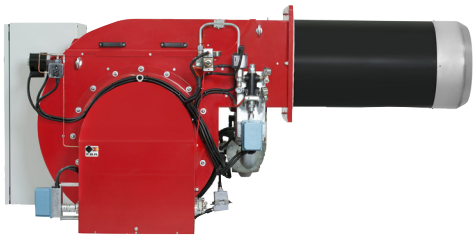
DUAL FUEL BURNER _ GAS/HEAVY OIL
SERIE KN

Progressive and modulating from 3953 up to 11628



ELECTRONIC MODULATION

Dual fuel burners for gas and heavy oil at 2 stages progressive (hi-low flame) or PID fully modulating.
Equipped with Lamtec ETAMATIC OEM electronic camme.
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		KN 750/M EL	KN 1000/M EL
Thermal power min-max*	Mcal/h	1200/3500-7500	1200/3400-10000
	kW	1395/3953-8721	1395/3953-11628
Flow-rate G20 (NATURAL GAS) min-max*	Nm ³/h	140/398-877	140/398-1170
Flow-rate G31 (LPG) min-max*	Nm ³/h	54/153-338	54/153-450
Fuel	NATURAL GAS (second family) - LPG (third family)		
Combustible category	|2R'|2H'|2L'|2E'|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
Min. pressure gas train DN80-FS80 NATURAL GAS/LPG**	mbar	280/107	292/112
Min. pressure gas train DN100-FS100 NATURAL GAS/LPG**	mbar	164/63	184/71
Min. pressure gas train DN125-FS125 NATURAL GAS/LPG**	mbar	110/40	145/56
Max pressure at the entry of the valves (Pe.max)	mbar	500	500
HEAVY-OIL flow-rate min-max*	kg/h	120/340-750	120/340-1000
Fuel	HEAVY OIL 5°-20° E to 50° C		
Burner mominal electric power	kW	22	30
Pump skid mominal electric power		51	68.5
Motor fan	kW	22	30
Motor pump	kW	3	5.5
Resistences	kW	48	63
Power supply	3~400V,1/N~230V-50Hz		
Degree of electric protection		IP44	IP44
Noiseness*** min-max	dB(A)	88	89
Burner weight	kg	688	718
Pump skid weight	kg	320	330

* Reference conditions: Room temperature 20°C - Athmospheric pressure 1013 mbars - Altitude 0n (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)

