Light oil burners

baltur

Series

BTL - SPARK
BT - GI

BTL - SPARK - BT - GI

Light oil burners

Certificate of quality

In 1994, we were awarded the **UNI EN ISO** **9001** Certificate of Quality, one of the first firms to do so in the field.
What this means is that every stage of the Baltur production cycle, from **design**, to **production**, through to **after-sales service**, meets rigorous European standards. The award amounts to recognition of a continuing desire on our part to improve our range of products and services and offer our customers a total quality guarantee.

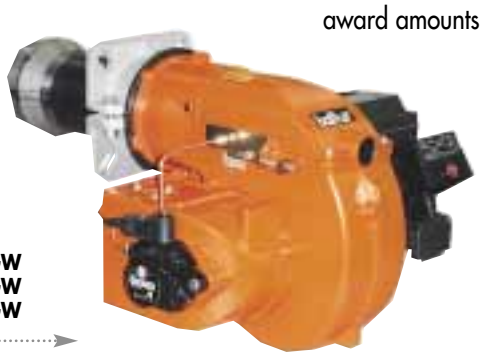
BTL 0
BTL 0 H
BTL 3
BTL 3 H
BTL 4
BTL 4 H
BTL 6
BTL 6 H
BTL 10

BTL 4 P
BTL 6 P
BTL 10 P

For several years now, our policy has been directed to the protection of the environment, a philosophy quite ahead of its time; the outstanding results we have obtained, in connection with the reliability of our products and the extremely high fuel performance levels reached, are the fruits of our commitment to innovation in the Research & Development sector. This desire for innovation has taken form in **Baltur's Research Centre**, where a team of highly skilled technicians, experts in fuel technology, carry out rigorous tests and experiments on burner prototypes and thermal units with capacity ranging from 16 to 46000 kW.

SPARK 26
SPARK 35

SPARK 26 DSG
SPARK 35 DSG



SPARK 18 W
SPARK 26 W
SPARK 35 W

SPARK 18 DSGW
SPARK 26 DSGW
SPARK 35 DSGW

High technological content

The construction of Baltur burners is based on criteria aimed to creating heating units which

Symbols used

BTL...
SPARK... • SPARK...W
BT...G • BT...GW
Single-stage (On-Off) light oil burners.

BTL...P
SPARK...DSG • SPARK...DSGW
BT...DSG • BT...DSGW
Two-stage light oil burners.

...H
With preheater.
...W
Without cover.

The letters indicate the model; the capacity of the burners is indicated in the empty spaces.

BT 14 GW
BT 14 G
BT 34 G

BT 14 DSGW
BT 14 DSG
BT 34 DSG

are extremely reliable and which offer easy access to every single component, an important factor when it comes to repairing, cleaning, checking or servicing the machine. The special pressurisation features, the compact size of the burners in proportion to their heating capacity, the very low electrical energy consumption - these features complete the technical and functional checklist of a product with a high technical content.

BT 40 G
BT 60 G

BT 40 DSG
BT 55 DSG
BT 75 DSG/3V
BT 100 DSG
BT 120 DSG/3V
BT 180 DSG/3V
BT 250 DSG
BT 300 DSG
BT 350 DSG

BT 75 DSPG
BT 100 DSPG
BT 120 DSPG
BT 180 DSPG
BT 250 DSPG
BT 300 DSPG
BT 350 DSPG

Main characteristics

• **Monoblock burner** casing in cast aluminium.

• **Fan** having a specially designed structure with strong pressurisation, to ensure safe operation even when the burner is fitted on semi-pressurised or pressurised boilers.

• **Sliding coupling flange** on combustion head which allows installer to pin-point the exact position of the combustion head in relation to the boiler furnace and thereby connect them with precision.

• **Combustion head**, constructed to produce the best burner combustion rates at every point in the operating range.

• **Electronic equipment** controlling the entire operating cycle and safety functions.

• **Wide range** of models and capacities.

• **Easy to install and service.**

• **The burners are supplied ready for mounting purposes**.

Operation

Baltur burners are constructed in single-stage, two-stage, progressive two-stage models and progressive two-stage model with modulation kit (the last model carries out the modulating operation).

• **Single-stage**: the burner is provided with only the on/off functions.

• **Two-stage**: the burner operates on high/low function, a low flame function and a maximum thermal power function.
From this last position, the burner can automatically (by control of the specific thermostat or pressure switch) switch back to low flame operation.

• **Progressive two-stage (DSPG)**
Progressive two-stage burners are able to operate at two different heating power levels, passing from one to the other by operation of a special sensor (either thermostat or pressure switch) over a defined period of time: this is the period of time required by the servomotor controlling the thermal power to move up from the minimum value to the maximum and vice-

Burner model with hinge (available to order).

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Light oil burners

versa.
The air/fuel ratio can be adjusted over the entire operating range (minimum-maximum) with extreme precision, depending on the specific needs of the boiler.

• **Modulating operation**: modulating burners are used whenever the thermal power has to be varied continuously in order to adapt itself to the specific needs of the boiler which are also subject to fluctuations.
This type of operation is obtained by equipping the models in the DSPG - series (progressive two-stage) with an automatic thermal

Modulating effect obtained with electric servomotor which allows the correct air/fuel ratio to be maintained at all times, throughout the modulation range.

Industrial burner production line.

GI 350 DSPG
GI 420 DSPG
GI 510 DSPG

power regulator (RWF40) which, with the use of a sensor (either temperature or pressure) controls the regulation servomotor, either by increasing or decreasing the thermal power supplied.
The RWF40 regulator is a PID-typemodel (proportional, integral, differential).
Parameters can be adjusted by effecting the data settings on the regulator.
Naturally, the thermal power level can only be varied within the "minimum" and "maximum" limits applying to the burner.

Industrial burner series

GI Series - Large systems

The industrial burners in the GI series have been designed specifically for industrial use.
They are constructed in a monoblock version (and are therefore more compact than conventional industrial burners, with the same capacity) with capacity ranging from 1581 to 10500 kW.

TS and PYR series

In addition to the GI burners, the industrial series also includes models with larger capacities: the TS series with separate fan and the PYR series with separate fan and adjustable flame.
Information on these models can be found in the relevant brochure.

GI 1000 DSPG

Symbols used

BT...DSG • BT...DSG/3V
Two-stage light oil burners.

BT...DSPG • GI...DSPG
Progressive two-stage/modulating light oil burners. Return nozzle and nozzle's closing by electromagnet controlled bars.

The letters indicate the model; the capacity of the burners is indicated in the empty spaces.

