



# Burners Bruciatori

Catalogue 2024  
Catalogo 2024

**F B R**

BURNERS MADE IN ITALY

**FBR Quality System Certified UNI EN ISO 9001**

Azienda Certificata con Sistema Qualità Aziendale UNI EN ISO 9001

INTRODUCTION  
INTRODUZIONE

\_ 4

**FBR – TECHNOLOGICAL RIGOR  
AND ECOLOGICAL RESPECT**

F.B.R.'s first aim has always been research of the best in technology. Our products are only marketed after stringent trials using the latest in industry led testing procedures with respect and consideration given to any issue relating to the ecological and environmental impact. F.B.R. is qualified by the Quality Management System ISO 9001 and all our products are certified and conform to the current CE norms.

**FBR – RIGORE TECNOLOGICO  
E RISPETTO ECOLOGICO**

Ricerca il meglio tecnologico è il nostro impegno da sempre. I prodotti F.B.R. nascono da costanti verifiche, rigorose e d'avanguardia, ponendo particolare attenzione alle tematiche del rispetto ecologico e dell'impatto ambientale. I nostri prodotti sono conformi e certificati secondo le vigenti norme CE e la nostra azienda è certificata con il Sistema Qualità ISO 9001.

**INDEX  
INDICE**

**1.LIGHT OIL BURNERS**  
BRUCIATORI DI GASOLIO

\_ 8

**2.HEAVY OIL BURNERS**  
BRUCIATORI DI OLIO COMBUSTIBILE

\_ 18

**3.GAS BURNERS**  
BRUCIATORI DI GAS

\_ 26

**4.DUAL FUEL BURNERS**  
GAS/LIGHT OIL  
GAS/HEAVY OIL KN  
BRUCIATORI MISTI  
GAS/GASOLIO  
GAS/OLIO COMBUSTIBILE KN

\_ 37

\_ 43

**5.INDUSTRIAL BURNERS**  
BRUCIATORI INDUSTRIALI

\_ 45

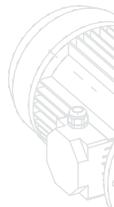


# Capturing the fire to free heat

Catturiamo il fuoco  
per liberare calore



Knowledge and updating  
at FBR Training Centre



100% MADE in ITALY

## Since 1969 HIGH-TECH burners

We are the right partner for the distributor with Quality as absolute value.

Since 1969 we have designed and manufactured high-tech burners for industrial and civil applications. In addition to the standard product range, F.B.R. also supplies high power burners and burners for alternative fuels such as biodiesel, "BTZ" (low sulfur oil) and vegetable oils (i.e. colza oil, sunflower oil).

FBR's sound experience together with an open and innovative spirit results in our products being appreciated on the principal international markets: currently our burners are distributed to 80 nations throughout the world.

The diffusion of knowledge with its continuous updating is guaranteed through specific training courses held by our qualified technicians within our own F.B.R. Training Centre.

Siamo il partner ideale degli Installatori che puntano alla Qualità come valore assoluto.

Dal 1969 progettiamo e costruiamo bruciatori ad alto contenuto tecnologico per applicazioni industriali e civili. Oltre alle realizzazioni standard qui presentate, FBR può fornire versioni speciali quali bruciatori di grandi potenzialità e bruciatori per combustibili alternativi di Biodiesel, BTZ (basso tenore di zolfo) e oli di origine vegetale (come olio di colza, olio di semi di girasole).

La consolidata esperienza F.B.R. unita ad uno spirito aperto e innovativo ci hanno permesso di fare apprezzare i nostri prodotti sui principali mercati internazionali: la distribuzione dei nostri bruciatori interessa ad oggi 80 nazioni nel mondo.

La diffusione delle competenze e il continuo aggiornamento sono garantiti attraverso corsi di formazione specialistici, tenuti dai nostri tecnici qualificati presso il Centro di Formazione interno F.B.R, rivolti agli Operatori del settore.

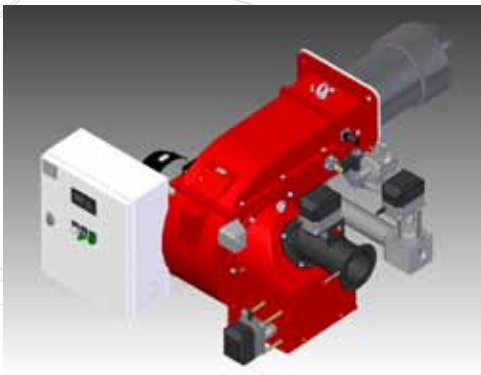
80 nations  
all over the world



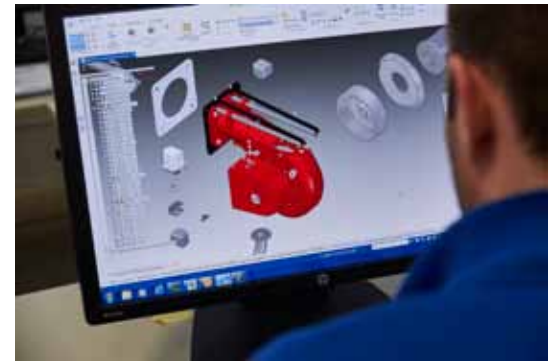
# Our job is to focus on your requirements

Mettere a fuoco le vostre esigenze è il nostro lavoro





Ultra Low NOx FGR



## FBR R&D Lab always looking for better performance

FBR combustion and electronics experts are fully dedicated to the analysis and implementation of new technological solutions that guarantee excellence in performances and reliability.

Our Research & Development team is constantly looking to better performance using the very latest in three dimensional CAD systems and a fully equipped laboratory together with a hi-tech simulated working environment. Particularly the laboratory of research & development is equipped with precise electronic paramagnetic infrared and ultraviolet devices of combustion analysis, digital multiscale phonometries, an evolved oscilloscope interfaced to a computerized data collecting system and integrated and multifunctional tools for performance analysis and long duration testing.

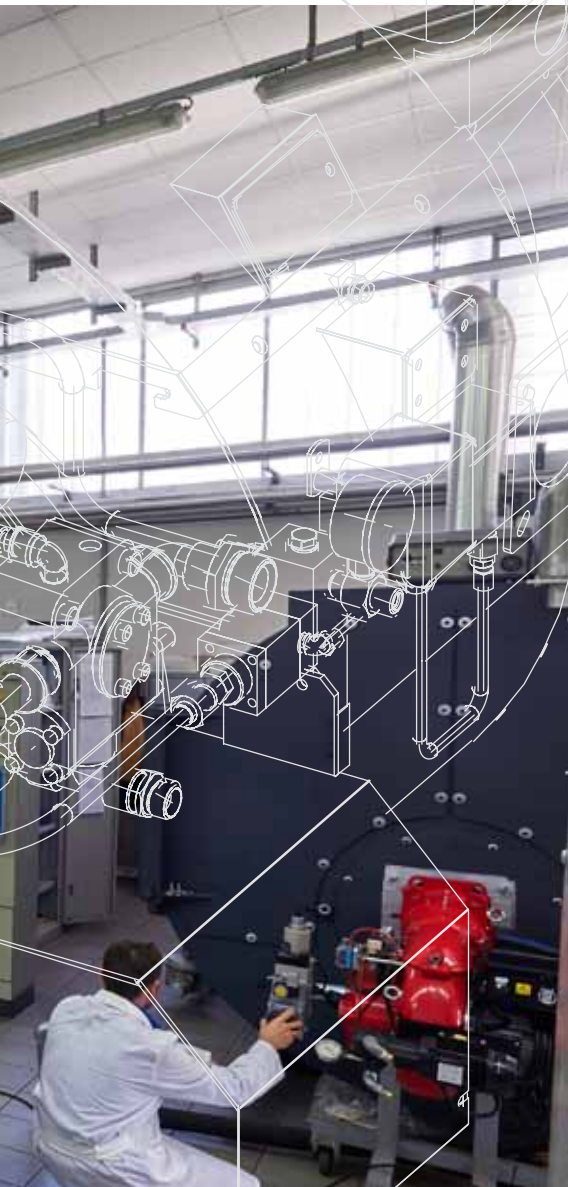
Il team di esperti FBR nella combustione e nell'elettronica è dedicato a tempo pieno all'analisi ed all'implementazione di nuove soluzioni tecnologiche che garantiscano l'eccellenza in termini di prestazioni e di affidabilità.

Nella ricerca delle migliori prestazioni il nostro team si avvale di strumentazioni costantemente aggiornate quali il sistema CAD tridimensionale, l'ampio e attrezzato laboratorio di ricerca e le sale di prova attrezzate per simulare le più difficili condizioni di funzionamento. In particolare, il laboratorio di ricerca e sviluppo è dotato di precisi dispositivi elettronici di analisi di combustione paramagnetici ad infrarossi e ultravioletti, di fonometri digitali multiscala, di un evoluto oscilloscopio interfacciato ad un sistema computerizzato di rilevazione dati e di strumenti integrati e multifunzionali per verifiche ed analisi di performance e test di lunga durata.

## Customized design

At FBR a consolidated team of technicians and designers is committed day after day to turn the most demanding requirements and unexpressed needs into concrete and innovative projects. Listening to the Client and proposing new solutions: on this premise we develop the accurate designing of products to be even more reliable and up-to-date.

