

Capacity range 15–550 kW

Household burners



Table of contents

<u>Oilor</u>	n household burners	6
Oil b	urners	<u>7</u>
	BF 1 FUV HC, BF 1 KSV HC	8
	Technical data	8
	Dimensions	
8		
	Working diagrams	9
	ST 146 KS	10
	Technical data	10
	Dimensions	
10		
	Working diagrams	11
	B 30 A L, B 30 A2.2H	12
	Technical data	12
	Dimensions	
12		
	Working diagrams	13
	B 40, B 40 A2.2H, B 45 A2.2H	14
	Technical data	14
	Dimensions	
14		
	Working diagrams	15

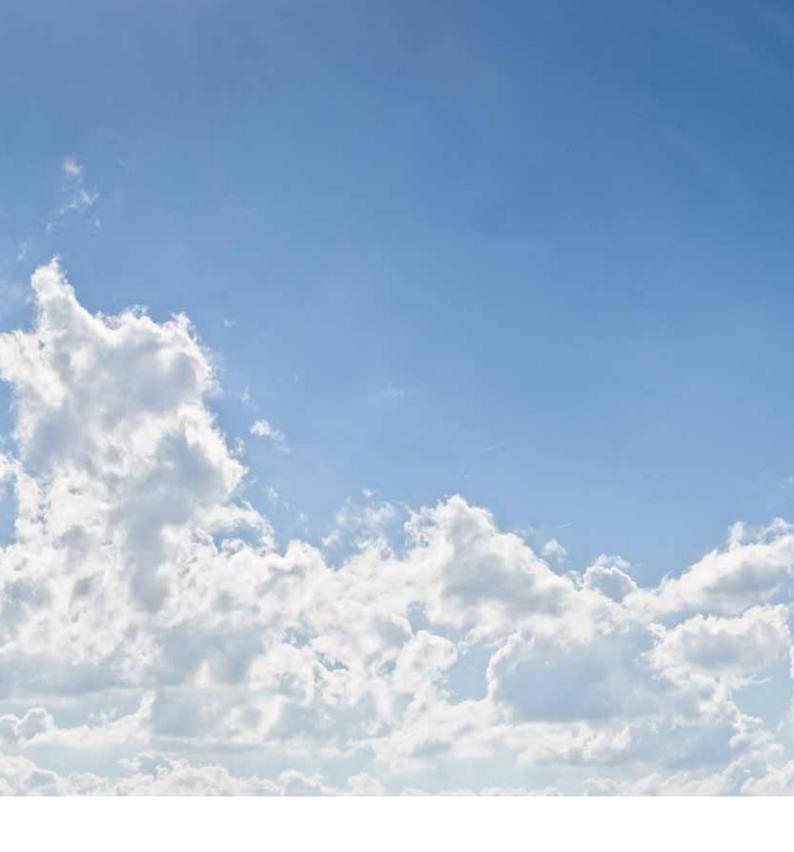
Gas E	Burners	17
	BFG 1 H2 HC, BFG 1 H3 HC	18
	Technical data	18
	Dimensions	
18		
	Working diagrams	19
	STG 146/2	20
	Technical Data	20
	Dimensions	
20		
	Working diagrams	21
	BG 400, BG 400-2	22
	Technical Data	22
	Dimensions	
22		
	Working diagrams	23
	BG 450-2	24
	Technical Data	24
	Dimensions	
24		
	Working diagrams	25
<u>Mour</u>	nting a burner to a boiler	26
Acces	ssories	72
	Oilon Plus	27
	Lämpöparoni electric immersio	on heaters
27		
Oilon	customer service and webshop	28
Mode	ern training facility	29

