-1LN** G50/2-LN 260x40 2,050 – 16,725 2,730 – 16,725 21.3 – 119.4



Fuels
#2 oil
Nat gas
Propane

Burner model

Burner model	Vers.	Order No.
RGL50/1-B	ZM-1LN	218 504 16
RGL50/2-A	ZM-1LN	218 505 17

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 °C) and installation at sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor:

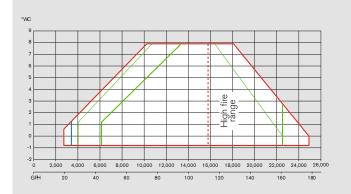
Insulation class F, protection IP 55.

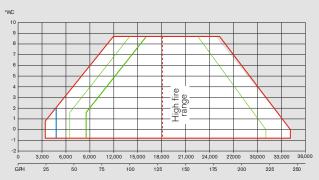


Burner selection Dual fuel burners size 70, version 1LN

Burner model Combustion head Capacity in MBH NG MBH Propane GPH #2 oil **RGL70/1-B, vers. ZM-1LN** G60/2-1LN 300x75 2,730 – 24,915 3,415 – 24,915 28.8 – 178

Burner model Combustion head Capacity in MBH NG MBH Propane GPH #2 oil **RGL70/2-A, vers. ZM-1LN** G70/2-1LN 365x85 3,415 - 34,130 4,780 - 34,130 46.3 - 243.8





Fuels
#2 oil
Nat gas
Propane

Burner model	Vers.	Order No.
RGL70/1-B	ZM-1LN	218 704 43
RGI 70/2-A	7M-1I N	218 705 43

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 °C) and installation at sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

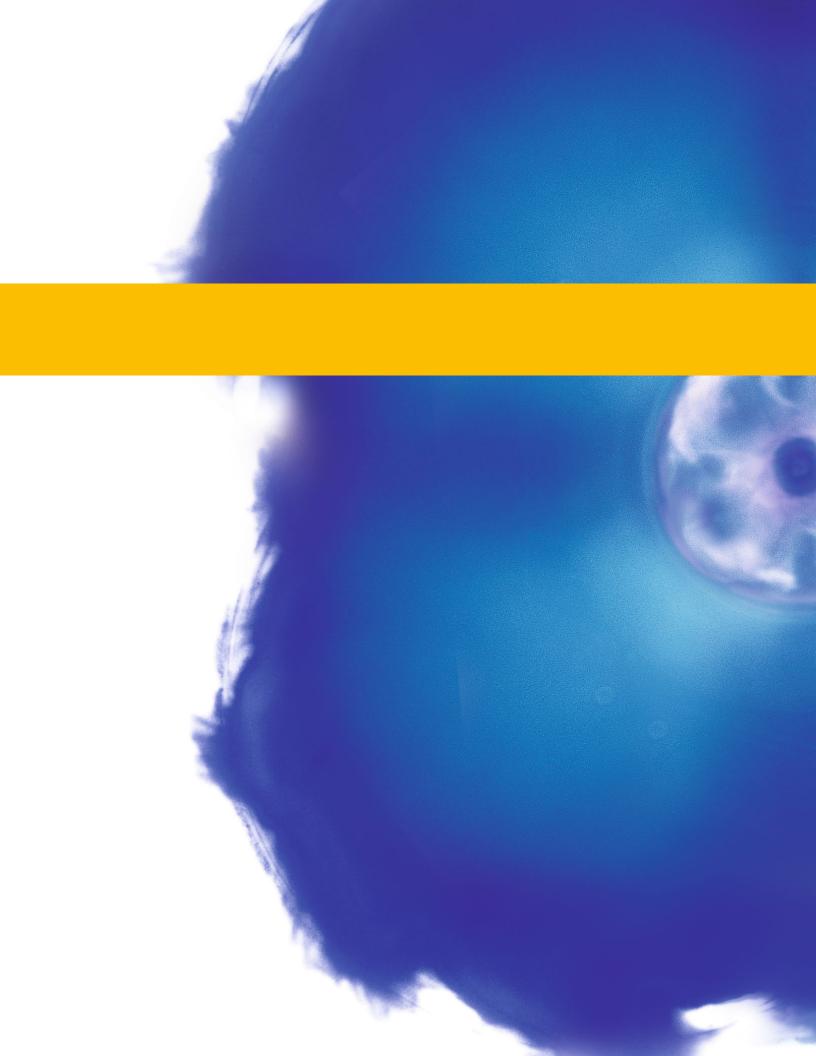
Scope of delivery/Accessories Dual fuel burners size 50 and 70, version 1LN

cope of delivery	RGL50	RGL70
urner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, ombustion head, ignition unit, ignition cable, ignition electrode, nozzle assembly with oil nozzle/s, ombustion manager with operating unit, flame sensor stepping motors, flange gasket, nit switch on hinge flange, fixing screws	•	•
ombustion manager W-FM100	•	•
wo safety gas valves	•	•
as butterfly valve	•	•
nition pilot	•	•
ir pressure switch	•	•
il pressure switch in return	•	•
as pressure switches	•	•
djustable regulating sleeve in mixing head	•	-
djustable flame tube in mixing head	-	•
tepping motor for Gas/Air ratio control with W-FM100 Stepping motor for air regulator	•	•
Stepping motor for gas butterfly valve	•	•
Stepping motor for oil regulator	•	•
il pump, fitted	•	•
il hoses	•	•
oil solenoid valves, 1 safety valve, two stage nozzle head with shut off device (nozzle solenoid)	•	•
lagnetic coupling	•	•
ownward firing burner	0	0
take flange for the connection of an air duct	0	0
olenoid valve for air pressure switch test for cont. run fan or post-purge	0	0
ombustion head extension	0	0
peed control	0	0
₂ trim	0	0
/-FM loose to fit into control panel	0	0
Scope of delivery Accessories Iditional accessories on request.		

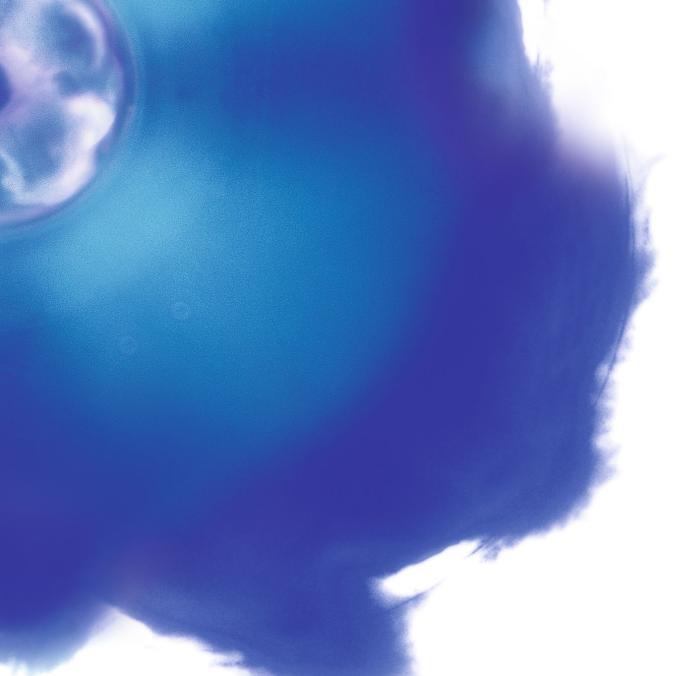
Technical data Dual fuel burners size 50 and 70, version 1LN