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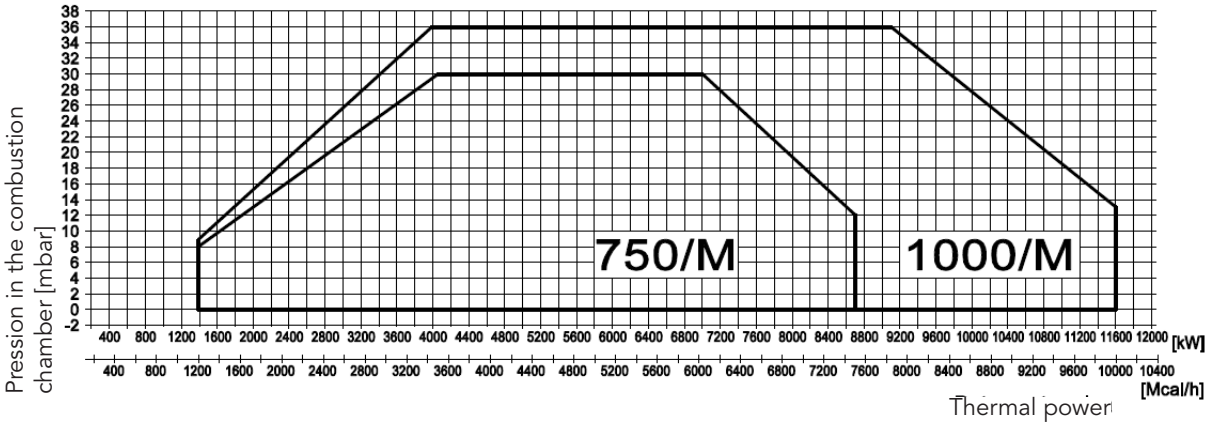
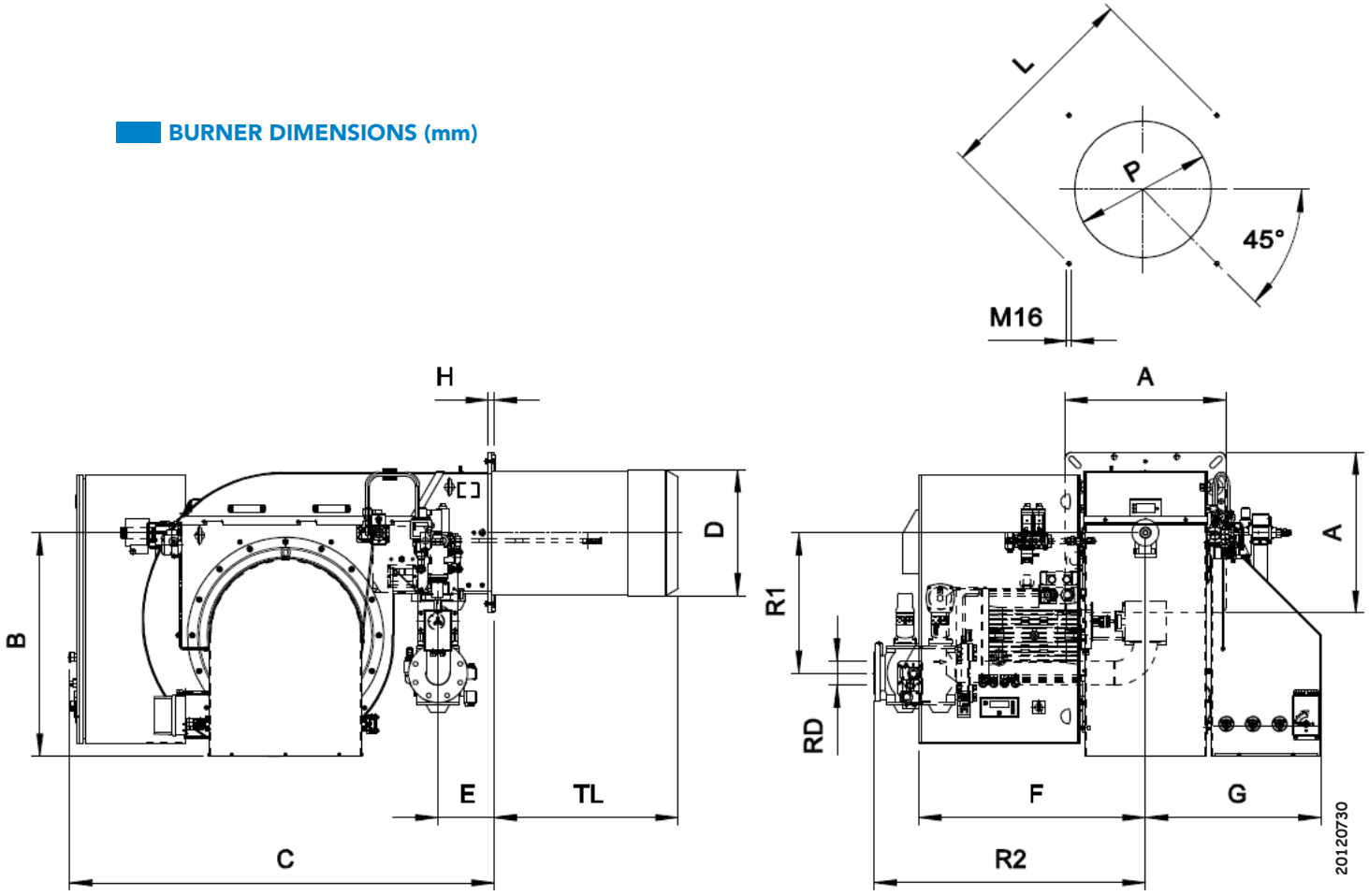
FIRING RATES: Thermal power - Pressure in combustion chamber