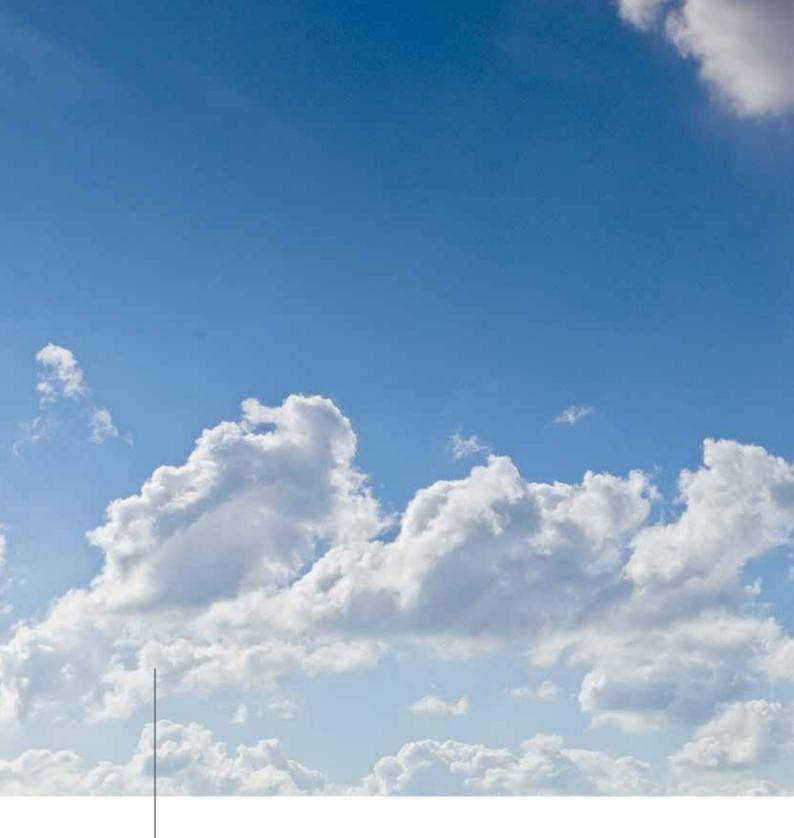
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Oil burners 15–540 kW

17–23

Gas Burners 15–550 kW





For more than half a century, we have delivered environmentally-friendly and energy-efficient combustion solutions for our customers.

The customer has always been the focal point of our business. Perhaps this is the reason why we are known for our company slogan, "Oilon – the warm way".



We are a family-owned technology company, founded in 1961. We have decades of experience in providing heating systems for single-family homes, large buildings, and district heating networks as well as for a multitude of industrial applications and processes.

As a heating system specialist, we offer a versatile range of heating options for both single-family homes and other small and medium-sized buildings.



Our extensive portfolio provides a heating solution for almost any need: ground source heat pumps, air-to-water heat pumps, oil and gas burners as well as hybrid solutions integrating several different energy sources.

As a Finnish company, we recognize that long, harsh winters place exceptional demands on the reliability of heating equipment.

Through our extensive service network, we are able to provide a comprehensive selection of maintenance services and spare parts, ensuring a long and cost-effective life for our products.

Oilon household burners

We offer a versatile selection of burners for heating single-family homes and other small and mediumsized buildings as well as for use in industrial applications. Select your burner based on the required heating capacity and fuel type.

Oilon burners are especially suited for hot water boilers, steam boilers, and hot air generators. They can be used in both forced-draught and induced-draught combustion chambers, and in a wide range of different conditions.

All models feature automatic flame monitoring. Burner operation is controlled by a program relay, which takes care of all the necessary program stages automatically.

Oilon oil burners are designed and manufactured in accordance with standards EN 267 and EN 298 and gas burners with EN 676.

All oil burners presented in this brochure are suitable for firing light fuel oil. For applications requiring renewable heating oils, please contact us, and we will determine which burner solution is best for you.

Our gas burners are compatible with both natural gas and liquefied petroleum gas. In either case, the structure of the burner will be identical. However, burner adjustments and the gas supply pressure depend on the fuel; for further details, refer to your burner's operation and maintenance manual.