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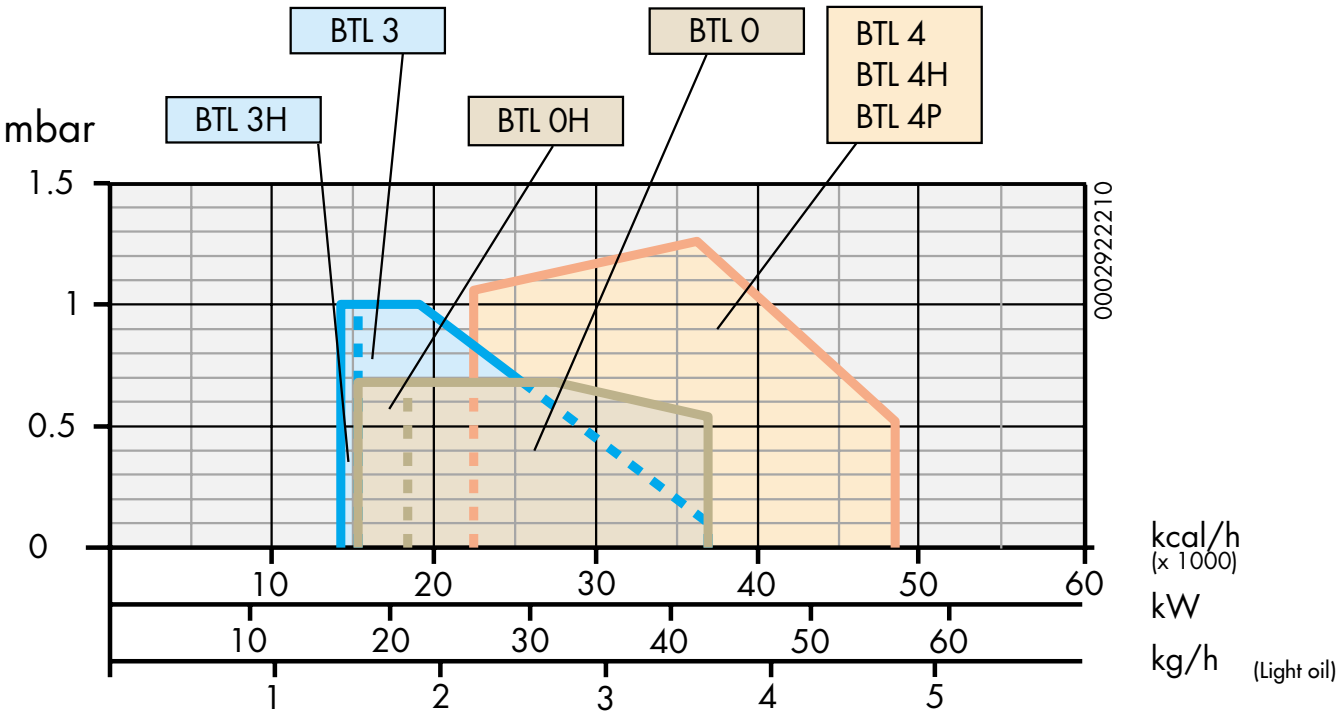
Light oil burners

Operating ranges



Warning

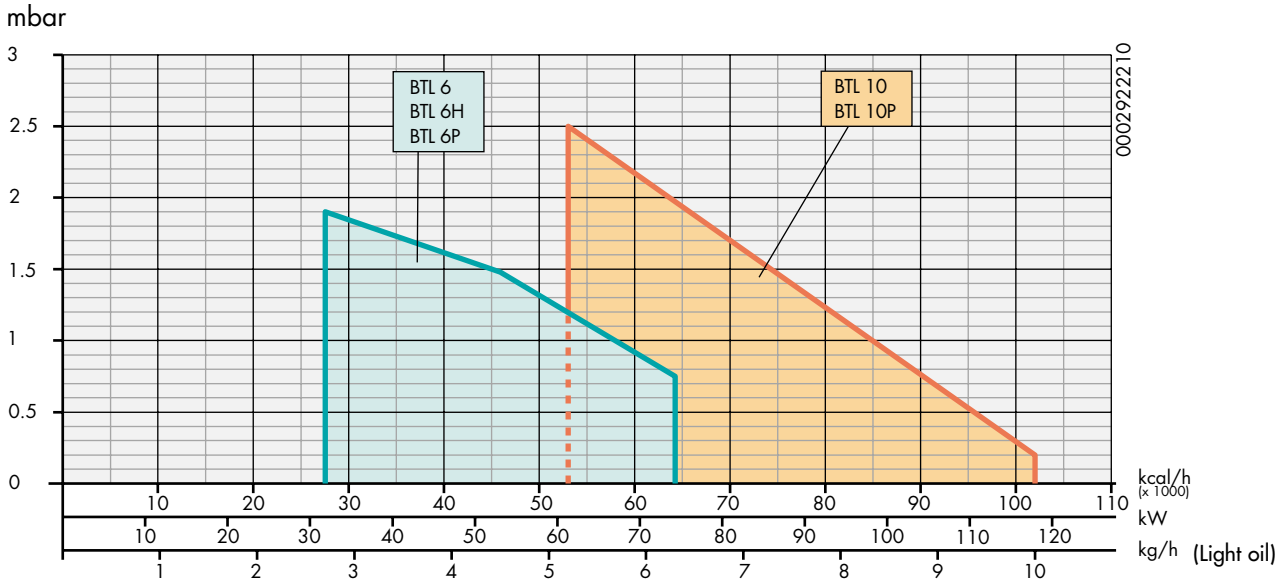
The diagrams are intended as mere guidelines and are based on test boilers complying with current regulations.

In reality, variations may occur, due to the following factors:

a) the ability of the burner to overcome the excess pressure generated upon lighting (not strictly linked to that applying during normal operation) which tends to vary from one boiler to another;

b) high thermal load in furnace (ratio between thermal power of furnace and relevant volume - kcal/h/m³) which may prevent the burner fan from exploiting the entire operating range.

Operating ranges



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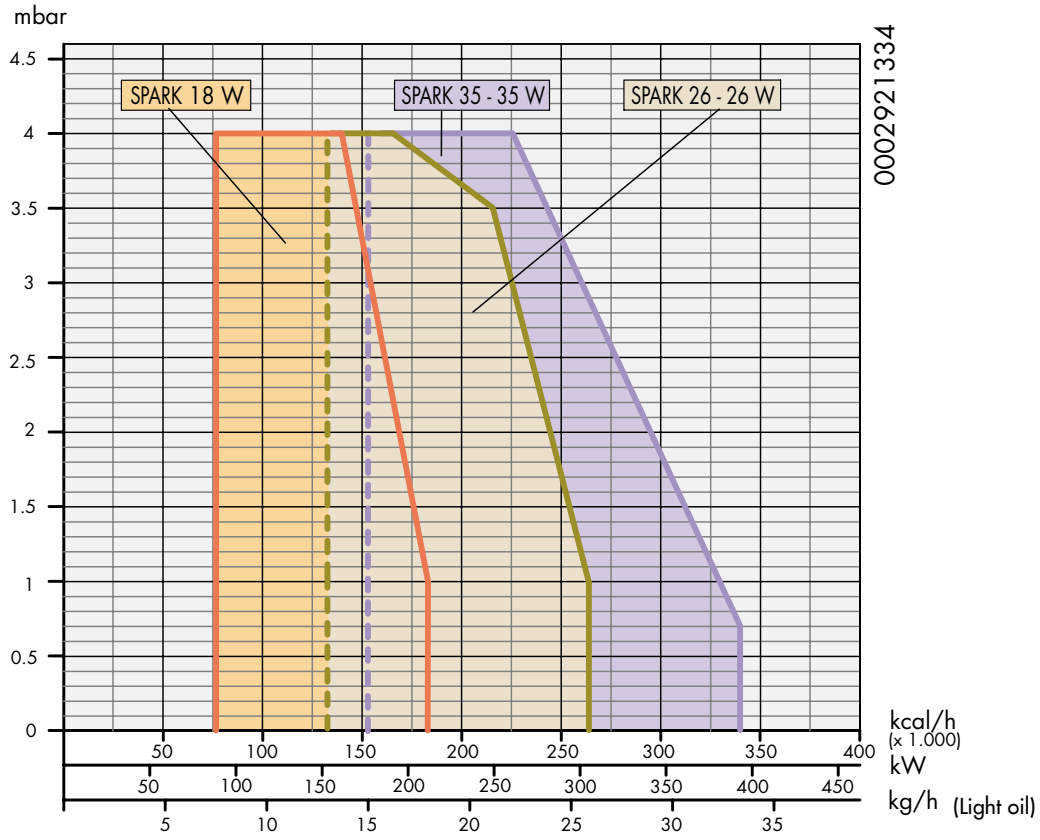
Light oil burners

