

BURNERS



ALL THERM

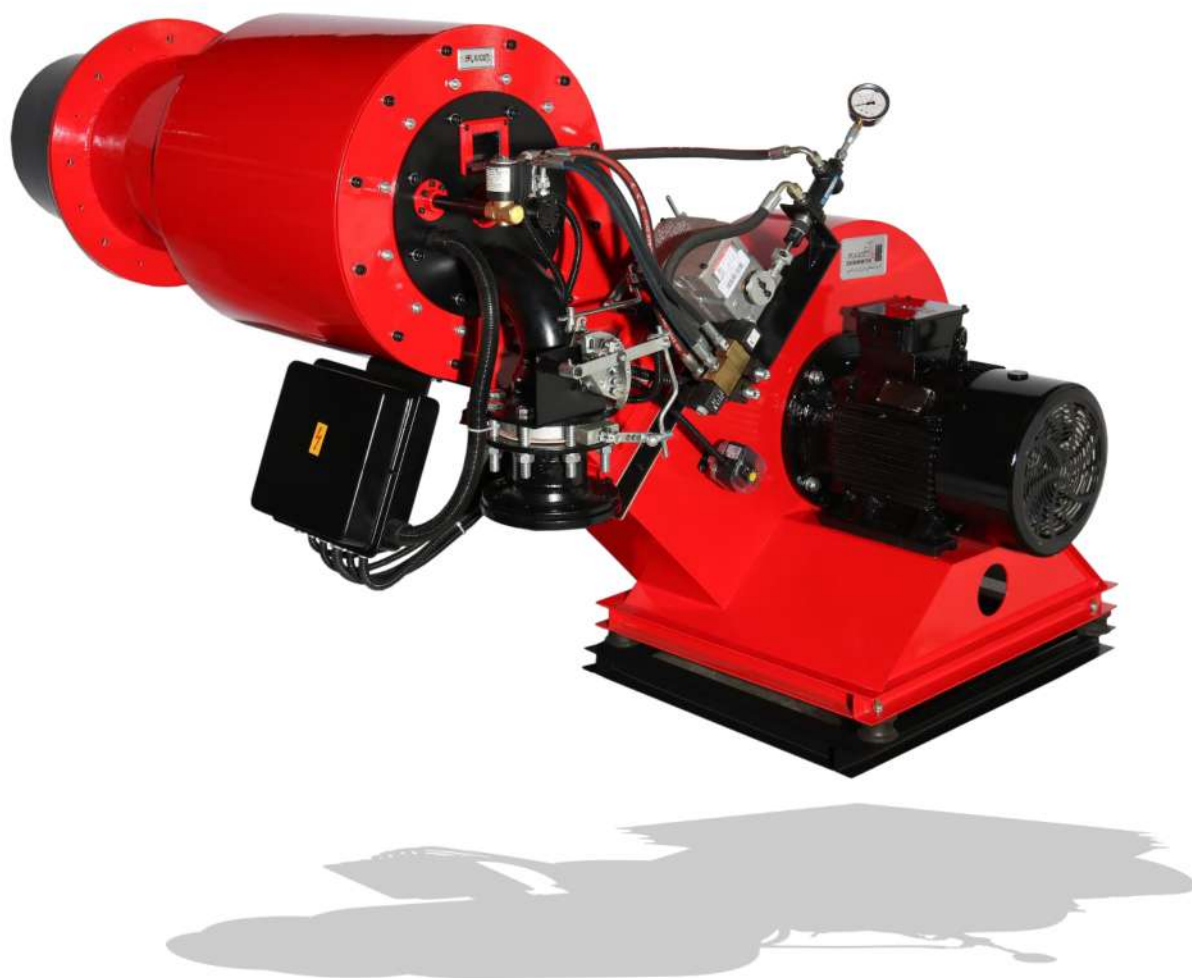
OIL, GAS AND DUAL: UP TO 5M KCAL/H
THIRD WORLDWIDE INDUSTRIAL GROUP
TUV INTERNATIONAL CERTIFICATION

2 YEAR GUARANTY



ALL THERM

IRANRADIATOR Burner Catalogue



October 2017

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About Us

Iran Radiator Industrial Group is the largest producer of radiators, wall-hung boilers and (domestic and industrial) burners in the MENA region. Globally, we are one of the top three producers of aluminum radiators and industrial burners and also one of the top 10 largest wall hung boiler manufacturers. We currently employ over 1500 people and have exported to over 30 different countries.

Here is our story so far.

Before the 1980's, radiators were not manufactured in Iran and were imported from Europe due to a lack of die-casting expertise. In 1979 Iran Radiator Company was founded with one die cast machine in Tehran with 30 employees in a 1500 m² building. Our products first entered the market and started warming people homes and offices in 1980.

By 1987, we had grown significantly and due to a shortage of space we moved our production site to Rasht Industrial City. The relative abundance of space in this industrial city provided us with the necessary room to expand our operation in the coming decades.

In the 1990's our products excellent quality and our competitive prices established us as the leader in the Iranian heating industry. This was in no doubt assisted by our iconic "Amo Yadegar" advertising campaign, which established our brand as a house-hold name in Iran. We used the proceeds of this growth to expand into Industrial burners (through Mashal Kar Rey Company) and towel warmers (through Gilan Shakiba Company).

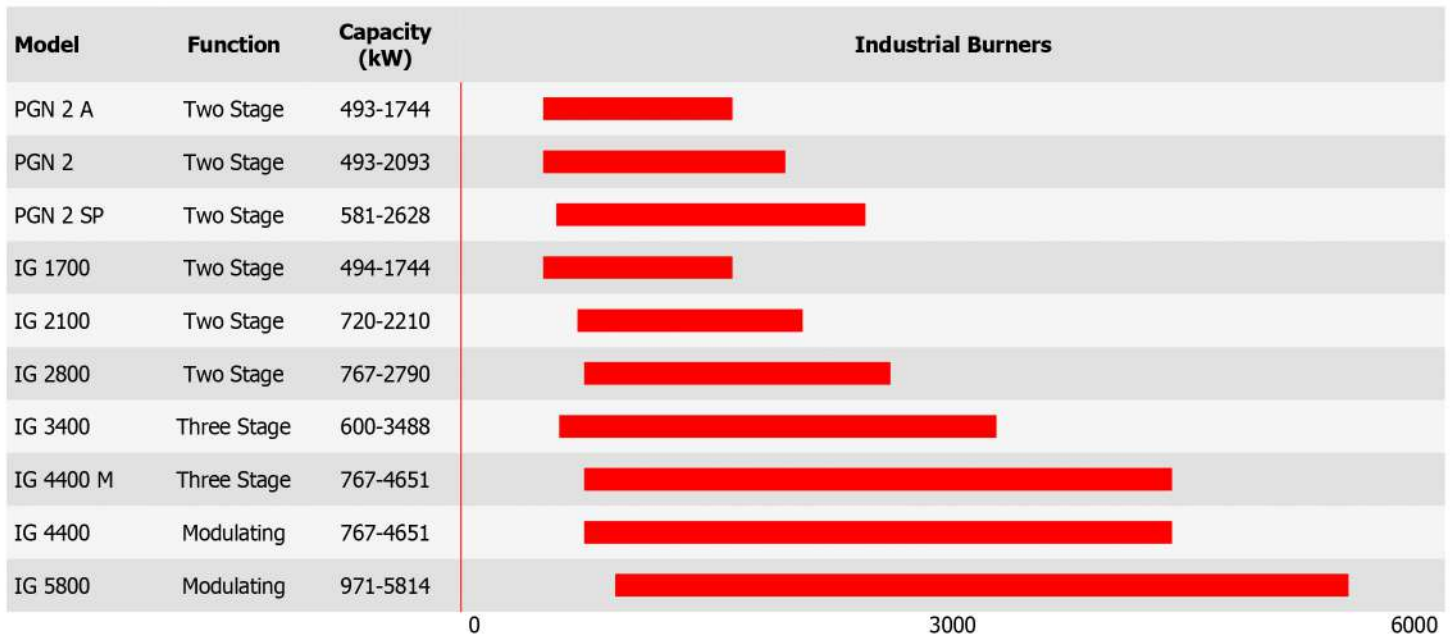
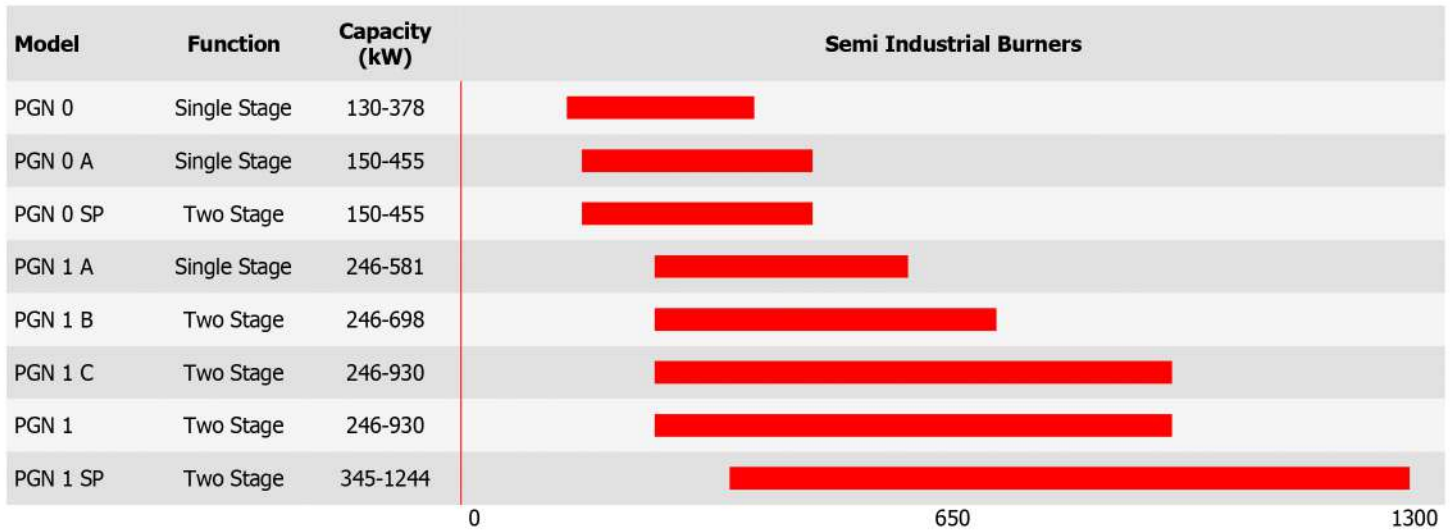
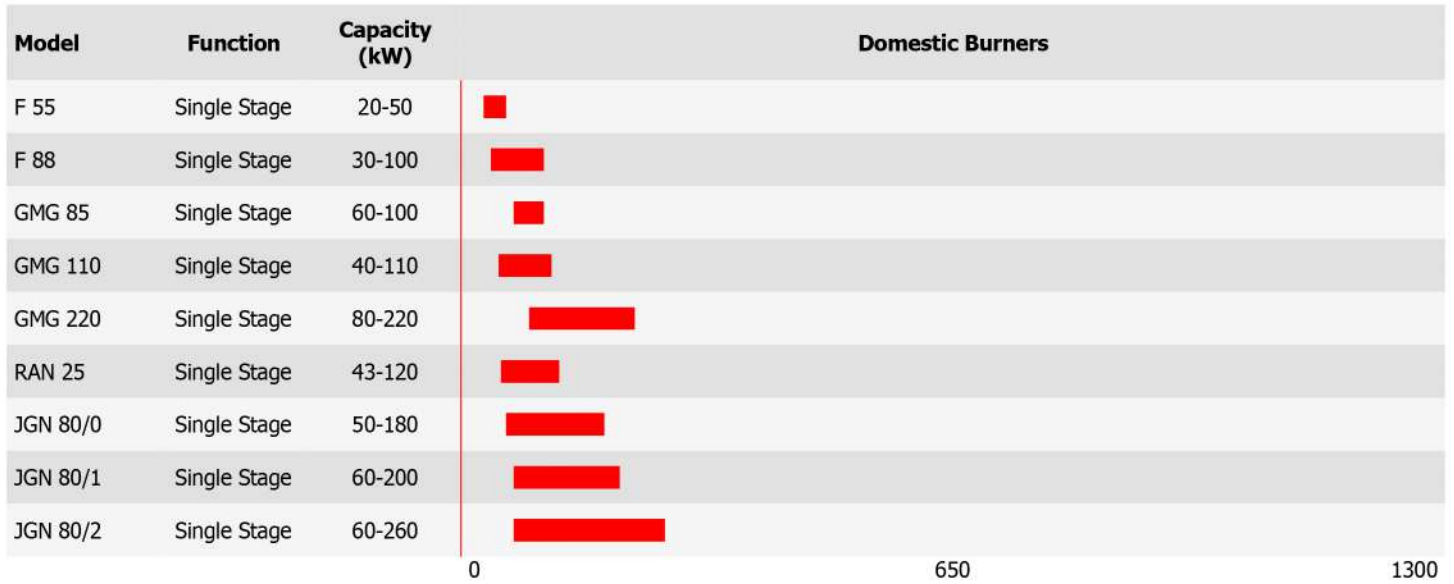
Our exporting efforts began in the late 1990's, but it truly bloomed in the next decade with us exporting to over thirty different countries (including Spain, Italy, Russia and France) and resulted in us winning the prestigious "Exporter of the Year" award (from the Ministry of Trade) in the years 2000, 2004 and 2005. Our products quality was significantly improved by the exporting process as the strict European (CE) standards helped us to align our quality control procedures to a European standard.

In 2004 we started producing Wall hung combination boilers domestically. Alongside this we developed the most advanced wall hung boiler testing laboratory in the country, which is used by the national standards agency. This in combination with our testing procedure (in which each boiler undergoes rigorous testing using the most high tech testing equipment from Europe) has led to our products being recognized as the highest quality domestically produced boilers in the market.

We are currently continuing the expansion of our product range by adding multilayered pipes and steel panel radiator production lines.

Gas Burners

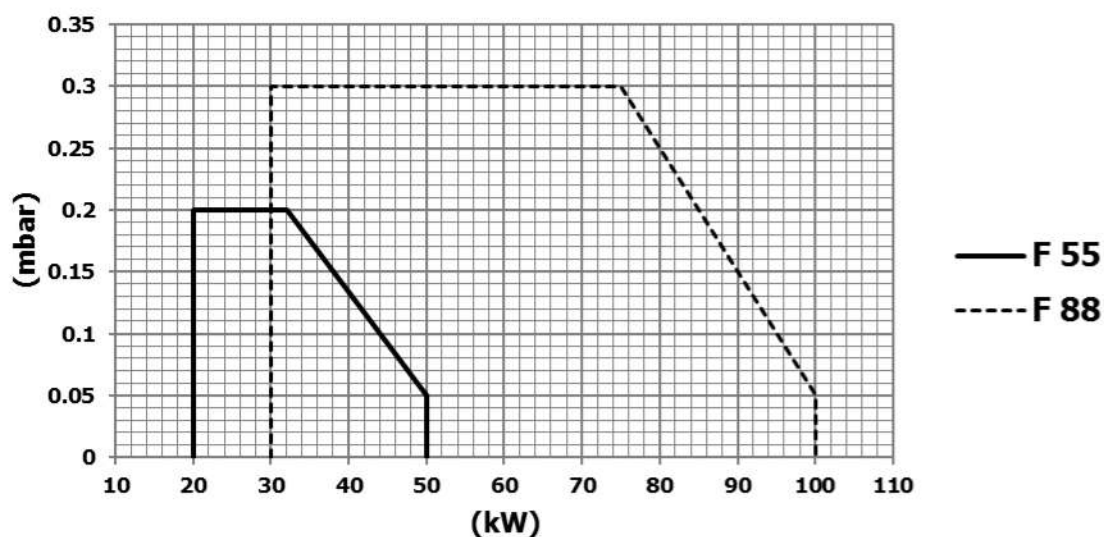




F 55
F 88



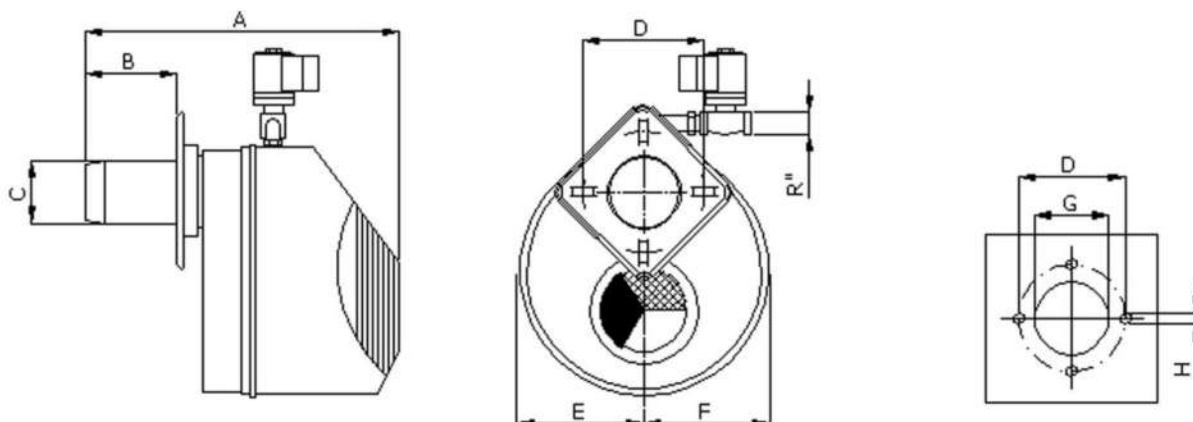
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³/h	Heating Capacity kW
F 55	Single Stage	Natural Gas	15-40	2-5.2	20-50
F 88	Single Stage	Natural Gas	15-40	3-10.5	30-100



Burner Dimensions



	A	B	C	D	E	F	G	H	R"
F 55	350	95	80	122-146	132	132	85	M8	1/2
F 88	360	95	88	120-165	132	132	95	M8	1/2

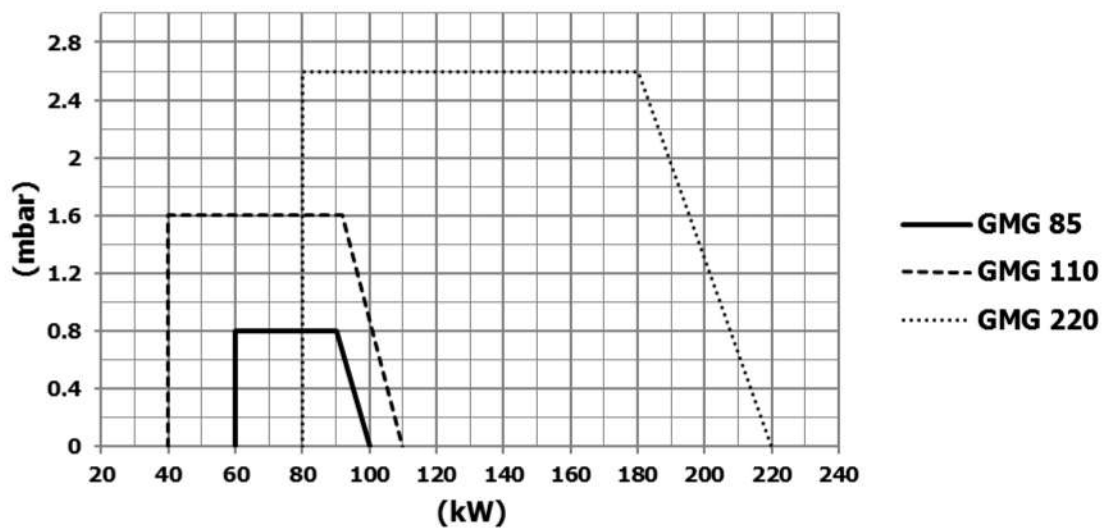
Burner Equipment	F 55	F 88
Fan Motor	1 ~ 50 W	1 ~ 90 W
Control Unit	G 790	G 790
Ignition Transformer	Electronic / 1×10 kV / 35 mA	Electronic / 1×10 kV / 35 mA
Gas Solenoid Valve	Brahma E6G*SR10*1/2"*GMO	Brahma EG12*L*1/2"*GMO
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air flow switch	Air flow switch
Flame Detector	Ionizing electrode	Ionizing electrode



GMG 85
GMG 110
GMG 220



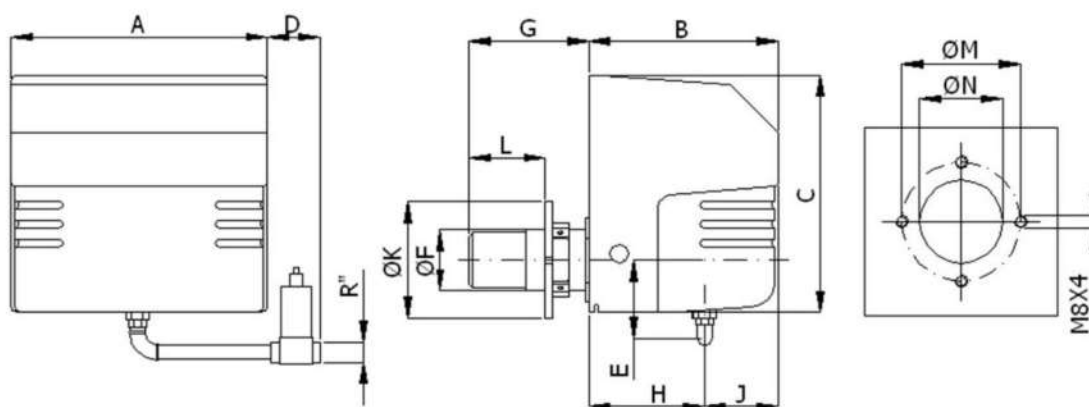
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Heating Capacity kW
GMG 85	Single Stage	Natural Gas	15-20	6.5-11	60-100
GMG 110	Single Stage	Natural Gas	15-20	4.2-11.5	40-110
GMG 220	Single Stage	Natural Gas	15-20	8.3-23.2	80-220



Burner Dimensions



	A	B	C	D	E	ØF	G	H	J	ØK	L	ØM	ØN	R"
GMG 85	406	285	372	100	102	115	252	166	118	200	162-202	150-170	120	½
GMG 110	406	285	372	100	102	115	252	166	118	200	162-202	150-170	120	1
GMG 220	406	355	440	100	102	115	252	166	180	200	162-202	150-170	120	1