Oil burners



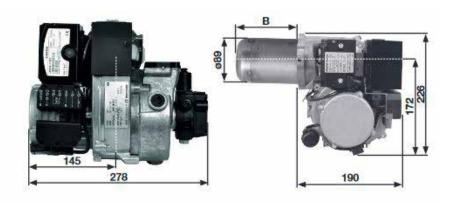


BF 1 FUV HC, BF 1 KSV HC

Technical data

BURNER	BF 1 FUV HC	BF 1 KSV HC
Capacity range, kW kg/h	15–55 1.3–4.6	35–90 3.0–7.6
Input power W/A	368/1.73	368/1.73
Burner motor – Mains voltage, 50 Hz – Rating, W – Current, A	1~230 V 110 0.9	1~230 V 110 0.9
Control unit	LMO14113C2E	LMO14113C2E
Flame detector	QRB4	QRB4
Oil pump	AS47CK	AS47CK
Oil hose connection - suction - return	G1/4" G1/4"	G1/4" G1/4"
Emission class, EN267	4 (ErP)	4 (ErP)
Weight, kg	10	10

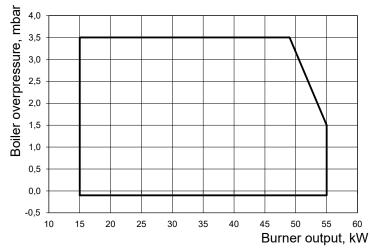
Dimensions



BURNER	В	Boiler flange and gasket's share	Combustion head's free length
BF 1 FUV HC	133	34	99
BF 1 KSV HC	147	33	114



BF 1 FUV HC



BF 1 KSV HC

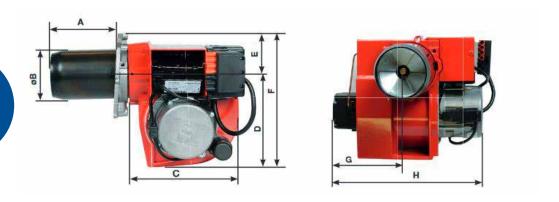




ST 146 KS Technical data

	1
BURNER	ST 146 KS
Capacity, kW	39-119
kg	3.3-10
Input power W/A	299/0.95
Burner motor	
– Mains voltage, 50 Hz	1~230 V
– Rating, W	125
– Current, A	0.95
Control unit	LMO14113C2E
Flame detector	QRB4
Oil pump	AS47CK
Oil hose connection	
– suction	G1/4"
– return	G1/4"
Emission class, EN267	4 (Erp)
Weight, kg	13

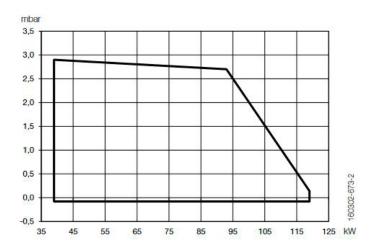
Dimensions



BURNER	Α	ØB	C	D	Е	F	G	Н	l*
ST 146 KS	115.5	109	237	202	54	258	158	295	200

I*= Minimum height from floor





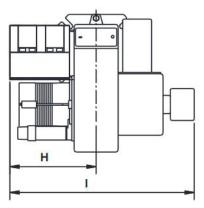


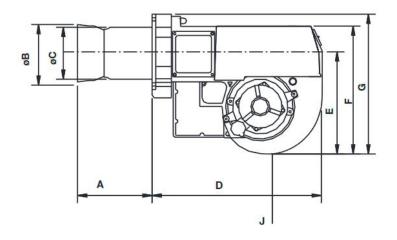
B 30 A L, B 30 A2.2H Technical data

BURNER	B 30 A L	B 30 A2.2H
Capacity, kW	72–200	55–175
kg	6.0-17.0	4.5-15.0
Input power W/A	598/2.6	598/2.6
Burner motor		
– Mains voltage, 50 Hz	1~230 V	1~230 V
– Rating, W	180	180
– Current, A	1.3	1.3
Control unit	LMO14.113C2E	LMO24.255C2E
Flame detector	QRB4	QRB4
Oil pump	AS47CK	A2L65CK
Oil hose connection		
– suction	G1/4"	G1/4"
– return	G1/4"	G1/4"
Emission class, EN267	2	4 (ErP)
Weight, kg	16	19