Operating ranges



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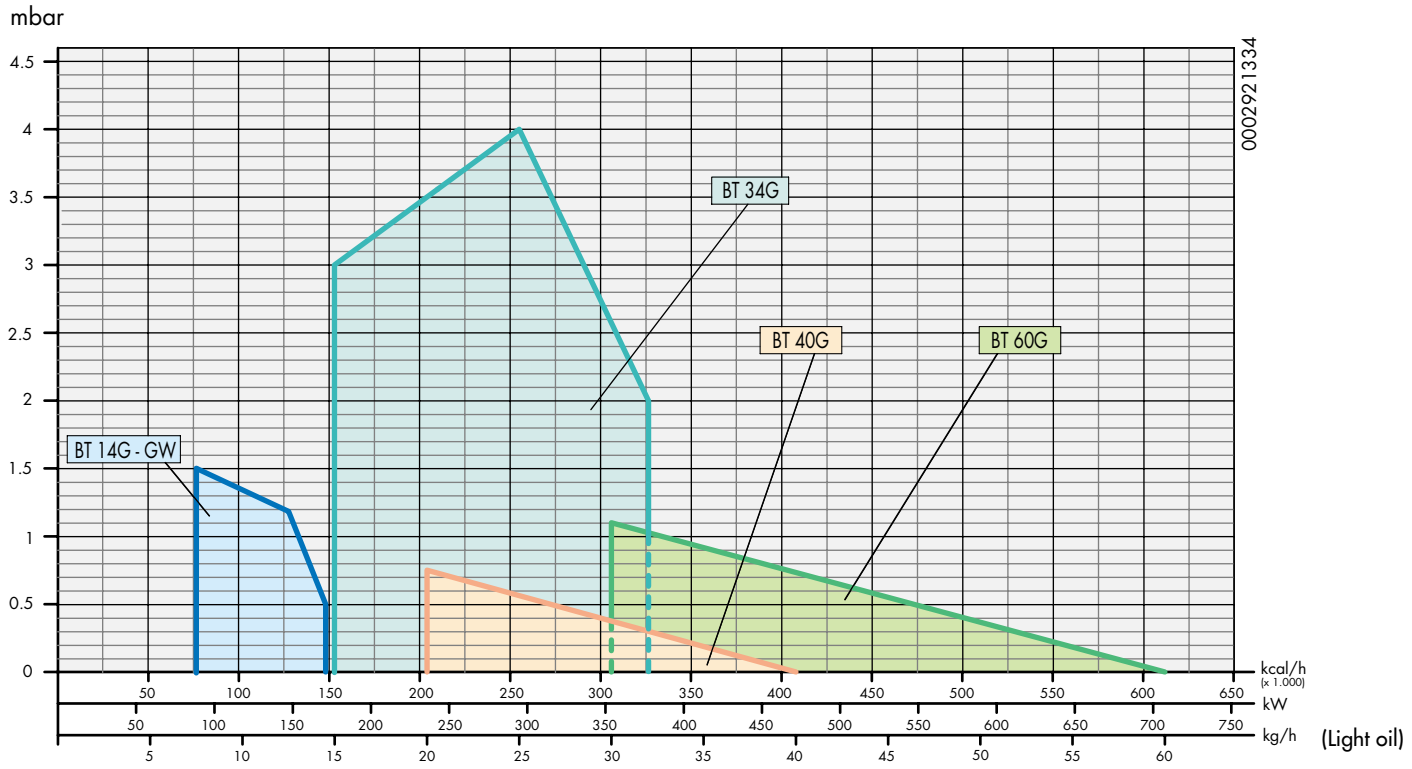
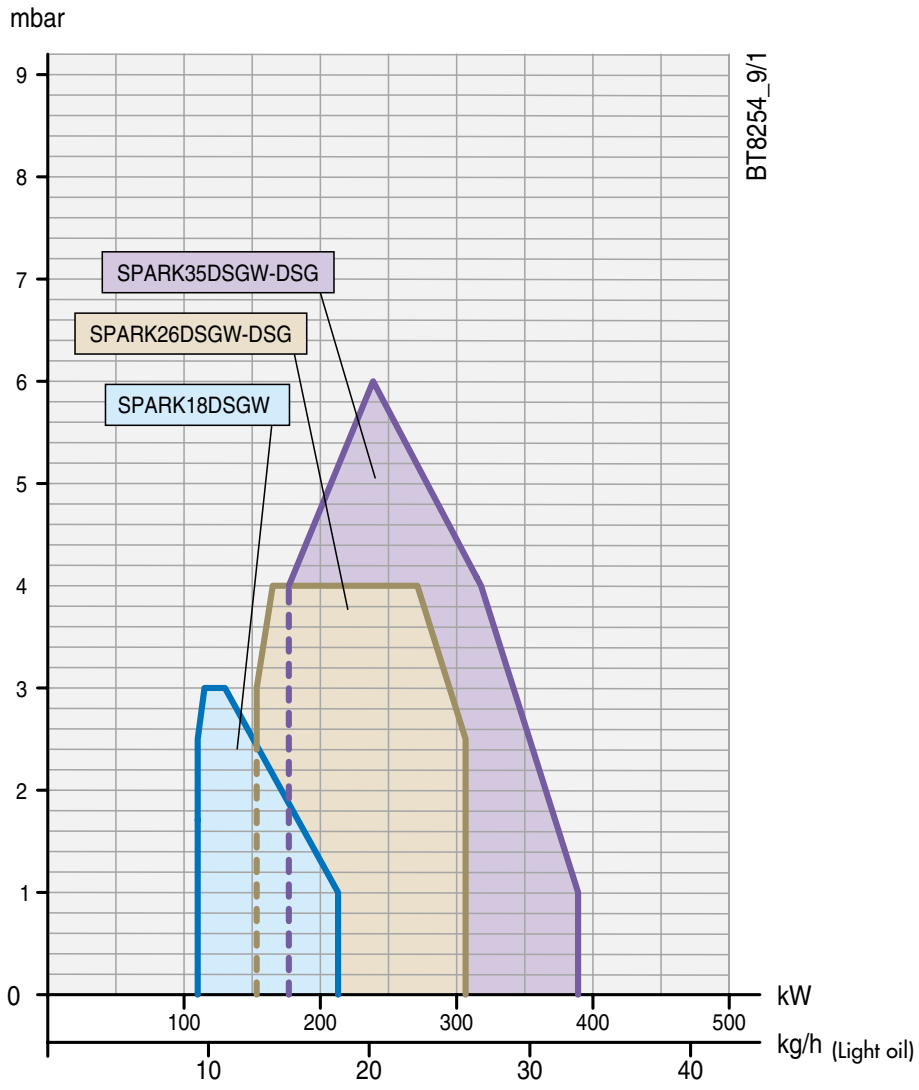
Operating ranges