Technical data				RGL50/1-B	RGL50/2-A
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	500V	Н	Model IP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel			Colour ø	red 330 x 104.5	red 330 x 104.5
Combustion manager			Model	W-FM100	W-FM100
Ignition unit			Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel		Model Model	SQM45 SQM45	SQM45 SQM45
Pump, fitted			Model	TA4C	T2C
Oil solenoid valves	55V 3/8" (supply) 55V 3/8" (return)	20 W 20 W	Model Model	321 H 2322 121 G 2320	321 H 2322 121 G 2320
Oil pressure switch	1 – 10 bar (return - 5 bar)		Model	DSA 46 F001	DSA 46 F001
Oil hoses	DN, leng	th in inch ar	ıd (mm)	25/51" (1300)	25/51" (1300)
Burner weight		approx.	lbs (kg)	508 (230)	508 (230)

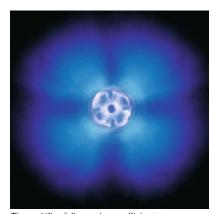
Technical data			RGL70/1-B	RGL70/2-A
Burner motor 3~400V ¹⁾ Motor rating FLA at 460V Speed (60 Hz)		Model HP (kW) A rpm	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel		Colour Ø	green 530 x 120	green 530 x 120
Combustion manager		Model	W-FM100	W-FM 100
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel	Model Model	SQM48 SQM45	SQM48 SQM45
Pump, fitted		Model	T2C (up to 173 GPH/ T3C (from 173 GPH/	
Oil solenoid valves	55V 1/2" (supply) 55V 1/2" (return)	20 W Model 20 W Model	321 H 2522 121 G 2520	321 H 2522 121 G 2520
Oil pressure switch	2 – 40 bar (supply - 18 bar) 1 – 10 bar (return - 5 bar)	Model Model	– DSA 46 F 001	_ DSA 46 F 001
Oil hoses	DN, length	n in inch and (mm)	25/1300	25/1300
Burner weight		approx. lbs (kg)	948 (430)	948 (430)







multiflam® principle: emission reduction as standard

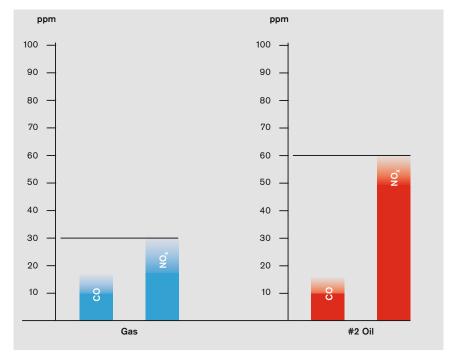


The multiflam® flame shows efficient combustion

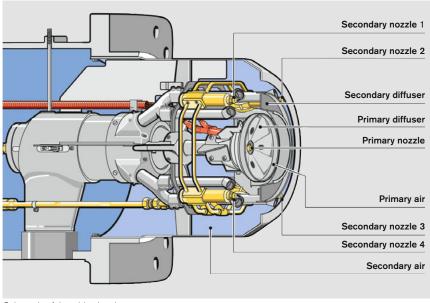
In 1998, Weishaupt made history with the introduction of multiflam technology into the market. Unprecedented low emission values stunned the industry. With the patented mixing head, Weishaupt was able to reduce the Nitrous Oxide emissions (NO_x) for medium and large burners to values normally only seen with compact burners. Weishaupt has set the standards with values below 60 ppm for #2 oil and 30 ppm for natural gas, depending on the relevant combustion chamber geometry.

The multiflam® burners therefore comply with the most stringent regulations worldwide and are leaders among industrial burners particularly in countries with strict environmental regulations.

The core of multiflam technology is the specialy designed mixing head, in which the fuel is distributed in multiple points and energy released to secondary and primary flames, making combustion more efficient then ever before. This is achieved by the recirculation of flue gases directly in the mixing head.

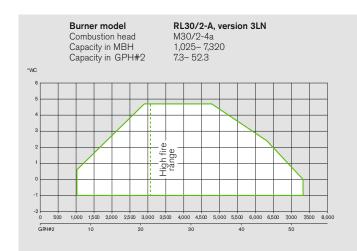


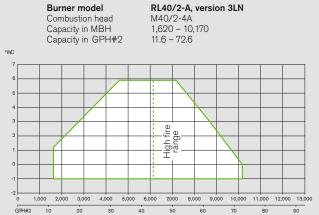
Example values for hot water plant depend on the combustion chamber



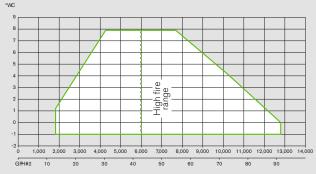
Schematic of the mixing head

Burner selection Oil burners size 30 to 50, vers. 3LN - multiflam®





Burner model Combustion head Capacity in MBH Capacity in GPH#2 **RL50/1-B, version 3LN** M50/1-4a 1,825 - 12,800



13 - 91.4

Fuels	
#2 oil	

Burner model	Vers.	Order No.
RL30/2-A	3LN	211 305 24
RL40/2-A	3LN	211 405 24
RL50/1-B	3LN	211 504 24

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal.

The capacity graphs are based on air temperature of 68F (20 °C) an installation altitude of 1,640 ft (500 m) above sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Scope of delivery / Accessories / Technical data Oil burners size 30 to 50, version 3LN

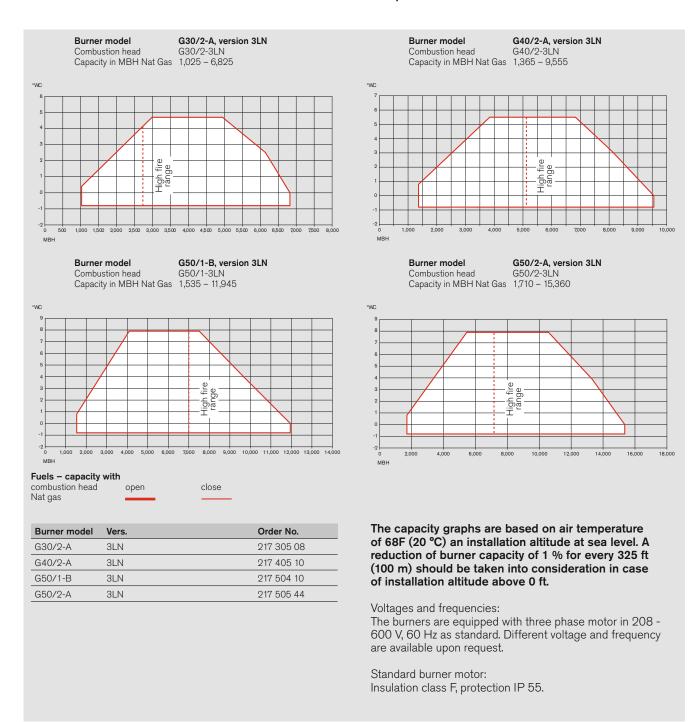
Scope of delivery	RL30	RL40	RL50
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, combustion manager with operating unit, UV flame sensor, stepping motors, flange gasket, limit switch on hinge flange, fixing screws	•	•	•
Combustion manager W-FM100	•	•	•
Oil pressure switch in return	•	•	•
Oil pump, fitted	•	•	•
Oil hoses	•	•	•
Accessories			
Intake flange for the connection of an air duct	0	0	0
Combustion head extension	0	0	0
Speed control	0	0	0
O ₂ trim	0	0	0
W-FM loose to fit into control panel	0	0	0