In FBR un consolidato team di tecnici-progettisti è impegnato giorno dopo giorno a trasformare le richieste più esigenti e le necessità inesprese in progetti concreti e innovativi. Ascoltare il Cliente e proporre nuove soluzioni: su queste premesse si sviluppa l'accurata progettazione di prodotti sempre più affidabili e d'avanguardia.



# LIGHT OIL BURNERS

## BRUCIATORI DI GASOLIO





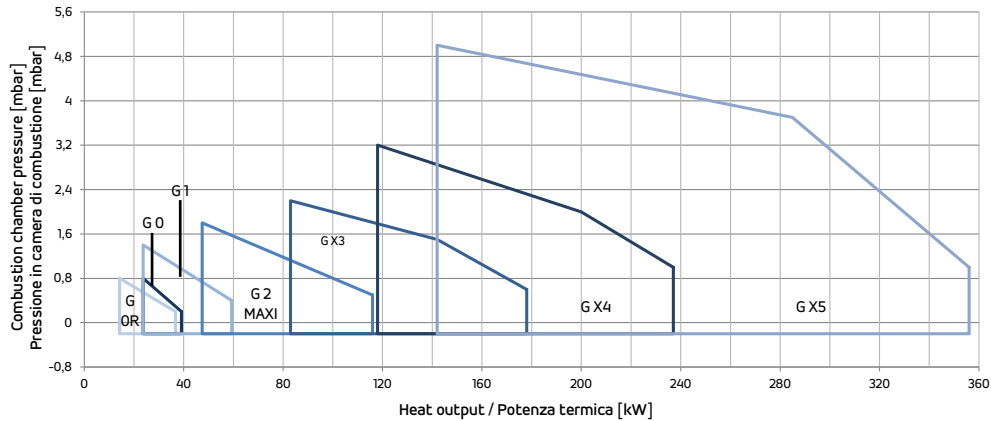
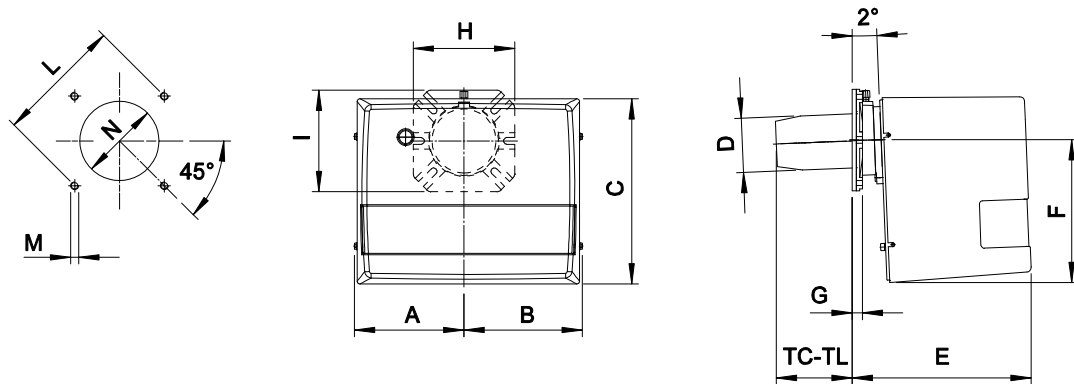


1 STAGE MONOSTADIO	kg/h		kW		⚡
	min	max	min	max	
G 0S 2001/2003* - G 0H 2001	2	3,3	23,7	39,1	1F
G 0SR 2001/2003* - G 0HR 2001	1,2	3,1	14,2	36,7	
G 1S 2001/2003* ° - G 1H 2001 - G 1R 2001/2003*	2	5	23,7	59,3	
G 2S MAXI* ° - G 2H MAXI	4	9,8	47,4	116	
G X3S ° - G X3H	7	15	83	178	
G X4S ° - G X4H	10	20	118	237	
G X5S ° - G X5H	12	30	142	356	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

° Available also in special version 24 Volts  
° Disponibili anche in versione speciale 24 Volts

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	A	B	C	D	E	F	G	H	I	L min	L *	L max	M	N min	N *	N max	TC	TL
G 0... 2001	137	137	240	80	223	169	15	150	150	130	150	170	M8	90	110	130	112	152
G 0...2003 **	137	137	240	83	223	169	15	150	150	130	150	170	M8	90	110	130	112	152
G 1... 2001	157	170	275	80	265	210	15	150	150	130	150	170	M8	90	110	130	112	152
G 1...2003	157	170	275	83	265	210	15	150	150	130	150	170	M8	90	110	130	112	152
G 2...MAXI	157	170	275	90	265	210	15	150	150	130	150	170	M8	100	110	130	107	147
G X3...	182	192	318	110	306	248	17	200	200	160	170	226	M10	120	130	140	130	250
G X4...	182	192	318	124	306	248	17	200	200	170	205	226	M10	130	140	160	130	250
G X5...	210	218	400	130	461	310	18	200	200	205	220	226	M10	140	150	180	215	335

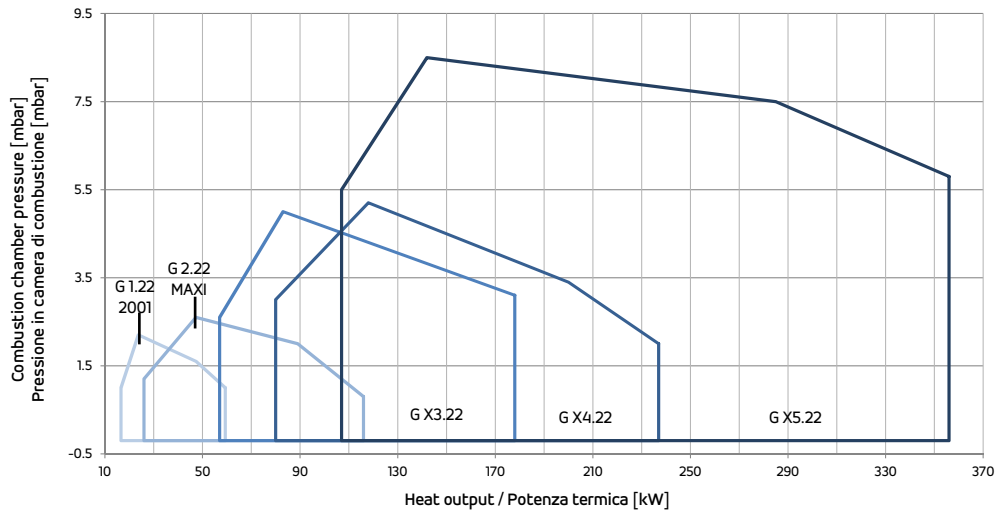
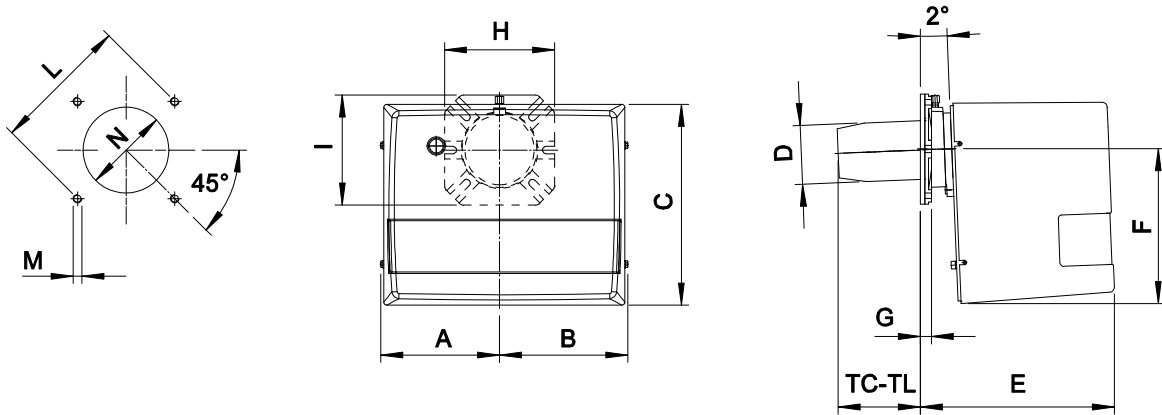
\* Suggested/Consigliato  
\*\* TxC = 77



2 STAGES WITH JUMP OF PRESSURE BISTADIO A SALTO DI PRESSIONE	kg/h		kW		1F
	min	max	min	max	
G 1.22 2001	2	5	23,7	59,3	
G 2.22 MAXI*	4	9,8	47,4	116	
G X 3.22*	7	15	83	178	
G X 4.22*	10	20	118	237	
G X 5.22*	12	30	142	356	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