BTL - SPARK - BT - GI

Light oil burners

Operating ranges



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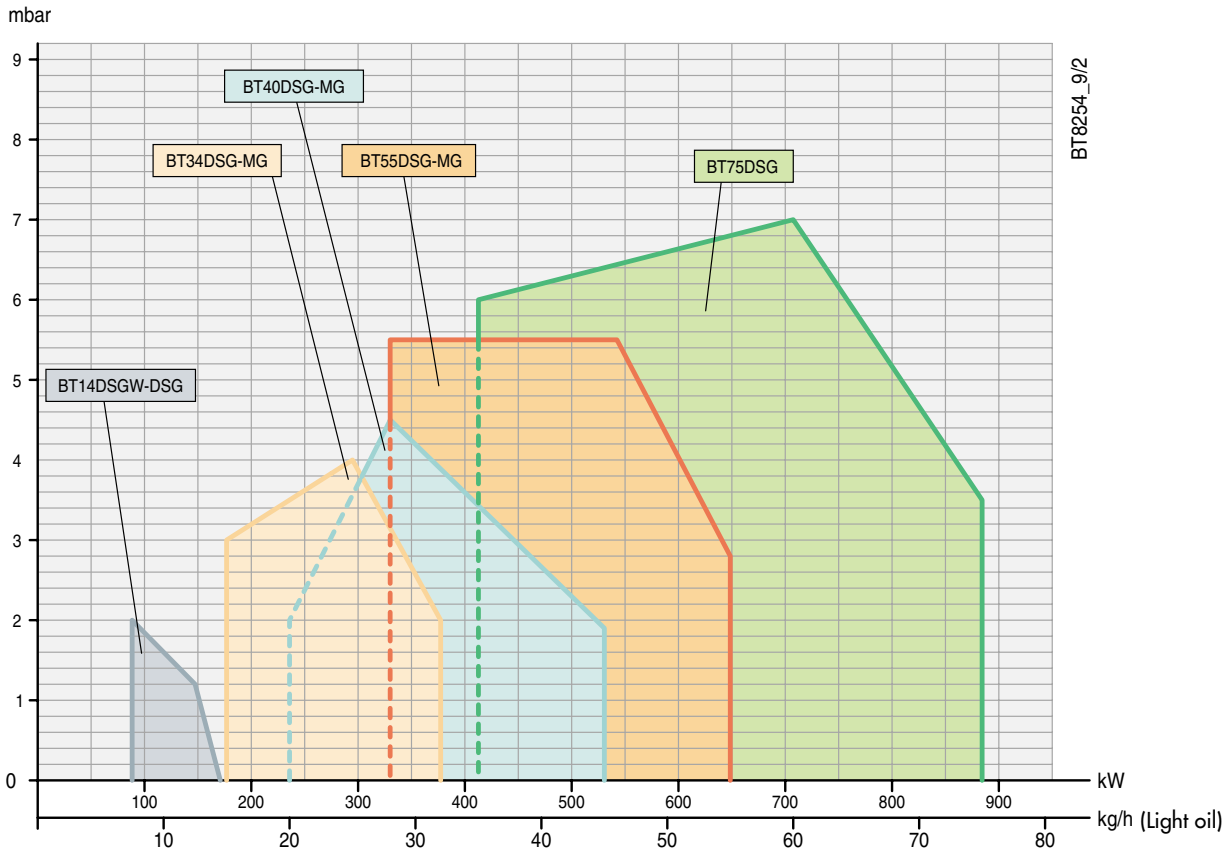
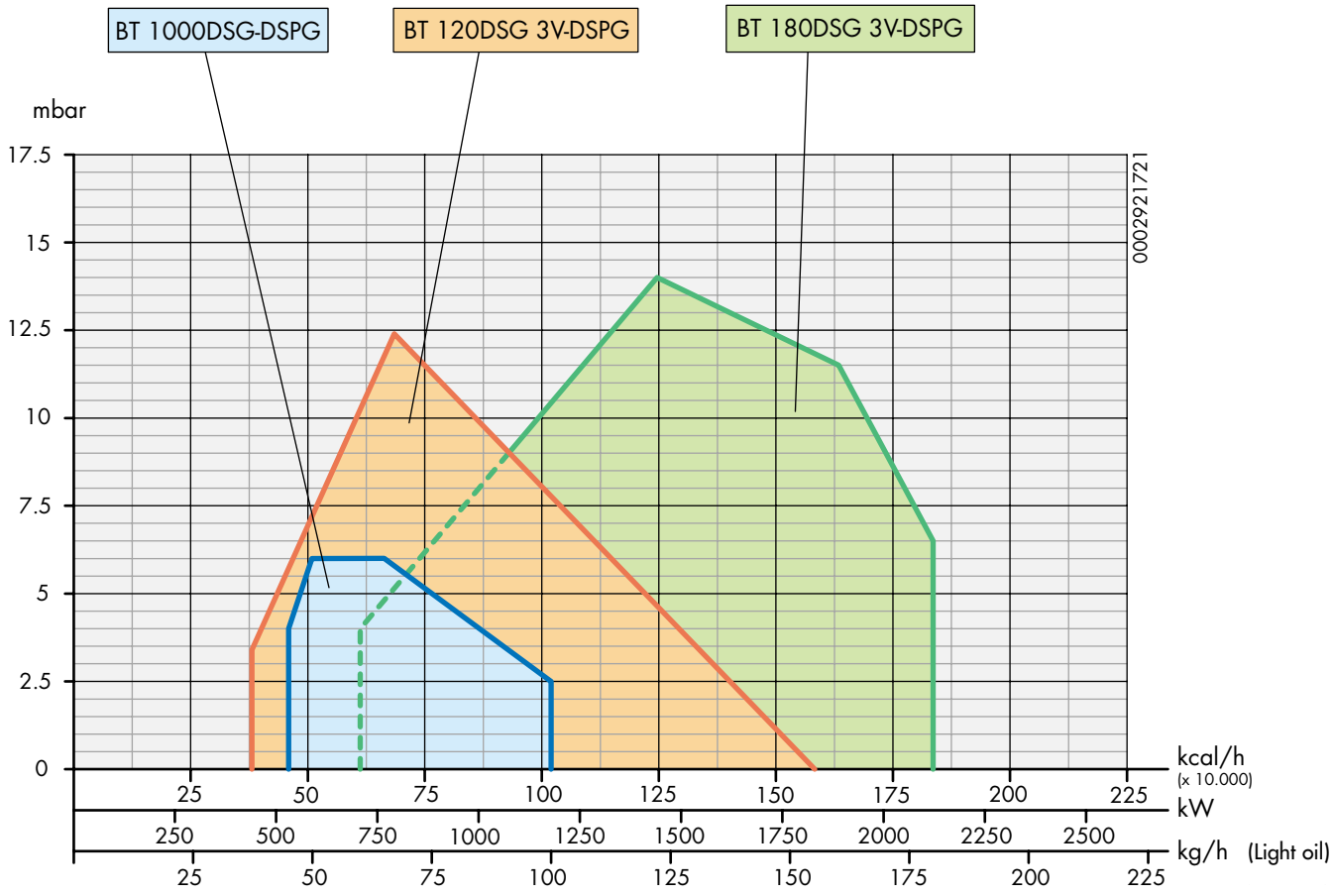
Operating ranges