Scope of deliveryAccessories

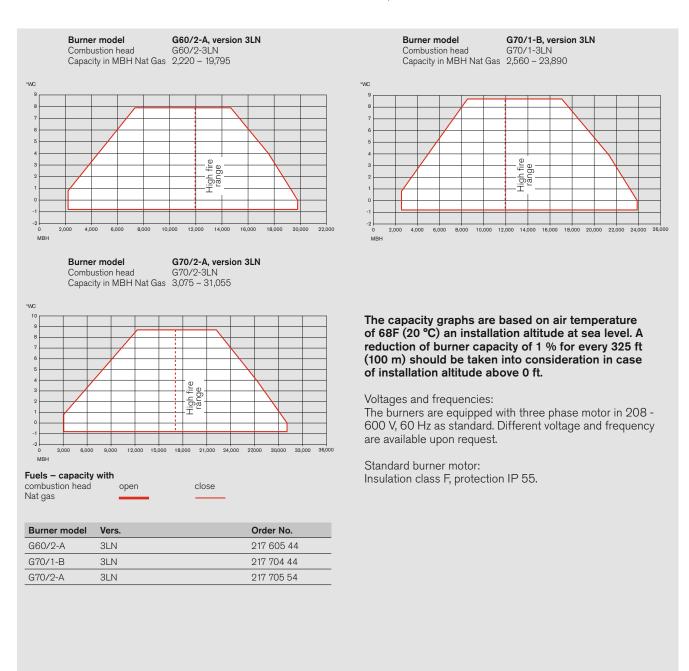
Additional accessories available on request.

Technical data			RL30/2-A 3LN	RL40/2-A 3LN	RL50/1-B 3LN
Burner motor 3~208 Motor rating FLA at 460 V Speed (60 Hz)	3 - 600V	Model HP (kW) A rpm	W-D112/140-2/4K5 6.6 (4.5) 8.6 3,510	W-D112/170-2/7K0 10.4 (7.8) 14 3,500	W-D132/170-2/9K0 14.6 (11) 19 3,500
Fan wheel		Colour ø	red 248 x 104	red 275 x 104	red 330 x 104.5
Combustion manage	r	Model	W-FM100 / W-FM200	W-FM100 / W-FM200	W-FM100 / W-FM200
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48
Pump, fitted		Model	TA2C	TA3C	TA4C
Oil solenoid valves	55V 1/4" (supply) 55V 1/4" (return) 55V 3/8" (supply) 55V 3/8" (return)	20 W Model 20 W Model 20 W Model 20 W Model	121 K 6220 121 K 6220 - -	- - 321 H 2322 121 G 2320	- 321 H 2322 121 G 2320
Oil pressure switch	1 – 10 bar	(return fuel #2 oil - 5 bar) Model	DSA 46 F001	DSA 46 F001	DSA 46 F001
Oil hoses Burner weight		DN, length in inch and (mm) approx. lbs (kg)	20/39" (1000) 220 (100)	20/39" (1000) 313 (142)	25/51" (1300) 458 (208)

Burner selection Gas burners size 30 and 50, version 3LN



Burner selection Gas burners size 60 and 70, version 3LN





Scope of delivery/Accessories Gas burners size 30 to 70, version 3LN

Scope of delivery	G30	G40	G50	G60	G70
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator housing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, combustion manager with operating unit, UV flame sensor, stepping motors,	_			_	_
flange gasket, limit switch on hinge flange, fixing screws	•	•	•	•	•
Combustion manager W-FM100	•	•	•	•	•
Two safety gas shut off valves	•	•	•	•	•
Ignition pilot	•	•	•	•	•
Air pressure switch	•	•	•	•	•
Gas pressure switch	•	•	•	•	•
Ratio controlled sliding sleeve in mixing head	•	•	•	•	•
Stepping motor for Air regulator	•	•	•	•	•
Gas butterfly valve	•	•	•	•	•
Mixing head	•	•	•	•	•
Accessories					
Intake flange for the connection of an air duct	0	0	0	0	0
Combustion head extension	0	0	0	0	0
Speed control	0	0	0	0	0
O ₂ trim	0	0	0	0	0
W-FM loose to fit into control panel	0	0	0	0	0

Scope of deliveryAccessories

Additional accessories available on request.

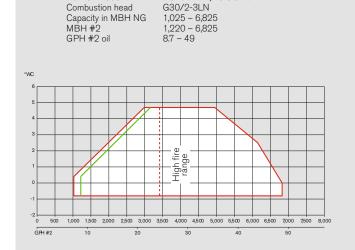
Technical data Gas burners size 30 to 70, version 3LN

Technical data			G30/2-A 3LN	G40/2-A 3LN	G50/1-B 3LN	G50/2-A 3LN
Burner motor 3~208 Motor rating FLA at 460V Speed (60 Hz)	- 600V	Model HP (kW) A rpm	W-D112/140-2/4K5 6.6 (5.0) 8.6 3,510	W-D112/170-2/7K0 10.4 (7.8) 14 3,500	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour ø	red 248 x 104	red 275 x 104	red 330 x 104.5	red 330 x 104.5
Combustion manager		Model Model	W-FM100 W-FM200	W-FM100 W-FM200	W-FM100 W-FM200	W-FM100 W-FM200
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48
Burner weight		approx. lbs (kg)	320 (145)	353 (160)	518 (235)	530 (240)

Technical data			G60/2-A 3LN	G70/1-B 3LN	G70/2-A 3LN
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	600V	Model HP (kW) A rpm	W-D132/210-2/14K0 20 (15) 28 3,520	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel		Colour ø	no color code 450 x 127.5-R	green 530 x 120	green 530 x 120
Combustion manager		Model Model	W-FM100 W-FM200	W-FM100 W-FM200	W-FM100 W-FM200
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48
Burner weight		approx. lbs (kg)	728 (330)	960 (435)	960 (435)

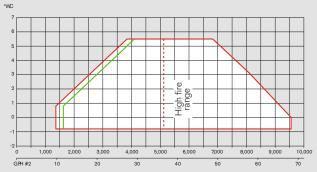


Burner selection Dual fuel burners size 30 and 40, version 3LN



RGL30/2-A, version 3LN

Burner model Combustion head Capacity in MBH NG MBH #2 GPH #2 oil **RGL40/2-A, version 3LN** G40/2-3LN 1,365 – 9,555 1,625 – 9,555 11.6 – 68.2



Fuels #2 oil Nat gas

Burner model

 Burner model
 Vers.
 Order No.

 RGL30/2-A
 3LN
 218 305 18

 RGL40/2-A
 3LN
 218 405 18

The stated oil throughputs in GPH refer to #2 oil with a calorific value of 140,000 BTU/Gal.

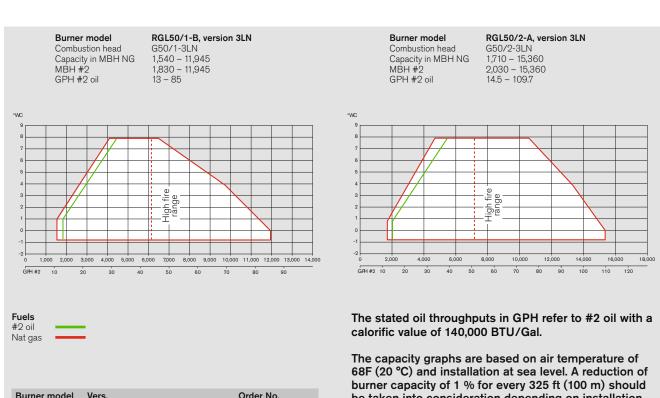
The capacity graphs are based on air temperature of 68F (20 °C) and installation at sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

Voltages and frequencies:

The burners are equipped with three phase motor in 208 - 600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

Burner selection Dual fuel burners size 50, version 3LN



Burner model Order No. RGL50/1-B 31 N 218 504 44 218 505 44 RGL50/2-A 3LN

be taken into consideration depending on installation altitude.