Burner Equipment	GMG 85	GMG 110	GMG 220
Fan Motor	1 ~ 90 W	1 ~ 240 W	1 ~ 240 W
Control Unit	G 790	G 790	G 790
Ignition Transformer	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder ½"	Dungs or Krom Schroder 1"	Dungs or Krom Schroder 1"
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Ionizing electrode	Ionizing electrode	Ionizing electrode

Burner Special Features

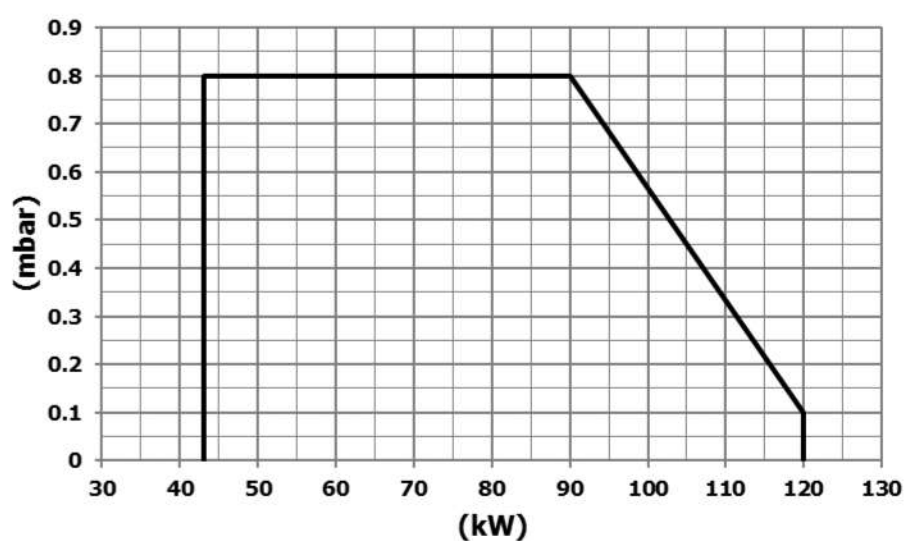
- Having maximum efficiency on steel and cast-iron boilers (because of having branched flame and high static pressure blower)
- Full stability of flame in all conditions (because of flame retention)
- Having partial premix and branched flame technology
- Low excess air technology
- Operating with natural gas and L.P.G.
- Simple and easy service and maintenance
- Optimal performance with low gas pressure
- Low noise
- Environment friendly product
- Low consumption (Fuel consumption of this burner is 14% lower than other similar burners)



RAN 25



Burner Performance Chart

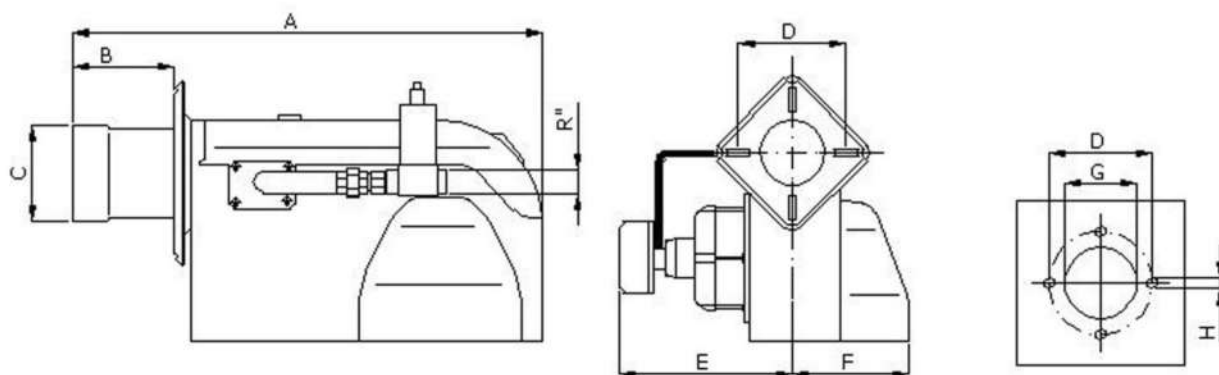


— RAN 25

	Function	Fuel	Gas Pressure mbar	Gas Consumption m ³ n/h	Heating Capacity kW
RAN 25	Single Stage	Natural Gas	15-40	4.5-12.5	43-120

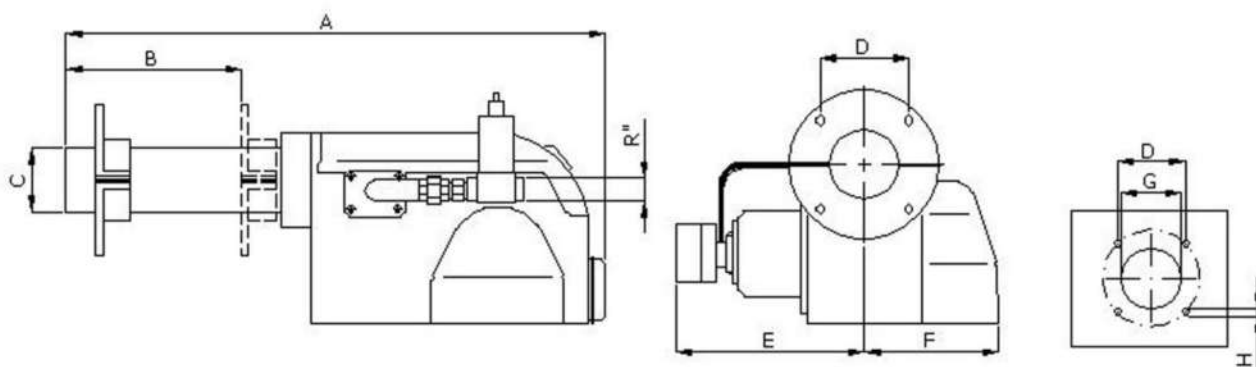


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H	R''
RAN 25	417	97	87	120 – 165	213	240	90	M8	1/2

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H	R''
RAN 25	780	300	92	117	213	240	100	M8	1/2

Burner Equipment

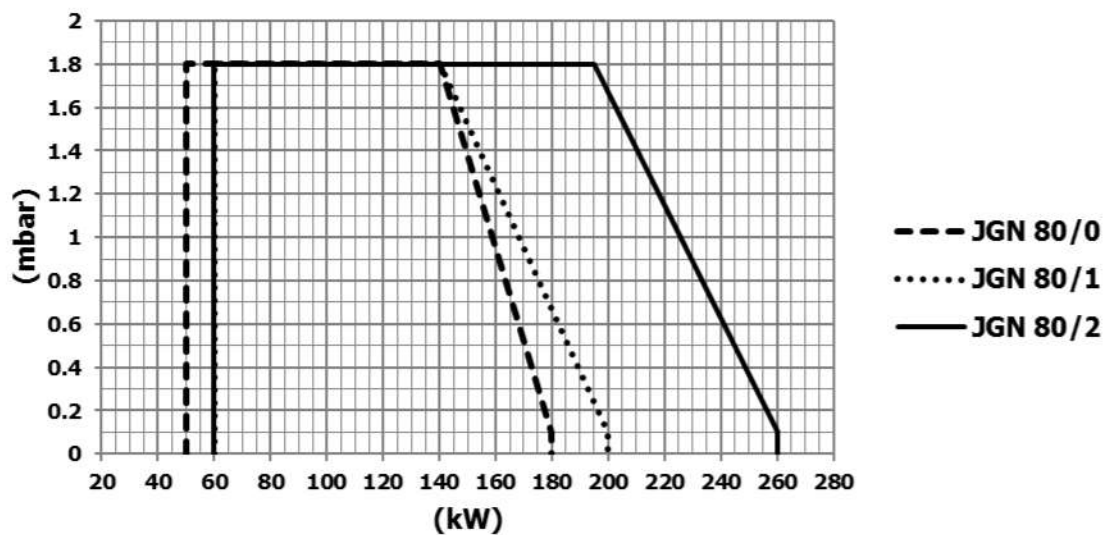
RAN 25

Fan Motor	1 ~ 90 W
Control Unit	G 790
Ignition Transformer	Electronic/1×10 kV/35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1/2"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder
Flame Detector	Ionizing electrode

JGN 80/0
JGN 80/1
JGN 80/2



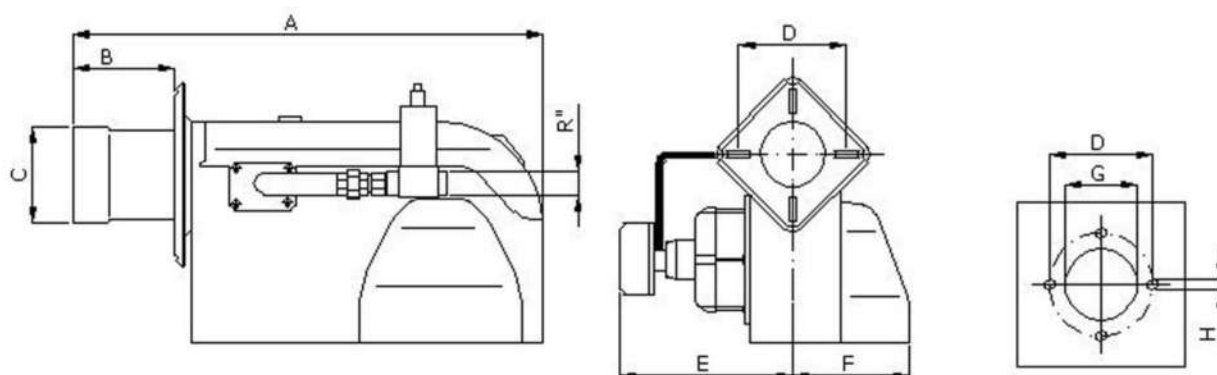
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Heating Capacity kW
JGN 80/0	Single Stage	Natural Gas	15-40	5-19	50-180
JGN 80/1	Single Stage	Natural Gas	15-40	6.5-21	60-200
JGN 80/2	Single Stage	Natural Gas	15-40	6.5-27.5	60-260

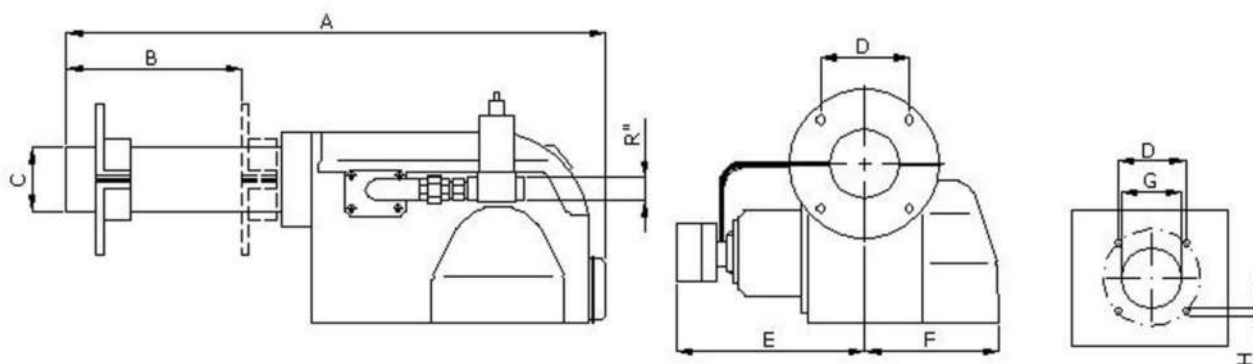


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H	R''
JGN 80/0	552	140	110	173 – 195	190	295	115	M8	1
JGN 80/1	552	140	110	173 – 195	190	295	115	M8	1
JGN 80/2	552	140	120	173 – 195	190	295	125	M8	1

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H	R''
JGN 80/2	990	370	122	117	190	295	125	M8	1

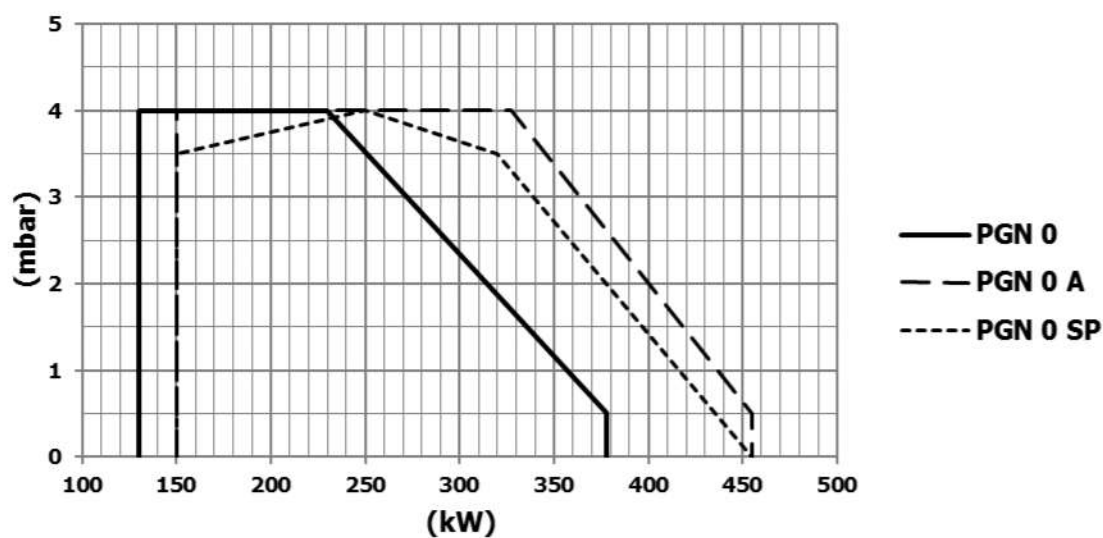
Burner Equipment	JGN 80/0	JGN 80/1	JGN 80/2
Fan Motor	1 ~ 240 W	1 ~ 240 W	1 ~ 240 W
Control Unit	G 790	G 790	G 790
Ignition Transformer	Electronic/2x7 kV /35 mA	Electronic/2x7 kV /35 mA	Electronic/2x7 kV /35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1"	Dungs or Krom Schroder 1"	Dungs or Krom Schroder 1"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Ionizing electrode	Ionizing electrode	Ionizing electrode



PGN 0 PGN 0 A PGN 0 SP



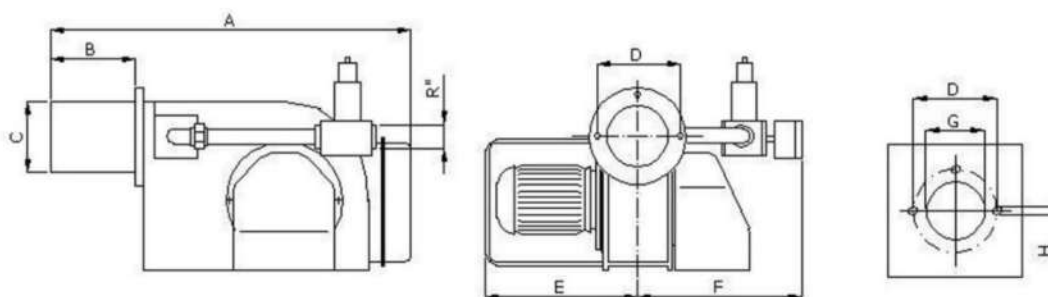
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Heating Capacity kW
PGN 0	Single Stage	Natural Gas	10-40	13.4-39.7	130-378
PGN 0 A	Single Stage	Natural Gas	10-40	15.8-48.1	150-455
PGN 0 SP	Two Stage	Natural Gas	10-40	15.8-48.1	150-455

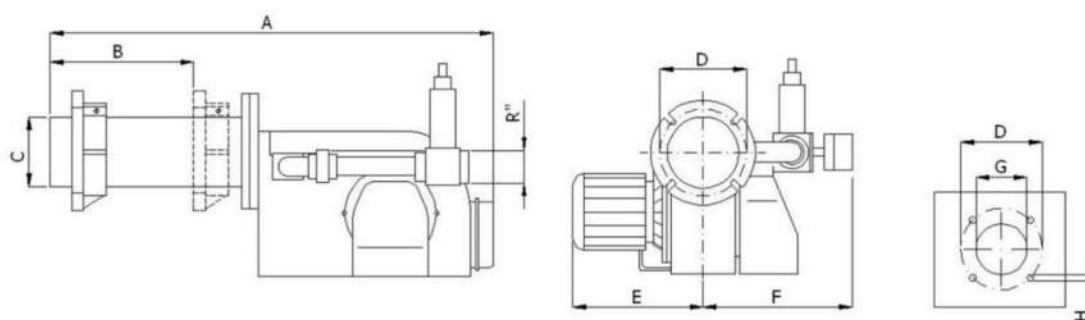


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H	R"
PGN 0	700	170	153	175	280	305	156	M10	1
PGN 0 A	700	170	153	175	280	345	156	M10	1 ½
PGN 0 SP	700	170	153	175	280	415	156	M10	1 ½

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H	R"
PGN 0	880	380	165	205-225	335	305	170	M12	1
PGN 0 A	880	380	165	205-225	335	345	170	M12	1 ½
PGN 0 SP	880	380	165	205-225	335	415	170	M12	1 ½

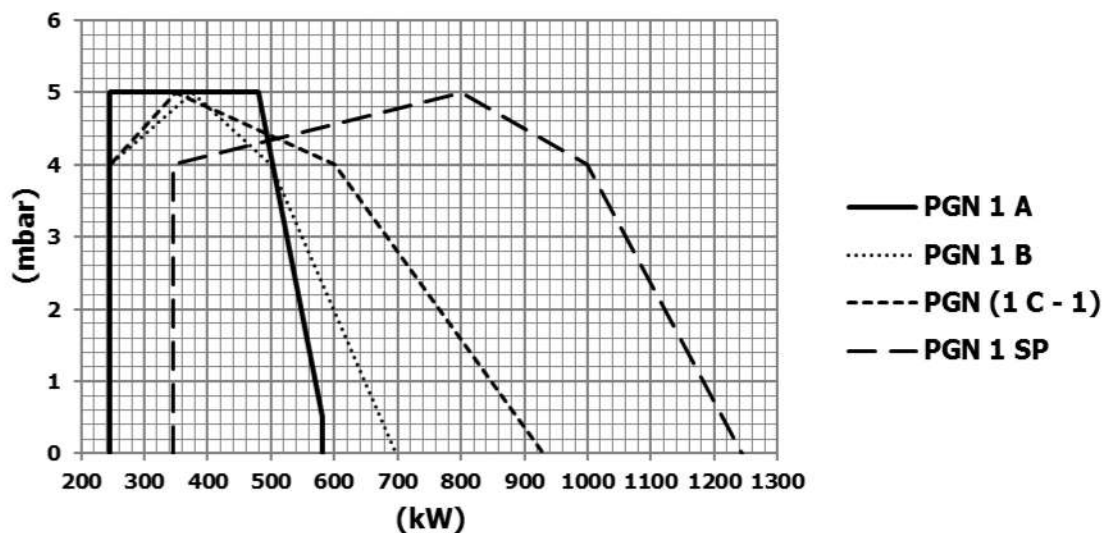
Burner Equipment	PGN 0	PGN 0 A	PGN 0 SP
Fan Motor	1 ~ 370 W	1 ~ 370 W	1 ~ 550 W
Servomotor	-	-	Conectron LKS 160
Control Unit	G 790	G 790	G 790
Ignition Transformer	Electronic/2x7 kV /35 mA	Electronic/2x7 kV /35 mA	Electronic/2x7 kV /35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1"	Dungs or Krom Schroder 1 ½"	Dungs or Krom Schroder 1 ½"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Ionizing electrode	Ionizing electrode	Ionizing electrode



PGN 1 A
PGN 1 B
PGN 1 C
PGN 1
PGN 1 SP



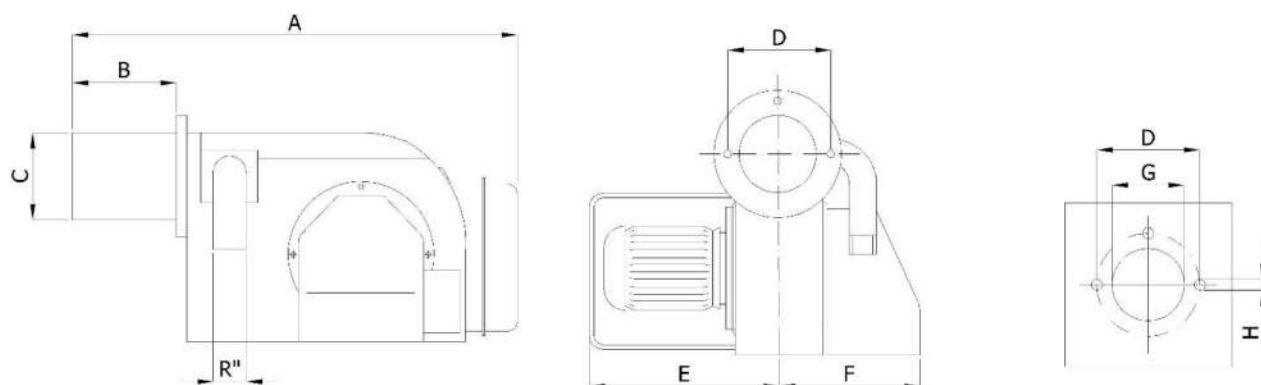
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m ³ n/h	Heating Capacity kW
PGN 1 A	Single Stage	Natural Gas	15-60	26-61	246-581
PGN 1 B	Two Stage	Natural Gas	15-60	26-73	246-698
PGN 1 C	Two Stage	Natural Gas	15-60	26-98	246-930
PGN 1	Two Stage	Natural Gas	15-60	26-98	246-930
PGN 1 SP	Two Stage	Natural Gas	22-60	36-130	345-1244

