



DUAL FUEL BURNER _ GAS/LIGHT OIL SERIE K

Progressive and modulating from 1390 up to 6395 kW

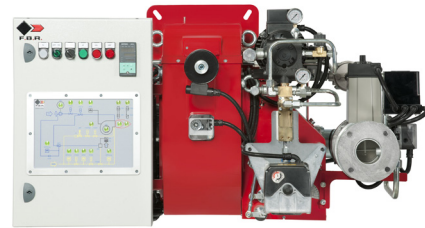
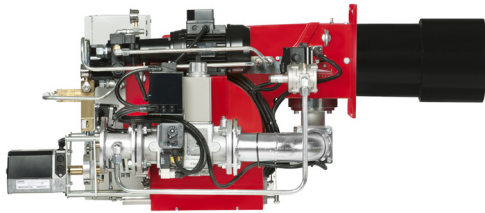
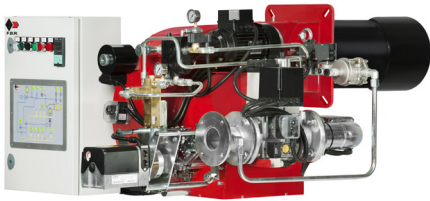
Dual fuel burners for gas and light oil at 2 stages progressive (hi-low flame) or PID fully modulating if optional modulation kit (digital type) and feeder (of temperature or pressure) are added.

Fan at high pressurization, high efficiency combustion head with adjustment and high flame stability. Available versions for natural gas or LPG (to be specified at the order).

Gas train includes working valve, safety valve, minimum gas pressure switch, gas pressure filter-stabilizer and is supplied already assembled, connected and tested.

The adoption of strong metal components makes the burner durable also in heavy duty conditions.

Burners are supplied with nozzle, fuel switch, gasket for installation on boiler, flexible hoses, line filter.



TECHNICAL DATA

MODEL		K 350/M	K 450/M	K 550/M
Thermal power min-max*	Mcal/h	400/1200-3500	500/1600-4500	600/200-5500
	kW	464/1390-4060	580/1850-5220	696/2325-6395
Flow-rate G20 (NATURAL GAS) min-max*	Nm ³ /h	47/140-409	58/187-526	70/235-647
Flow-rate G31 (LPG) min-max*	Nm ³ /h	18/54-158	22/72-203	27/91-250
Fuel	NATURAL GAS (second family) - LPG (third family)			
Combustible category	2R 2H 2L 2E+ 2Er 2ELL 2E(R)B 38/P 3+ 3P 38 3R			
Intermittent operation (min. 1 stop every 24 hours) at 2 stages progressive or modulating				
Allowed environment conditions on running/stock	-15..+40°C/-20...+70°C, rel. humidity max 80%			
Max temperature combustion air	°C	60	60	60
Min. pressure gas train D2"-FS50 NATURAL GAS/LPG**	mbar	294/143	490/237	-/354
Min. pressure gas train DN65-FS65 NATURAL GAS/LPG*	mbar	145/90	222/143	313/195
Min. pressure gas train DN80-FS80 NATURAL GAS/LPG**	mbar	90/70	144/109	200/146
Min. pressure gas train DN100-FS100 NATURAL GAS/LPG**	mbar	57/57	87/87	112/112
Max pressure at the entry of the valves (Pe.max)	mbar	500	500	500
LIGHT-OIL flow-rate min-max*	kg/h	40/120-350	50/160-450	60/200-550
Fuel	LIGHT-OIL 1.5° E a 20°C = 6.2 cSt = 35 sec Redwood N°1			
Nominal electric power	kW	12.5	14	21
Motor fan	kW	9.2	11	18.5
Motor pump	kW	2.2	2.2	2.2
Power absorbed	A	21	24	38
Auxiliary power absorbed	A	0.5	0.5	0.5
Power supply	3~400V,1/N~230V-50Hz			
Degree of electric protection		IP44	IP44	IP44
Noisiness***min-max	dB(A)	84-85	85-88	87-91
Weight	kg	274	306	341

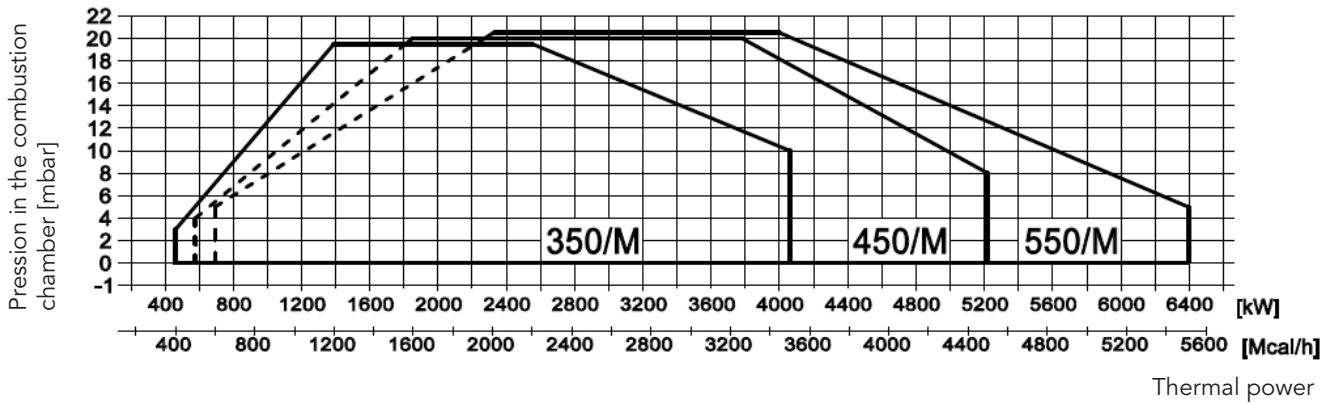
* Reference conditions: Room temperature 20°C - Atmospheric pressure 1013 mbars - Altitude 0m (sea level)