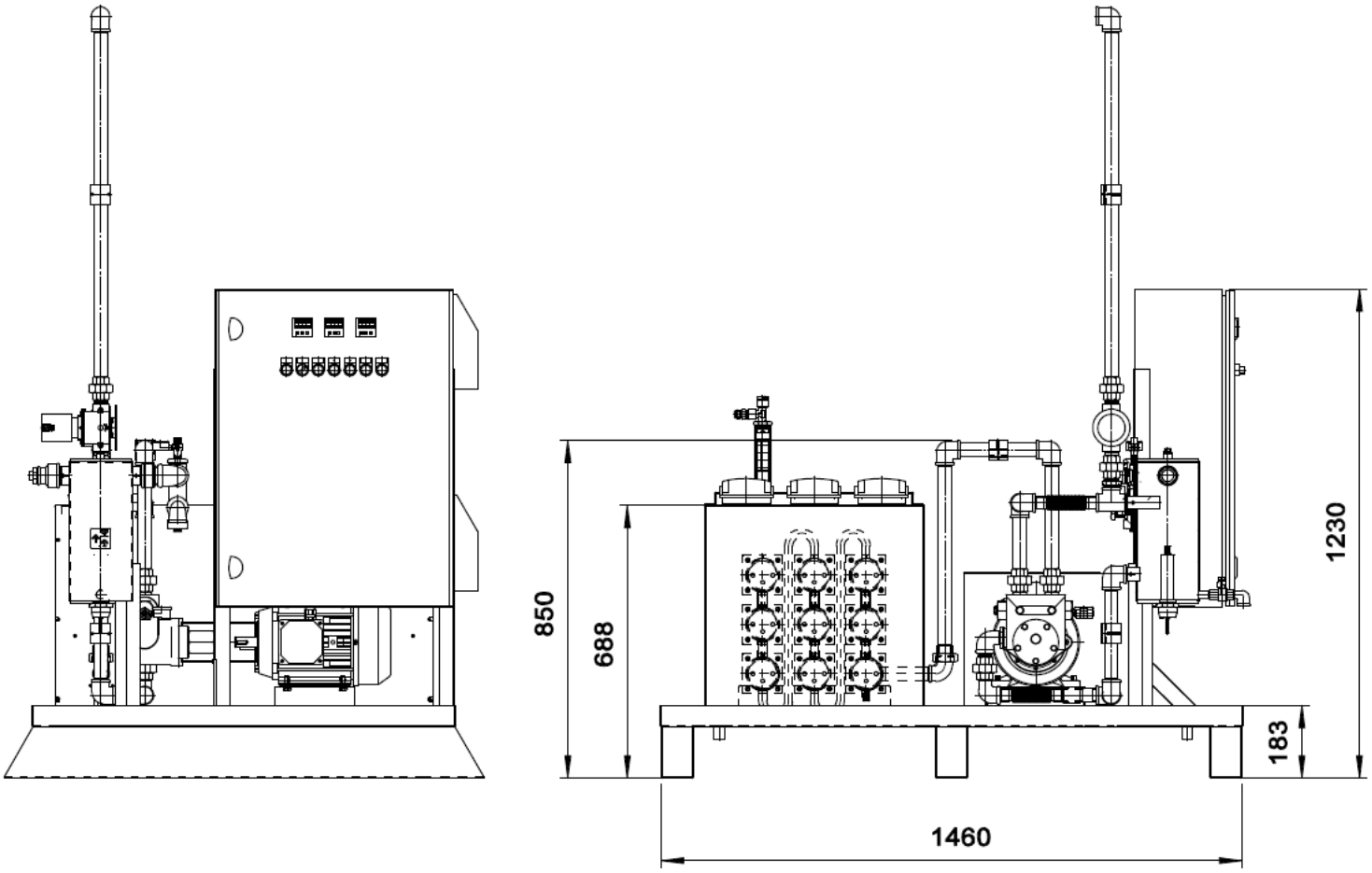
BURNER DIMENSIONS (mm)

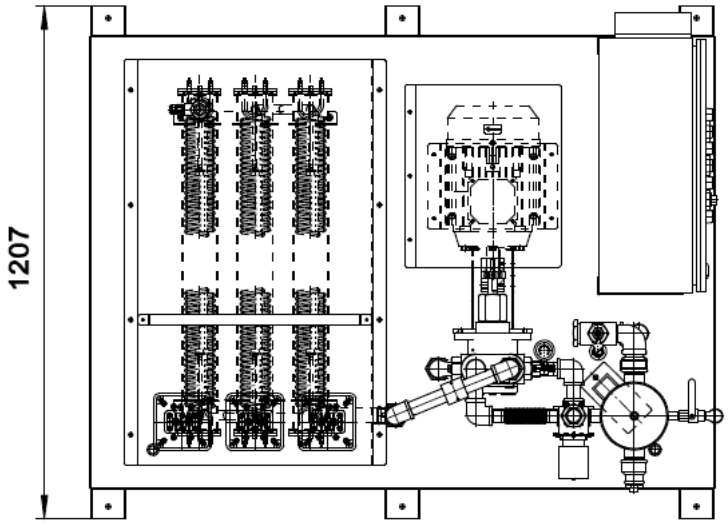


* Suggested dimension of connection between burner and generator

MODEL	A	B	C	D	E	F	G	H	TL	Lmin*	Lmax	Pmin	Pmax	R1	R2	RD	Gas train weight
KN 750/M EL - DN80	600	832	1585	448	210	845	654	22	685	707	778	470	540	523	970	DN80	22 kg
KN 750/M EL - DN100	600	832	1585	448	210	845	654	22	685	707	778	470	540	523	1010	DN100	25 kg
KN 750/M EL - DN125	600	832	1585	448	210	845	654	22	685	707	778	470	540	523	1060	DN125	30 kg
KN 1000/M EL - DN80	600	832	1585	448	210	845	654	22	685	707	778	490	540	523	970	DN80	22 kg
KN 1000/M EL - DN100	600	832	1585	448	210	845	654	22	685	707	778	490	540	523	1010	DN100	25 kg
KN 1000/M EL - DN125	600	832	1585	448	210	845	654	22	685	707	778	490	540	523	1060	DN125	30 kg

PUMP SKID DIMENSIONS (mm)





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