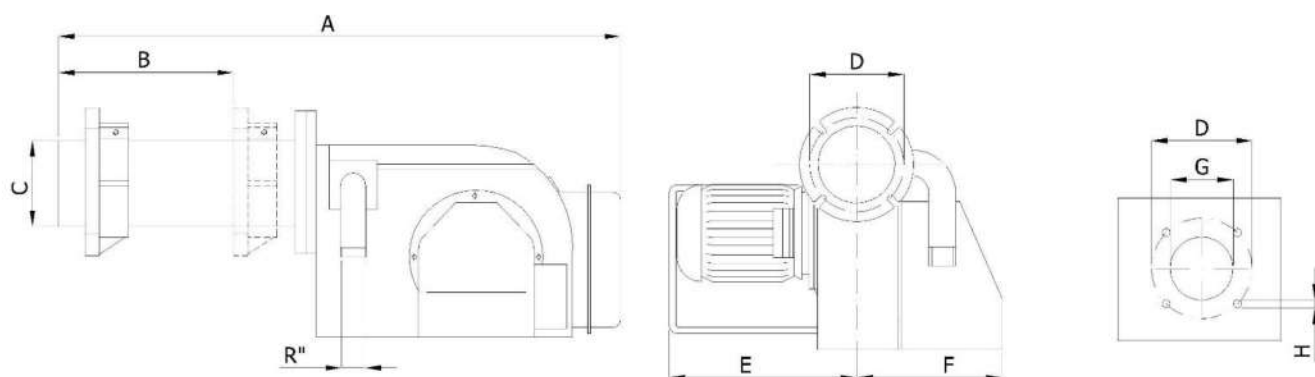


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H	R''
PGN 1 A	810	200	165	206	340	370	170	M12	1 ½
PGN 1 B	810	200	165	206	340	370	170	M12	1 ½
PGN 1 C	810	200	165	206	340	440	170	M12	1 ½
PGN 1	810	200	165	206	340	335	170	M12	2
PGN 1 SP	810	200	165	206	340	335	170	M12	2

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H	R''
PGN 1 A	1040	380	165	205-225	340	370	170	M12	1 ½
PGN 1 B	1040	380	165	205-225	340	370	170	M12	1 ½
PGN 1 C	1040	380	165	205-225	340	440	170	M12	1 ½
PGN 1	1040	380	165	205-225	340	335	170	M12	2
PGN 1 SP	1040	380	165	205-225	340	335	170	M12	2



Burner Equipment	PGN 1 A	PGN 1 B	PGN 1 C
Fan Motor	3 ~ 1.1 kW	3 ~ 1.1 kW	3 ~ 1.1 kW
Servomotor	-	Conectron LKS 160	Conectron LKS 160
Control Unit	G 790	G 790	Satronic DLG 976
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	-	-	Krom Schroder 1 ½"
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1 ½"	Dungs 1 ½" 2 Stage	Krom Schroder 1"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Ionizing electrode	Ionizing electrode	Ionizing electrode

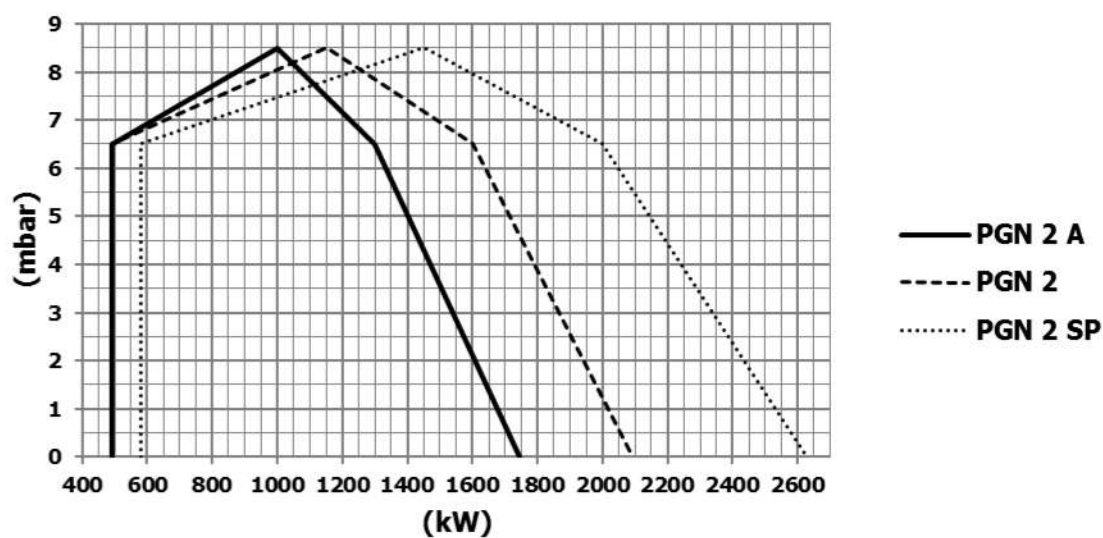
Burner Equipment	PGN 1	PGN 1 SP
Fan Motor	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Conectron LKS 160	Conectron LKS 160
Control Unit	Satronic TMG 740	Satronic TMG 740
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 1 ½"	Dungs 2"
Gas Solenoid Valve (Slow Opening)	Dungs 1 ½" 2 Stage	Dungs 2" 2 Stage
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Ionizing electrode	Ionizing electrode
Burner Control Panel	✓ (Separated)	✓ (Separated)



PGN 2 A PGN 2 PGN 2 SP

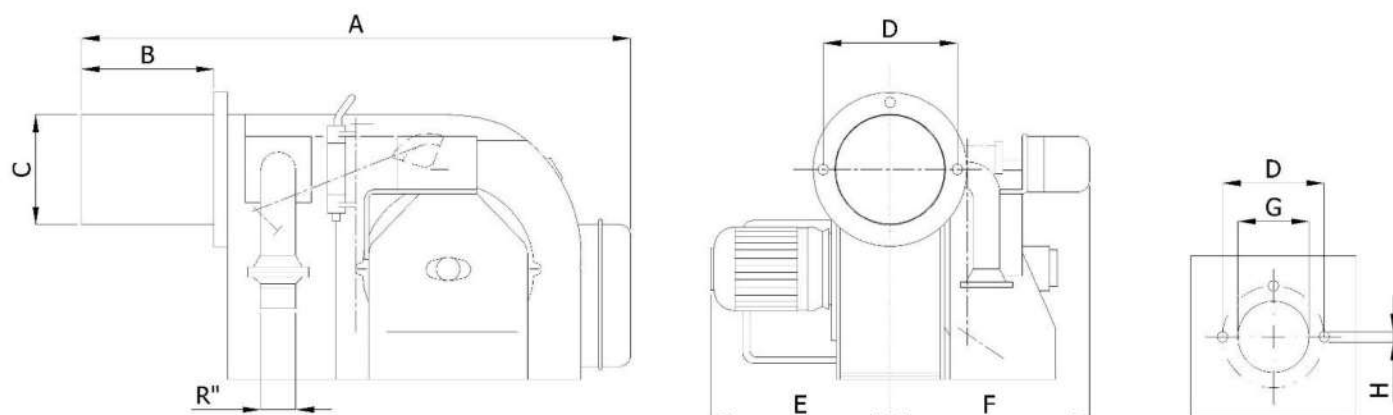


Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Heating Capacity kW
PGN 2 A	Two Stage	Natural Gas	40-80	52-183	493-1744
PGN 2	Two Stage	Natural Gas	40-80	52-220	493-2093
PGN 2 SP	Two Stage	Natural Gas	40-80	61-276	528-2628

Burner Dimensions



	A	B	C	D	E	F	G	H	R"
PGN 2 A	960	220	194	305	390	390	200	M12	2
PGN 2	960	220	194	305	420	390	200	M12	2
PGN 2 SP	960	220	219	305	420	390	225	M12	2 ½

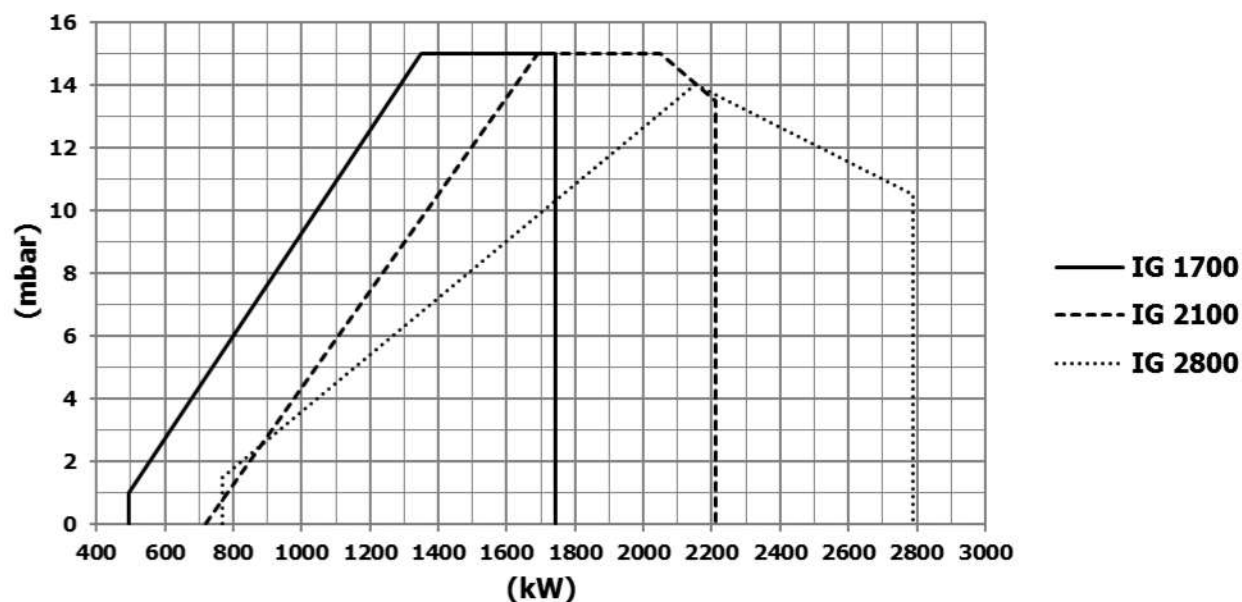
Burner Equipment	PGN 2 A	PGN 2	PGN 2 SP
Fan Motor	3 ~ 2.2 kW	3 ~ 3 kW	3 ~ 4 kW
Servomotor	Conectron LKS 310	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMG 740	Satronic TMG 740	Satronic TMG 740
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2"	Dungs 2"	Dungs 2 ½"
Gas Solenoid Valve (Slow Opening)	Dungs 2"	Dungs 2"	Dungs 2 ½"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Ionizing electrode	Ionizing electrode	Ionizing electrode
Burner Control Panel	✓ (Separated)	✓ (Separated)	✓ (Separated)



IG 1700
IG 2100
IG 2800



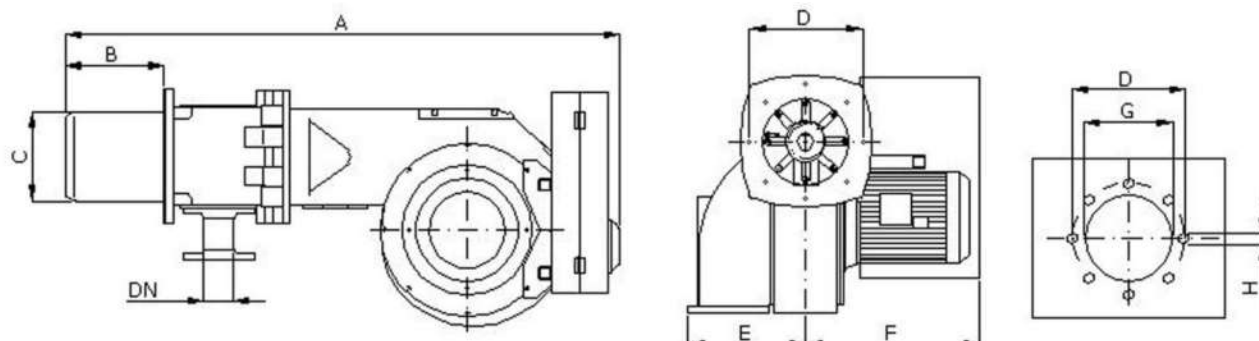
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Heating Capacity kW
IG 1700	Two Stage	Natural Gas	60-200	52-183	494-1744
IG 2100	Two Stage	Natural Gas	60-200	76-232	720-2210
IG 2800	Two Stage	Natural Gas	60-200	81-293	767-2790



Burner Dimensions



	A	B	C	D	E	F	G	H	DN
IG 1700	1306	246	219	305	337	520	229	M10	50
IG 2100	1306	246	254	305	337	520	264	M10	50
IG 2800	1306	246	254	305	337	520	264	M10	50

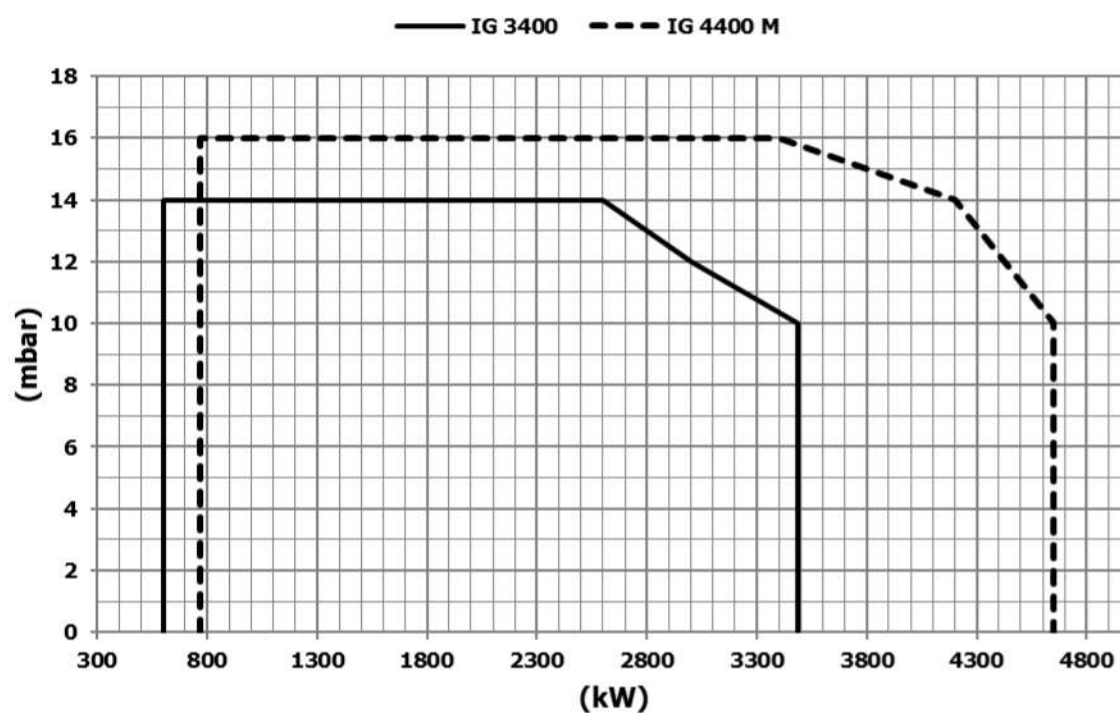
Burner Equipment	IG 1700	IG 2100	IG 2800
Fan Motor	3 ~ 4 kW	3 ~ 5.5 kW	3 ~ 7.5 kW
Servomotor	Conectron LKS 310	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMG 740	Satronic TMG 740	Satronic TMG 740
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2"	Dungs 2"	Dungs 2"
Gas Solenoid Valve (Slow Opening)	Dungs 2" 2 Stage	Dungs 2" 2 Stage	Dungs 2" 2 Stage
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780	Satronic UVZ 780
Burner Control Panel	✓ (Connected)	✓ (Connected)	✓ (Connected)



IG 3400 IG 4400 M



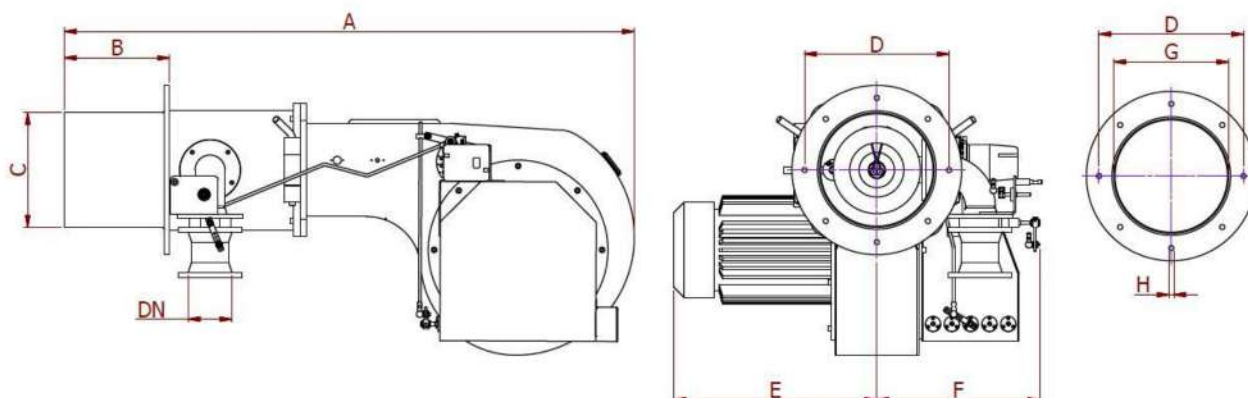
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Heating Capacity kW
IG 3400	Three Stage	Natural Gas	120-140	63-367	600-3488
IG 4400 M	Three Stage	Natural Gas	120-140	81-489	767-4651



Burner Dimensions



	A	B	C	D	E	F	G	H	DN
IG 3400	1697	303	311	430	604	484	330	M14	80
IG 4400 M	1697	303	341	430	604	484	360	M14	80

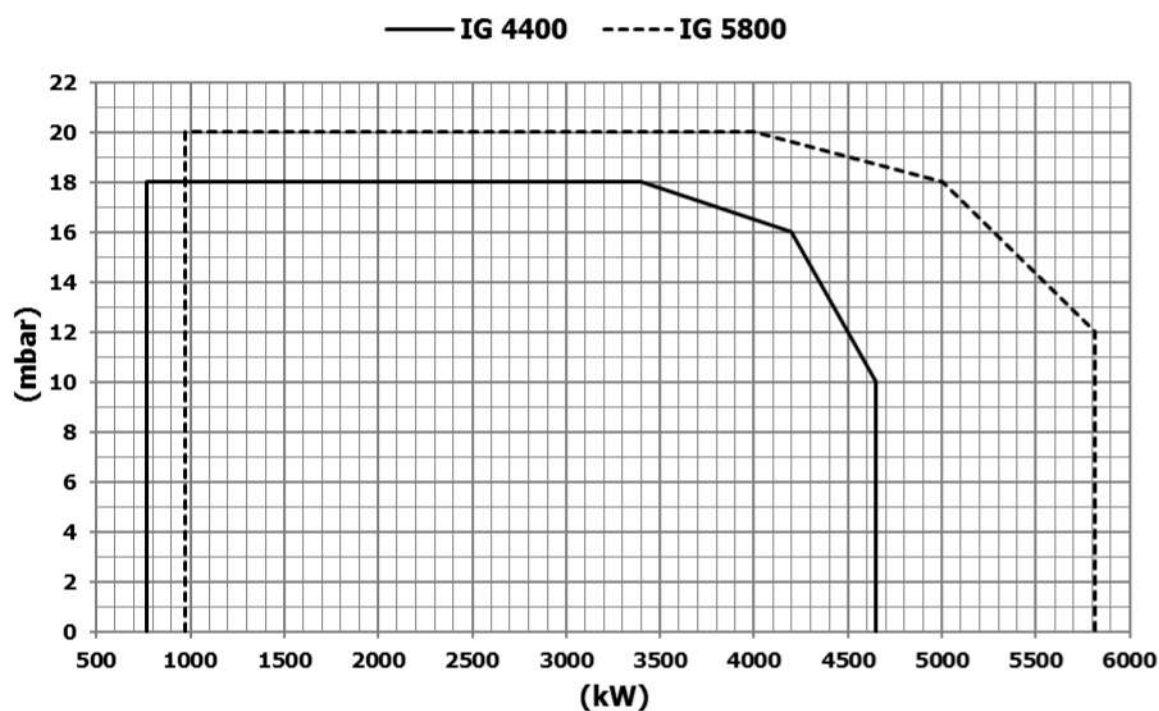
Burner Equipment	IG 3400	IG 4400 M
Fan Motor	3 ~ 7.5 kW	3 ~ 11 kW
Servomotor	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMG 740	Satronic TMG 740
Ignition Transformer	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2 ½" Fast opening	Dungs 3" Fast opening
Gas Solenoid Valve (Slow Opening)	Dungs 2 ½" Slow opening	Dungs 3" Slow opening
Gas Solenoid Valve (Pilot Valve)	Brahma ½" (S10) (x2)	Brahma ½" (S10) (x2)
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780
Push button	Dungs DKH ½" (x3)	Dungs DKH ½" (x3)
Tightness Control	Dungs VDK 200 A	Dungs VDK 200 A
Pressure Gauge	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar (x2)	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar (x2)
Filter	Dungs GF 40065/3 (2 ½")	Dungs GF 40080/3 (3")
Pressure Regulator	Dungs ½"	Dungs ½"
Burner Control Panel	✓ (separated)	✓ (separated)



IG 4400 IG 5800



Burner Performance Chart



Function

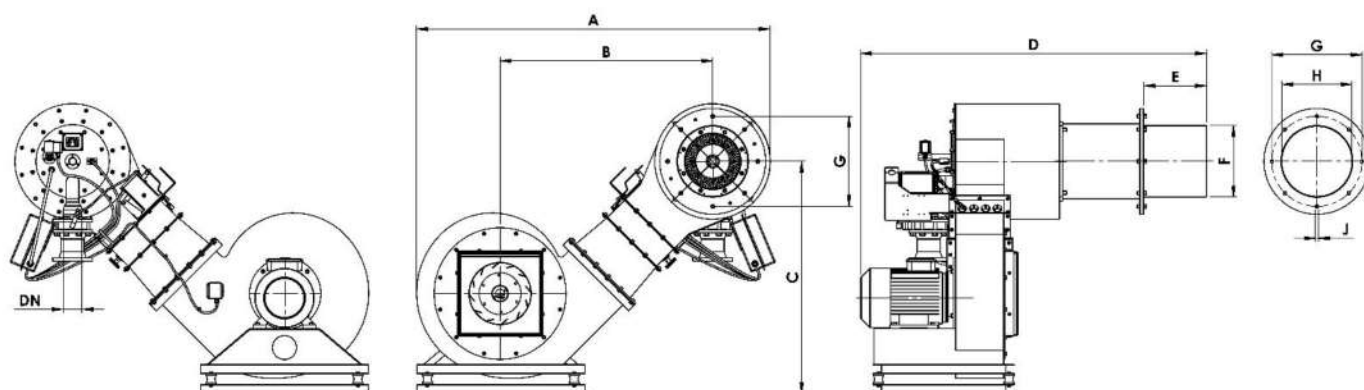
Fuel

Gas Pressure mbar

Gas Consumption m³n/h

Heating Capacity kW

IG 4400	Modulating	Natural Gas	120	81-489	767-4651
IG 5800	Modulating	Natural Gas	120	102-611	971-5814