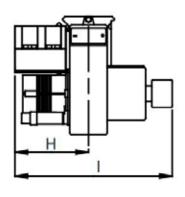
Dimensions

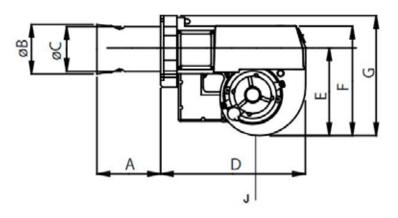
B 30 A L





B 30 A2.2H



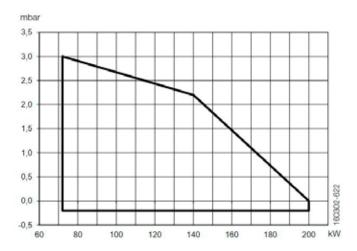


BURNER	Α	øΒ	øC	D	E	F	G	Н	1	J*
B 30 A L	187	108	108	372	220	281	303	188	415	200
B 30 A2.2H	174	108	108	372	220	281	303	188	415	200

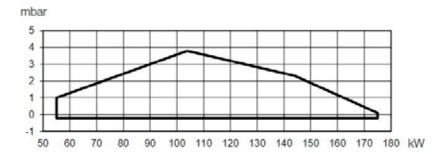
J*= Minimum height from floor



B 30 A L



B 30 A2.2H



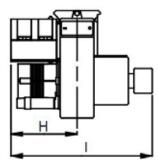


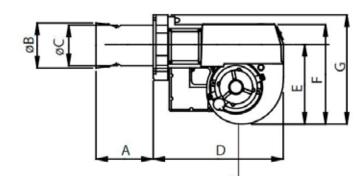
B 40, B 40 A2.2H, B 45 A2.2H Technical data

\mathbf{D} \mathbf{A} \mathbf{O} \mathbf{A} \mathbf{O} \mathbf{A}		2 211	
BISTNERU AZZ	. BE40 A	8 40 A2H	B 45 A2.2H
Capacity, kW	107–350	110–320	102-540
kg	9.0-29.5	9.3-27.0	8.6-45.5
Input power W/A	688/3.03	697/3.03	1065/4.63
Burner motor			
Mains voltage, 50 Hz	1~230 V	1~230 V	1~230 V
– Rating, W	250	250	450
– Current, A	1.7	1.7	4.63
Control unit	LMO14.113C2E	LMO24.255C2E	LMO24.255C2E
Flame detector	QRB4	QRB4	QRB4
Oil pump	AS67CK	A2L65C-75C	A2L75CK
Oil hose connection			
– suction	G1/4"	G1/4"	G1/4"
– return	G1/4"	G1/4"	G1/4"
Emission class, EN267	4 (ErP)	4 (ErP)	2
Weight, kg	23	23	34

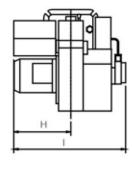
Dimensions

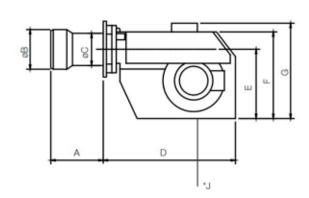
B 40, B 40 A2.2H





B 45 A2.2H



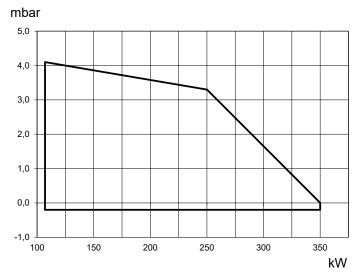


BURNER	Α	øΒ	øC	D	Е	F	G	Н	- 1	J*
B 40	172	126	114	420	260	310	360	195	400	200
B 40 A2.2H	174	130	114	420	260	310	360	207	435	200
B 45 A2.2H	240	159	134	480	252	328	335	262	515	200