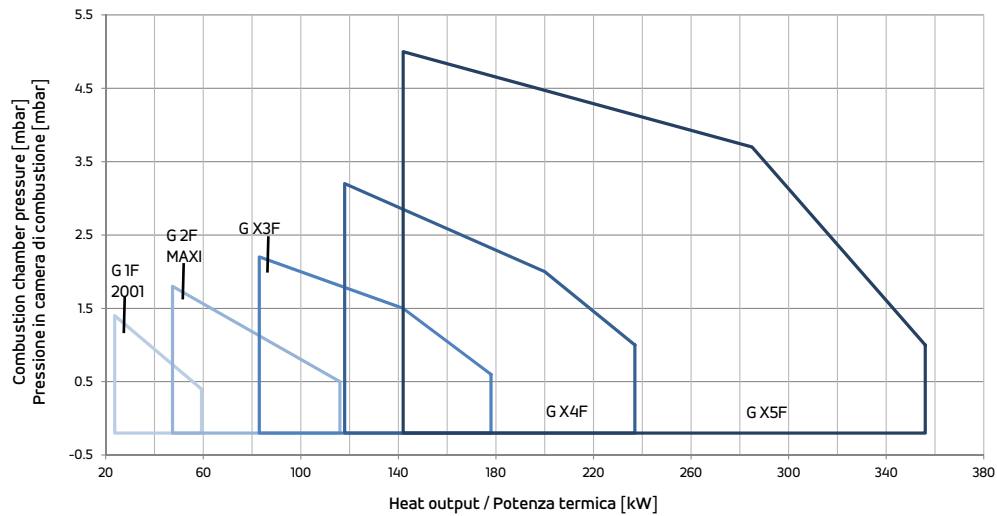
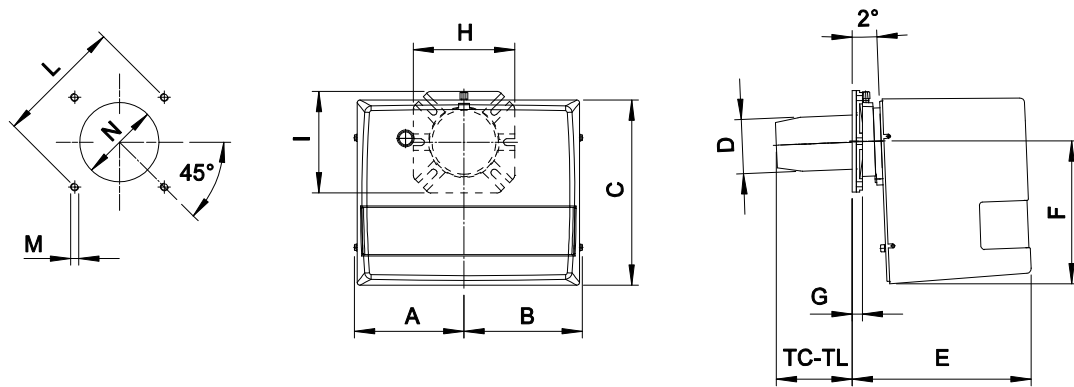


MODEL MODELLO	* Suggested/Consigliato																	
	A	B	C	D	E	F	G	H	I	L min	L*	L max	M	N min	N*	N max	TC	TL
G 1.22 2001	157	170	275	80	265	210	15	150	150	130	150	170	M8	90	110	130	112	152
G 2.22 MAXI	157	170	275	90	265	210	15	150	150	130	150	170	M8	100	110	130	107	147
G X 3.22	182	192	318	110	306	248	17	200	200	160	170	226	M10	120	130	140	130	250
G X 4.22	182	192	318	124	306	248	17	200	200	170	205	226	M10	130	140	160	130	250
G X 5.22	210	218	400	130	461	310	18	200	200	205	220	226	M10	140	150	180	215	335



1 STAGE for bakery ovens MONOSTADIO per forni da pane	kg/h		kW		⚡
	min	max	min	max	
G 1 F 2001	2	5	23,7	59,3	1F
G 2 F MAXI	4	9,8	47,4	116	
G X3 F	7	15	83	178	
G X4 F	10	20	118	237	
G X5 F	12	30	142	356	

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



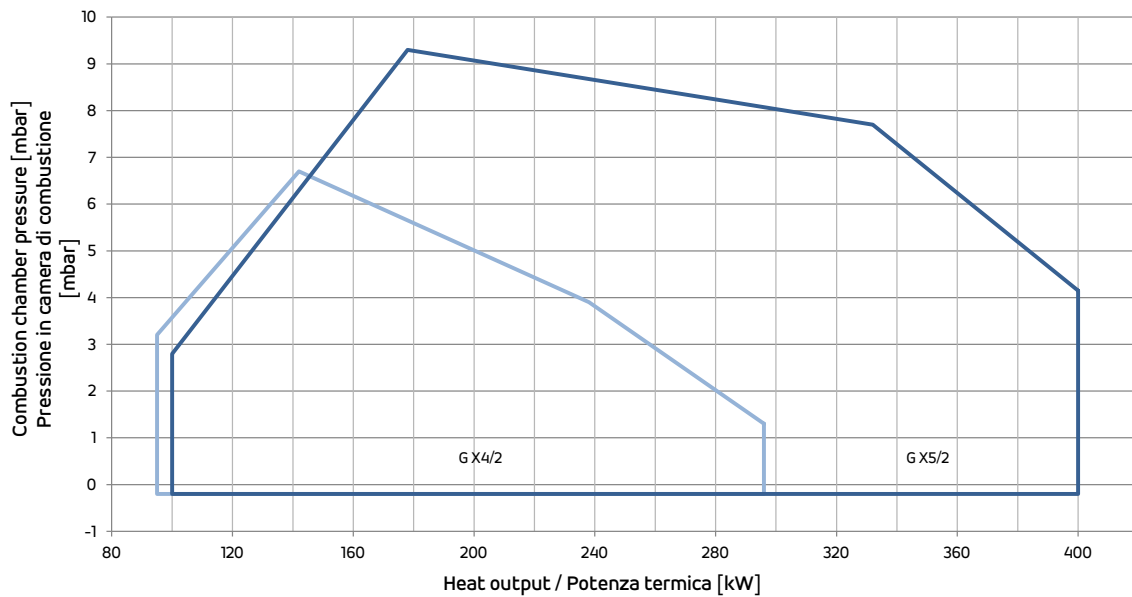
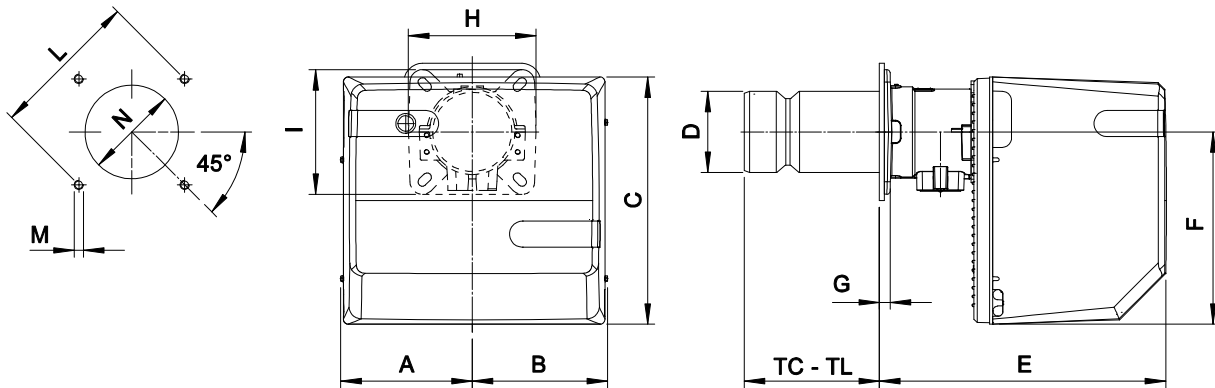
MODEL MODELLO	A	B	C	D	E	F	G	H	I	L min	L *	L max	M	N min	N *	N max	TC	TL
G 1 F	157	170	275	80	265	210	15	150	150	130	150	170	M8	90	110	130	112	152
G 2 F MAXI	157	170	275	90	265	210	15	150	150	130	150	170	M8	100	110	130	107	147
G X3 F	182	192	318	110	306	248	17	200	200	160	170	226	M10	120	130	140	130	250
G X4 F	182	192	318	124	306	248	17	200	200	170	205	226	M10	130	140	160	130	250
G X5 F	210	218	400	130	461	310	18	200	200	205	220	226	M10	140	150	180	215	335

\* Suggested/Consigliato



2 STAGES BISTADIO	kg/h		kW		1F
	min	max	min	max	
GX 4/2	8/12	25	94,9/142	296	
GX 5/2	8,5/15	33,7	101/178	400	

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato																	
	A	B	C	D	E	F	G	H	I	L min	L*	L max	M	N min	N*	N max	TC	TL
GX4/2	182	192	318	124	306	248	17	200	200	170	205	226	M10	130	140	160	130	250
GX5/2	210	218	400	130	461	310	18	200	200	205	220	226	M10	140	150	180	215	335