BTL - SPARK - BT - GI

Light oil burners

Operating ranges



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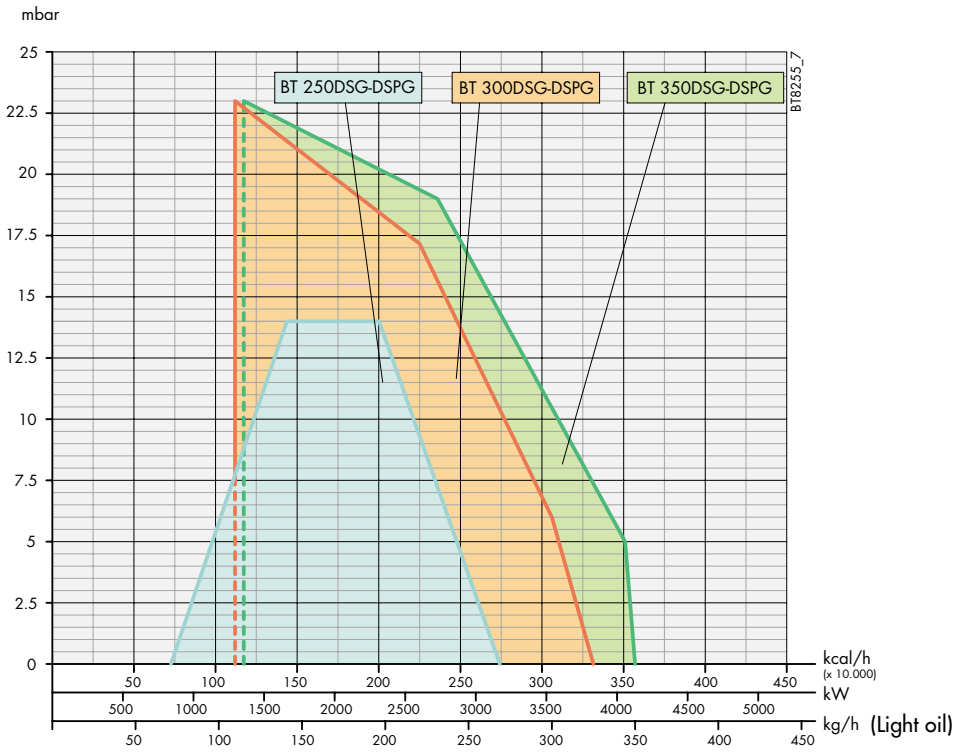
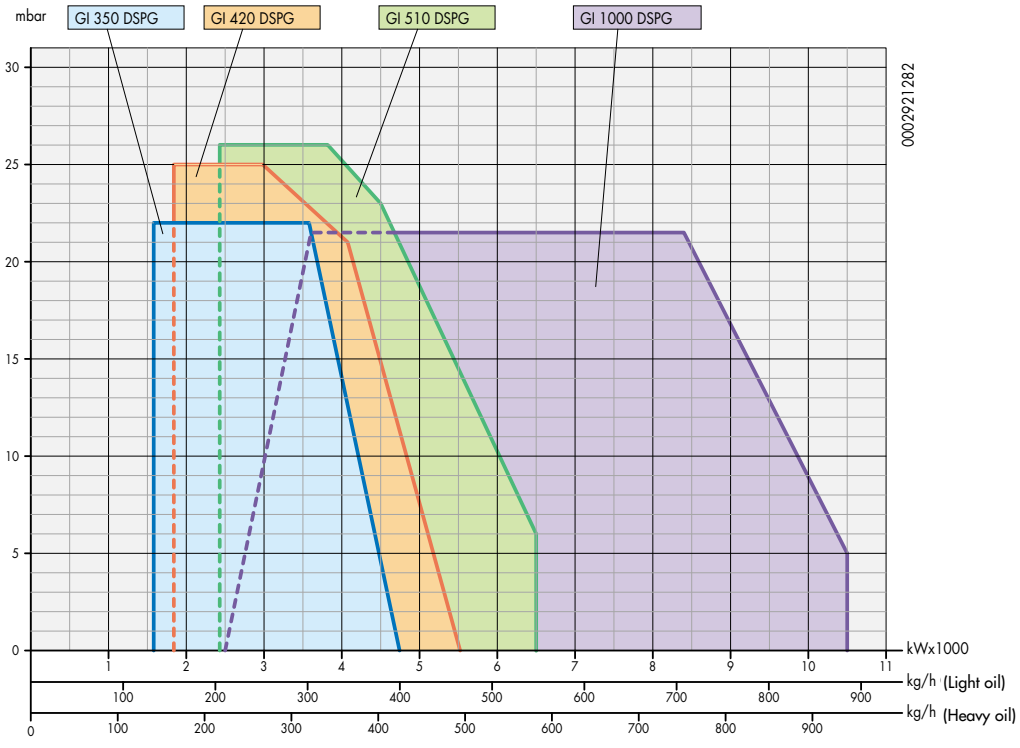
Operating ranges





For higher ratings, besides GI burners, the industrial series also include the TS series with separate fan and PYR with separate fan and adjustable flame. Please see the relevant publication for details.

BTL - SPARK - BT - GI

Light oil burners

Technical data

One-stage

Model	Capacity min. kg/h	Capacity max kg/h	Burner output [a] min. kW	Burner output [a] max kW	Mains supply	Motor power kW	Package dimensions L x P x H mm	Weight kg	Notes
BTL 3	1,50	3,6	17,8	42,7	1N ~ 50 Hz 230 V	0,09	400 x 280 x 280	9	[1]
BTL 3 H	1,40	3,6	16,6	42,7	1N ~ 50 Hz 230 V	0,09	400 x 280 x 280	9	[1] - [5]
BTL 0	1,80	3,6	21,3	42,7	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BTL 0 H	1,57	3,6	18,6	42,7	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1] - [5]
BTL 4	2,20	4,7	26,0	56,1	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BTL 4 H	2,20	4,7	26,0	56,1	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1] - [5]
BTL 6	2,70	6,3	31,9	74,3	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BTL 6 H	2,70	6,3	31,9	74,3	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1] - [4]
BTL 10	5,10	10,0	60,2	118,0	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BT 14 G • 14 GW	7,50	14,5	89,0	172,0	1N ~ 50 Hz 230 V	0,13	480 x 450 x 320	16	[2]
SPARK 18 W	7,60	18,0	90,0	213,0	1N ~ 50 Hz 230 V	0,25	650 x 500 x 380	32	[2] - [8]
SPARK 26 • 26 W	13,00	26,0	154,0	308,0	1N ~ 50 Hz 230 V	0,37	815 x 540 x 490	36	[2] - [8]
SPARK 35 • 35 W	15,00	33,0	178,0	391,0	1N ~ 50 Hz 230 V	0,37	980 x 540 x 480	36	[2] - [8]
BT 34 G	15,00	32,0	178,0	380,0	3N ~ 50 Hz 400 V	0,37	1080 x 530 x 460	32	[2]
BT 40 G	20,00	40,0	237,0	474,0	3N ~ 50 Hz 400 V	0,37	1060 x 660 x 600	54	[2]
BT 60 G	30,00	60,0	356,0	712,0	3N ~ 50 Hz 400 V	0,75	1070 x 720 x 710	78	[2]

Two-stage

Model	Capacity min. kg/h	Capacity max kg/h	Burner output [a] min. kW	Burner output [a] max kW	Mains supply	Motor power kW	Package dimensions L x P x H mm	Weight kg	Notes
BTL 4 P	2,2	4,7	26,0	56,1	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BTL 6 P	2,7	6,3	31,9	74,3	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BTL 10 P	5,1	10,0	60,2	118,0	1N ~ 50 Hz 230 V	0,11	540 x 300 x 320	12	[1]
BT 14 DSG • 14 DSGW	7,5	14,5	89,0	172,0	1N ~ 50 Hz 230 V	0,13	600 x 460 x 290	21	[2]
SPARK 18 DSGW	9,3	18,0	110,0	213,0	1N ~ 50 Hz 230 V	0,25	650 x 500 x 380	32	[3] - [8]
SPARK 26 DSG • 26 DSGW	13,0	26,0	154,0	308,0	1N ~ 50 Hz 230 V	0,37	980 x 540 x 480	36	[3] - [8]
SPARK 35 DSG • 35 DSGW	15,0	33,0	178,0	391,0	1N ~ 50 Hz 230 V	0,37	1080 x 530 x 460	36	[3] - [8]
BT 34 DSG	15,0	32,0	178,0	380,0	3N ~ 50 Hz 400 V	0,37	1080 x 530 x 460	35	[2]
BT 40 DSG	20,0	45,0	236,0	531,0	3N ~ 50 Hz 400 V	0,37	1060 x 660 x 600	57	[2]
BT 55 DSG	28,0	55,0	331,0	652,0	3N ~ 50 Hz 400 V	1,10	1320 x 660 x 670	66	[2]
BT 75 DSG 3V	35,0	75,0	415,0	889,0	3N ~ 50 Hz 400 V	1,10	1320 x 660 x 670	70	[2]
BT 100 DSG	45,0	100,0	533,0	1186,0	3N ~ 50 Hz 400 V	1,50	1510 x 750 x 720	91	[2]
BT 120 DSG 3V	40,0	140,0	474,0	1660,0	3N ~ 50 Hz 400 V	2,20	1730 x 1030 x 880	150	[2]
BT 180 DSG 3V	60,0	180,0	712,0	2135,0	3N ~ 50 Hz 400 V	3,00	1730 x 1030 x 880	180	[3]
BT 250 DSG	74,0	270,0	873,0	3186,0	3N ~ 50 Hz 400 V	7,50	1730 x 1030 x 880	225	[3]
BT 300 DSG	110,0	325,0	1304,0	3854,0	3N ~ 50 Hz 400 V	7,50	2030 x 1210 x 990	265	[3]
BT 350 DSG	115 ,0	350,0	1364 ,0	4151,0	3N ~ 50 Hz 400 V	9,00	2260 x 1520 x 1200	310	[3]