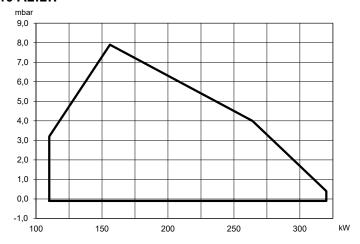
J*= Minimum height from floor



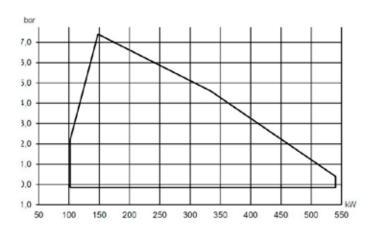
B 40



B 40 A2.2H



B 45 A2.2H







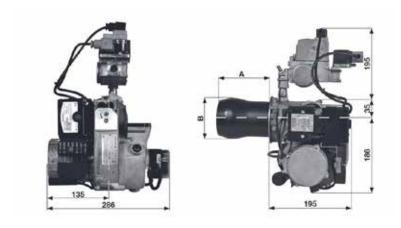
Gas Burners



BFG 1 H2 HC, BFG 1 H3 HC Technical data

BURNER	BFG 1 H2 HC	BFG 1 H3 HC
Capacity range (kW),	15–65	25–100
natural gas		
Capacity range (kW), lique-	15–65	25-100
fied petroleum gas		
Input power W/A	184/1.15	265/1.15
Burner motor		
– Mains voltage, 50 Hz	1~230 V	1~230 V
– Rating, W	110	110
– Current, A	0.9	0.9
Control unit	LME11.230C2E	LME11.230C2E
Flame detector	Ionization electrode	Ionization electrode
Gas valve	GBLD-055	GBLD-055
Gas connection	1/2 "	1/2 "
Emission class, EN 676	3	3
Weight, kg	13	13

Dimensions



BURNER	Α	Boiler flange and gasket's share	Combustion head's free length	В
BFG 1 H2 HC	115	29	86	Ø89
BFG 1 H3 HC	140	20	120	Ø103

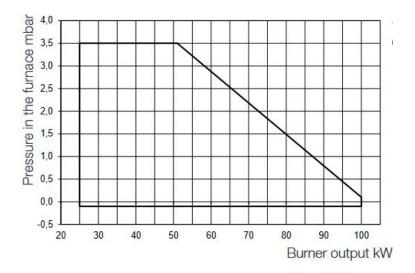
oilon

Working diagrams

BFG 1 H2 HC



BFG 1 H3 HC

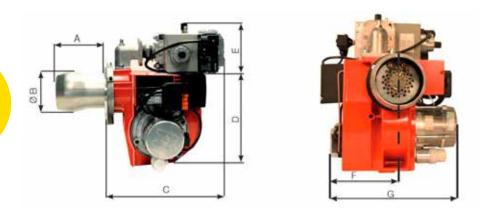




STG 146/2 Technical data

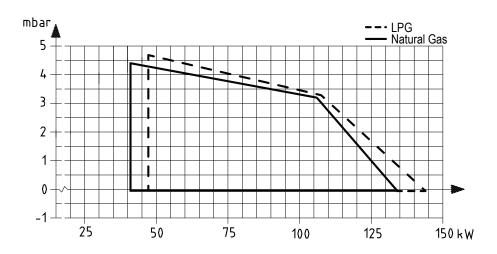
BURNER	STG 146/2
Capacity range (kW),	41–133
natural gas	
Capacity range (kW), lique-	47-144
fied petroleum gas	
Input power W/A	219/2.5
Burner motor	
– Mains voltage, 50 Hz	1~230 V
– Rating, W	125
– Current, A	0.95
Control unit	LME21
Flame detector	Ionization electrode
Gas valve	MBDLE 407
Gas connection	1"
Emission class, EN 676	2
Weight, kg	15