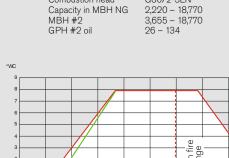
Voltages and frequencies:

The burners are equipped with three phase motor in 208 -600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor:

Insulation class F, protection IP 55.

Burner selection Dual fuel burners size 60 and 70, version 3LN

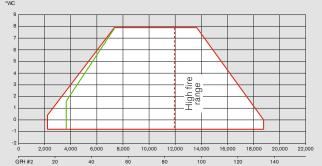


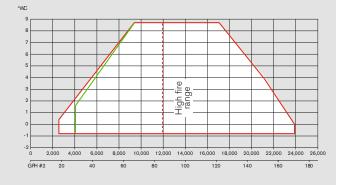
Burner model

Combustion head

Burner model Combustion head Capacity in MBH NG MBH #2 GPH #2 oil

RGL70/1-B, version 3LN G70/1-3LN 2,560 - 23,890 4,065 - 23,890





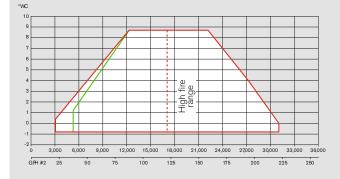
Burner model Combustion head Capacity in MBH NG MBH #2 GPH #2 oil

RGL70/2-A, version 3LN G70/2-3LN 3,075 - 31,055

RGL60/2-A, version 3LN

G60/2-3LN

5,285 - 31,055 37.7 – 221.8



The capacity graphs are based on air temperature of 68F (20 °C) and installation at sea level. A reduction of burner capacity of 1 % for every 325 ft (100 m) should be taken into consideration depending on installation altitude.

The stated oil throughputs in GPH refer to #2 oil with a

Voltages and frequencies:

The burners are equipped with three phase motor in 208 -600 V, 60 Hz as standard. Different voltage and frequency are available upon request.

Standard burner motor: Insulation class F, protection IP 55.

calorific value of 140,000 BTU/Gal.

Burner model	Vers.	Order No.
RGL60/2-A	3LN	218 605 44
RGL70/1-B	3LN	218 704 44
RGL70/2-A	3LN	218 705 44



Scope of delivery/Accessories Dual fuel burners size 30 and 70, version 3LN

cope of delivery	RGL30	RGL40	RGL50	RGL60	RGL70
Burner housing, hinge flange, housing cover, Weishaupt burner motor, air regulator ousing, fan wheel, combustion head, ignition unit, ignition cable, ignition electrodes, tomising system with oil nozzle/s, combustion manager with operating unit, flame sensor,					
tepping motors, flange gasket, limit switch on hinge flange, fixing screws	•	•	•	•	•
Combustion manager W-FM100	•	•	•	•	•
wo gas shut off valves	•	•	•	•	•
gnition pilot	•	•	•	•	•
as butterfly valve	•	•	•	•	•
ir pressure switch	•	•	•	•	•
ias pressure switches	•	•	•	•	•
atio control sliding sleeve in mixing head	•	•	•	•	•
stepping motor for Air regulator	•	•	•	•	•
Gas butterfly valve	•	•	•	•	•
Mixing head	•	•	•	•	•
ntake flange for the connection of an air duct	0	0	0	0	0
ccessories					
·	0	0	0	0	0
olenoid valve for air pressure switch test for cont. run fan or post-purge	0	0	0		
Combustion head extension speed control	0	0	0	0	0
'	0	0	0	0	0
0 ₂ trim V-FM loose for installation in a remote control panel	0	0	0	0	0
Scope of delivery Accessories Iditional accessories available on request.					

Technical data Dual fuel burners size 30 to 50, version 3LN

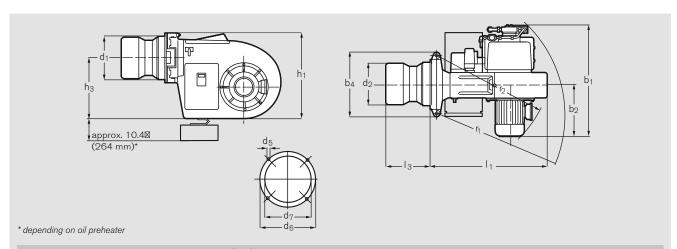
Technical data			RGL30/2-A 3LN	RGL40/2-A 3LN
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	600V	Model HP (kW) A rpm	W-D112/140-2/4K5 6.6 (5.0) 8.6 3,510	W-D112/170-2/7K0 10.4 (7.8) 14 3,500
Fan wheel		Colour ø	red 248 x 104	red 275 x 104
Combustion manager		Model	W-FM100 / W-FM200	W-FM100 / W-FM200
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48
Pump, fitted		Model	TA3C	TA3C
Oil solenoid valves	55V (supply) 55V (return)	Model Model	121 K 6220 121 K 6220	321 H 2322 121 G 2320
Oil pressure switch (return #2 oil - 5 bar)	1 - 10 bar	Model	DSA 46 F001	DSA 46 F001
Oil hoses		DN, length in inch (mm)	20/40" (1000)	20/40" (1000)
Burner weight		approx. lbs (kg)	320 (145)	353 (160)

Technical data			RGL50/1-B 3LN	RGL50/2-A 3LN
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	00V	Model HP (kW) A rpm	W-D132/170-2/9K0 14.6 (11) 19 3,500	W-D132/210-2/14K0 20 (15) 25 3,520
Fan wheel		Colour Ø	red 330 x 104.5	red 330 x 104.5
Combustion manager		Model	W-FM100 / W-FM200	W-FM100 / W-FM200
Ignition unit		Model	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48
Pump, fitted		Model	TA4C	T2C
Oil solenoid valves	55V (supply) 55V (return)	Model Model	321 H 2322 121 G 2320	321 H 2322 121 G 2320
Oil pressure switch (return #2 oil - 5 bar)	1 – 10 bar	Model	DSA 46 F001	DSA 46 F001
Oil hoses		DN, length in inch and (mm)	25/51" (1300)	25/51" (1300)
Burner weight		approx. lbs (kg)	518 (235)	530 (240)

Technical data Dual fuel burners size 60 and 70, version 3LN

Technical data			RGL60/2-A 3LN	RGL70/1-B 3LN	RGL70/2-A 3LN
Burner motor 3~208 - 6 Motor rating FLA at 460V Speed (60 Hz)	00V	Model HP (kW) A rpm	W-D132/210-2/14K0 20 (15) 28 3,520	W-D160/240-2/18K0 22 (16.5) 30.5 3,560	W-D160/240-2/22K0 26.6 (20) 33 3,550
Fan wheel		Colour / ø	no color / 450 x 127.5-R	green / 530 x 120	green / 530 x 120
Combustion manager		Model	W-FM100 / W-FM200	W-FM100 / W-FM200	W-FM100 / W-FM200
Ignition unit		Model	W-ZG02	W-ZG02	W-ZG02
Stepping motor	Air Fuel Mixing head	Model Model Model	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48	SQM45 SQM45 SQM48
Pump, fitted		Model	T2C	T2C (up to 130 GPH / 450 kg/h) T3C (from 130 GPH / 450 kg/h)	T3C
Oil solenoid valves	55V (supply) 55V (return)	Model Model	321 H 2322 121 G 2320	321 H 2522 121 G 2520	321 H 2522 121 G 2520
Oil pressure switch (return #2 oil - 5 bar)	1 - 10 bar	Model	DSA 46 F001	DSA 46 F001	DSA 46 F001
Oil hoses		DN, length in inch and (mm)	25/51" (1300)	25/51" (1300)	25/51" (1300)
Burner weight		approx. lbs (kg)	728 (330)	960 (435)	960 (435)