Technical data

Progressive two-stage/modulating [c])

Model	Capacity min. kg/h	Capacity max kg/h	Burner output [a]) min. kW	Burner output [a]) max kW	Mains supply	Motor power kW	Package dimensions L x P x H mm	Weight kg	Notes
BT 75 DSPG	35	75	415	889	3N ~ 50 Hz 400 V	1,1	1510 x 750 x 720	105	[3]) - [6])
BT 100 DSPG	45	100	533	1186	3N ~ 50 Hz 400 V	1,5	1730 x 1030 x 880	109	[3]) - [6])
BT 120 DSPG	40	140	474	1660	3N ~ 50 Hz 400 V	2,2	1730 x 1030 x 880	168	[3]) - [6])
BT 180 DSPG	60	180	712	2135	3N ~ 50 Hz 400 V	3,0	1730 x 1030 x 880	220	[3]) - [6])
BT 250 DSPG	74	270	873	3186	3N ~ 50 Hz 400 V	7,5	2030 x 1210 x 990	256	[3]) - [6])
BT 300 DSPG	110	325	1304	3854	3N ~ 50 Hz 400 V	7,5	2030 x 1210 x 990	290	[3]) - [6])
BT 350 DSPG	115	350	1364	4151	3N ~ 50 Hz 400 V	9,0	2030 x 1210 x 990	335	[3]) - [6])
GI 350 DSPG	134	402	1581	4743	3N ~ 50 Hz 400 V	15,0+2,2	2260 x 1520 x 1200	500	[3]) - [6])
GI 420 DSPG	156	468	1840	5522	3N ~ 50 Hz 400 V	18,5+2,2	2260 x 1520 x 1200	540	[3]) - [6])
GI 510 DSPG	206	548	2430	6500	3N ~ 50 Hz 400 V	18,5+3,0	2260 x 1520 x 1200	580	[3]) - [6])
GI 1000 DSPG	212	890	2500	10500	3N ~ 50 Hz 400 V	22,0+4,0	2350 x 1450 x 1600	900	[3]) - [7])

Notes

GI burners, the industrial series also includes in addition to the models with larger capacities: the TS series with separate fan and the PYR series with separate fan and adjustable flame. Information on these models can be found in the relevant brochure.

[a]) Net heat valve = 10200 kcal/kg = 11,8 kWh/kg.

[b]) For complete burner supply, add **modulation kit**; specific instructions are given on the last page of this catalogue.

[c]) The modulating burners are obtained by ordering progressive two-stage burners (DSPG) plus the automatic regulator **RWF40** and **modulation kit**.

[1]) With standard device for air closing.

[2]) On request, with automatic device for air closing.

[3]) Supplied with automatic device for air closing.

[4]) Supplied with light oil preheater.

[5]) With the light oil preheater equipped with the anti-detearing .

[6]) For complete burner supply, add the nozzle at 1÷3 ratio.

[7]) For complete burner supply, add the nozzle at 1÷5 ratio.

[8]) With soundproofing.

BTL - SPARK - BT - GI

Light oil burners

Dimensions

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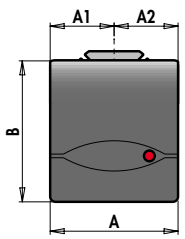

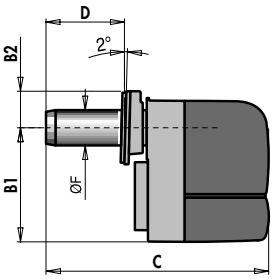

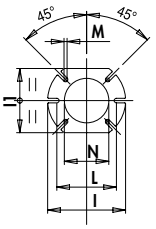

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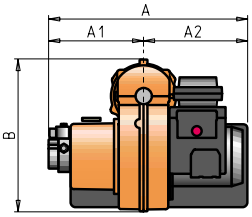
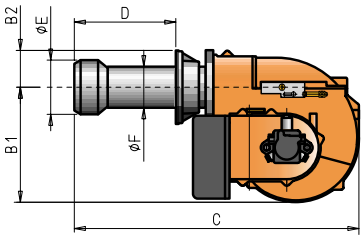
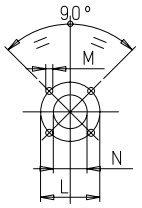
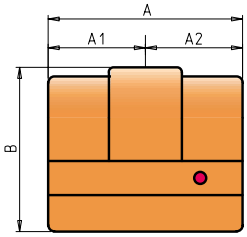
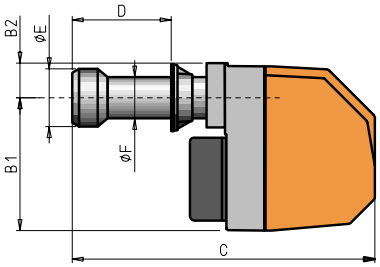