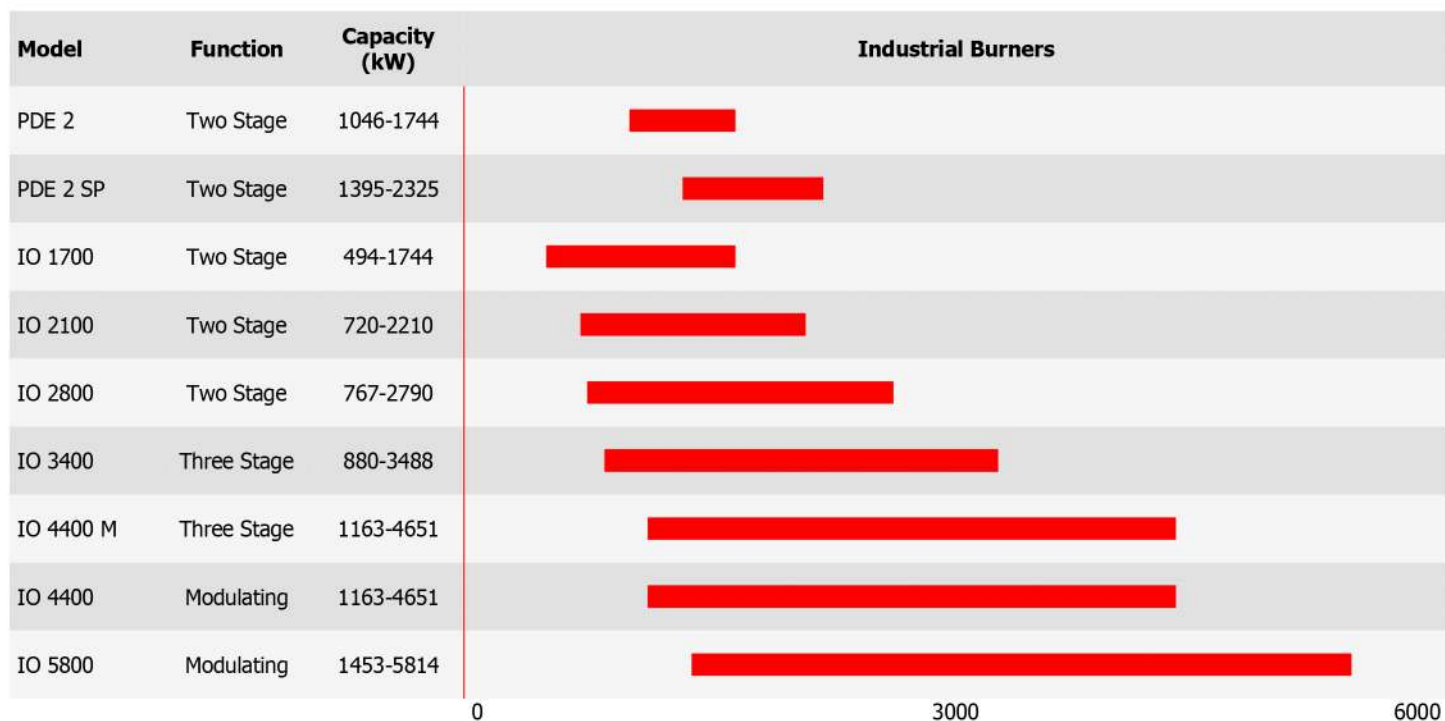
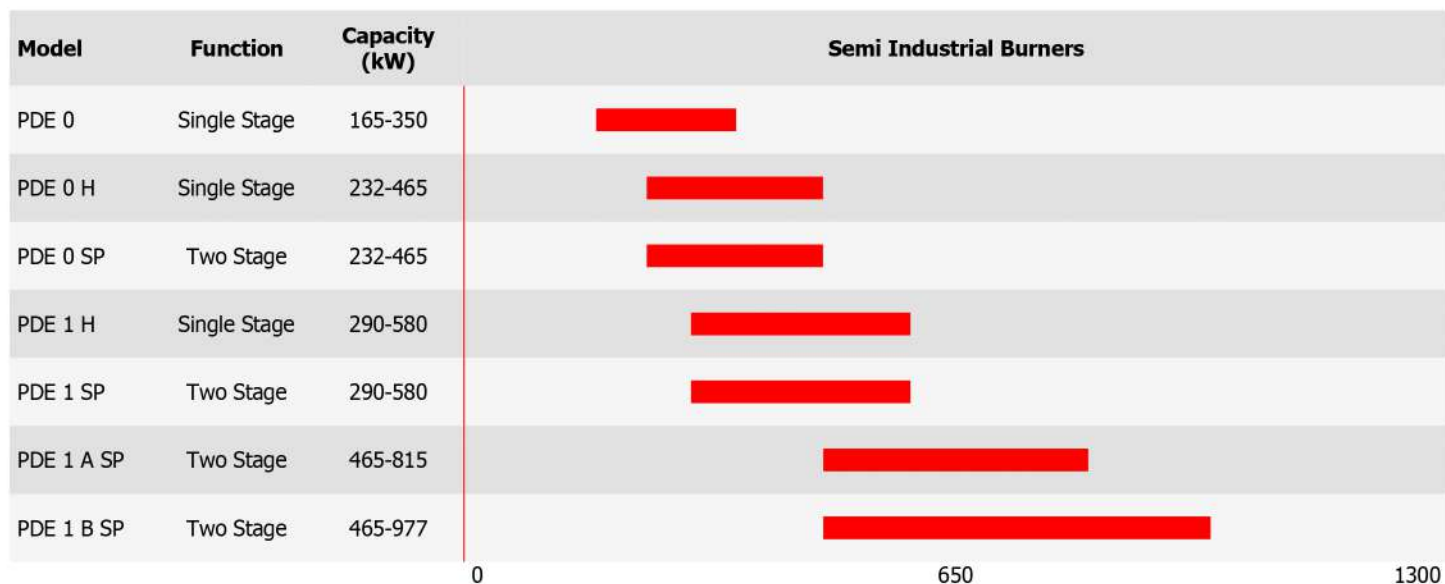
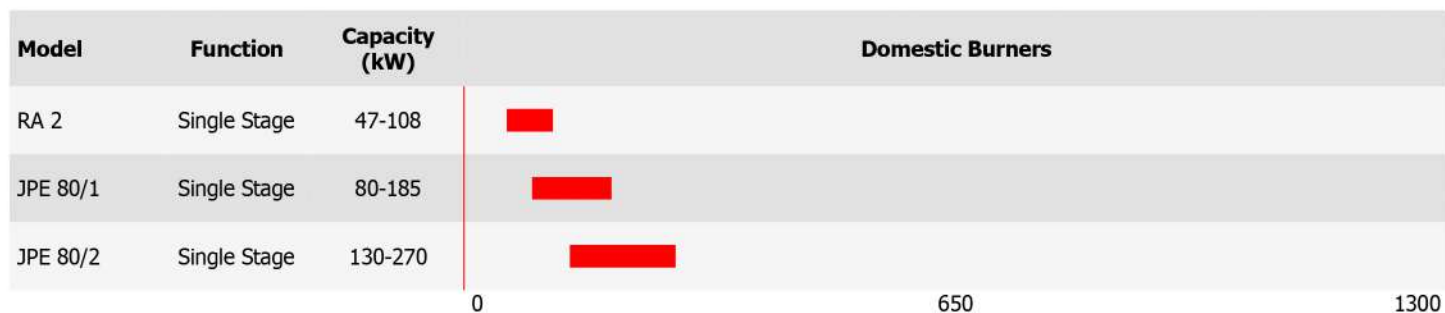
Burner Dimensions


	A	B	C	D	E	F	G	H	J	DN
IG 4400	1570	900	1000	1700	300	340	430	360	M12	100
IG 5800	1800	1045	1100	1750	300	340	430	360	M12	100

Burner Equipment	IG 4400	IG 5800
Fan Motor	3 ~ 15 kW	3 ~ 22 kW
Servomotor	Honeywell 9484F	Honeywell 9484F
Control Unit	Satronic TMG 740	Satronic TMG 740
Ignition Transformer	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2 ½"	Dungs 3"
Gas Solenoid Valve (Slow Opening)	Dungs 2 ½"	Dungs 3"
Gas Solenoid Valve (Pilot Valve)	Brahma ½" (S10) Brahma ½" (E6G*SR10)	Brahma ½" (S10) Brahma ½" (E6G*SR10)
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780
Burner Control Panel	✓ (Separated)	✓ (Separated)

Oil Burners



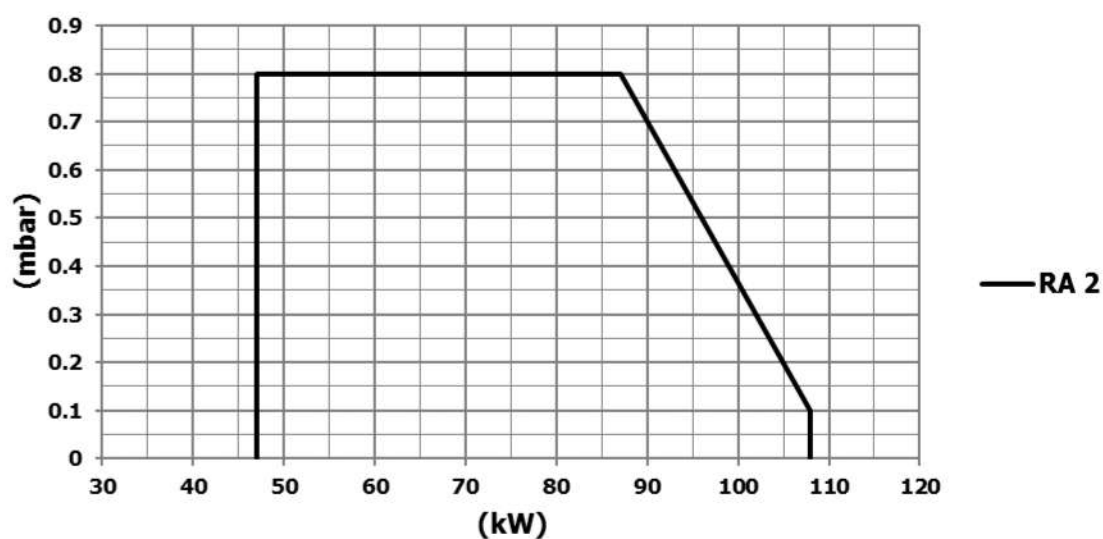




RA 2



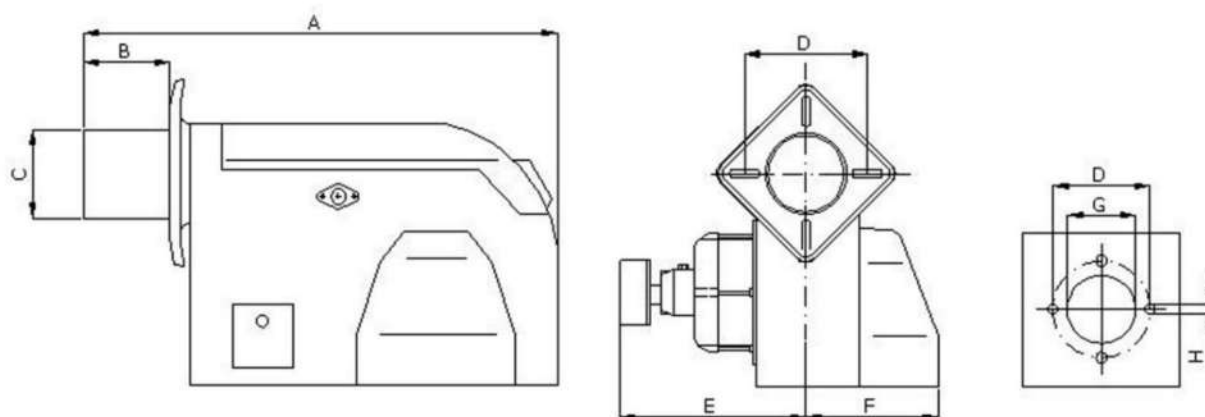
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
RA 2	Single Stage	Light Oil	4-9.3	47-108

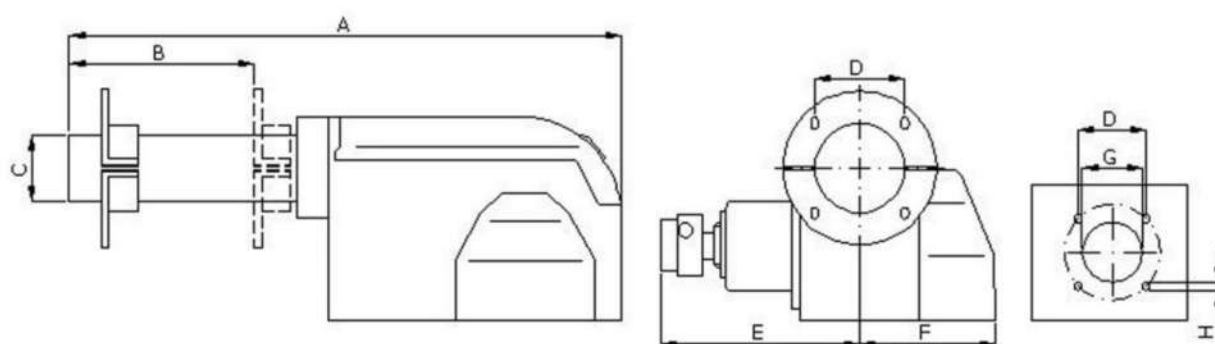


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H
RA 2	400	75	80	120 – 165	184	108	85	M8

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H
RA 2	780	300	92	117	184	108	100	M8

Burner Equipment

RA 2

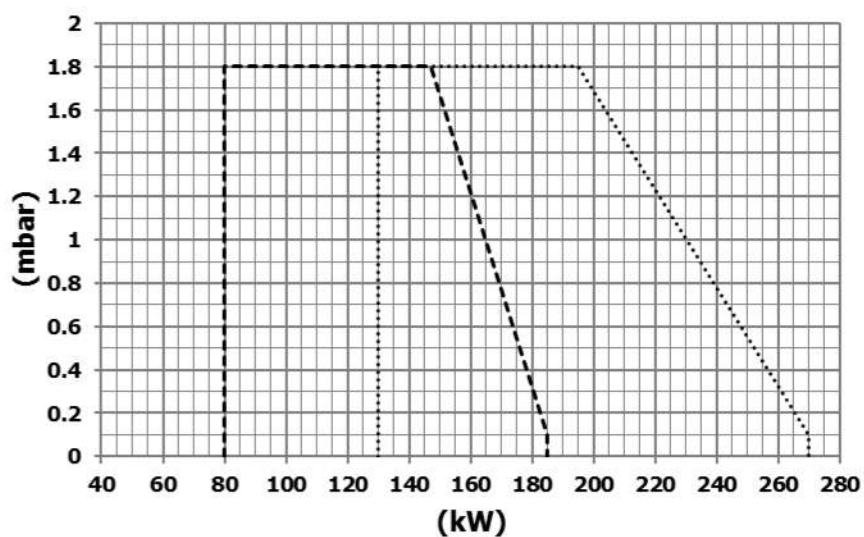
Fan Motor	1 ~ 90 W
Control Unit	TF 701
Oil Pump	Suntec AS47C
Ignition Transformer	Electronic / 2x7 kV / 35 mA
Oil Solenoid Valve	1/8" (With pump)
Flame Detector	Photo cell



JPE 80/1 JPE 80/2



Burner Performance Chart



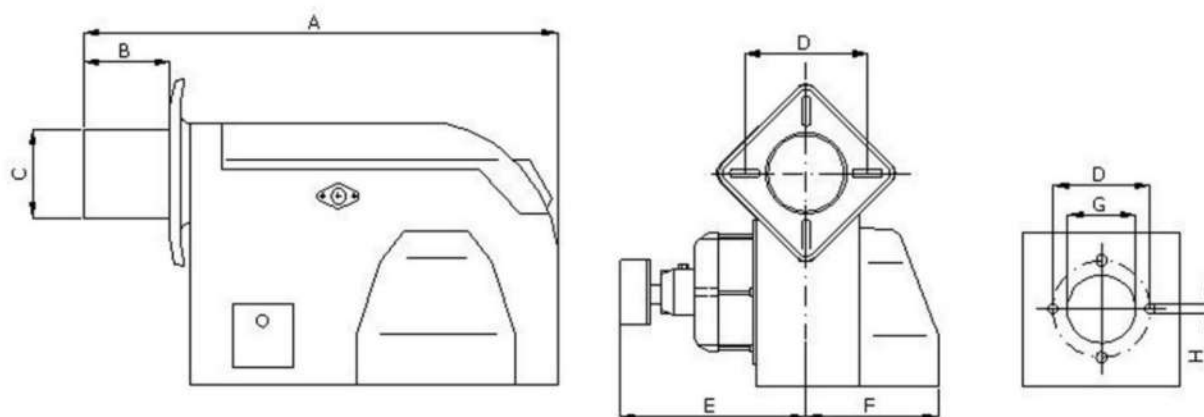
----- JPE 80/1

..... JPE 80/2

	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
JPE 80/1	Single Stage	Light Oil	7-16	80-185
JPE 80/2	Single Stage	Light Oil	11.2-23.2	130-270

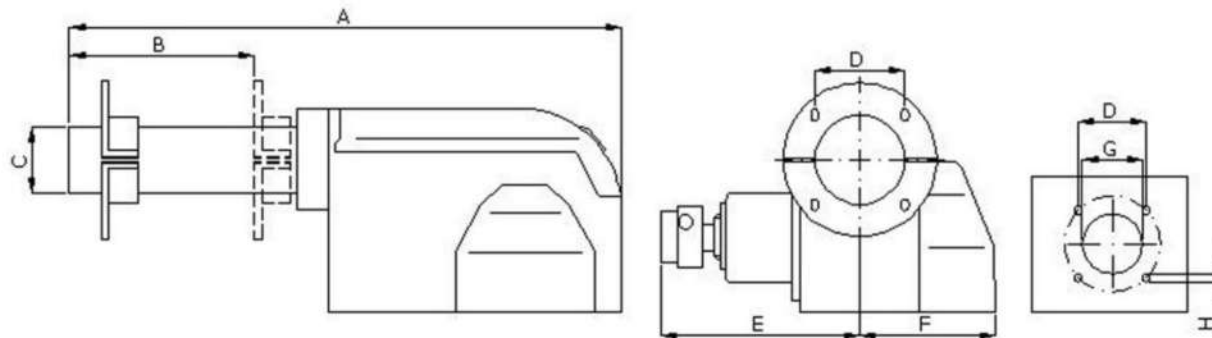


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H
JPE 80/1	600	178	110	173 – 195	240	145	115	M8
JPE 80/2	600	178	115	173 – 195	240	145	120	M8

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H
JPE 80/2	990	370	122	117	240	145	125	M8

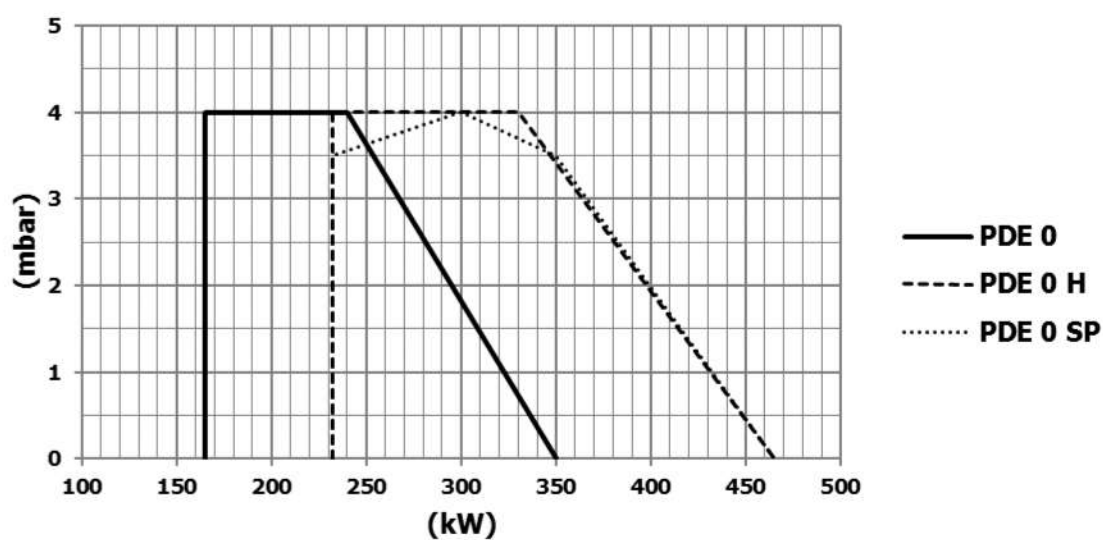
Burner Equipment	JPE 80/1	JPE 80/2
Fan Motor	1 ~ 240 W	1 ~ 240 W
Control Unit	TF 701	TF 701
Oil Pump	Suntec AS47C	Suntec AS47C
Ignition Transformer	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA
Oil Solenoid Valve	1/8" (With pump)	1/8" (With pump)
Flame Detector	Photo cell	Photo cell



PDE 0
PDE 0 H
PDE 0 SP



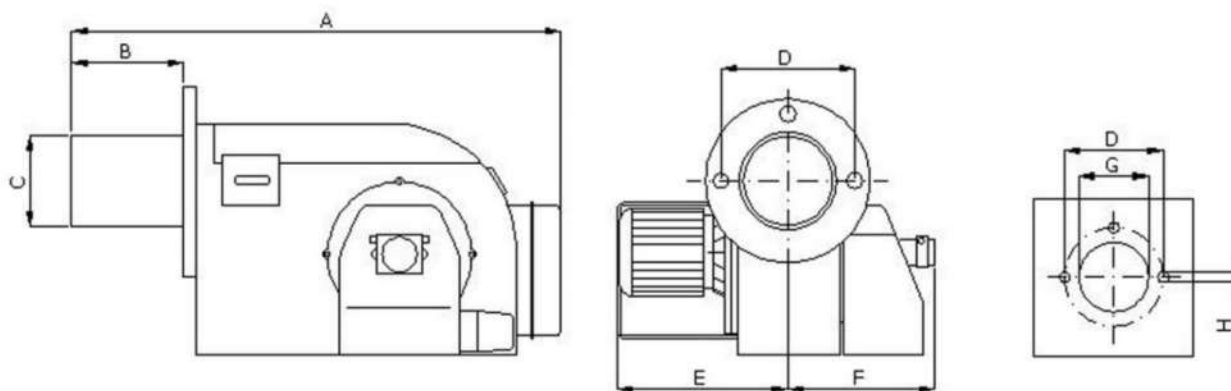
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
PDE 0	Single Stage	Light Oil	14-30	165-350
PDE 0 H	Single Stage	Light Oil	20-40	232-465
PDE 0 SP	Two Stage	Light Oil	20-40	232-465