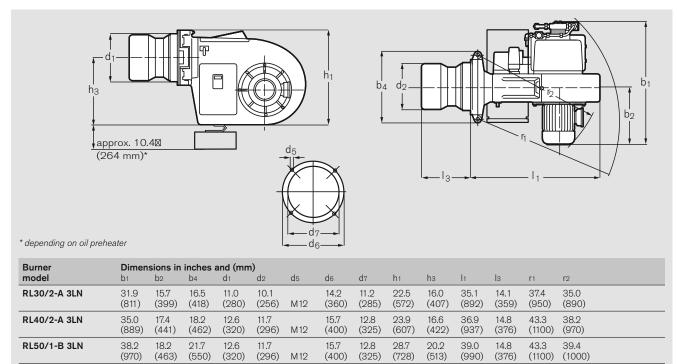
Oil burner dimensions Size 30 to 70



Burner	Dimens		inches a	and (mm	1)									
model	b1	b ₂	b4	d1	d2	d5	d6	d7	h1	hз	l1	l3	r1	r2
MS30Z/2-A	32.0 (813)	15.7 (399)	16.5 (418)	11.0 (280)	9.8 (250)	M12	14.2 (360)	11.2 (285)	22.5 (572)	16.0 (407)	35.1 (892)	11.9 (303)	37.4 (950)	35.0 (890)
RMS30/2-A	32.1 (815)	15.7 (399)	16.5 (418)	11.0 (280)	9.8 (250)	M12	14.2 (360)	11.2 (285)	22.5 (572)	16.0 (407)	35.1 (892)	11.9 (303)	37.4 (950)	35.0 (890)
MS40Z/1-B	34.9 (887)	17.4 (441)	18.2 (462)	11.0 (280)	9.8 (250)	M12	14.2 (360)	11.2 (285)	23.9 (607)	16.6 (422)	36.9 (937)	11.9 (303)	43.3 (1100)	38.2 (970)
RMS40/1-B	35.0 (889)	17.4 (441)	18.2 (462)	11.0 (280)	9.8 (250)	M12	14.2 (360)	11.2 (285)	23.9 (607)	16.6 (422)	36.9 (937)	11.9 (303)	43.3 (1100)	38.2 (970)
RMS40/2-A	35.0 (889)	17.4 (441)	18.2 (462)	12.6 (320)	11.4 (290)	M12	15.7 (400)	12.8 (325)	23.9 (607)	16.6 (422)	36.9 (937)	14.2 (361)	43.3 (1100)	38.2 (970)
L50T/2-A	39.1 (992)	19.4 (493)	21.7 (550)	15.0 (380)	11.0 (280)	M16	18.9 (480)	15.4 (390)	28.7 (728)	20.2 (513)	39.0 (990)	14.1 (357)	43.3 (1100)	40.4 (1025)
RL50/1-B	38.2 (970)	18.2 (463)	21.7 (550)	12.6 (320)	11.4 (290)	M12	15.7 (400)	13.0 (330)	28.7 (728)	20.2 (513)	38.8 (985)	14.2 (361)	43.3 (1100)	39.4 (1000)
RMS50/1-B	38.2 (970)	18.2 (463)	21.7 (550)	12.6 (320)	11.4 (290)	M12	15.7 (400)	13.0 (330)	28.7 (728)	20.2 (513)	38.8 (985)	14.2 (361)	43.3 (1100)	39.4 (1000)
RL50/2-A	39.1 (993)	19.4 (493)	21.7 (550)	15.0 (380)	13.8 (350)	M16	18.9 (480)	15.4 (390)	28.7 (728)	20.2 (513)	39.0 (990)	15.2 (386)	43.3 (1100)	40.4 (1025)
RMS50/2-A	39.1 (993)	19.4 (493)	21.7 (550)	15.0 (380)	13.8 (350)	M16	18.9 (480)	15.4 (390)	28.7 (728)	20.2 (513)	39.0 (990)	15.2 (386)	43.3 (1100)	40.4 (1025)
RL60/2-A	43.3 (1100)	20.4 (517)	26.4 (670)	16.9 (429)	15.7 (400)	M16	18.5 (470)	17.1 (435)	36.6 (930)	26.4 (670)	46.8 (1189)	16.0 (407)	49.6 (1260)	44.9 (1140)
RMS60/2-A	44.6 (1132)	20.4 (517)	26.4 (670)	16.9 (429)	15.7 (400)	M16	18.5 (470)	17.1 (435)	36.6 (930)	26.4 (670)	46.8 (1189)	16.0 (407)	49.6 (1260)	44.9 (1140)
RL70/1-A	50.3 (1277)	23.7 (603)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	53.9 (1368)	16.4 (417)	59.1 (1500)	51.6 (1310)
RMS70/1-A	50.8 (1290)	23.7 (603)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	53.9 (1368)	16.4 (417)	59.1 (1500)	51.6 (1310)
RL70/2-A	51.1 (1297)	24.5 (623)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	53.9 (1368)	16.4 (417)	59.1 (1500)	51.6 (1310)
RMS70/2-A	51.6 (1310)	24.5 (623)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	53.9 (1368)	16.4 (417)	59.1 (1500)	51.6 (1310)
Refer to burner manua	al for addition	onal dim	ensions											

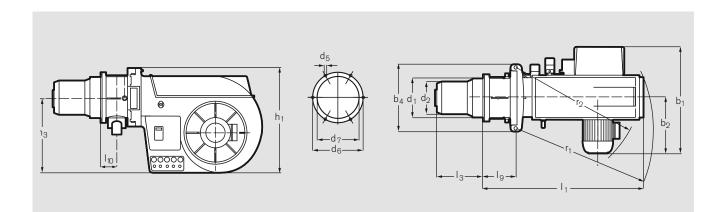
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Oil burner dimensions Size 30 to 70



Refer to burner manual for additional dimensions

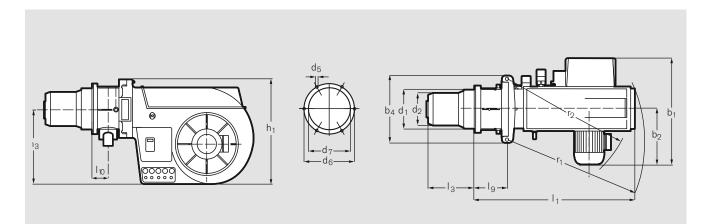
Gas burner dimensions Size 30 to 70



(Shown version 3LN)