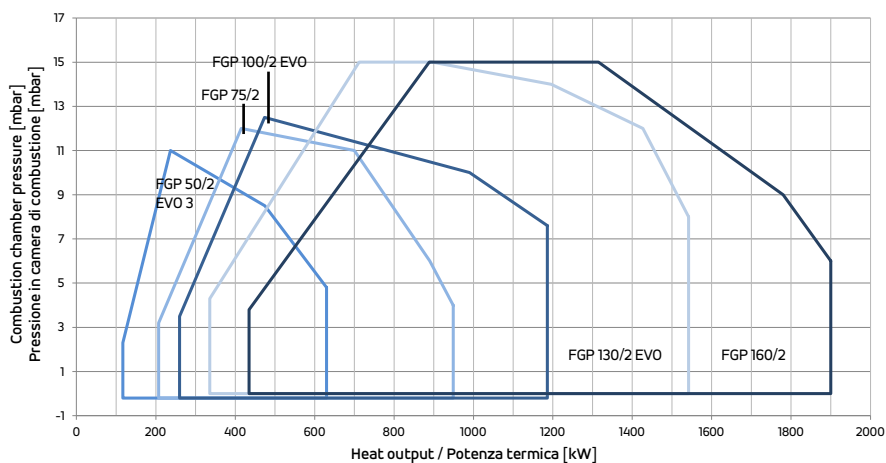
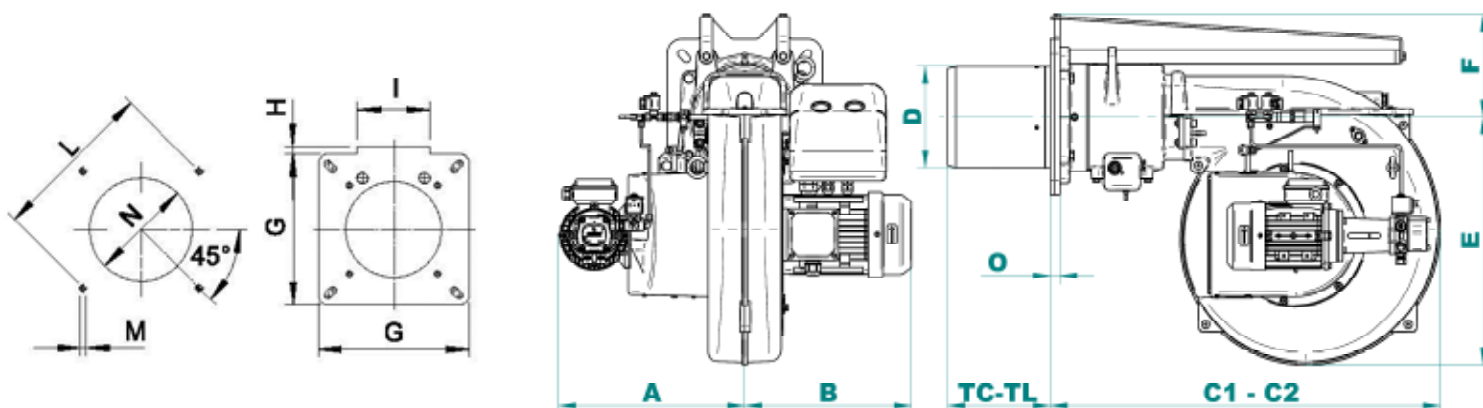


Mod. FGP 160/2

2 STAGES BISTADIO	kg/h		kW		
	min	max	min	max	
FGP 50/2 EVO 3	9,9/20	53	117/237	630	3F
FGP 75/2 *	17,5/35	80	207/415	949	
FGP 100/2 EVO *	21,8/40	100	258,6/474,4	1186	
FGP 130/2 EVO	28,3/60	130	336/712	1542	
FGP 160/2	36,7/75	160	435/889	1900	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



\* Suggested/Consigliato

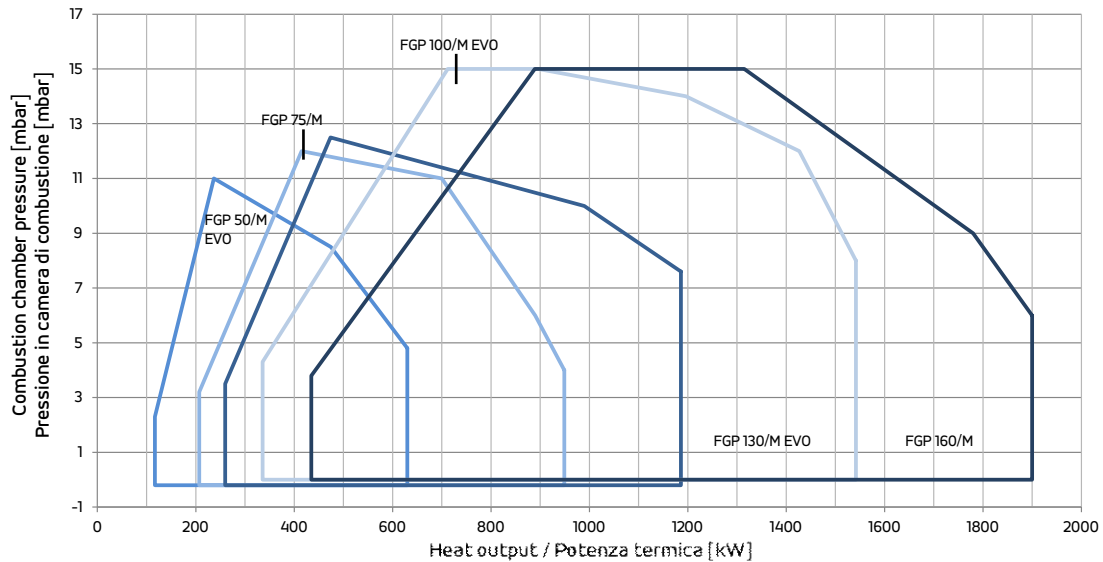
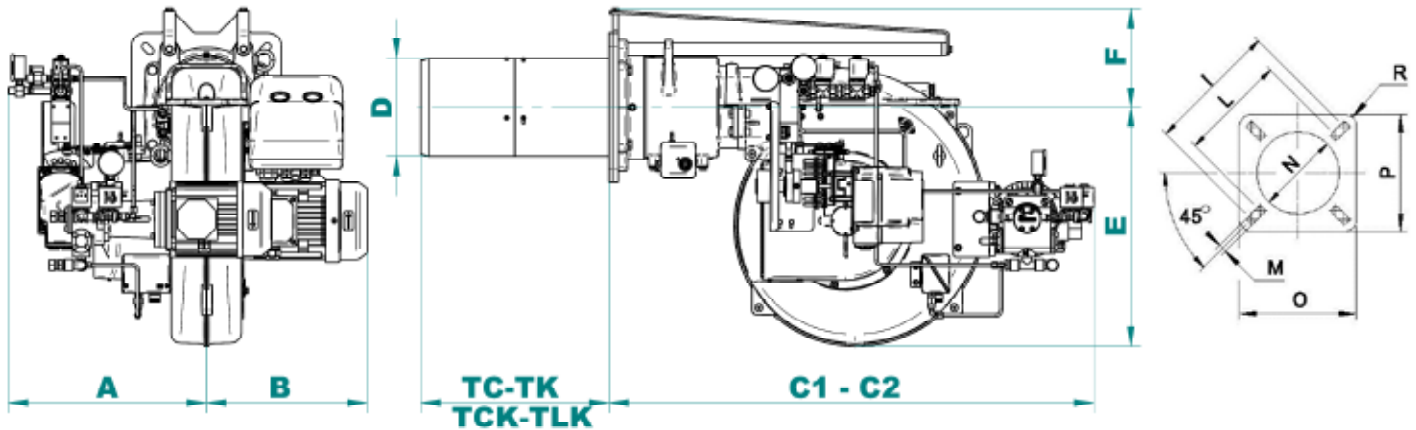
C2= overall dimension with the burner out in position of maintenance  
C2= ingombro a bruciatore arretrato in posizione di manutenzione

MODEL MODELLO	A	B	C1	C2	D	E	F	G	H	I	L min	L max	M	N min*	N max	O	TC	TL
FGP 50/2 EVO 3	187	314	558	-	150	417	100	200	-	-	205	226	M10	160	180	20	250	335
FGP 75/2	187	350	623	1060	165	417	171	300	10	144	310	368	M12	180	250	18	250	335
FGP 100/2 EVO	411	295	767	-	175	510	140	290	-	-	275	325	M10	190	220	-	235	370
FGP 130/2 EVO	383	343	803	1383	212	510	213	320	40	183	340	368	M14	230	250	23	210	400
FGP 160/2	383	405	803	1383	212	510	213	320	40	183	340	368	M14	230	250	23	210	400



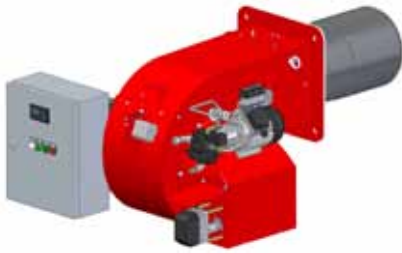
PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		⚡
	min	max	min	max	
FGP 50/M EVO	10,5/20	53	124/237	630	3F
FGP 75/M	17,5/35	80	207/415	949	
FGP 100/M EVO	21,8/40	100	258,6/474	1186	
FGP 130/M EVO	28,3/60	130	336/712	1542	
FGP 160/M	36,7/75	160	435/889	1900	