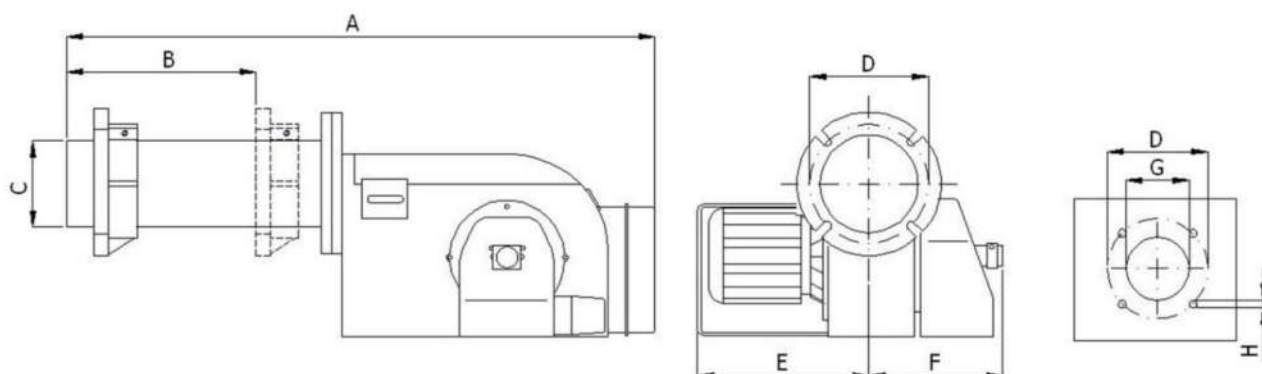


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H
PDE 0	700	170	153	175	280	283	156	M10
PDE 0 H	700	170	153	175	280	283	156	M10
PDE 0 SP	700	170	153	175	280	283	156	M10

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H
PDE 0	880	380	165	205-225	335	283	170	M12
PDE 0 H	880	380	165	205-225	335	283	170	M12
PDE 0 SP	880	380	165	205-225	335	283	170	M12

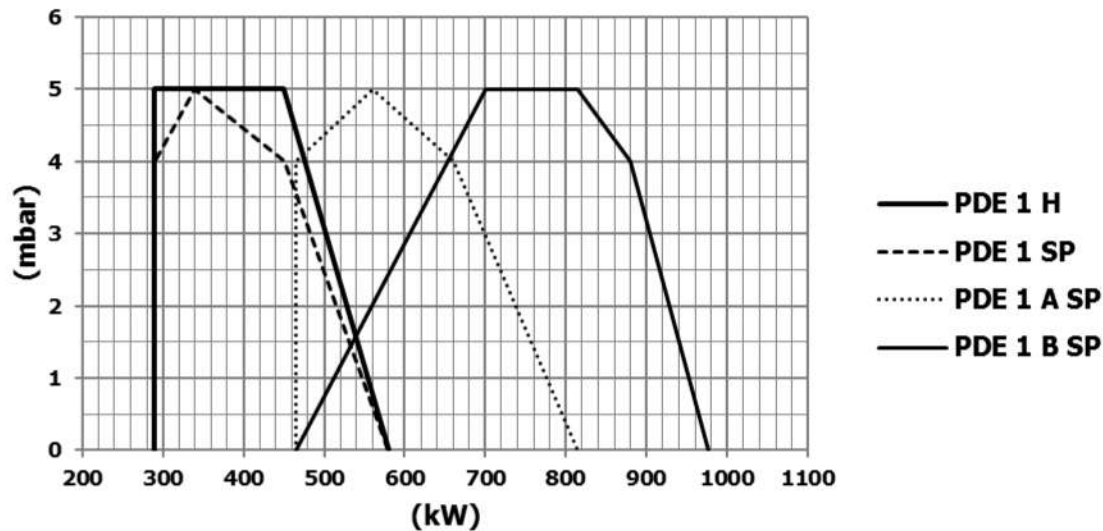
Burner Equipment	PDE 0	PDE 0 H	PDE 0 SP
Fan Motor	1 ~ 550 W	1 ~ 550 W	1 ~ 550 W
Servomotor	-	-	Conectron LKS 160
Control Unit	TF 701	TF 701	TF 701
Oil Pump	Suntec AN57A	Suntec AN57A	Suntec AN57A
Ignition Transformer	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA
Oil Solenoid Valve	Rapa 1/8"	Rapa 1/8" (x4)	Rapa 1/8" (x2)
Flame Detector	Photo cell	Photo cell	Photo cell



PDE 1 H
PDE 1 SP
PDE 1 A SP
PDE 1 B SP



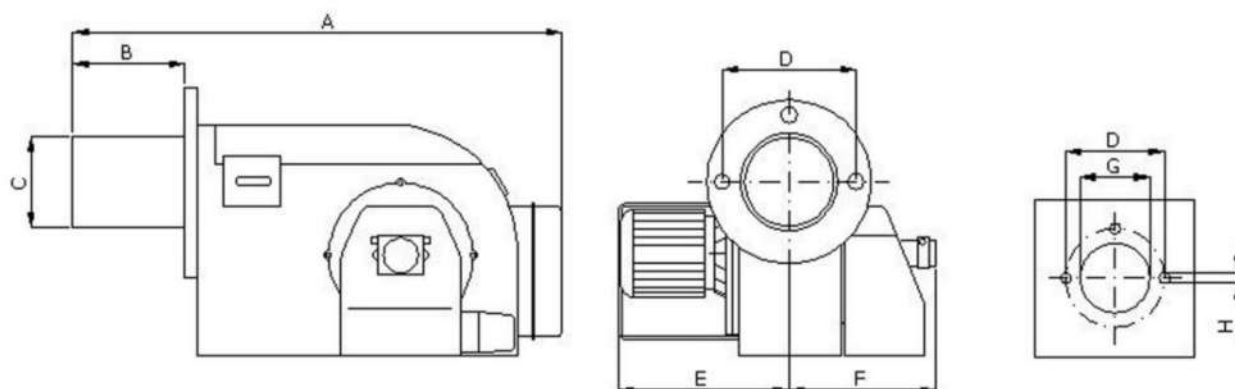
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
PDE 1 H	Single Stage	Light Oil	25-50	290-580
PDE 1 SP	Two Stage	Light Oil	25-50	290-580
PDE 1 A SP	Two Stage	Light Oil	40-70	465-815
PDE 1 B SP	Two Stage	Light Oil	40-84	465-977

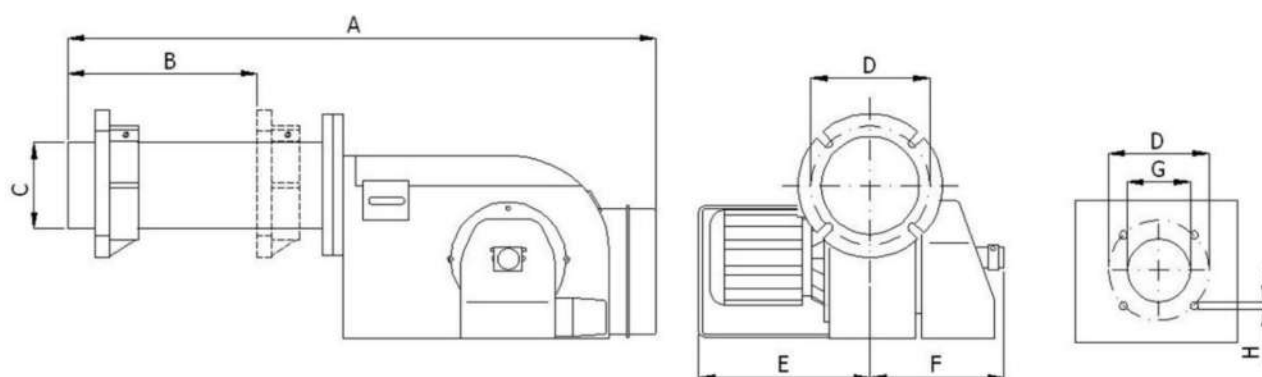


Burner Dimensions (with standard flame tube)



	A	B	C	D	E	F	G	H
PDE 1 H	810	200	165	206	340	312	170	M12
PDE 1 SP	810	200	165	206	340	312	170	M12
PDE 1 A SP	810	200	165	206	340	312	170	M12
PDE 1 B SP	810	200	165	206	340	312	170	M12

Burner Dimensions (with long flame tube)



	A	B	C	D	E	F	G	H
PDE 1 H	1040	380	165	205-225	340	312	170	M12
PDE 1 SP	1040	380	165	205-225	340	312	170	M12
PDE 1 A SP	1040	380	165	205-225	340	312	170	M12
PDE 1 B SP	1040	380	165	205-225	340	312	170	M12



Burner Equipment	PDE 1 H	PDE 1 SP
Fan Motor	3 ~ 1.1 kW	3 ~ 1.1 kW
Servomotor	-	Conectron LKS 160
Control Unit	TF 701	TF 701
Oil Pump	Suntec AN67A	Suntec AN67A
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Oil Solenoid Valve	Rapa 1/8" (x4)	Rapa 1/8" (x2)
Flame Detector	Photo cell	Photo cell

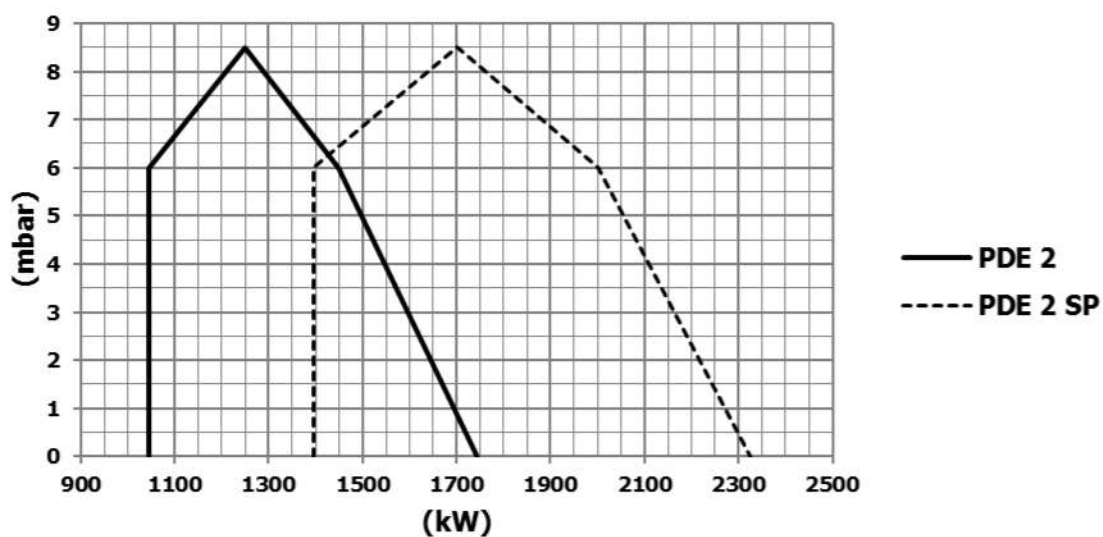
Burner Equipment	PDE 1 A SP	PDE 1 B SP
Fan Motor	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Conectron LKS 160	Conectron LKS 160
Control Unit	TF 701	TF 701
Oil Pump	Suntec AN67A	Suntec AN77A
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Oil Solenoid Valve	Rapa 1/8" (x2)	Rapa 1/8" (x2) & 1/4"
Flame Detector	Photo cell	Photo cell
Burner Control Panel	✓ (Connected)	✓ (Connected)



PDE 2 PDE 2 SP



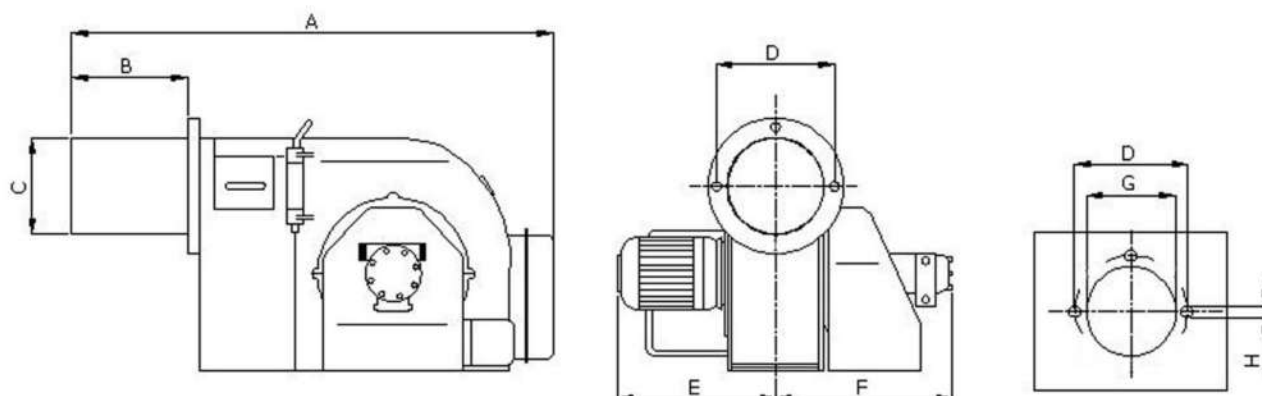
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
PDE 2	Two Stage	Light Oil	90-150	1046-1744
PDE 2 SP	Two Stage	Light Oil	120-200	1395-2325



Burner Dimensions



	A	B	C	D	E	F	G	H
PDE 2	960	220	194	305	420	390	200	M12
PDE 2 SP	960	220	219	305	420	390	225	M12

Burner Equipment	PDE 2	PDE 2 SP
Fan Motor	3 ~ 3 kW	3 ~ 4 kW
Servomotor	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMO 720	Satronic TMO 720
Oil Pump	Suntec AJ6AE	Suntec E7NA
Ignition Transformer	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Oil Solenoid Valve	Rapa 1/8" (x2) & 1/4"	Rapa 1/8" (x2) & 1/4"
Flame Detector	Photo cell	Photo cell
Burner Control Panel	✓ (separated)	✓ (separated)



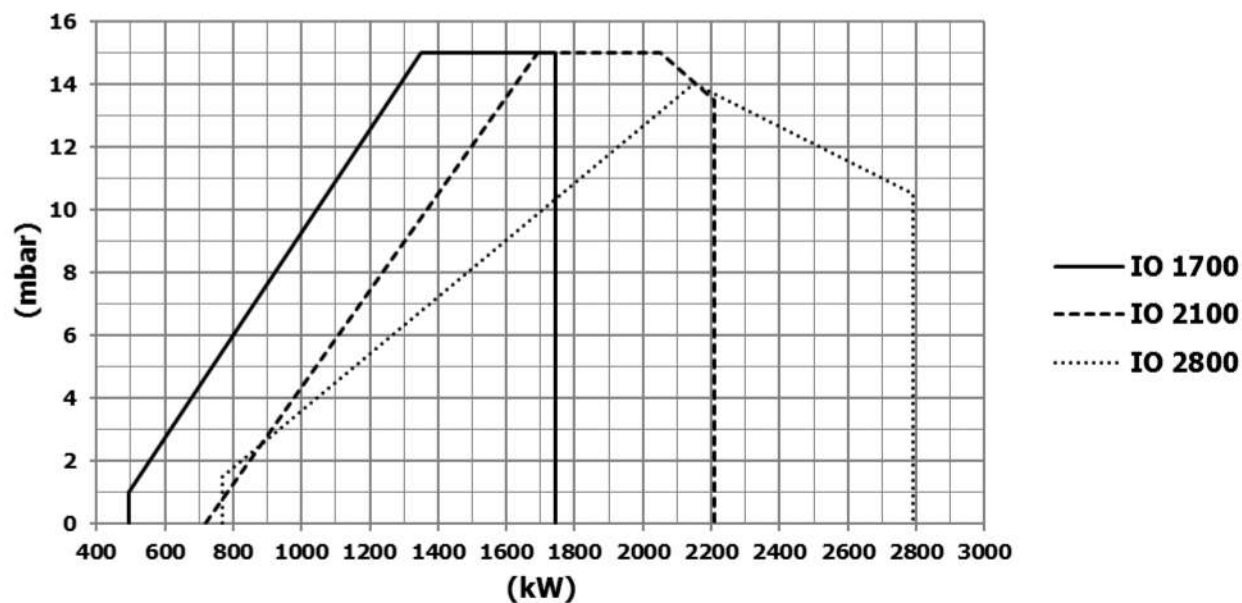
IO 1700

IO 2100

IO 2800



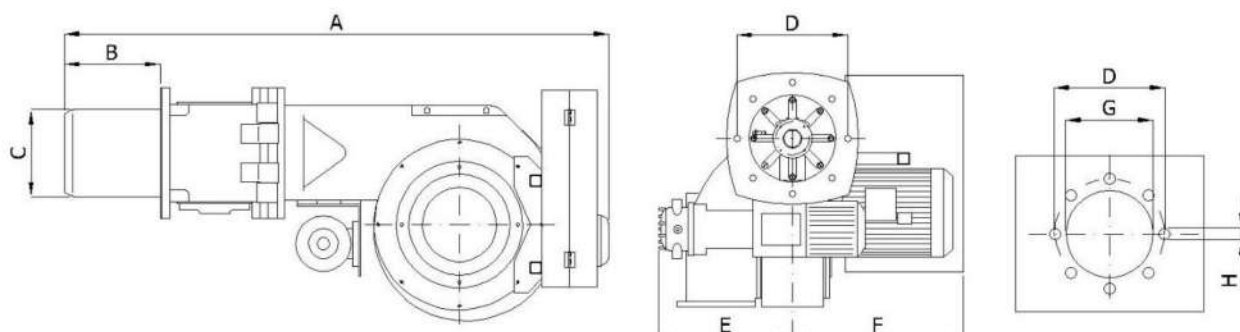
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
IO 1700	Two Stage	Light Oil	42.5-150	494-1744
IO 2100	Two Stage	Light Oil	62-190	720-2210
IO 2800	Two Stage	Light Oil	66-240	767-2790



Burner Dimensions



	A	B	C	D	E	F	G	H
IO 1700	1306	246	219	305	337	520	229	M10
IO 2100	1306	246	254	305	337	520	264	M10
IO 2800	1306	246	254	305	337	520	264	M10

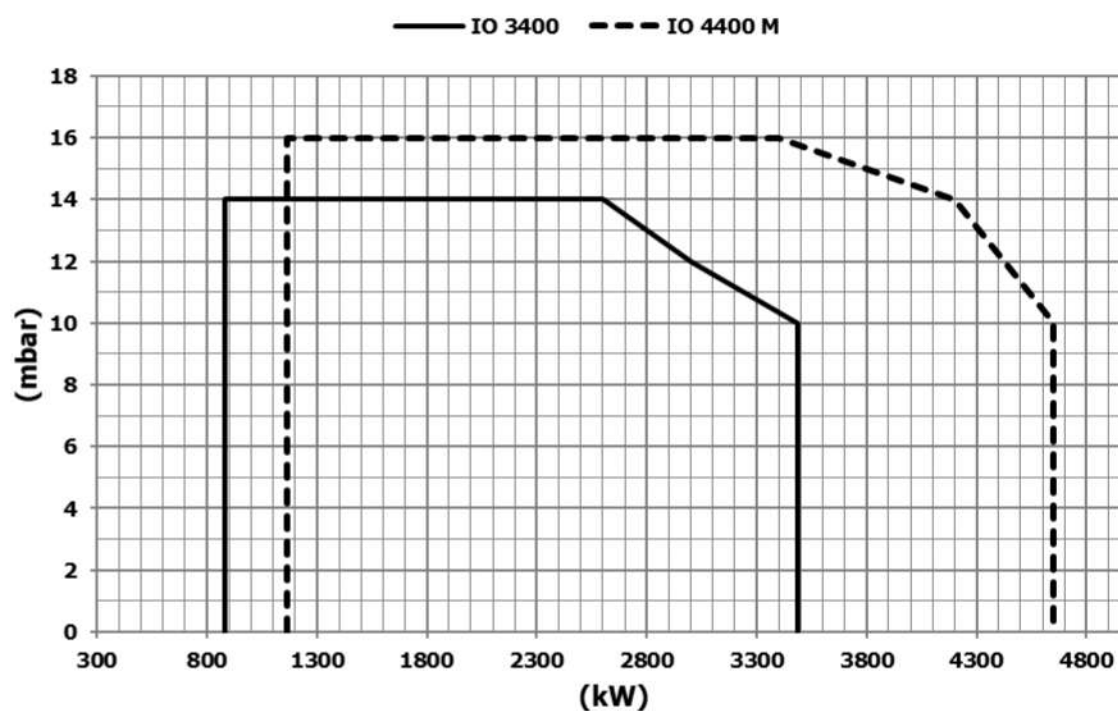
Burner Equipment	IO 1700	IO 2100	IO 2800
Fan Motor	3 ~ 4 kW	3 ~ 5.5 kW	3 ~ 7.5 kW
Oil Pump Motor	3 ~ 1.1 kw	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Conectron LKS 310	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMO 720	Satronic TMO 720	Satronic TMO 720
Oil Pump	Suntec AJ6AE	Suntec E7NA	Suntec E7NA
Ignition Transformer	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Oil Solenoid Valve	Rapa 1/4" (x3)	Rapa 1/4" (x3)	Rapa 1/4" (x3)
Flame Detector	Photo cell	Photo cell	Photo cell
Burner Control Panel	✓ (Connected)	✓ (Connected)	✓ (Connected)