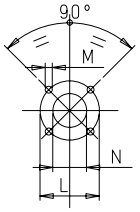




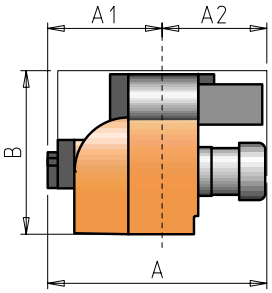
SPARK 18 W - 26 W
SPARK 35 W

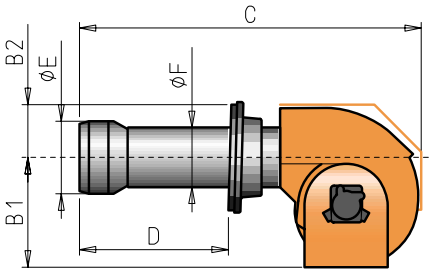


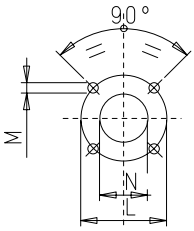




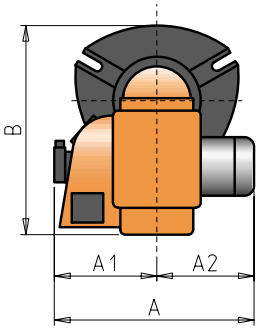
SPARK 26
SPARK 35

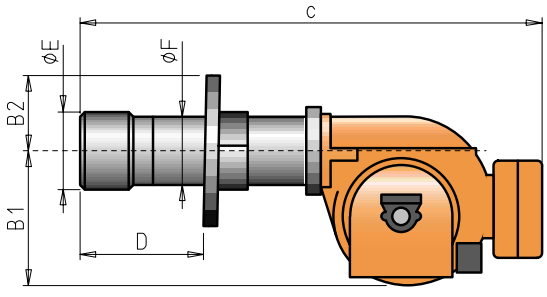


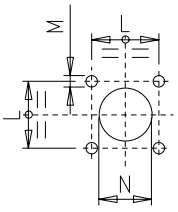




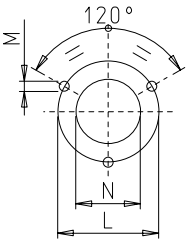
BT14
BT34
BT40
BT55







BT60 - BT75
BT100-BT120
BT180-BT250



BT300-BT350

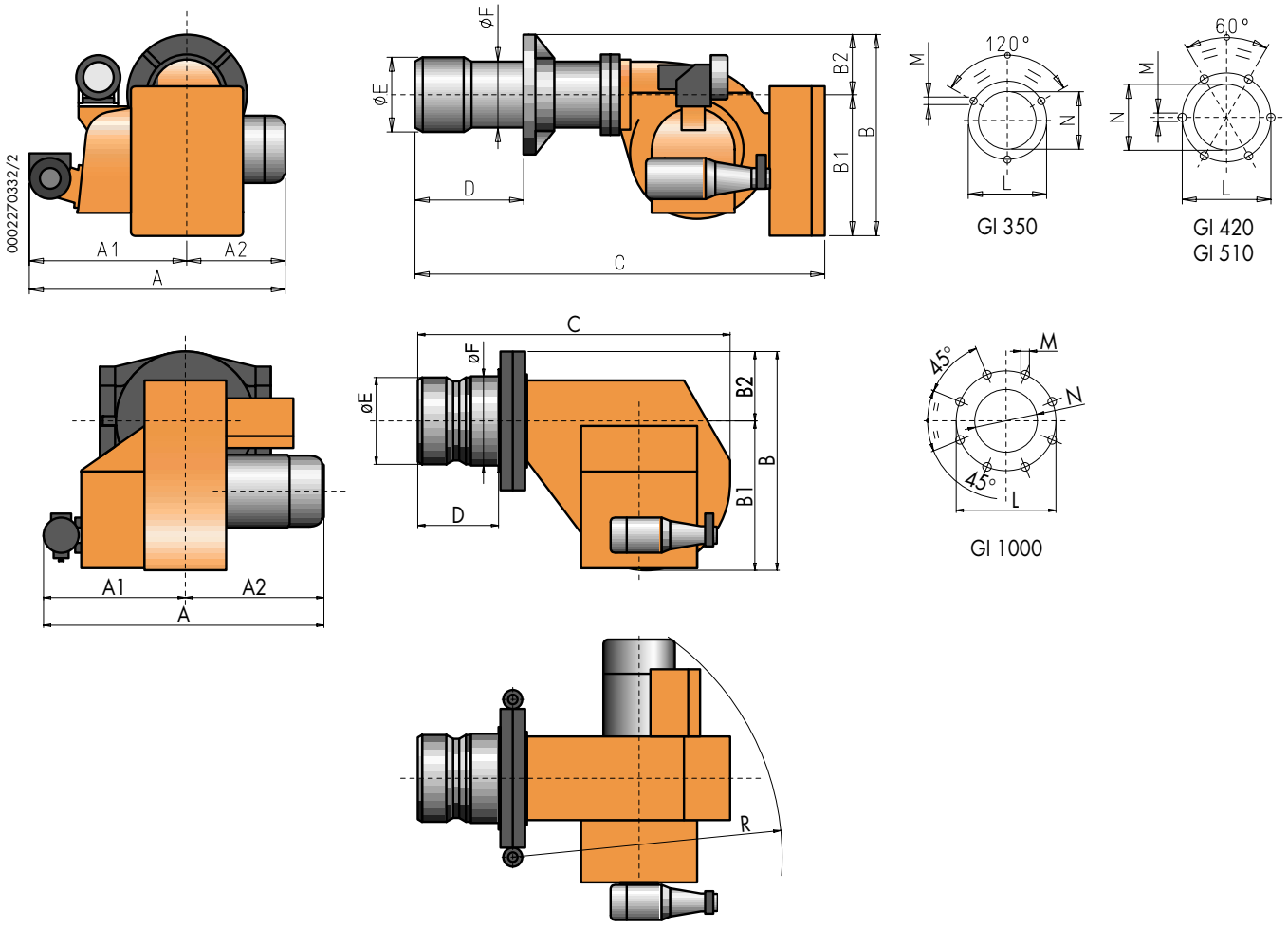
Dimensions

Model	A	A1	A2	B	B1	B2	C	D		E	F	I	I1	L		M	N
								min	max					min	max		
BTL 3 • 3 H	250	120	130	217,5	170	72	330	90	—	—	80	170	144	135			
BTL 0 • 0 H	245	122,5	122,5	270	218,5	70	410	50	105	—	80	170	140	130	155	M8	85
BTL 4 • 4 H • 4 P	245	122,5	122,5	270	218,5	70	410	50	105	—	80	170	140	130			
BTL 6 • 6 H • 6 P	245	122,5	122,5	270	218,5	70	455	50	150	—	90	170	140	130	155	M8	95
BTL 10 • 10 P	245	122,5	122,5	270	218,5	70	480	70	158	—	90	170	140	130			
SPARK 18 W	450	220	230	355	262,5	92,5	610	105	200	117	114	—	—	170	170	M10	135
SPARK 18 DSGW	450	220	230	355	262,5	92,5	710	105	300	117	114	—	—	170			
SPARK 26 W	450	220	230	355	262,5	92,5	610	105	200	139	114	—	—	170	210	M10	150
SPARK 26 DSGW	450	220	230	355	262,5	92,5	710	105	300	139	114	—	—	170			
SPARK 26	490	245	245	375	275	100	650	105	200	139	114	—	—	170	210	M10	150
SPARK 26 DSG	490	245	245	375	275	100	750	105	300	139	114	—	—	170			
SPARK 35 W	450	220	230	372,5	262,5	110	780	105	350	150	135	—	—	200	245	M12	165
SPARK 35 DSGW	450	220	230	372,5	262,5	110	780	105	350	150	135	—	—	200			
SPARK 35	490	245	245	385	275	110	810	105	350	150	135	—	—	200	245	M12	165
SPARK 35 DSG	490	245	245	385	275	110	810	105	350	150	135	—	—	200			
BT 14 G	385	200	185	280	205	75	425	40	110	95	95	—	—	130	155	M8	105
BT 14 GW	360	200	160	275	205	70	415	40	110	95	95	—	—	130			
BT 14 DSG	430	245	185	280	205	75	560	80	250	95	95	—	—	130	155	M8	105
BT 14 DSGW	405	245	160	275	205	70	550	80	250	95	95	—	—	130			
BT 34 G	460	230	230	380	270	110	740	110	350	150	135	—	—	200	245	M12	165
BT 34 DSG	460	230	230	380	270	110	740	110	350	150	135	—	—	200			
BT 34 MG	570	280	290	475	270	205	605	205	—	150	135	—	—	212	—	M12	165
BT 40 G	510	260	250	430	295	135	835	120	180	155	135	—	—	170			
BT 40 DSG	525	275	250	430	295	135	985	120	305	170	135	—	—	170	210	M12	170
BT 40 MG	570	320	250	495	295	135	985	120	305	170	135	—	—	170			
BT 55 DSG	600	290	310	500	365	135	1170	120	400	170	135	—	—	170	210	M12	170
BT 55 MG	650	340	310	580	445	135	1170	120	400	170	135	—	—	170			
BT 60 G	600	290	310	510	365	145	991	160	245	185	160	—	—	165	—	M12	195
BT 75 DSG/3V	630	320	310	510	365	145	1200	170	430	205	160	—	—	165			
BT 75 DSPG	595	310	310	510	365	145	1215	130	450	205	160	—	—	165	—	M12	180
BT 100 DSG	640	300	340	525	365	160	1295	180	440	230	195	—	—	195			
BT 100 DSPG	670	330	340	525	365	160	1415	310	490	230	195	—	—	195	—	M16	240
BT 120 DSG/3V	685	320	365	610	450	160	1400	185	450	230	195	—	—	195			
BT 120 DSPG	770	390	380	610	450	160	1415	155	500	230	195	—	—	195	—	M16	240
BT 180 DSG 3V	785	360	425	650	450	200	1645	200	535	260	220	—	—	240			
BT 180 DSPG	815	390	425	650	450	200	1700	200	535	260	220	—	—	240	—	M16	270
BT 250 DSG	915	435	480	780	580	200	1665	235	590	260	220	—	—	240			
BT 250 DSPG	1000	520	480	780	580	200	1700	235	590	260	220	—	—	240	—	M16	270
BT 300 DSG	915	435	480	840	580	260	1860	245	605	360	275	—	—	490			
BT 300 DSPG	1000	520	480	840	580	260	1900	245	605	360	275	—	—	490	—	M20	400
BT 350 DSG	1050	525	525	920	660	260	1960	350	560	360	275	—	—	490			
BT 350 DSPG	1135	610	525	920	660	260	2040	350	560	360	275	—	—	490	—	M20	400