Burner model	Dimen:	sions in	inches a	and (mm	n) d2	d5	d6	d7	h1	hз	l ₁	lз	l9	I10	r1	r2
G50/1-B ZM-NR	33.8 (858)	18.8 (478)	21.7 (550)	12.6 (320)	11.4 (290)	M12	15.7 (400)	12.8 (325)	28.7 (730)	20.2 (513)	47.0 (1195)	13.1 (332)	10.2 (258)	5.2 (133)	41.7 (1060)	39.4 (1000)
G50/2-A ZM-NR	35.0 (890)	19.5 (495)	21.7 (550)	15.0 (380)	13.8 (350)	M16	18.9 (480)	15.4 (390)	28.7 (730)	20.2 (513)	49.0 (1245)	13.1 (332)	12.1 (308)	6.2 (158)	41.7 (1060)	40.4 (1025)
G60/2-A ZM-NR	39.8 (1010)	20.4 (517)	26.4 (670)	17.0 (432)	15.7 (400)	M16	18.5 (470)	17.1 (435)	36.6 (930)	26.4 (670)	58.2 (1478)	14.1 (357)	13.7 (348)	7.0 (178)	49.2 (1250)	44.9 (1140)
G70/1-B ZM-NR	46.0 (1169)	25.4 (646)	29.9 (760)	17.0 (432)	15.7 (400)	M16	18.5 (470)	17.1 (435)	42.3 (1075)	30.5 (775)	64.9 (1648)	14.1 (357)	13.7 (348)	7.0 (178)	56.7 (1440)	51.6 (1310)
G70/3-A ZM-NR	45.1 (1145)	24.5 (622)	29.9 (760)	20.1 (510)	18.9 (480)	M16	22.8 (580)	20.9 (530)	42.3 (1075)	30.5 (775)	65.4 (1660)	18.4 (467)	14.5 (368)	7.3 (186)	56.7 (1440)	51.6 (1310)
G70/4-A ZM-NR	45.1 (1145)	24.5 (622)	29.9 (760)	20.1 (510)	18.9 (480)	M16	22.8 (580)	20.9 (530)	42.3 (1075)	30.5 (775)	65.4 (1660)	18.4 (467)	14.5 (368)	7.3 (186)	56.7 (1440)	51.6 (1310)
G50/1-B ZM-1LN	33.8 (858)	18.8 (478)	21.7 (550)	12.6 (320)	11.4 (290)	M12	15.7 (400)	12.8 (325)	28.7 (730)	20.2 (513)	47.0 (1195)	13.1 (332)	10.2 (258)	5.2 (133)	41.7 (1060)	39.4 (1000)
G70/1-B ZM-1LN	46.0 (1169)	25.4 (646)	29.9 (760)	17.0 (432)	16.0 (406)	M16	18.5 (470)	17.1 (435)	42.3 (1075)	30.5 (775)	64.9 (1648)	16.5 (419)	13.7 (348)	7.0 (178)	56.7 (1440)	51.6 (1310)
G50/2-A ZM-1LN	35.0 (890)	19.5 (495)	21.7 (550)	15.0 (380)	13.8 (350)	M16	18.9 (480)	15.4 (390)	28.7 (730)	20.2 (513)	49.0 (1245)	17.6 (447)	12.1 (308)	6.2 (158)	41.7 (1060)	40.4 (1025)
G70/2-A ZM-1LN	46.9 (1190)	24.5 (622)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	65.7 (1668)	17.6 (447)	14.5 (368)	7.4 (188)	56.7 (1440)	51.6 (1310)
G50/1-B ZM-LN	33.8 (858)	18.8 (478)	21.7 (550)	12.6 (320)	11.7 (296)	M12	15.7 (400)	12.8 (325)	28.7 (730)	20.2 (513)	47.0 (1195)	14.4 (367)	10.2 (258)	5.2 (133)	41.7 (1060)	39.4 (1000)
G50/2-A ZM-LN	35.0 (890)	19.5 (495)	21.7 (550)	15.0 (380)	13.8 (350)	M16	18.9 (480)	15.4 (390)	28.7 (730)	20.2 (513)	49.0 (1245)	15.2 (387)	12.1 (308)	6.2 (158)	41.7 (1060)	40.4 (1025)
G60/2-A ZM-LN	39.8 (1010)	20.4 (517)	26.4 (670)	17.0 (432)	16.0 (406)	M16	18.5 (470)	17.1 (435)	36.6 (930)	26.4 (670)	58.2 (1478)	17.0 (432)	13.7 (348)	7.0 (178)	49.2 (1250)	44.9 (1140)
G70/1-B ZM-LN	46.0 (1169)	23.7 (601)	29.9 (760)	17.0 (432)	16.0 (406)	M16	18.5 (470)	17.1 (435)	42.3 (1075)	30.5 (775)	64.9 (1648)	17.0 (432)	13.7 (348)	7.0 (178)	56.7 (1440)	51.6 (1310)
G70/2-A ZM-LN	46.9 (1190)	24.5 (622)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	65.7 (1668)	17.2 (437)	14.5 (368)	7.4 (188)	56.7 (1440)	51.6 (1310)
Refer to burner manua	I for additi	onal dim	ension													