IO 3400 IO 4400 M



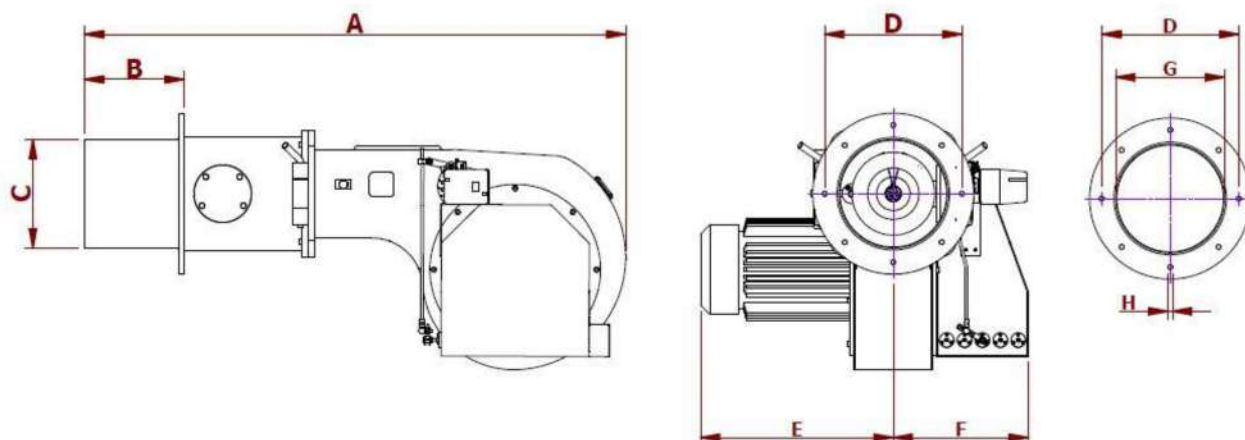
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
IO 3400	Three Stage	Light Oil	75.7-300	880-3488
IO 4400 M	Three Stage	Light Oil	100-400	1163-4651



Burner Dimensions



	A	B	C	D	E	F	G	H
IO 3400	1697	303	311	430	604	484	330	M14
IO 4400 M	1697	303	341	430	604	484	360	M14

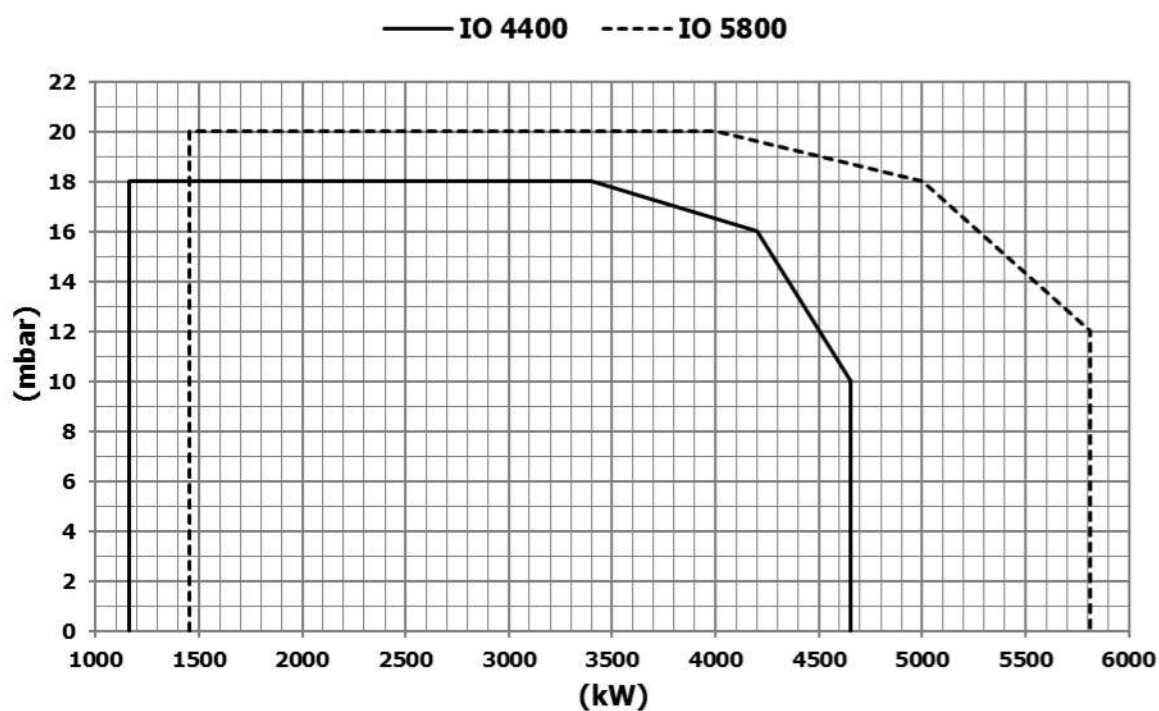
Burner Equipment	IO 3400	IO 4400 M
Fan Motor	3 ~ 7.5 kW	3 ~ 11 kW
Oil Pump Motor	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMO 720	Satronic TMO 720
Oil Pump	Suntec E7NA	Suntec TA2A
Ignition Transformer	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Oil Solenoid Valve	Rapa ¼" SV04R2.5 Rapa ¼" BV01L2 (x3)	Rapa ¼" SV04R3 Rapa ¼" BV01L2 (x3)
Flame Detector	Photo cell	Photo cell
Burner Control Panel	✓ (separated)	✓ (separated)



IO 4400
IO 5800



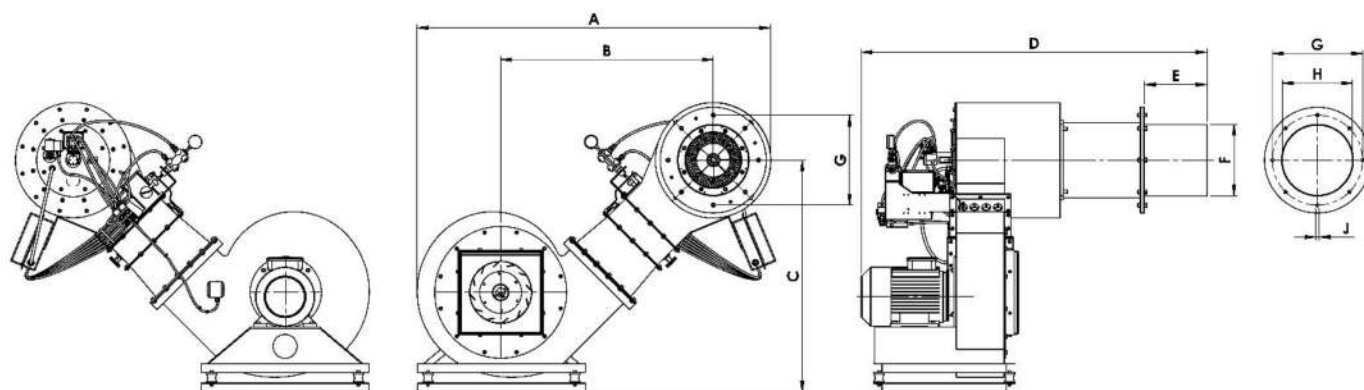
Burner Performance Chart



	Function	Fuel	Oil Consumption kg/h	Heating Capacity kW
IO 4400	Modulating	Light Oil	100-400	1163-4651
IO 5800	Modulating	Light Oil	125-500	1453-5814



Burner Dimensions

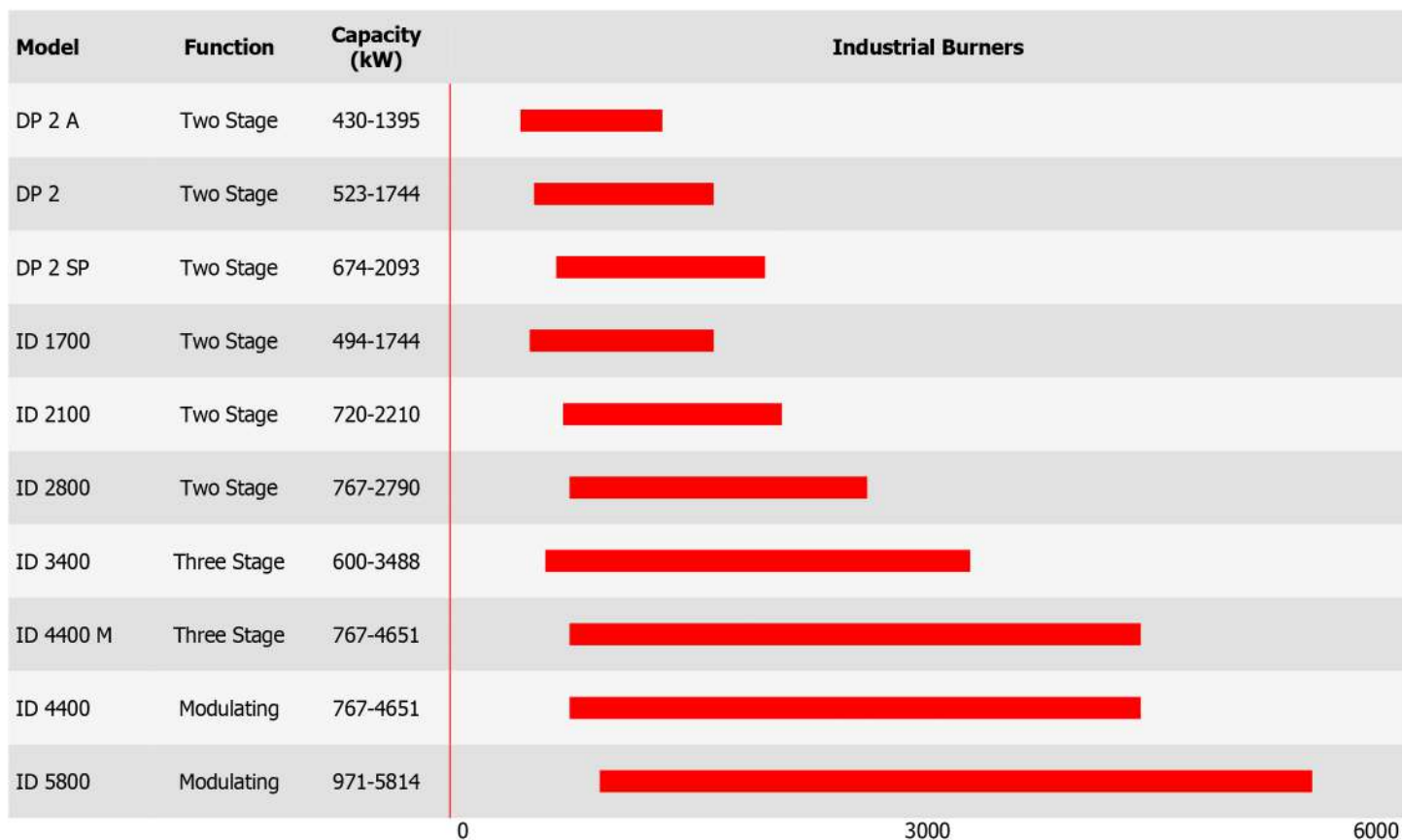
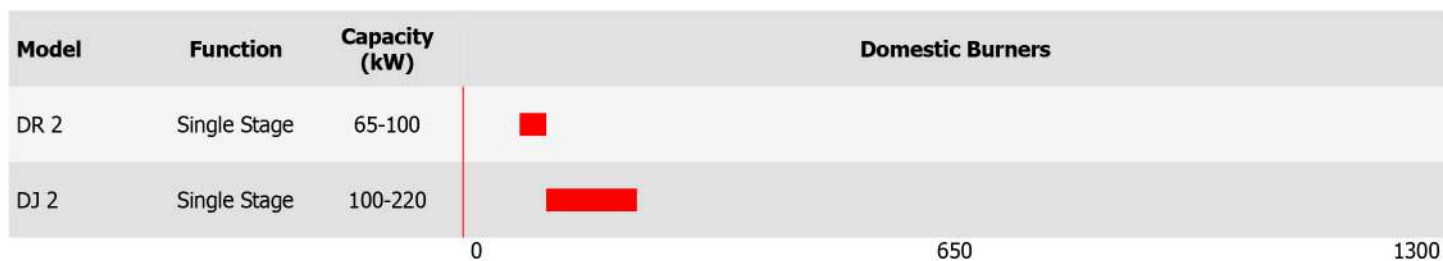


	A	B	C	D	E	F	G	H	J
IO 4400	1570	900	1000	1700	300	340	430	360	M12
IO 5800	1800	1045	1100	1750	300	340	430	360	M12

Burner Equipment	IO 4400	IO 5800
Fan Motor	3 ~ 15 kW	3 ~ 22 kW
Oil Pump Motor	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Honeywell 9484F	Honeywell 9484F
Control Unit	Satronic TMG 740	Satronic TMG 740
Oil Pump	Suntec TA2A	Suntec TA3A
Ignition Transformer	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Oil Solenoid Valve	Rapa ¼" SV04R3 Rapa ¼" SV05R3	Rapa ¼" SV04R3 Rapa ¼" SV05R3
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780
Burner Control Panel	✓ (Separated)	✓ (Separated)

Dual Fuel Burners



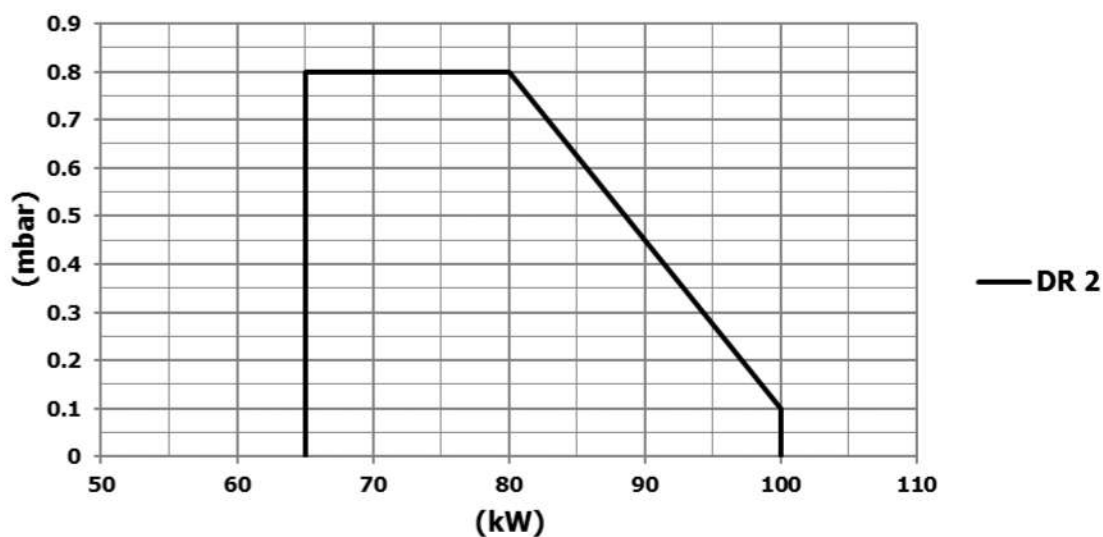




DR 2



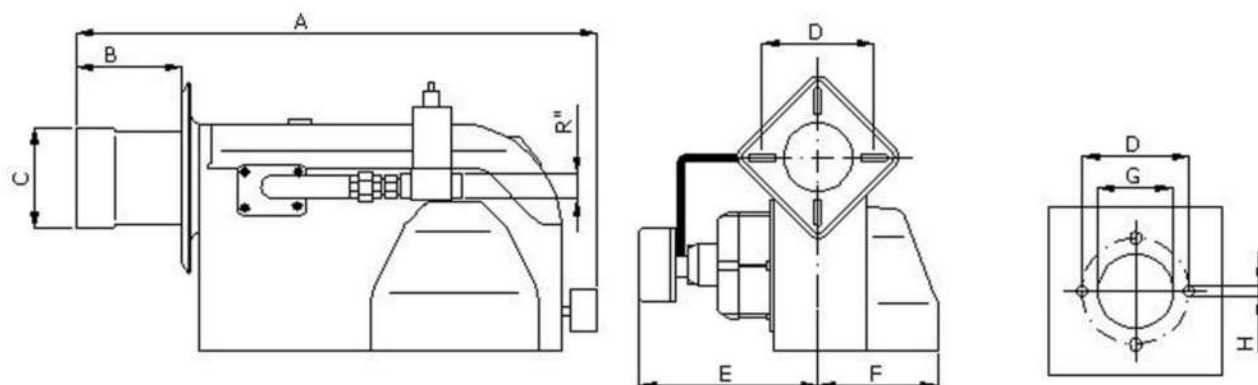
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m ³ n/h	Oil Consumption kg/h	Heating Capacity kW
DR 2	Single Stage	Natural Gas/Light Oil	15-40	6.85-10.5	5.6-8.6	65-100



Burner Dimensions



	A	B	C	D	E	F	G	H	R''
DR 2	517	97	88	120-165	184	240	90	M8	1/2

Burner Equipment

DR 2

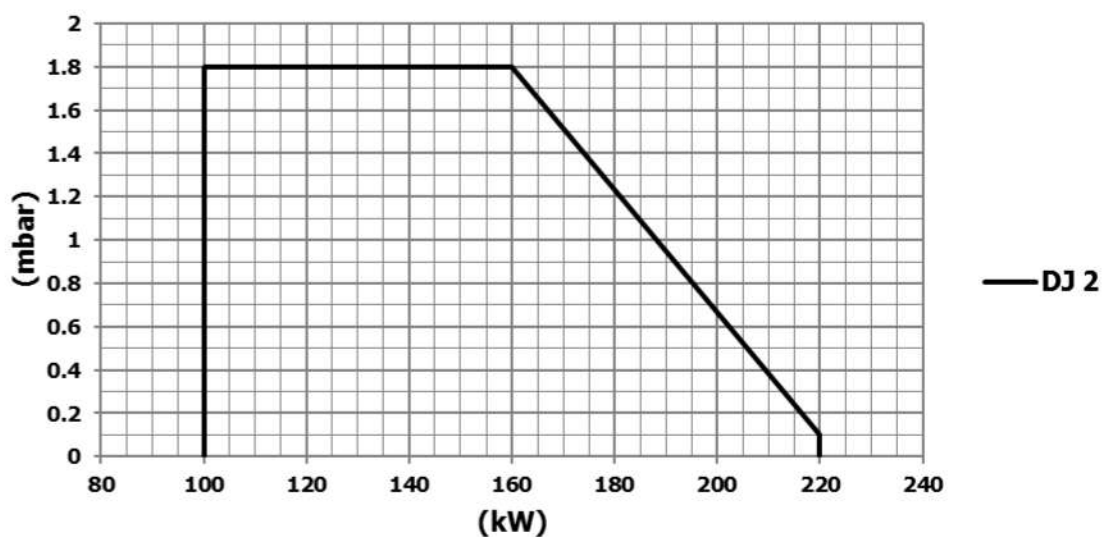
Fan Motor	1 ~ 90 W
Control Unit	G 811
Oil Pump	Suntec AS47C
Ignition Transformer	Electronic / 2x7 kV / 35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1/2"
Oil Solenoid Valve	1/8" (With pump)
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder
Flame Detector	Landis QRA2



DJ 2



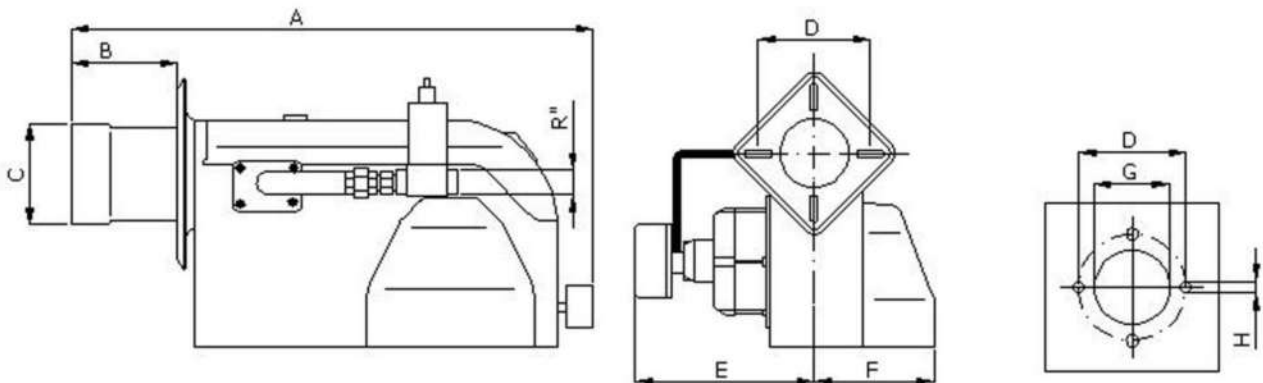
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m ³ n/h	Oil Consumption kg/h	Heating Capacity kW
DJ 2	Single Stage	Natural Gas/Light Oil	15-40	10.5-23.2	8.6-19	100-220



Burner Dimensions



	A	B	C	D	E	F	G	H	R''
DJ 2	652	178	110	173-195	240	295	115	M8	1

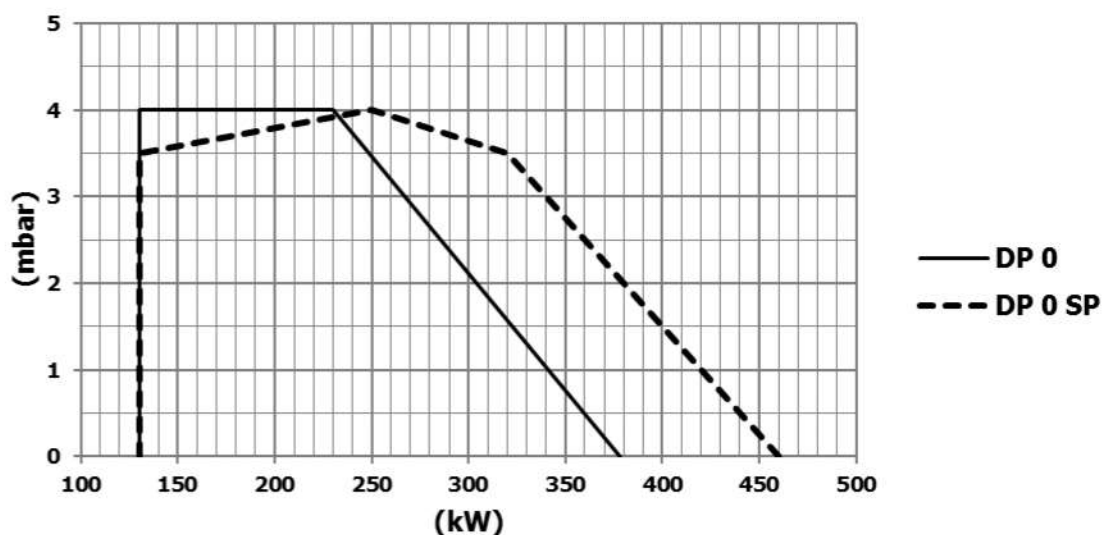
Burner Equipment	DJ 2
Fan Motor	1 ~ 240 W
Control Unit	G 811
Oil Pump	Suntec AS47C
Ignition Transformer	Electronic / 2x7 kV / 35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1"
Oil Solenoid Valve	1/8" (With pump)
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder
Flame Detector	Landis QRA2