** Least pressure of feeding of the gas to the train to get the maximum power of the burner considering against pressure in chamber of value combustion 0 (zero)

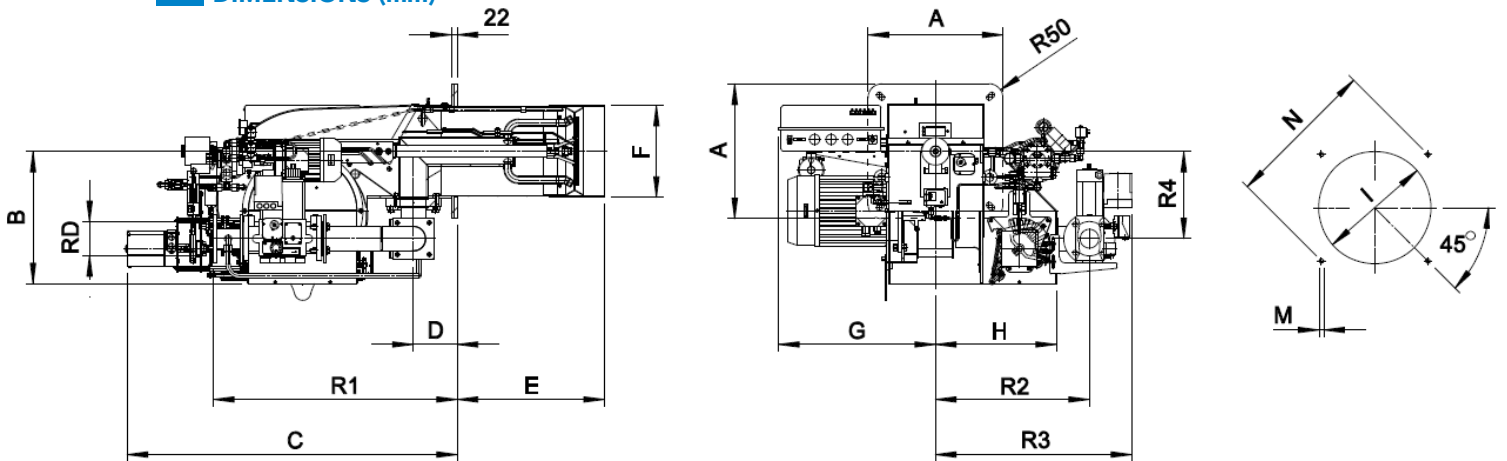
*** Measured sonorous pressure in the laboratory combustion, with functional burner on beta boiler to 1 m of distance (UNI EN ISO 3746 law)

Le illustrazioni e i dati riportati sono indicativi. F.B.R. Bruciatori S.r.l. si riserva il diritto di apportare, senza obbligo di preavviso, tutte le modifiche opportune, per l'evoluzione dei propri prodotti.
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FIRING RATES: Thermal power - Pressure in combustion chamber



DIMENSIONS (mm)



* Suggested dimension of connection between burner and generator

MODEL	A	B	C	D	E	F	G	H	I min	I*	I max	M	min	N*	max	R1	R2	R3	R4	RD	Gas train weight
K 350/M - D2"	490	481	1206	160	535	334	570	440	350	350	450	M14	552	552	580	646	535	664	317	D2"	22 kg
K 350/M - DN65 - FS65	490	481	1206	160	535	334	570	440	350	350	450	M14	552	552	580	780	560	715	317	DN65	37 kg
K 350/M - DN80 - FS80	490	481	1206	160	535	334	570	440	350	350	450	M14	552	552	580	800	560	730	317	DN80	47 kg
K 350/M - DN100 - FS100	490	481	1206	160	535	334	570	440	350	350	450	M14	552	552	580	840	590	765	317	D2"	57 kg
K 450/M - D2"	490	481	1206	160	560	380	570	440	390	390	450	M14	552	552	580	646	535	664	317	DN100	22 kg
K 450/M - DN65 - FS65	490	481	1206	160	560	380	570	440	390	390	450	M14	552	552	580	780	560	715	317	DN65	37 kg
K 450/M - DN80 - FS80	490	481	1206	160	560	380	570	440	390	390	450	M14	552	552	580	800	560	730	317	DN80	47 kg
K 450/M - DN100 - FS100	490	481	1206	160	560	380	570	440	390	390	450	M14	552	552	580	840	590	765	317	DN100	57 kg
K 550/M - D2"	490	481	1206	160	560	380	661	440	390	390	450	M14	552	552	580	646	535	664	317	D2"	22 kg
K 550/M - DN65 - FS65	490	481	1206	160	560	380	661	440	390	390	450	M14	552	552	580	780	560	715	317	DN65	37 kg
K 550/M - DN80 - FS80	490	481	1206	160	560	380	661	440	390	390	450	M14	552	552	580	800	560	730	317	DN80	47 kg
K 550/M - DN100 - FS100	490	481	1206	160	560	380	661	440	390	390	450	M14	552	552	580	840	590	765	317	DN100	57 kg