Dimensions



BURNER	Α	øΒ	C	D	E	F	G	J	K	L	M
STG 146/2	122	103	340	253	135	165	305	ø103	ø109.5	ø145	23.5





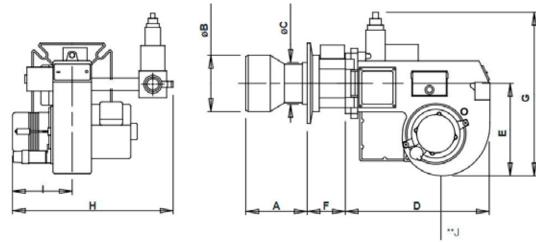


BG 400, BG 400-2 **Technical data**

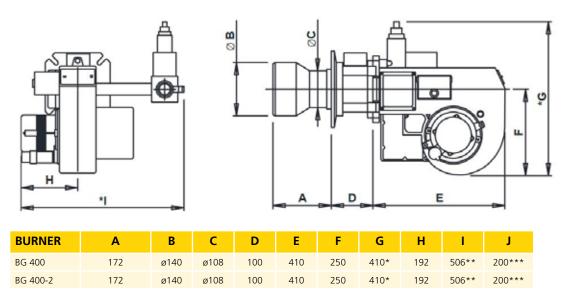
BURNER	BG 400	BG 400-2
Capacity range (kW),	61–320	61–325
natural gas		
Capacity range (kW), lique-	61–350	61–350
fied petroleum gas		
Input power W/A	506/2.2	506/2.2
Burner motor		
– Mains voltage, 50 Hz	1~230 V	1~230 V
– Rating, W	250	250
– Current, A	1.7	1.7
Control unit	LME11.230C2E	LME22.232C2E
Flame detector	Ionization electrode	Ionization electrode
Gas valve	MBDLE 407	MBZRDLE 407
Gas connection	1"	1 "
Emission class, EN 676	2	2
Weight, kg	24	28

Dimensions

BG 400



BG 400-2



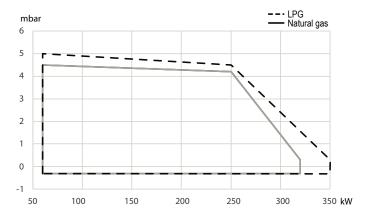
- * The dimensions may vary depending on the components used.

 ** The dimension given here is a maximum dimension, but may vary depending on the components used.

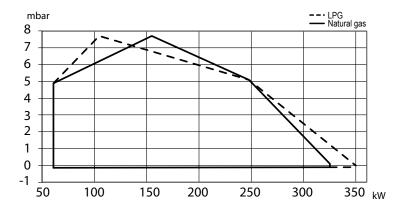
 *** The recommended minimum height from floor level.