Gas burner dimensions Size 30 to 70

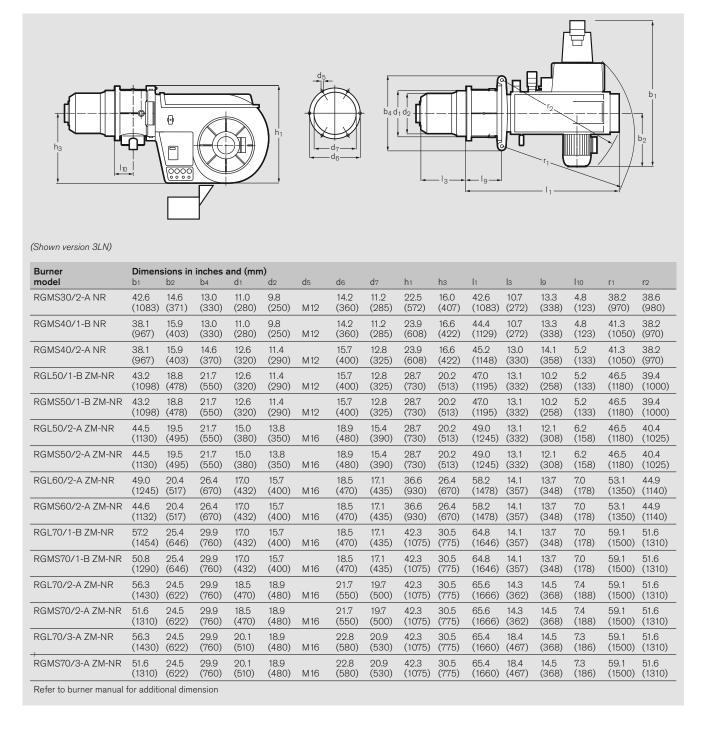


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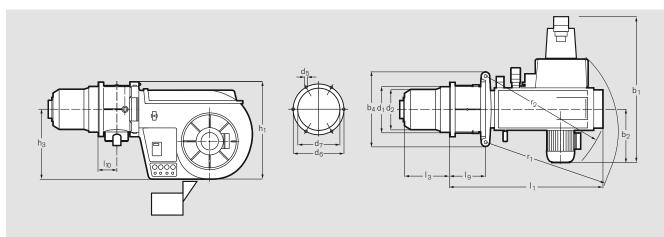
Burner				and (mm	,											
model	b1	b ₂	b4	d1	d ₂	d5	d6	d7	h1	hз	l1	l3	l9	I10	r1	r2
G30/2-A 3LN	28.7 (729)	15.7 (400)	16.5 (418)	11.0 (280)	10.1 (256)	M12	14.2 (360)	11.2 (285)	22.5 (572)	16.0 (407)	42.6 (1083)	14.4 (366)	9.4 (238)	4.8 (123)	33.1 (840)	35.0 (890)
G40/2-A 3LN	31.3 (795)	17.4 (441)	18.2 (462)	12.6 (320)	11.7 (296)	M12	15.7 (400)	12.8 (325)	23.9 (607)	16.6 (422)	45.2 (1148)	15.0 (380)	10.2 (258)	5.2 (133)	35.2 (895)	38.2 (970)
G50/1-B 3LN	33.8 (858)	18.8 (478)	21.7 (550)	12.6 (320)	11.7 (296)	M12	15.7 (400)	12.8 (325)	28.7 (730)	20.2 (513)	47.0 (1195)	15.0 (380)	10.2 (258)	5.2 (133)	41.7 (1060)	39.4 (1000)
G50/2-A 3LN	44.1 (1119)	20.7 (525)	21.7 (550)	15.0 (380)	13.2 (335)	M16	18.9 (480)	15.4 (390)	28.7 (730)	20.2 (513)	49.0 (1245)	17.7 (450)	12.1 (308)	6.2 (158)	41.7 (1060)	40.4 (1025)
G60/2-A 3LN	39.8 (1010)	20.4 (517)	26.4 (670)	17.0 (432)	14.8 (376)	M16	18.5 (470)	17.1 (435)	36.6 (930)	26.4 (670)	58.2 (1478)	18.9 (480)	13.7 (348)	7.0 (178)	53.1 (1350)	44.9 (1140)
G70/1-B 3LN	47.8 (1214)	25.4 (646)	29.9 (760)	17.0 (432)	14.8 (376)	M16	18.5 (470)	17.1 (435)	42.3 (1075)	30.5 (775)	64.9 (1648)	18.9 (480)	13.7 (348)	7.0 (178)	59.1 (1500)	51.6 (1310)
G70/2-A 3LN	46.9 (1190)	24.5 (622)	29.9 (760)	18.5 (470)	17.5 (444)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	65.7 (1668)	18.7 (475)	14.5 (368)	7.4 (188)	59.1 (1500)	51.6 (1310)

Refer to burner manual for additional dimension

Dual fuel burner dimensions Size 30 to 70



Dual fuel burner dimensions Size 30 to 70

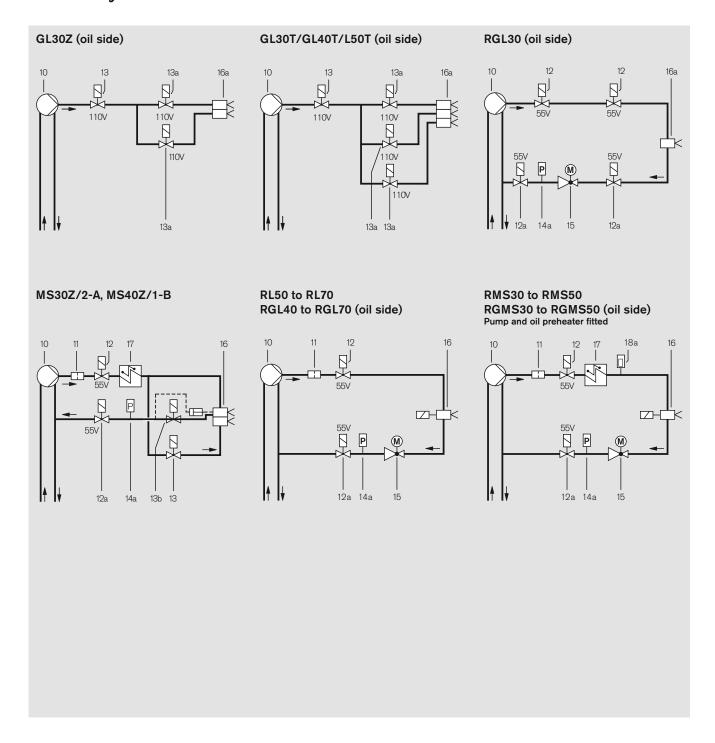


(Shown version 3LN)

Burner	Dimen	sions in	inches a	and (mm	1)											
model	b1	b2	b4	d1	d2	d5	d6	d7	h1	hз	l1	l3	l 9	l10	r1	r2
RGL70/4-A ZM-NR	56.3 (1430)	24.5 (622)	29.9 (760)	20.1 (510)	18.9 (480)	M16	22.8 (580)	20.9 (530)	42.3 (1075)	30.5 (775)	65.4 (1660)	18.4 (467)	14.5 (368)	7.3 (186)	59.1 (1500)	51.6 (1310)
RGMS70/4-A ZM-NR	51.6 (1310)	24.5 (622)	29.9 (760)	20.1 (510)	18.9 (480)	M16	22.8 (580)	20.9 (530)	42.3 (1075)	30.5 (775)	65.4 (1660)	18.4 (467)	14.5 (368)	7.3 (186)	59.1 (1500)	51.6 (1310)
RGL50/2-A ZM-1LN	44.5 (1130)	19.5 (495)	21.7 (550)	15.0 (382)	13.8 (350)	M16	18.9 (480)	15.4 (390)	28.7 (730)	20.2 (513)	49.0 (1245)	17.6 (447)	12.1 (308)	6.2 (158)	46.5 (1180)	40.4 (1025)
RGL70/1-B ZM-1LN	57.2 (1454)	25.4 (646)	29.9 (760)	17.0 (432)	16.0 (406)	M16	18.5 (470)	17.1 (435)	42.3 (1075)	30.5 (775)	64.9 (1648)	16.5 (419)	13.7 (348)	7.0 (178)	59.1 (1500)	51.6 (1310)
RGL70/2-A ZM-1LN	56.3 (1430)	24.5 (622)	29.9 (760)	18.5 (470)	18.9 (480)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	65.7 (1668)	17.6 (447)	14.5 (368)	7.4 (188)	59.1 (1500)	51.6 (1310)
RGL30/2-A 3LN	36.4 (924)	15.7 (400)	16.5 (418)	11.0 (280)	10.1 (256)	M12	14.2 (360)	11.2 (285)	22.5 (572)	16.0 (407)	42.6 (1083)	14.4 (366)	9.4 (238)	4.8 (123)	38.2 (970)	35.0 (890)
RGL40/2-A 3LN	39.0 (990)	17.4 (441)	18.2 (462)	12.6 (320)	11.7 (296)	M12	15.7 (400)	12.8 (325)	23.9 (607)	16.6 (422)	45.2 (1148)	15.0 (380)	10.2 (258)	5.2 (133)	41.3 (1050)	38.2 (970)
RGL50/1-B 3LN	43.2 (1098)	18.8 (478)	21.7 (550)	12.6 (320)	11.7 (296)	M12	15.7 (400)	12.8 (325)	28.7 (730)	20.2 (513)	47.0 (1195)	15.0 (380)	10.2 (258)	5.2 (133)	46.5 (1180)	39.4 (1000)
RGL50/2-A 3LN	44.5 (1130)	19.5 (495)	21.7 (550)	15.0 (380)	13.2 (335)	M16	18.9 (480)	15.4 (390)	28.7 (730)	20.2 (513)	49.0 (1245)	17.7 (450)	12.1 (308)	6.2 (158)	46.5 (1180)	40.4 (1025)
RGL60/2-A 3LN	49.0 (1245)	20.4 (517)	26.4 (670)	17.0 (432)	14.8 (376)	M16	18.5 (470)	17.1 (435)	36.6 (930)	26.4 (670)	58.2 (1478)	18.9 (480)	13.7 (348)	7.0 (178)	53.1 (1350)	44.9 (1140)
RGL70/1-B 3LN	57.2 (1454)	25.4 (646)	29.9 (760)	17.0 (432)	14.8 (376)	M16	18.5 (470)	17.1 (435)	42.3 (1075)	30.5 (775)	64.9 (1648)	18.9 (480)	13.7 (348)	7.0 (178)	59.1 (1500)	51.6 (1310)
RGL70/2-A 3LN	56.3 (1430)	24.5 (622)	29.9 (760)	18.5 (470)	17.5 (444)	M16	21.7 (550)	19.7 (500)	42.3 (1075)	30.5 (775)	65.7 (1668)	18.7 (475)	14.5 (368)	7.4 (188)	59.1 (1500)	51.6 (1310)