BTL - SPARK - BT - GI

Light oil burners

Dimensions



Model	A	A1	A2	B	B1	B2	C	D min	D max	E	F	I	I1	L min	L max	M	N	R
GI 350 DSPG	1345	660	685	1010	750	260	1900	275	500	360	275	—	—	490	—	M20	400	—
GI 420 DSPG	1345	660	685	1040	750	290	2030	275	560	400	355	—	—	520	—	M20	400	—
GI 510 DSPG	1345	660	685	1040	750	290	2030	275	560	400	355	—	—	520	—	M20	420	—
GI 1000 DSPG *)	1465	800	665	1257	855	402	1710	460	—	480	490	—	—	765	—	M16	495	1360

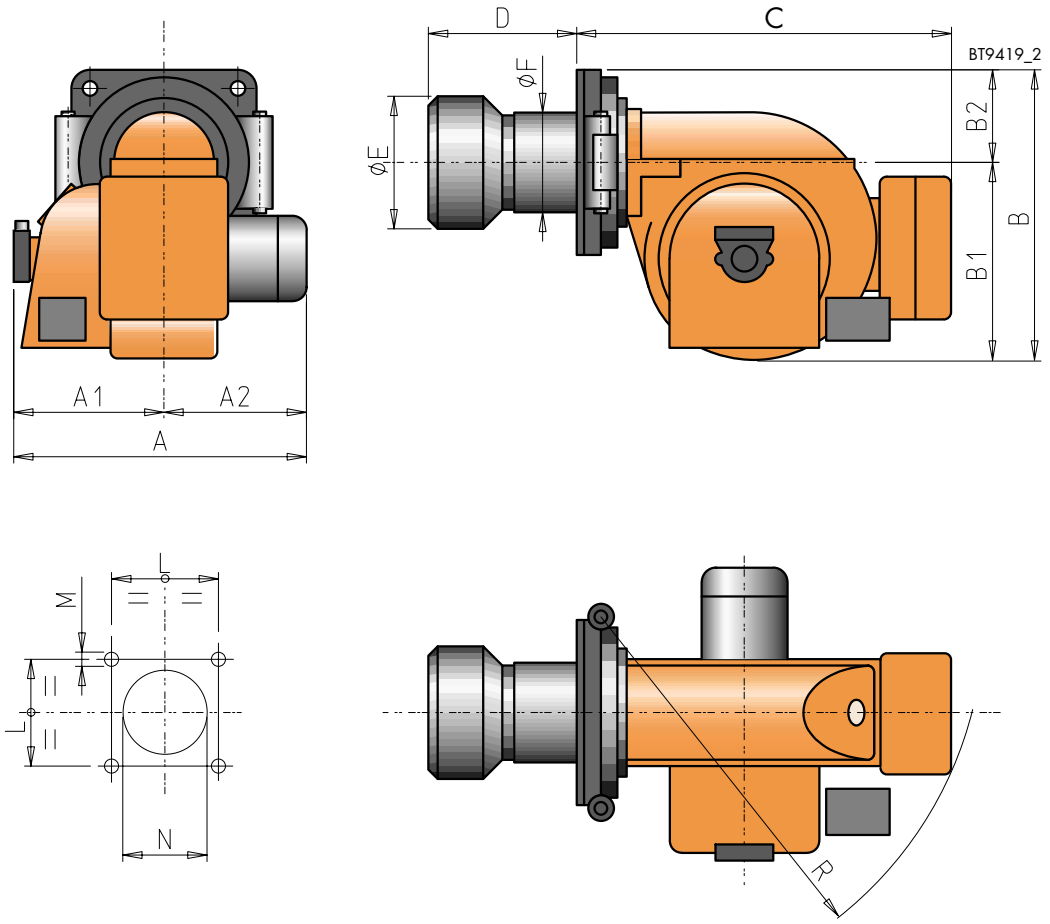
Notes

*) Gi 1000 DSPG available only with hinge.

BT - GI

Light oil burners with hinge

Dimensions



Model	A	A1	A2	B	B1	B2	C	D	E	F	L	M	N	R
BT 34 DSG	460	230	230	375	270	105	560	200	150	135	150	M12	170	540
BT 40 DSG	560	300	265	445	295	150	735	145	155	135	230	M12	170	540
BT 55 DSG	640	290	320	515	365	150	800	145	155	135	230	M12	170	670
BT 75 DSG 3V	640	320	320	515	365	150	880	205	205	170	230	M12	220	670
BT 100 DSG	640	320	320	525	365	160	940	250	230	195	240	M12	240	680
BT 120 DSG 3V	685	320	365	610	450	160	1040	265	230	195	240	M12	240	730
BT 180 DSG 3V	755	385	370	630	450	180	930	280	260	225	280	M16	275	730
BT 250 DSG	945	465	480	760	580	180	1225	295	260	225	280	M16	275	940
BT 300 DSG	945	465	480	805	580	225	1350	420	356	280	360	M16	370	960
BT 350 DSG	1085	525	560	885	660	225	1110	420	356	280	360	M16	370	1155
GI 350 DSPG	1345	660	685	910	660	225	1530	420	356	280	360	M16	370	1190
GI 420 DSPG	1345	660	685	920	660	260	1530	420	390	350	400	M20	400	1190
GI 510 DSPG	1345	660	685	920	660	260	1530	420	390	350	400	M20	400	1190

Conversion from progressive two-stage to modulating

By inserting the RWF40 kit and the modulating kit into the two progressive stage burners, these are trasformed into modulating burners, that is, with the capacity to provide thermal power which can be varied continuously in accordance with the specific needs of the boiler.
Naturally, the thermal power level varies only within the "minimum" and "maximum" limits applying to the burner.

Modulating kit table

Temperature 0°C ÷ 130 °C
Temperature 0°C ÷ 500 °C
Temperature 0°C ÷ 1100 °C
Steam pressure 0 ÷ 1 bar
Steam pressure 0 ÷ 10 bar
Steam pressure 0 ÷ 16 bar
Steam pressure 0 ÷ 25 bar
Steam pressure 0 ÷ 40 bar

Selecting modulation kit components

With reference to parameter: temperature (°C) or pressure (bar), select the regulation range corresponding to the operating value of the boiler. When the value falls within two different setting ranges, select the lower of the two.

Example:
If the temperature of the water in the boiler is to be 100°C, choose the modulation kit corresponding to range 0÷130°C. If the pressure of the steam in the boiler is to be 8 bar, select the modulation kit in the regulation range 0÷10 bar.

RWF40 power regulator

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