BG 400



BG 400-2

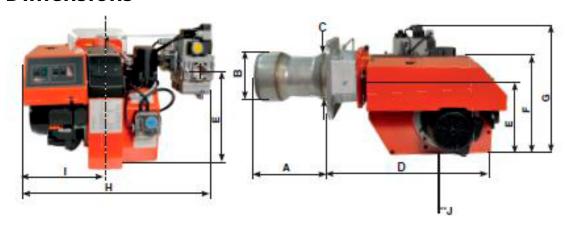




BG 450-2 Technical data

Capacity range (kW), natural gas Capacity range (kW), lique-fied petroleum gas Input power W/A Burner motor - Mains voltage, 50 Hz - Rating, W - Current, A Control unit Flame detector Gas valve Gas connection Emission class, EN 676 Weight, kg 120–550 12		
natural gas Capacity range (kW), lique- fied petroleum gas Input power W/A Burner motor - Mains voltage, 50 Hz - Rating, W - Current, A Control unit Flame detector Gas valve MBZRDLE 412 Gas connection Lauguer M120–550 120–55	BURNER	BG 450-2
Capacity range (kW), lique- fied petroleum gas Input power W/A Burner motor - Mains voltage, 50 Hz - Rating, W - Current, A Control unit Flame detector Gas valve MBZRDLE 412 Gas connection Emission class, EN 676 120–550 1	Capacity range (kW),	120-550
fied petroleum gas Input power W/A Burner motor - Mains voltage, 50 Hz - Rating, W - Current, A Control unit Flame detector Gas valve MBZRDLE 412 Gas connection Emission class, EN 676 759/3.3 1~230 V 450 450 LME22.232C2E Ionization electrode MBZRDLE 412 3.3 1 1/2 " Emission class, EN 676	natural gas	
Input power W/A 759/3.3 Burner motor - Mains voltage, 50 Hz 1~230 V - Rating, W 450 - Current, A 3.3 Control unit LME22.232C2E Flame detector lonization electrode Gas valve MBZRDLE 412 Gas connection 1 1/2 " Emission class, EN 676 3	Capacity range (kW), lique-	120-550
Burner motor - Mains voltage, 50 Hz - Rating, W - Current, A Control unit Flame detector Gas valve Gas connection Emission class, EN 676 Mains voltage, 50 Hz 1 ~230 V 450 LME22.232C2E Ionization electrode MBZRDLE 412 3 1 1/2 " Emission class, EN 676 3	fied petroleum gas	
- Mains voltage, 50 Hz - Rating, W - Current, A Control unit Flame detector Gas valve Gas connection Emission class, EN 676 1 ~230 V 450 450 LME22.232C2E Ionization electrode MBZRDLE 412 All 1/2 " Emission class, EN 676 3	Input power W/A	759/3.3
- Rating, W 450 - Current, A 3.3 Control unit LME22.232C2E Flame detector Ionization electrode Gas valve MBZRDLE 412 Gas connection 1 1/2 " Emission class, EN 676 3	Burner motor	
- Current, A 3.3 Control unit LME22.232C2E Flame detector lonization electrode Gas valve MBZRDLE 412 Gas connection 1 1/2 " Emission class, EN 676 3	– Mains voltage, 50 Hz	1~230 V
Control unit EME22.232C2E Flame detector Gas valve Gas connection Emission class, EN 676 LME22.232C2E Ionization electrode MBZRDLE 412 1 1/2" Emission class, EN 676	– Rating, W	450
Flame detector Ionization electrode Gas valve MBZRDLE 412 Gas connection 1 1/2 " Emission class, EN 676 3	– Current, A	3.3
Gas valve MBZRDLE 412 Gas connection 1 1/2 " Emission class, EN 676 3	Control unit	LME22.232C2E
Gas connection 1 1/2" Emission class, EN 676 3	Flame detector	Ionization electrode
Emission class, EN 676	Gas valve	MBZRDLE 412
·	Gas connection	1 1/2"
Weight, kg 50	Emission class, EN 676	3
	Weight, kg	50

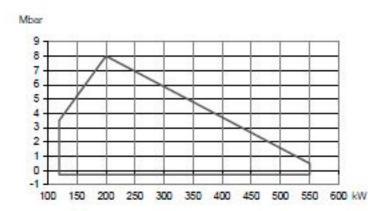
Dimensions



BURNER	Α	В	C	D	E	F	G	Н	- 1	J**
BG 450-2	256	ø160	ø162	538	252	328	500*	640*	262	200

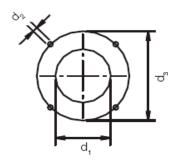
- * The dimension given here is a maximum dimension, but may vary depending on the components used. *** The recommended minimum height from floor level.