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



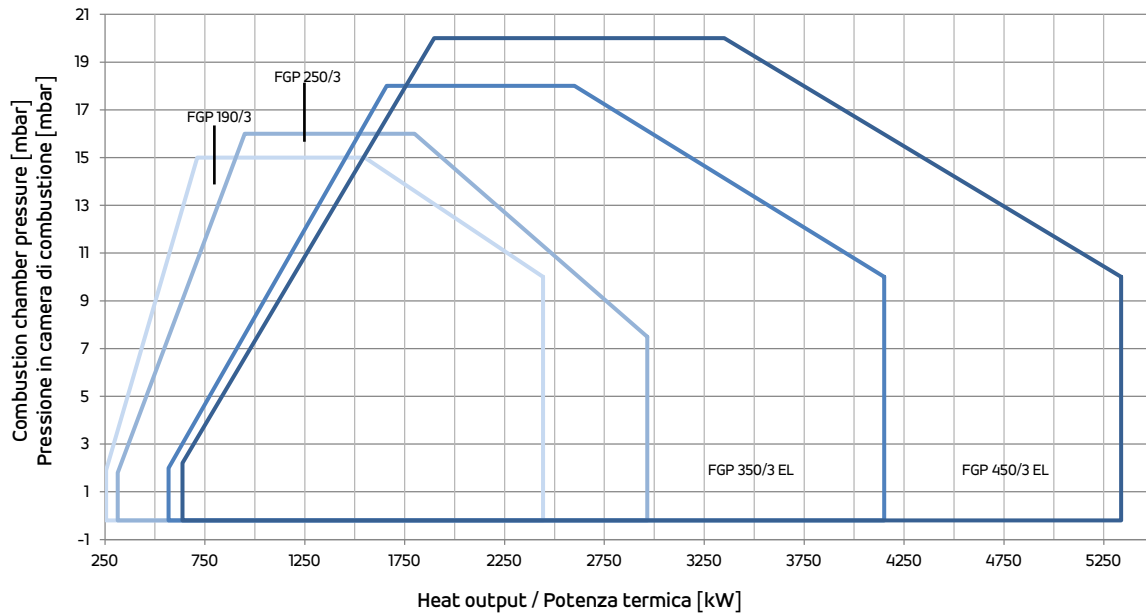
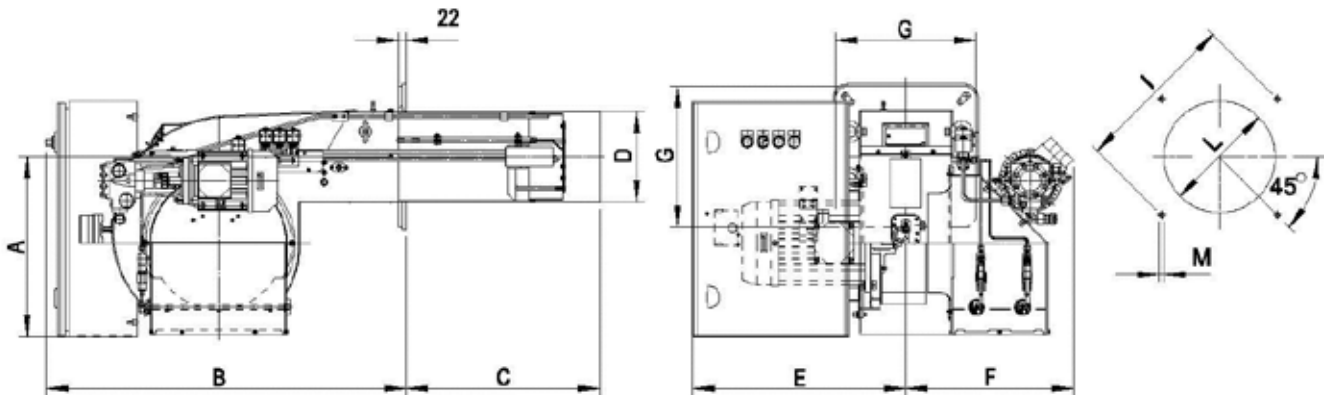
MODEL MODELLO	A	B	C1	C2	D	E	F	I	L	M	N	O	P	R	TC	TL
FGP 50/M EVO	328	275	740	-	150	417	100	226	205	M10	160	207	200	R20	250	335
FGP 75/M	365	277	828	1263	165	423	163	368	310	M12	180	320	300	R20	250	335
FGP 100/M EVO	423	295	1046	-	175	518	132	325	275	M10	190	320	290	R20	235	370
FGP 130/M EVO	423	343	1026	1610	209	510	213	368	340	M14	230	320	320	R20	210	400
FGP 160/M	423	397	1035	1620	209	510	213	368	340	M14	230	320	320	R20	210	400

C2= overall dimension with the burner out in position of maintenance  
 C2= ingombro a bruciatore arretrato in posizione di manutenzione

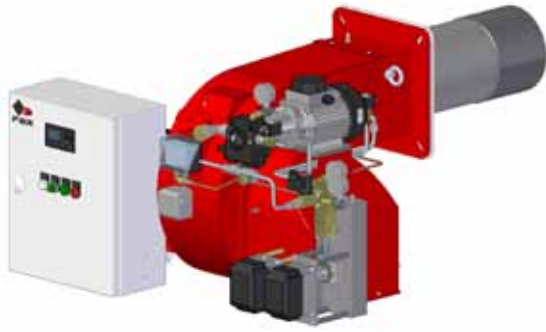


3 STAGES TRISTADIO	kg/h		kW		⚡
	min	max	min	max	
FGP 190/3	22/60	206	255/712	2443	3F
FGP 250/3	27/80	250	313/949	2965	
FGP 350/3 EL	49/140	350	568/1660	4151	
FGP 450/3 EL	55/160	450	638/1898	5337	

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



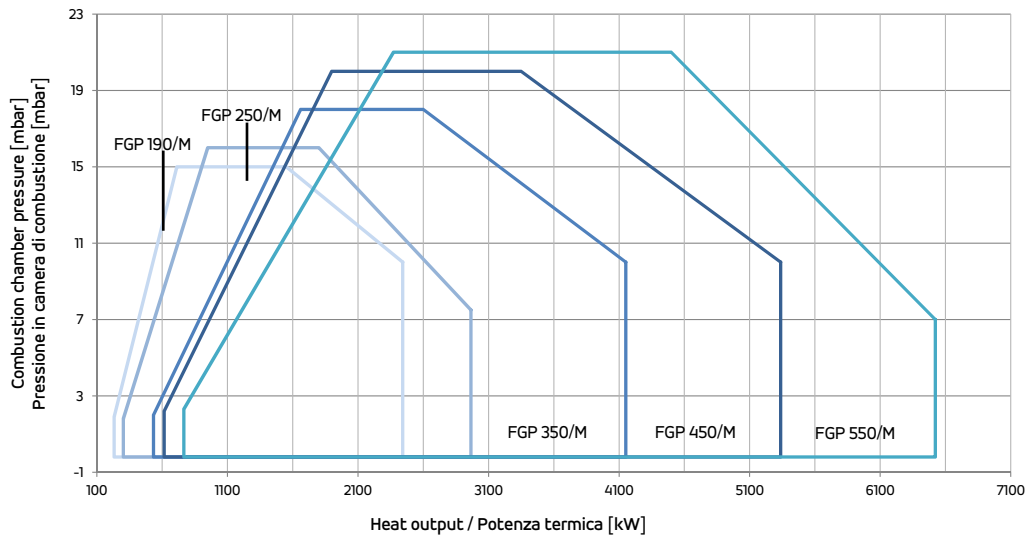
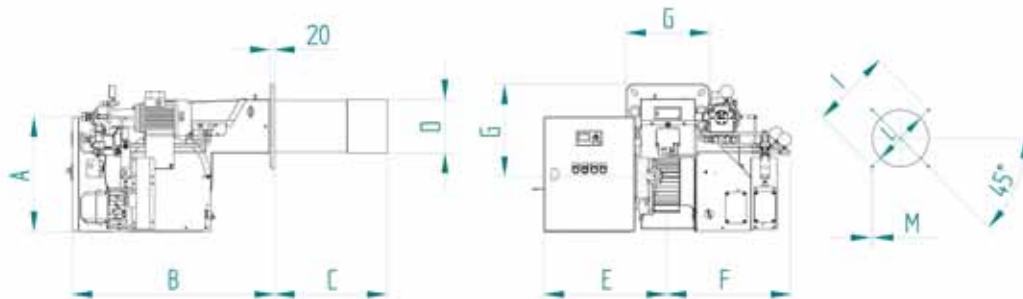
MODEL MODELLO	* Suggested/Consigliato													
	A	B	C	D	E	F	G	I min	I *	I max	L min	L *	L max	M
FGP 190/3	460	920	495	234	545	429	360	396	424	438	245	280	320	M14
FGP 250/3	460	920	500	271	545	460	360	396	424	438	280	280	320	M14
FGP 350/3	481	1090	535	334	700	517	490	552	552	580	350	350	450	M14
FGP 450/3	481	1090	560	380	700	517	490	552	552	580	390	390	450	M14