DP 0
DP 0 SP



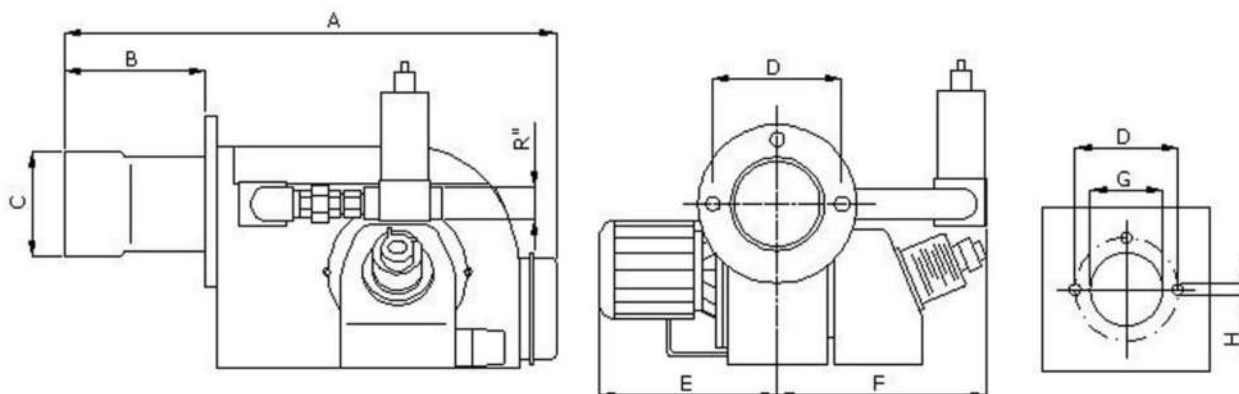
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Oil Consumption kg/h	Heating Capacity kW
DP 0	Single Stage	Natural Gas/Light Oil	10-40	13.4-39.7	11-32.5	130-378
DP 0 SP	Two Stage	Natural Gas/Light Oil	10-40	13.4-48	11-39.5	130-460



Burner Dimensions



	A	B	C	D	E	F	G	H	R''
DP 0	700	170	153	175	280	305	156	M10	1
DP 0 SP	700	170	153	175	280	305	156	M10	1 ½

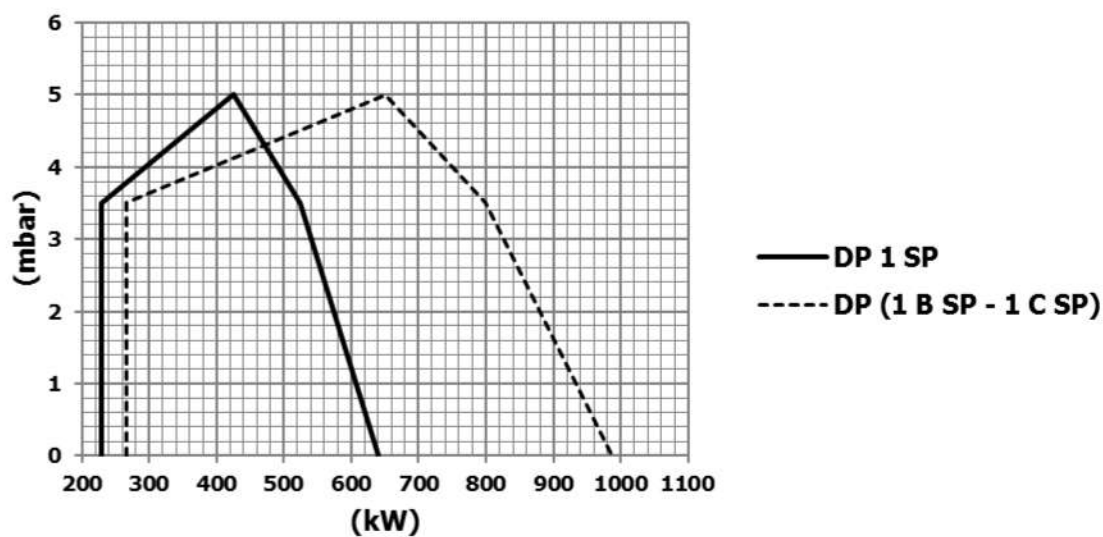
Burner Equipment	DP 0	DP 0 SP
Fan Motor	1 ~ 550 W	1 ~ 550 W
Oil Pump Motor	1 ~ 90 W	1 ~ 90 W
Servomotor	-	Conectron LKS 160
Control Unit	G 811	G 811
Oil Pump	Suntec AN57C	Suntec AN57C
Ignition Transformer (Gas Fuel)	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA
Ignition Transformer (Oil Fuel)	Electronic / 2x7 kV / 35 mA	Electronic / 2x7 kV / 35 mA
Gas Solenoid Valve (Slow Opening)	Dungs or Krom Schroder 1"	Dungs or Krom Schroder 1 ½"
Oil Solenoid Valve	Rapa 1/8"	Rapa 1/8" (x2)
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Landis QRA2	Landis QRA2
Burner Control Panel	-	✓ (Connected)



DP 1 SP
DP 1 B SP
DP 1 C SP



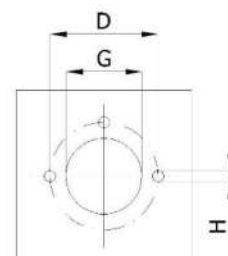
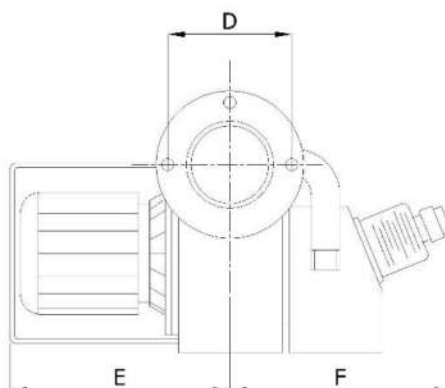
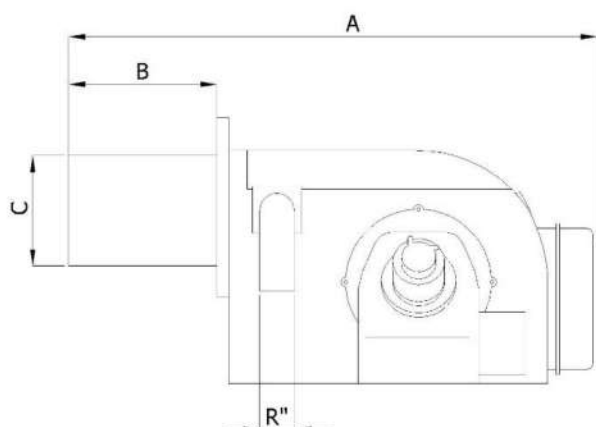
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Oil Consumption kg/h	Heating Capacity kW
DP 1 SP	Two Stage	Natural Gas/Light Oil	15-60	24-67	19.7-55	230-640
DP 1 B SP	Two Stage	Natural Gas/Light Oil	22-60	28-104	23-85	267-988
DP 1 C SP	Two Stage	Natural Gas/Light Oil	22-60	28-104	23-85	267-988



Burner Dimensions



	A	B	C	D	E	F	G	H	R''
DP 1 SP	810	200	165	206	340	335	170	M12	2
DP 1 B SP	810	200	165	206	340	355	170	M12	2
DP 1 C SP	810	200	165	206	340	355	170	M12	1 ½

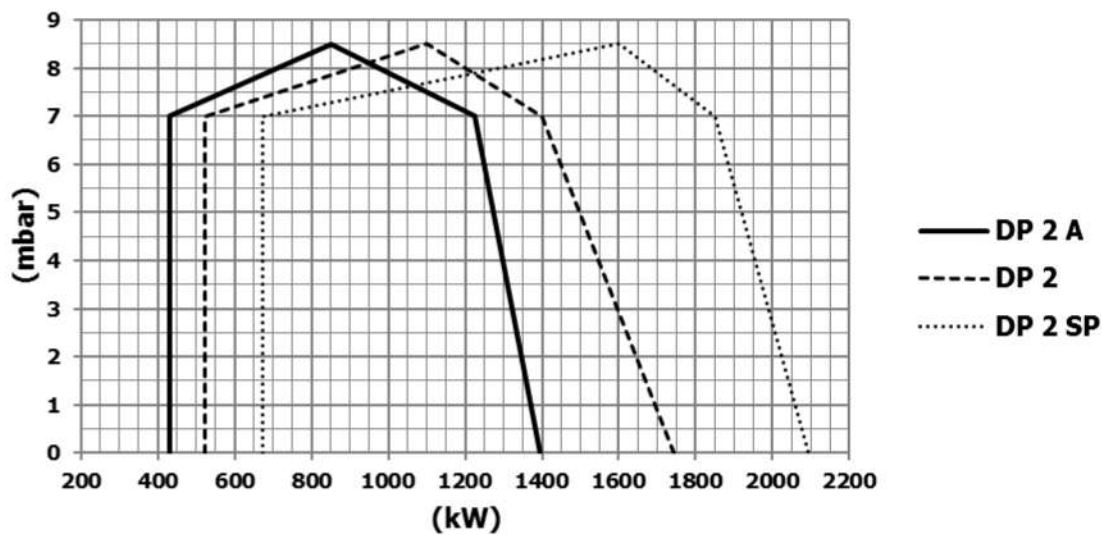
Burner Equipment	DP 1 SP	DP 1 B SP	DP 1 C SP
Fan Motor	3 ~ 1.5 kW	3 ~ 1.5 kW	3 ~ 1.1 kW
Oil Pump Motor	1 ~ 90 W	1 ~ 240 W	1 ~ 240 W
Servomotor	Conectron LKS 160	Conectron LKS 160	Conectron LKS 160
Control Unit	Satronic TMG 740	Satronic TMG 740	Satronic DLG 976
Oil Pump	Suntec AN67C	Suntec AN77C	Suntec AN77C
Ignition Transformer (Gas Fuel)	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Ignition Transformer (Oil Fuel)	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	-	Dungs 2"	Krom Schroder 1 ½"
Gas Solenoid Valve (Slow Opening)	Dungs 1 ½" 2 stage	Dungs 2" 2 stage	Krom Schroder 1"
Oil Solenoid Valve	Rapa 1/8" (x2)	Rapa 1/8" (x2) & 1/4"	Rapa 1/8" (x2) & 1/4"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Landis QRA2	Landis QRA2	Landis QRA2
Burner Control Panel	✓ (separated)	✓ (separated)	-



DP 2 A
DP 2
DP 2 SP



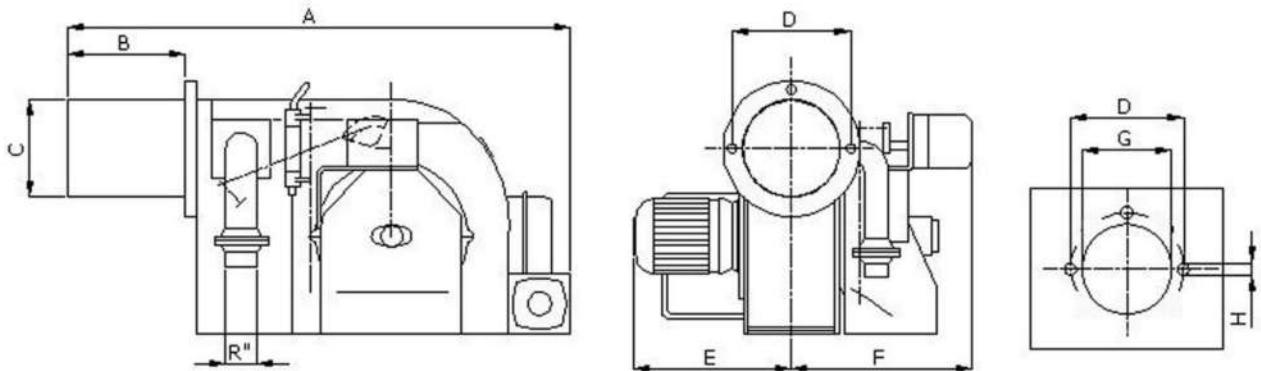
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Oil Consumption kg/h	Heating Capacity kW
DP 2 A	Two Stage	Natural Gas/Light Oil	40-80	45-147	37-120	430-1395
DP 2	Two Stage	Natural Gas/Light Oil	40-80	55-183	45-150	523-1744
DP 2 SP	Two Stage	Natural Gas/Light Oil	40-80	70-220	58-180	674-2093



Burner Dimensions



	A	B	C	D	E	F	G	H	R"
DP 2 A	1030	220	194	305	390	390	200	M12	2
DP 2	1030	220	194	305	420	390	200	M12	2
DP 2 SP	1100	220	219	305	420	390	225	M12	2 ½

Burner Equipment	DP 2 A	DP 2	DP 2 SP
Fan Motor	3 ~ 2.2 kW	3 ~ 3 kW	3 ~ 4 kW
Oil Pump Motor	3 ~ 1.1 kW	3 ~ 1.1 kW	3 ~ 1.1 kW
Servomotor	Conectron LKS 310	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMG 740	Satronic TMG 740	Satronic TMG 740
Oil Pump	Suntec AJ6AE	Suntec AJ6AE	Suntec E7NA
Ignition Transformer (Gas Fuel)	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Ignition Transformer (Oil Fuel)	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma TB2S Electronic / 2×12 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2"	Dungs 2"	Dungs 2 ½"
Gas Solenoid Valve (Slow Opening)	Dungs 2"	Dungs 2"	Dungs 2 ½"
Oil Solenoid Valve	Rapa 1/8" (x2) & 1/4"	Rapa 1/8" (x2) & 1/4"	Rapa 1/8" (x2) & 1/4"
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder	Air pressure switch Dungs or Krom Schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780	Satronic UVZ 780
Burner Control Panel	✓ (separated)	✓ (separated)	✓ (separated)



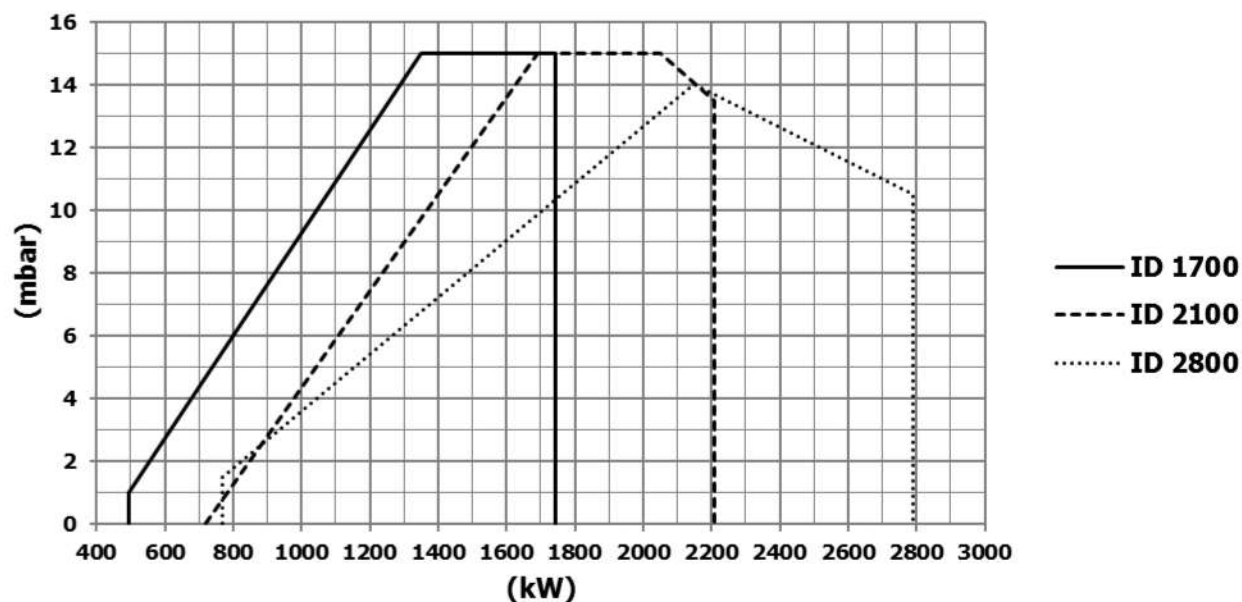
ID 1700

ID 2100

ID 2800



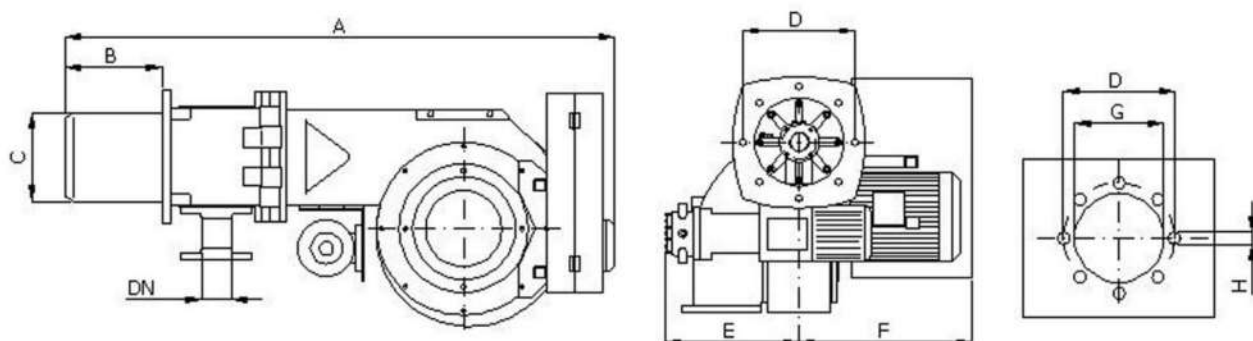
Burner Performance Chart



	Function	Fuel	Gas Pressure mbar	Gas Consumption m³n/h	Oil Consumption kg/h	Heating Capacity kW
ID 1700	Two Stage	Natural Gas/Light Oil	60-200	52-183	42.5-150	494-1744
ID 2100	Two Stage	Natural Gas/Light Oil	60-200	76-232	62-190	720-2210
ID 2800	Two Stage	Natural Gas/Light Oil	60-200	81-293	66-240	767-2790



Burner Dimensions



	A	B	C	D	E	F	G	H	DN
ID 1700	1306	246	219	305	337	520	229	M10	50
ID 2100	1306	246	254	305	337	520	264	M10	50
ID 2800	1306	246	254	305	337	520	264	M10	50

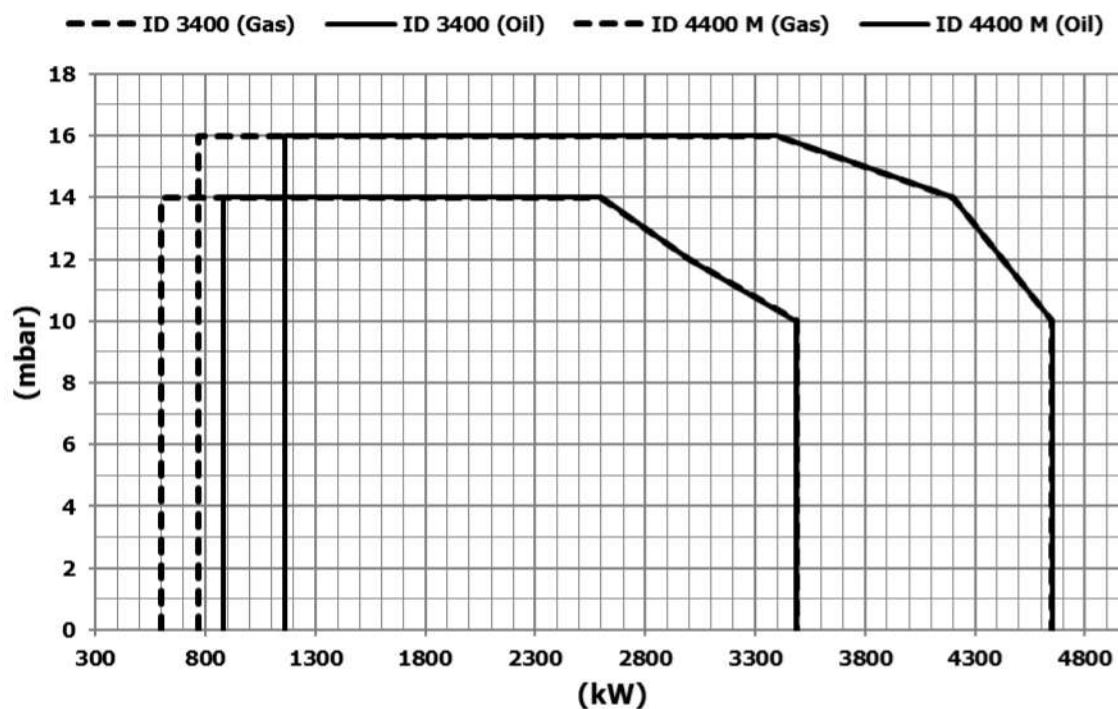
Burner Equipment	ID 1700	ID 2100	ID 2800
Fan Motor	3 ~ 4 kW	3 ~ 5.5 kW	3 ~ 7.5 kW
Oil Pump Motor	3 ~ 1.1 kW	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Conectron LKS 310	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMG 740	Satronic TMG 740	Satronic TMG 740
Oil Pump	Suntec AJ6AE	Suntec E7NA	Suntec E7NA
Ignition Transformer (Gas Fuel)	Brahma TB2S Electronic / 2×12 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Ignition Transformer (Oil Fuel)	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2"	Dungs 2"	Dungs 2" Fast opening
Gas Solenoid Valve (Slow Opening)	Dungs 2" 2 Stage	Dungs 2" 2 Stage	Dungs 2" 2 Stage
Oil Solenoid Valve	Rapa 1/4" (x3)	Rapa 1/4" (x3)	Rapa 1/4" (x3)
Gas Pressure Control	Gas pressure switch Dungs or Krom Schroder	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780	Satronic UVZ 780
Burner Control Panel	✓ (Connected)	✓ (Connected)	✓ (Connected)