Mounting a burner to a boiler



BURNER	d1	d2	d3				
BURINER	u i	uz	u5				
BF 1 FUV HC	a0E	M8	ø130–150				
BF 1 KSV HC	ø95	IVIO	150–150				
BFG 1 H2 HC	ø95	M8	ø125–150				
BFG 1 H3 HC	ø115	M8	ø145				
ST 146 KS	ø95	M10	ø125–150				
B 30 A2.2H	ø115	M10	ø160–200				
B 30 A L	CIIW	IVITO	Ø100–200				
B 40	ø120	M14	~200 2E0				
B 40 A2.2H	Ø120	IVI I 4	ø200–250				
B 45 A2.2H	ø 170	M14	ø 224–270				
STG 146/2	ø115	M10	ø140–170				
BG 400	~1EO	N410	~175 240				
BG 400-2	ø150	M10	ø175–240				
BG 450-2	ø175	M12	ø255–290				

Accessories

Oilon Plus

With the Oilon Plus filter and deaerator unit, only a single hose is required between the oil tank and the burner, making for a more environmentally-friendly system. The unit reduces wear and tear and protects the burner from faults caused by impurities in the oil (from the oil tank, the hose or the oil itself), reducing the need for cleaning and maintenance. Oilon Plus is suitable for burners in the 10–400 kW capacity range.

An Oilon Plus single-hose system is a neat and elegant solution that not only filters the oil effectively but also removes any gas bubbles in the stream. A major benefit of a single-hose system is that there is no risk of oil leaks caused by a break in the return line.

The Oilon Plus single-hose system is intended for single family homes and other small buildings. The system is easy to install in both existing and new buildings with oil heating. If installed in an existing system, the return inlet is first plugged, and the Oilon Plus unit installed in the suction pipe. In new buildings, only a single hose needs to be installed between the tank and the burner.



Lämpöparoni electric immersion heaters

Oilon offers automatic backup immersion heaters for oil heating systems and ground-source heat pump systems.

Single-stage heaters

- 3.0 kW (VB 3010)
- 4.5 kW (VB 4510)
- 6.0 kW (VB 6010)

Two-stage heaters

- 6.0 kW (VB 6001)
- 9.0 kW (VB 9001)



Single-stage immersion heaters are equipped with a three-pole control thermostat. When powered on, the heater will always operate at full capacity. Two-stage immersion heaters have a four-pole thermostat, and the heater operates in two stages (at partial capacity or at full capacity).

A Lämpöparoni electric immersion heater comprises a heating element unit, which can be installed in an R2" threaded port, as well as a control box with a terminal strip for power cables, main switch, limit thermostat (for overheat protection), control thermostat, and a power indicator light for the heating element.

Oilon customer services and webshop



28

Implementation and maintenance services

We have extensive expertise in combustion technology and a comprehensive understanding of various processes. Through our network of partners, we offer reliable commissioning, maintenance, and training services for all needs. Our expertise ensures clean and environmentally-friendly combustion and an optimal coefficient of performance for your system.

Technical support

Our technical support service is intended for retailers, maintenance companies, and end customers. If you have any questions about technical issues or warranty, please contact us. Additionally, we deliver modernization projects covering everything from design and planning to implementation and delivery with high skill and expertise.

Spare part services

Our spare part services will support you throughout your installation's lifecycle.

- spare part recommendations for both new and existing systems
- spare parts for servicing and maintenance

Spare parts store

For repair and maintenance companies and retailers, our online store provides a direct and convenient way to obtain spare parts. Contact our spare parts sales service and we will provide you with a password to access our spare parts webstop.



Modern training facility







We provide high-level training for our products, and the goal of our product training is to improve the professional skills of installation and maintenance companies.

Our theoretical sessions focus on key considerations for our burners' operating environment and components.

Practical training, in turn, covers topics such as burner adjustment and fault diagnostics.

We also underline the importance of low emission values for the environment.



For several decades, Oilon has delivered heating systems for single-family homes and industrial operators alike.

Our extensive portfolio provides a heating solution for almost any need: ground source heat pumps, air-to-water heat pumps, oil and gas burners as well as hybrid solutions integrating several different energy sources.

We offer a multitude of new eco-friendly heating solutions.

The customer has always been the focal point of our business. Perhaps this is the reason why we are known for our company slogan, "Oilon – the warm way".