Refer to burner manual for additional dimension

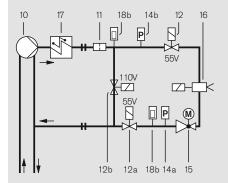
Fuel systems



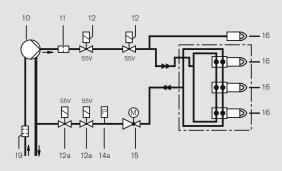
Fuel systems

RGMS60/70 (oil side)

With separate pump and preheater stations

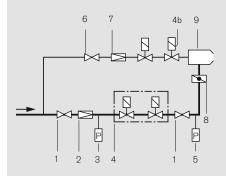


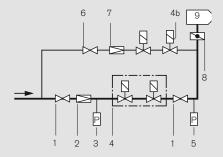
RL30 to RL50 vers. 3LN RGL30 to RGL70 vers. 3LN (oil side)



G30 to G70 (gas side vers. NR) RGL30 to RGL70 vers. 3LN (gas side)

G30 to G70 vers. LN





The gas train schematics show typical configuration for UL gas train. The actual gas train shipped with burner might have different configuration depending on applicable code and regulation.

Legend

- Ball valve
- 2 Gas pressure regulator
- 3 Low gas pressure switch
- 4 Double main SSOV
- 4b Pilot gas valves
- 5 High gas pressure switch
- 6 Pilot train ball valve
- 7 Pilot gas pressure regulator
- 8 Gas butterfly valve
- 9 Burner
- 10 Oil pump

- 11 Straine
- Oil solenoid valve, normally closed (55V connected in series with 12a)
- 12a Oil solenoid valve, normally closed (55V connected in series with 12, installed against the flow direction)
- 12b Bypass solenoid valve, normally open
- 13 Oil solenoid valve, normally closed
- 13a Oil solenoid valve, normally closed for stage 1, 2 and 3
- 13b Oil solenoid valve, normally open

- 14a Oil pressure switch in return
- 14b Oil pressure switch in supply (optional, not shown)
- 15 Oil regulator
- 16 Nozzle head with shut off device
- 16a Nozzle head without shut off device
- 17 Oil preheater
- 18a Temperature switch
- 18b Temperature sensor Pt 100 (to monitor minimum oil temperature)
- 19 External oil filter ¹⁰

Pump and preheater stations

Scope of delivery - pump station

Pump unit (screw spindle pump with motor), pressure gauge, vacuum gauge, pressure regulating valve, ball valves, suction flange, pressure flange including counter flanges, screws and washers, suction side filter. All parts are fully assembled on an oil drip tray.

The pump station is built as one of two different versions - either as a single station unit with one pump, or as a twin station unit with two pumps with one pump serves as a backup unit. Should one pump fail, it is possible to quickly switch over to the other.

Only tried and tested makes of pump are used. The pumps are carefully matched to the capacity of the burner.

Scope of delivery - preheater stations

Preheater stations are supplied fully assembled on an oil drip tray. The preheater ensures constant regulation of the oil temperature and thus the viscosity of the fuel oil.

There are two basic versions of the preheater station available:

- 1. Electric preheater
- 2. Medium preheater

WEV.. and MV.. type preheaters are used.

MV medium oil preheater

Medium preheaters are high capacity, forced circulation heat exchangers. High capacity is achieved with a compact, space saving construction. Hot water, steam or thermal fluid can be used as heating media. The oil preheaters guarantee largely stable oil temperatures and thus good combustion figures. The oil temperature achieved depends on the heating

medium used.

When selecting and sizing, please refer to the oil temperature diagrams in chapter 5.3 of the technical brochure "Weishaupt electric and medium oil preheaters", print No. 18. Weishaupt medium oil preheaters can be used universally. It is possible to change the medium at any time. The preheaters are used either alone or in conjunction with an electric oil preheater.

If operating steam at more than 110 PSI or hot water between 360 F (180 °C) and 390 F (200 °C) is continuously available, then an electric preheater is not required. This is also possible if installation with the above minimum pressures or temperatures can be operated with #2 oil or gas.

If the medium temperature is not sufficient to adequately preheat the fuel oil, then the electric oil preheater provides the additional heat required. The electric oil preheater heats the oil for the start up of the installation. If the required medium temperature is available then the station switches over to the medium oil preheater thus saving on expensive electrical energy.

Suitable connection for medium oil preheaters can be selected, depending on the medium. If medium oil pre-heaters are provided without electric oil preheaters, a temperature controller must be used with the medium connection fittings. Medium connection fittings are available as an option.

General instructions

When starting a boiler from a cold condition with heavy oil, an electric oil preheater capacity must be provided for at least 30 % of the boiler rating.

Planning and installation instructions

Oil filter, air/gas separator, circulation tank, pump station and oil preheater station must be installed as close as possible to the burner.

On burners with separate oil preheater the time required for oil circulation during start up depends on the length of the pipework between the burner and the air/gas separator or circulation

The shorter the pipeline, the shorter the period between heat being called for and oil release and burner start after a controlled shutdown.

Pump and preheater stations

Specification					
Burner Rating GPH	Technical data - Pum Flow rate in GPH (I/h) (based on 150cSt)		Motor rating HP (kW)	Version with 1 pump Pump model	Version with 2 pumps Pump model
Pump stations -	frequency 60 Hz				
74 - 114 114 - 214	265 (1,020) 532 (2,050)	3,400 3,400	2.9 (2.2) 3.4 (2.6)	SPF 10-38 SPF 20-38	SPZ 10-38 SPZ 20-38
214 - 265	705 (2,720)	3,400	5.3 (4.0)	SPF 20-46	SPZ 20-46

Model	Quantity	Medium preheater oil flow in GPH (kg/h)	Electric preheater (EV) Oil flow in GPH (kg/h) at ΔT = 135F (75°C)
Preheater stations			
WEV3.1/01 WEV3.1/01	1 2	- -	103 (375) 205 (750)
WEV3/01 WEV3/01	1 2	-	137.5 (500) 275 (1000)
MV9C with temperature regulator MV9C without temperature regulator	1	137.5 (500) 137.5 (500)	
MV10A with temperature regulator MV10A without temperature regulator	1	275 (1000) 275 (1000)	<u> </u>

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That is not an Imagination. Continuous research and development at Weishaupt ensure environmental friendly and efficient burners. That is Reliability.



Test facility at Weishaupt R&D centre





Developing improvement.

Weishaupt recognizes the signs of time and researches perpetually to get more efficient and environmental friendly burner systems.

This way not only Weishaupt prevents largely unnecessary energy cost but also actively contributes in conserving the environment.

Weishaupt Corporation 6280 Danville Road Mississauga, ON L5T 2H7, Canada Ph: (905) 564 0946

Ph: (905) 564 0946 Fax: (905) 564 0949 www.weishaupt-corp.com

Weishaupt America Inc. 2587 Millenium Drive, Unit A Elgin, IL 60124, USA Ph: (847) 531 5800

Fax: (847) 531 5855 www.weishaupt-america.com

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