ID 3400 ID 4400 M



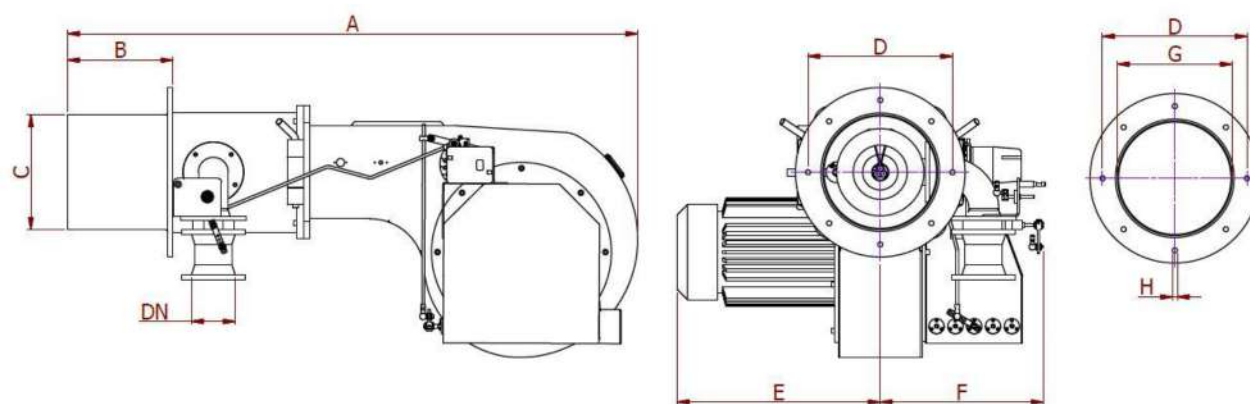
Burner Performance Chart



	Function	Fuel	Gas Pressure Mbar	Gas Consumption m³n/h	Light oil Consumption kg/h	Heating Capacity kW
ID 3400	Three Stage	Natural Gas/Light Oil	120-140	63-367	75.7-300	600-3488
ID 4400 M	Three Stage	Natural Gas/Light Oil	120-140	81-489	100-400	767-4651



Burner Dimensions

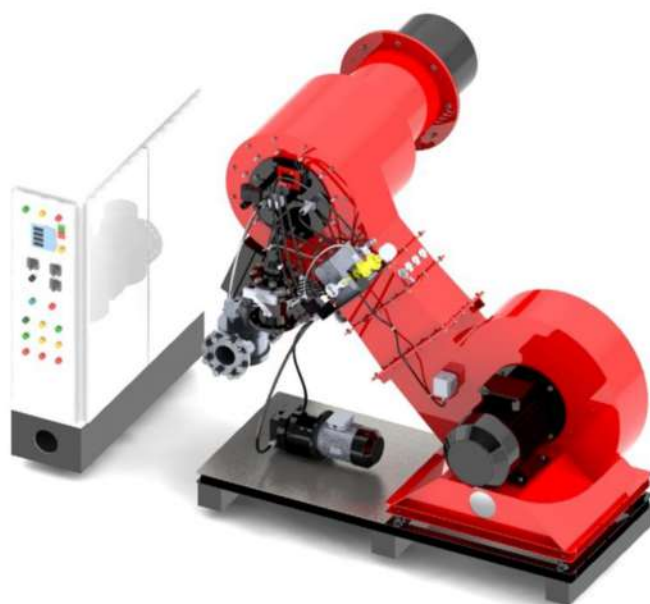


	A	B	C	D	E	F	G	H	DN
ID 3400	1697	303	311	430	604	484	330	M14	80
ID 4400 M	1697	303	341	430	604	484	360	M14	80

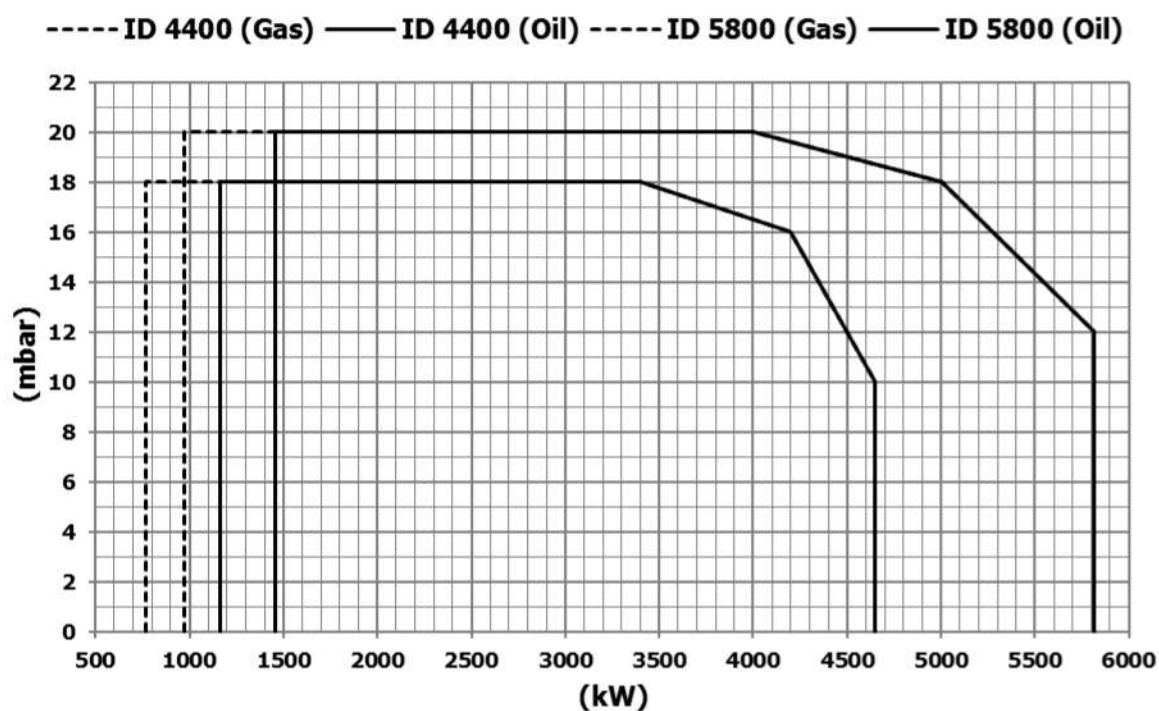
Burner Equipment	ID 3400	ID 4400 M
Fan Motor	3 ~ 7.5 kW	3 ~ 11 kW
Oil Pump Motor	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Conectron LKS 310	Conectron LKS 310
Control Unit	Satronic TMG 740	Satronic TMG 740
Oil Pump	Suntec E7NA	Suntec TA2A
Ignition Transformer (Gas Fuel)	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Ignition Transformer (Oil Fuel)	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2 ½" Fast opening	Dungs 3" Fast opening
Gas Solenoid Valve (Slow Opening)	Dungs 2 ½" Slow opening	Dungs 3" Slow opening
Gas Solenoid Valve (Pilot Valve)	Brahma ½" (S10) (x2)	Brahma ½" (S10) (x2)
Oil Solenoid Valve	Rapa ¼" SV04R2.5 Rapa ¼" BV01L2 (x3)	Rapa ¼" SV04R3 Rapa ¼" BV01L2 (x3)
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780
Push button	Dungs DKH ½" (x3)	Dungs DKH ½" (x3)
Tightness Control	Dungs VDK 200 A	Dungs VDK 200 A
Pressure Gauge	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar (x2)	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar (x2)
Filter	Dungs GF 40065/3 (2 ½")	Dungs GF 40080/3 (3")
Pressure Regulator	Dungs ½"	Dungs ½"
Burner Control Panel	✓ (separated)	✓ (separated)



ID 4400
ID 5800



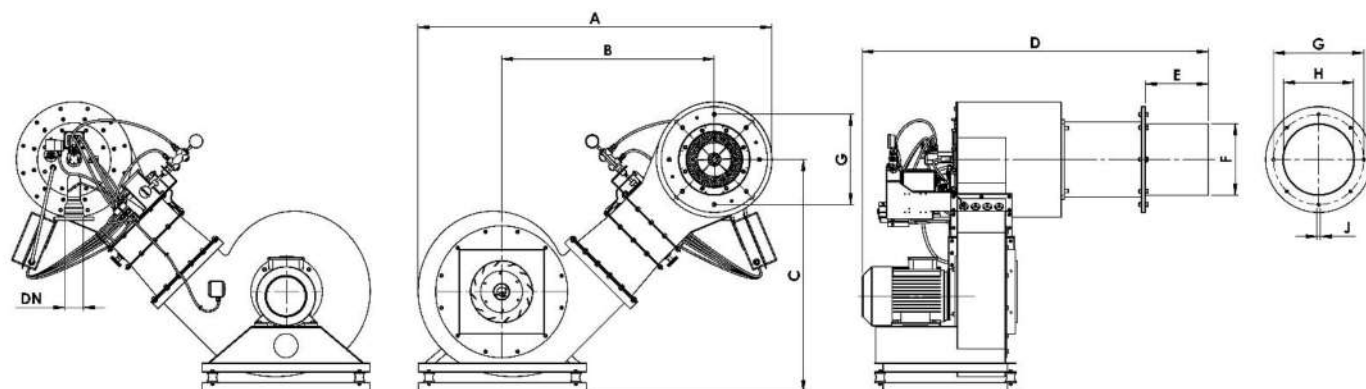
Burner Performance Chart



Function		Fuel	Gas Pressure Mbar	Gas Consumption m³n/h	Light oil Consumption kg/h	Heavy oil Consumption kg/h	Heating Capacity (Natural Gas) kW	Heating Capacity (Light/Heavy Oil) kW
ID 4400	Modulating	Natural Gas/Light & Heavy Oil	120	81-489	100-400	98-392	767-4651	1163-4651
ID 5800	Modulating	Natural Gas/Light & Heavy Oil	120	102-611	125-500	122-490	971-5814	1453-5814



Burner Dimensions



	A	B	C	D	E	F	G	H	J	DN
ID 4400	1570	900	1000	1700	300	340	430	360	M12	100
ID 5800	1800	1045	1100	1750	300	340	430	360	M12	100

Burner Equipment	ID 4400	ID 5800
Fan Motor	3 ~ 15 kW	3 ~ 22 kW
Oil Pump Motor	3 ~ 1.5 kW	3 ~ 1.5 kW
Servomotor	Honeywell 9484F	Honeywell 9484F
Control Unit	Satronic TMG 740	Satronic TMG 740
Oil Pump	Suntec TA2A	Suntec TA3A
Ignition Transformer (Gas Fuel)	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Ignition Transformer (Oil Fuel)	Brahma T8/G Induction / 2×6.5 kV / 35 mA	Brahma T8/G Induction / 2×6.5 kV / 35 mA
Gas Solenoid Valve (Fast Opening)	Dungs 2 ½"	Dungs 3"
Gas Solenoid Valve (Slow Opening)	Dungs 2 ½"	Dungs 3"
Gas Solenoid Valve (Pilot Valve)	Brahma ½" (S10) Brahma ½" (E6G*SR10)	Brahma ½" (S10) Brahma ½" (E6G*SR10)
Oil Solenoid Valve	Rapa ¼" SV04R3 Rapa ¼" SV05R3	Rapa ¼" SV04R3 Rapa ¼" SV05R3
Gas Pressure Control	Gas pressure switch Dungs or Krom schroder	Gas pressure switch Dungs or Krom Schroder
Air Pressure Control	Air pressure switch Dungs or Krom schroder	Air pressure switch Dungs or Krom schroder
Flame Detector	Satronic UVZ 780	Satronic UVZ 780
Burner Control Panel	✓ (separated)	✓ (separated)

Gas Trains





Model	Fitting	Recommended for	
		Gas Burners	Dual Fuel Burners
GT 800	Thread	PGN 1 A PGN 1 B PGN 1 C PGN 1	DP 1 SP
GT 1800	Thread	PGN 1 SP PGN 2 A PGN 2 IG 1700	DP 1 B SP DP 1 C SP DP 2 A DP 2 ID 1700
GT 2800	Thread	PGN 2 SP IG 2100 IG 2800	DP 2 SP ID 2100 ID 2800
GT 4400	Flange	IG 4400 IG 5800	ID 4400 ID 5800

Max. input gas pressure to the gas train = 2 lb/in2



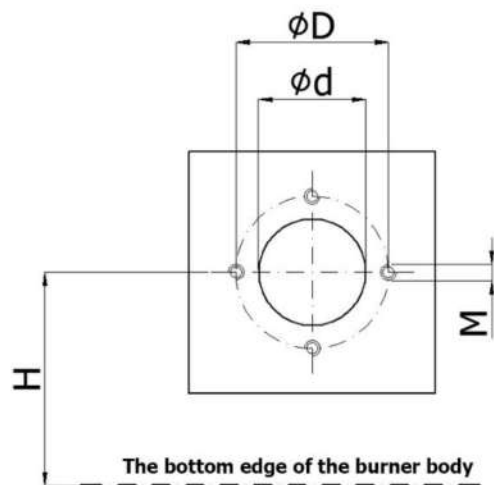
- 1 Filter
- 2 Push Button Cock
- 3 Pressure Gauge (0-250 mbar)
- 4 Pressure Regulator (Except GT 4400)
- 5 Pressure Gauge (0-100 mbar)
- 6 Gas Solenoid Valve (Fast Opening) / (Included in relative burner package, except PGN 1 A, PGN 1 B & DP 1 SP)
- 7 Gas Solenoid Valve (Slow Opening) / (Included in relative burner package)
- 8 Tightness Control (Just for models GT 2800 and GT 4400)

Model	Filter	Push Button Cock	Pressure Gauge	Pressure Regulator	Tightness Control
GT 800	Dungs GF 515/1 RP 1 1/2"	Dungs DKH RP 1/2" (x2)	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar	Dungs FRS 515 RP 1 1/2"	—
GT 1800	Dungs GF 520/1 RP 2"	Dungs DKH RP 1/2" (x2)	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar	Dungs FRS 520 RP 2"	—
GT 2800	Dungs GF 520/1 RP 2"	Dungs DKH RP 1/2" (x2)	Dungs KP 80 0-100 mbar Dungs KP 80 0-250 mbar	Dungs FRS 520 RP 2"	Dungs VDK 200 A S02
GT 4400	Dungs GF 40080/3 DN 80	Dungs DKH RP 1/2" (x2)	Dungs KP 80 0-250 mbar (x2)	Dungs FRS 505 RP 1/2" for pilot valve	Dungs VDK 200 A S02

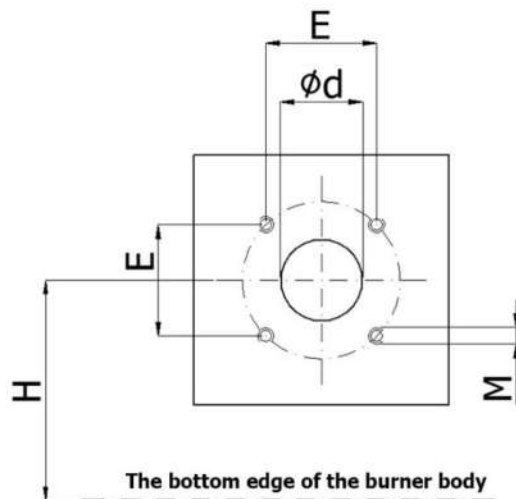
Burner – Boiler Mounting Flange



Burner with standard flame tube

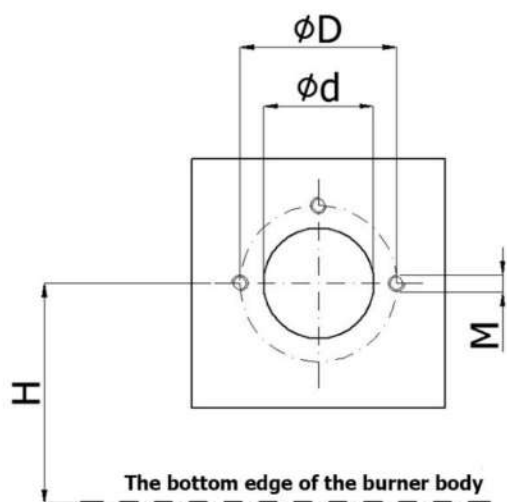


Burner with long flame tube

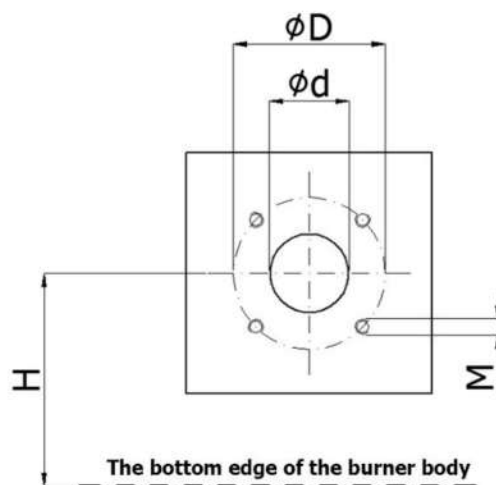


H	M	Ød	ØD		H	M	Ød	E
205	M8	85	122-146	F 55	-	-	-	-
205	M8	95	120-165	F 88	-	-	-	-
75	M8	120	150-170	GMG 85	-	-	-	-
75	M8	120	150-170	GMG 110	-	-	-	-
75	M8	120	150-170	GMG 220	-	-	-	-
145	M8	90	120-165	RAN 25	145	M8	100	117
145	M8	85	120-165	RA 2	145	M8	100	117
145	M8	90	120-165	DR 2	-	-	-	-
200	M8	115	173-195	JGN 80/0	-	-	-	-
200	M8	115	173-195	JGN 80/1	-	-	-	-
200	M8	125	173-195	JGN 80/2	200	M8	125	117
200	M8	115	173-195	JPE 80/1	-	-	-	-
200	M8	120	173-195	JPE 80/2	200	M8	125	117
200	M8	115	173-195	DJ 2	-	-	-	-

Burner with standard flame tube

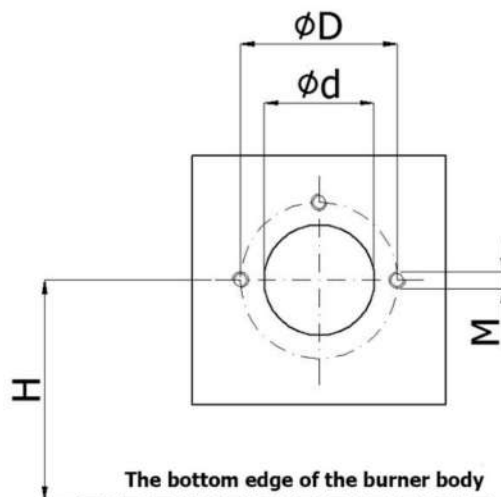


Burner with long flame tube



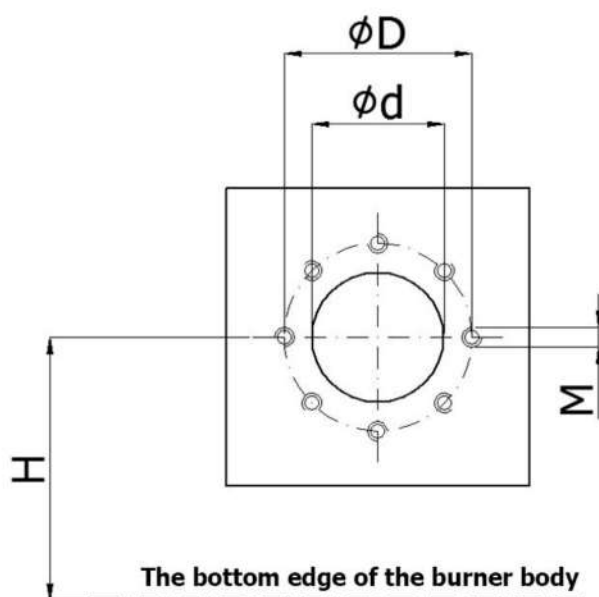
H	M	Ød	ØD		H	M	Ød	ØD
255	M10	156	175	PGN 0	255	M12	170	205-255
255	M10	156	175	PGN 0 A	255	M12	170	205-255
255	M10	156	175	PGN 0 SP	255	M12	170	205-255
255	M10	156	175	PDE 0	255	M12	170	205-255
255	M10	156	175	PDE 0 H	255	M12	170	205-255
255	M10	156	175	PDE 0 SP	255	M12	170	205-255
255	M10	156	175	DP 0	-	-	-	-
255	M10	156	175	DP 0 SP	-	-	-	-
312	M12	170	206	PGN 1 A	312	M12	170	205-255
312	M12	170	206	PGN 1 B	312	M12	170	205-255
312	M12	170	206	PGN 1 C	312	M12	170	205-255
312	M12	170	206	PGN 1	312	M12	170	205-255
312	M12	170	206	PGN 1 SP	312	M12	170	205-255
312	M12	170	206	PDE 1 H	312	M12	170	205-255
312	M12	170	206	PDE 1 SP	312	M12	170	205-255
312	M12	170	206	PDE 1 A SP	312	M12	170	205-255
312	M12	170	206	PDE 1 B SP	312	M12	170	205-255
312	M12	170	206	DP 1 SP	-	-	-	-
312	M12	170	206	DP 1 B SP	-	-	-	-
312	M12	170	206	DP 1 C SP	-	-	-	-

Burner with standard flame tube



	ØD	Ød	M	H
PGN 2 A	305	200	M12	415
PGN 2	305	200	M12	415
PGN 2 SP	305	225	M12	415
PDE 2	305	200	M12	415
PDE 2 SP	305	225	M12	415
DP 2 A	305	200	M12	415
DP 2	305	200	M12	415
DP 2 SP	305	225	M12	415

Burner with standard flame tube



	ϕD	ϕd	M	H
I (-) 1700	305	229	M10	430
I (-) 2100	305	264	M10	430
I (-) 2800	305	264	M10	430
I (-) 3400	430	330	M14	550
I (-) 4400 M	430	360	M14	550
I (-) 4400	430	360	M12	1080
I (-) 5800	430	360	M12	1080



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