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		
	min	max	min	max	
FGP 190/M EL *	20/60	206	232/712	2443	3F
FGP 250/M EL *	26/80	250	302/949	2965	
FGP 350/M EL *	46/140	350	534/1660	4151	
FGP 450/M EL *	53/160	450	615/1898	5337	
FGP 550/M EL *	66/200	550	766/2372	6523	

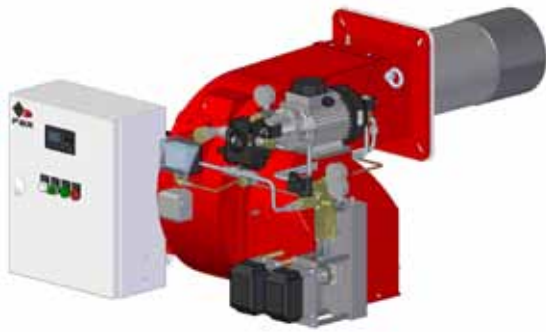
\* Available also versions with INVERTER  
 \* Fornibili anche in versioni speciali con INVERTER

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato													
	A	B	C	D	E	F	G	I min	I *	I max	L min	L *	L max	M
FGP 190/M EL	453	940	495	234	647	480	360	396	424	438	245	280	320	M14
FGP 250/M EL	453	940	500	271	647	480	360	396	424	438	280	280	320	M14
FGP 350/M EL	481	1050	535	334	700	600	490	552	552	580	350	350	450	M14
FGP 450/M EL	481	1050	560	380	700	600	490	552	552	580	390	390	450	M14
FGP 550/M EL	481	1050	560	380	700	600	490	552	552	580	390	410	450	M14

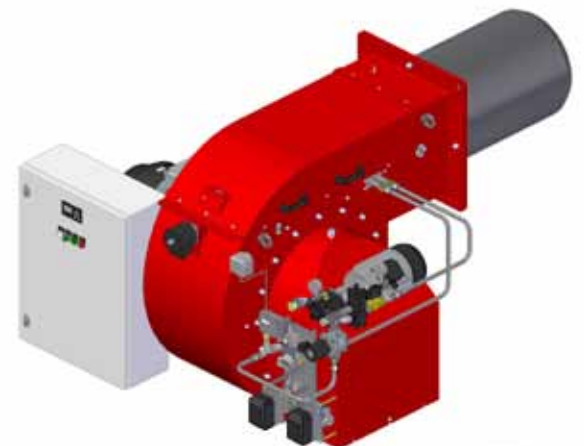
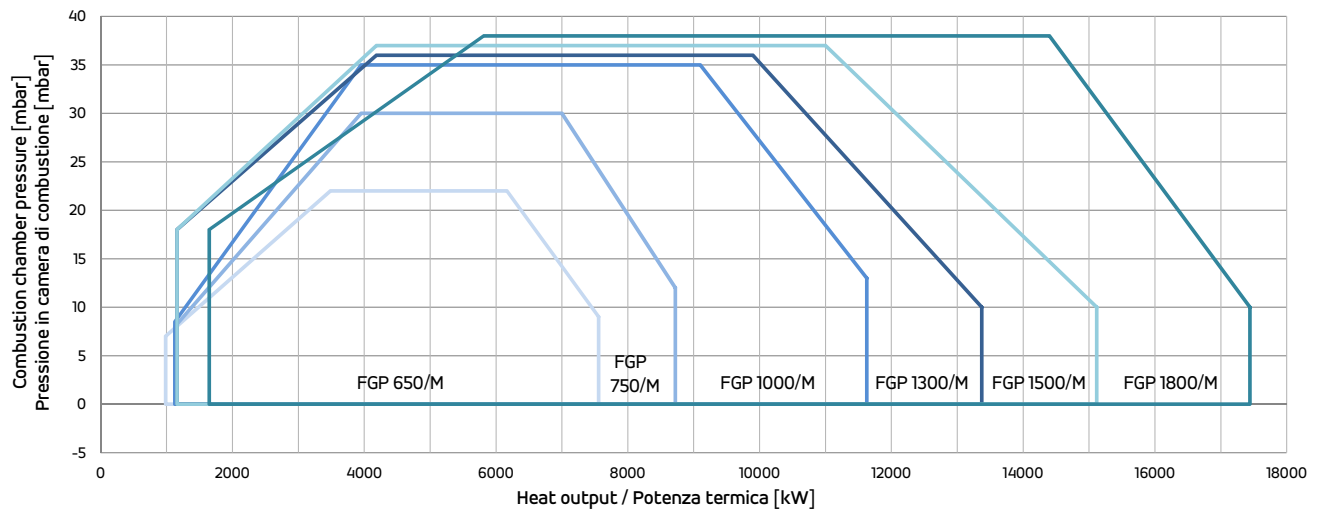
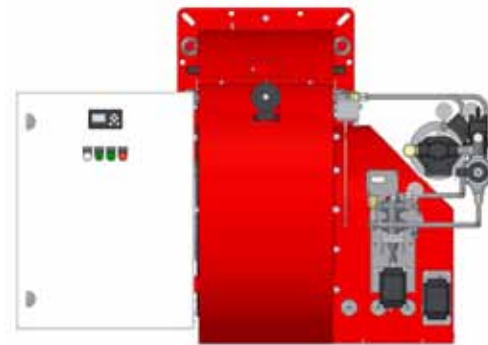
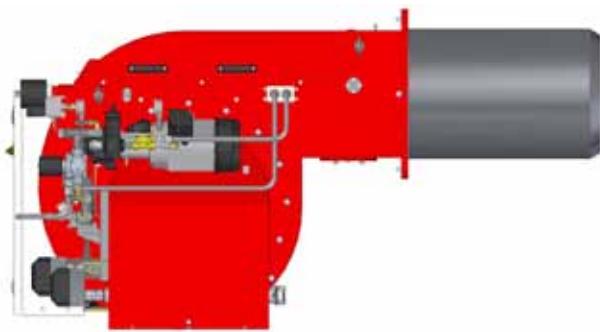




PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		
	min	max	min	max	
FGP 650/M EL *	85/294	637	986/3488	7558	3F
FGP 750/M EL *	97/333	735	1125/3953	8721	
FGP 1000/M EL *	97/333	980	1125/3953	11628	
FGP 1300/M EL *	100/353	1127	1160/4186	13372	
FGP 1500/M EL *	100/353	1274	1160/4186	15116	
FGP 1800/M EL *	142/490	1471	1647/5814	17442	

\* Available also versions with INVERTER  
 \* Fornibili anche in versioni speciali con INVERTER

## FIRING RATES - CAMPO DI LAVORO

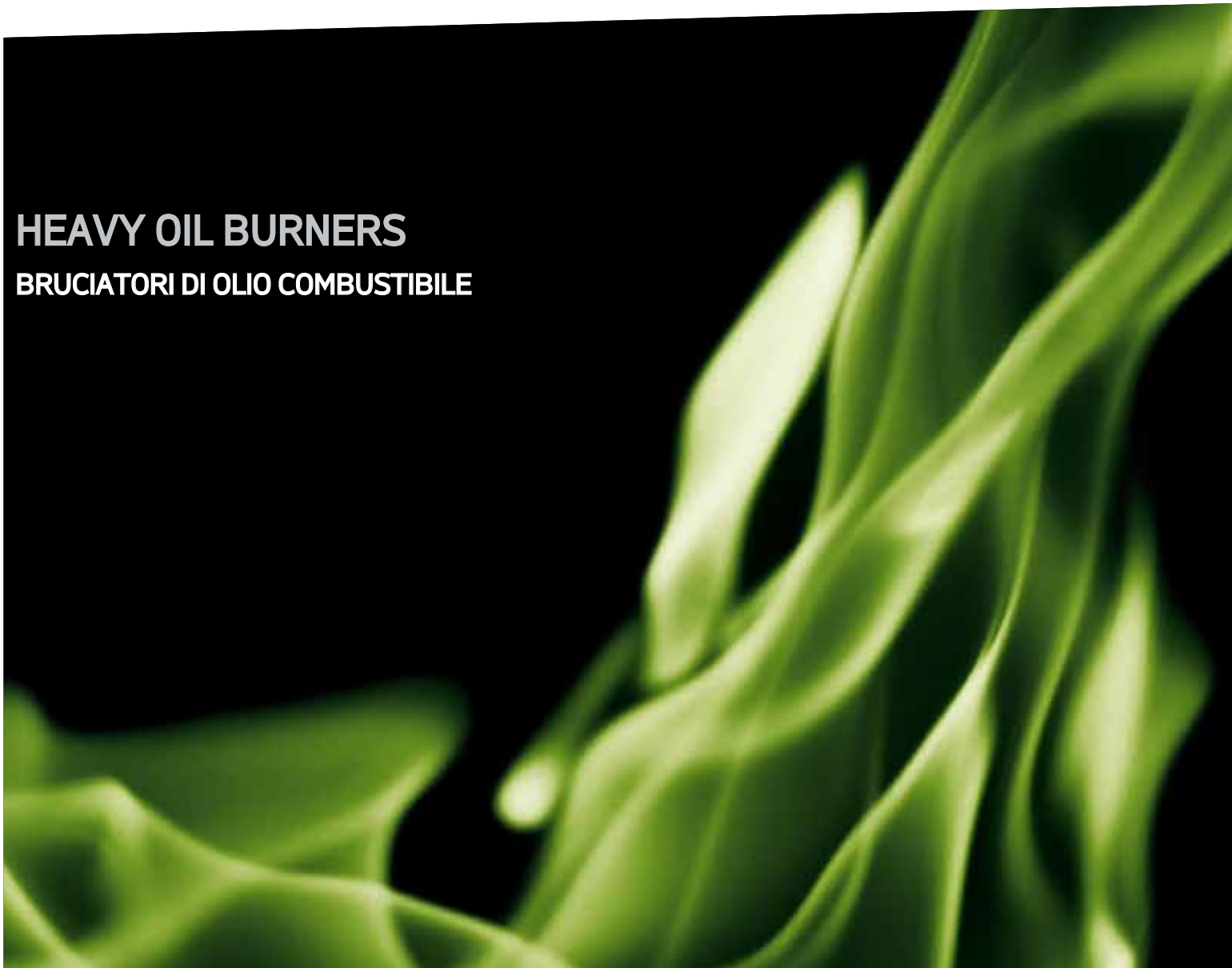


Please contact our Technical & Sales Offices for detailed technical data.

Vi invitiamo a contattare i ns. Uffici Tecnico-Commerciali per i dati tecnici di dettaglio.

# HEAVY OIL BURNERS

## BRUCIATORI DI OLIO COMBUSTIBILE



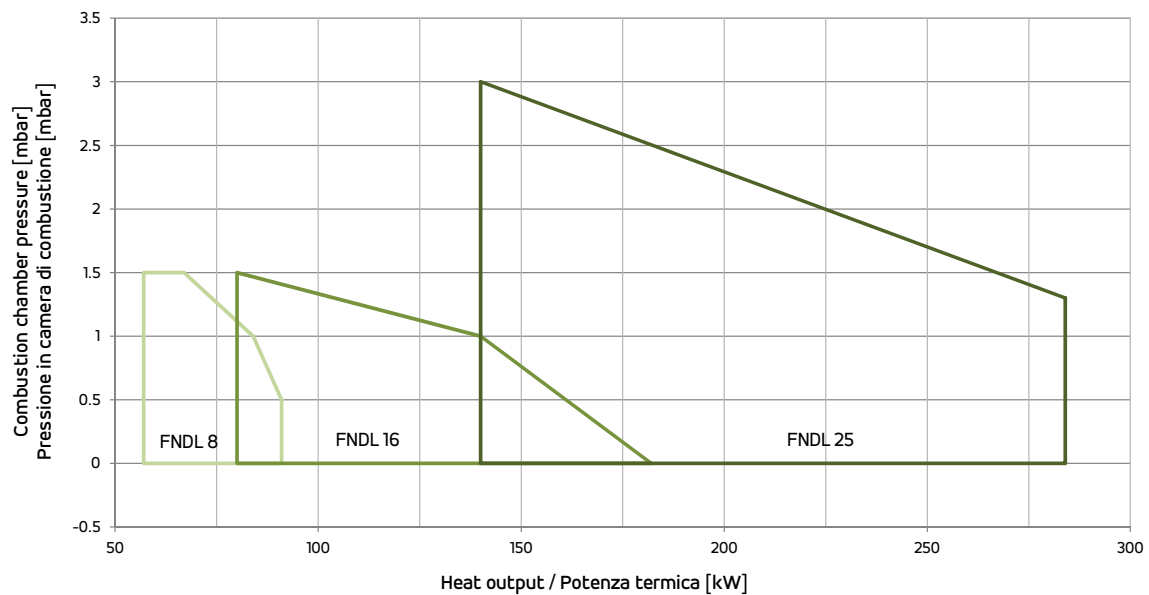
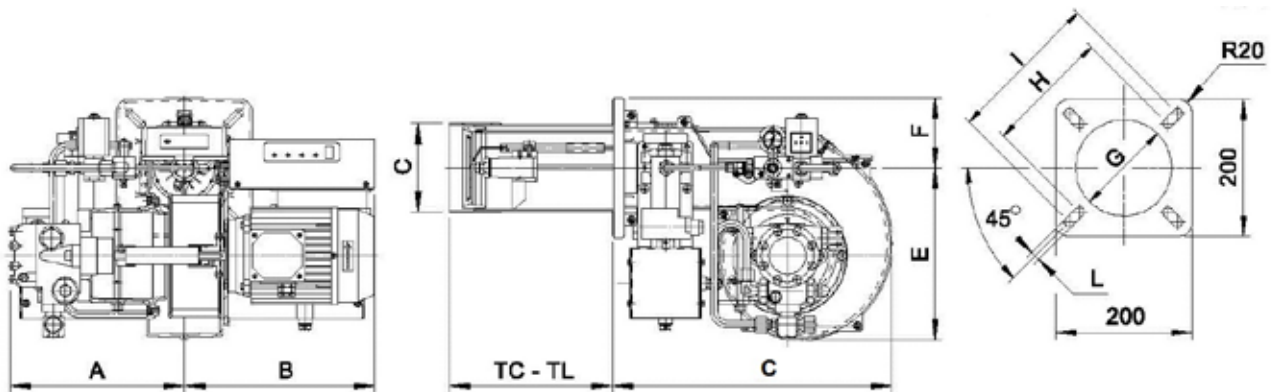
2





1 STAGE MONOSTADIO	kg/h		kW		⚡
	min	max	min	max	
FNDL 8	5	8	57	91,1	1F
FNDL 16	7	16	79,8	182	
FNDL 25	12,5	25	142	285	3F

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

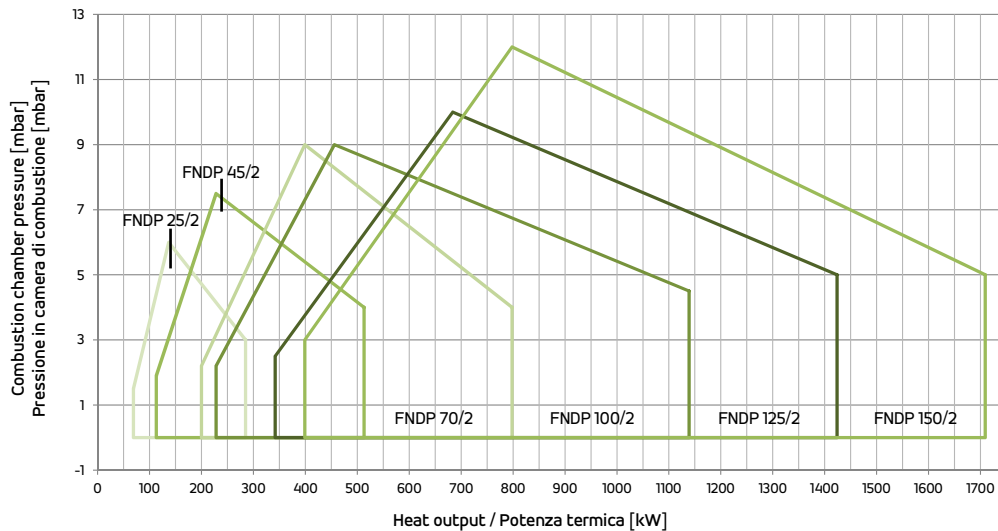
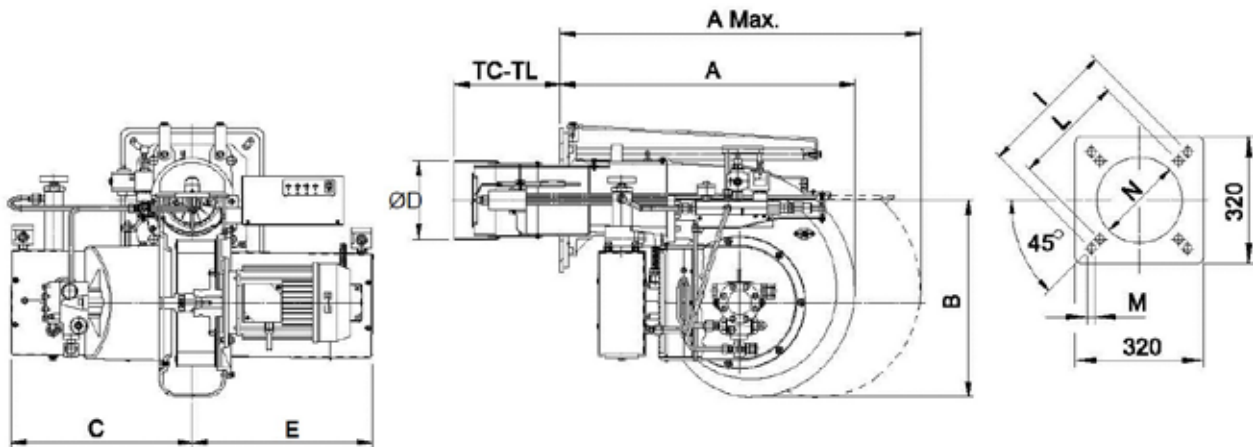


MODEL MODELLO	A	B	C	D	E	F	G	H	I	L	TC	TL
FNDL 8	253	294	410	107	251	102	120	180	226	M10	110	230
FNDL 16	253	294	410	107	251	102	120	180	226	M10	110	230
FNDL 25	255	294	410	130	251	102	140	180	226	M10	120	240



2 STAGES BISTADIO	kg/h		kW		3F
	min	max	min	max	
FNDP 25/2	12	25	137	285	3F
FNDP 45/2	20	45	228	513	
FNDP 70/2	35	70	399	798	
FNDP 100/2	40	100	456	1139	
FNDP 125/2	60	125	684	1424	
FNDP 150/2	70	150	798	1744	

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

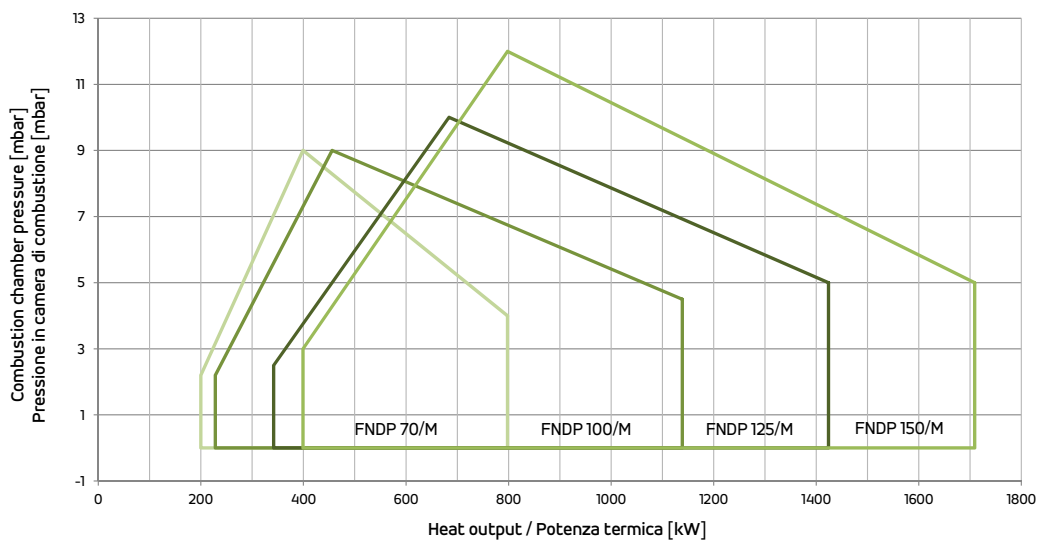
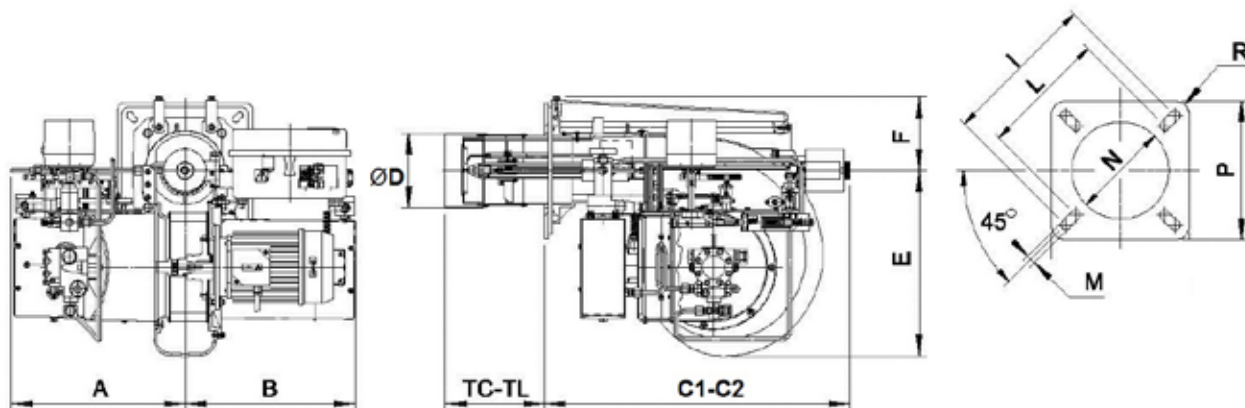


MODEL MODELLO	A	A Max.	B	C	D	E	TC	TL	I	L	M	N
FNDP 25/2	540	950	325	295	135	319	170	350	340	283	M12	145
FNDP 45/2	540	950	325	295	150	319	170	350	340	283	M12	160
FNDP 70/2	660	1100	355	295	165	326	250	350	368	340	M12	180
FNDP 100/2	656	1085	440	410	175	400	235	335	368	340	M12	190
FNDP 125/2	820	1400	520	420	209	400	200	400	368	340	M14	230
FNDP 150/2	820	1400	520	420	209	400	200	400	368	340	M14	230



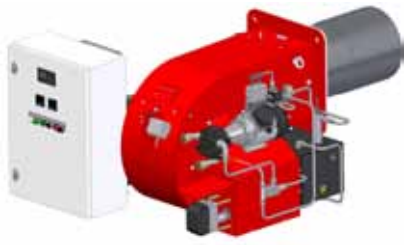
PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		
	min	max	min	max	
FNDP 70/M	18/35	70	205/399	798	3F
FNDP 100/M	20,5/40	100	233/456	1139	
FNDP 125/M	29/60	125	330/684	1424	
FNDP 150/M	38,5/75	150	438/854	1744	

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



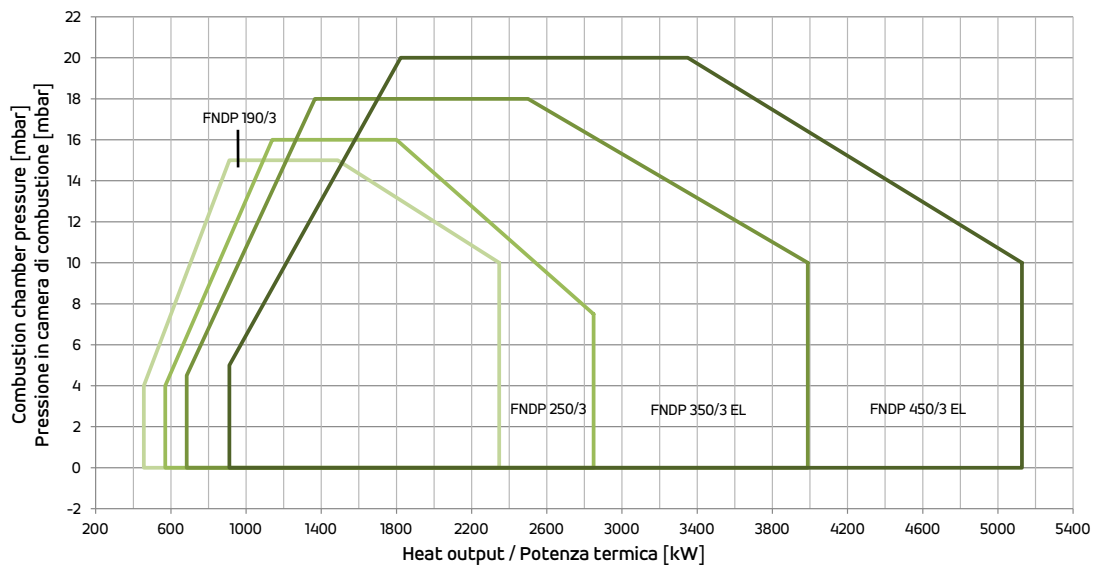
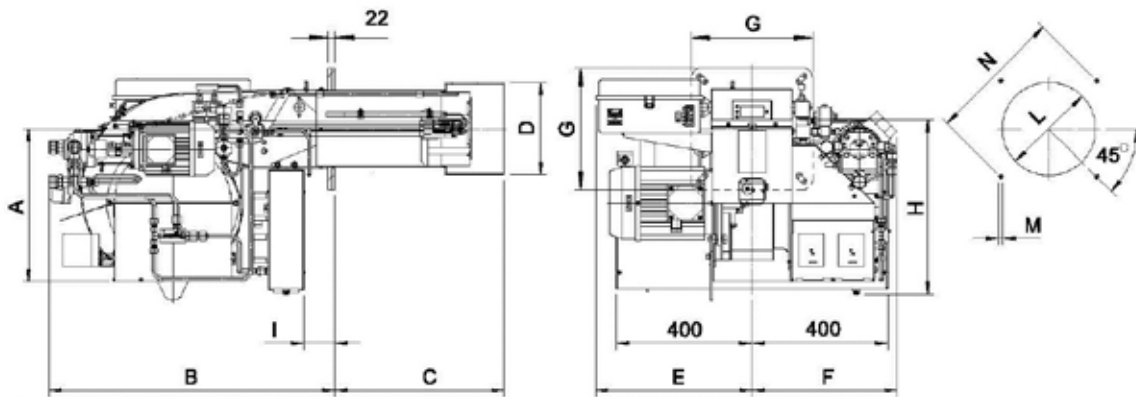
C2= overall dimension with the burner out in position of maintenance  
C2= ingombro a bruciatore arretrato in posizione di manutenzione

MODEL MODELLO	A	B	C1	C2	D	E	F	TC	TL	I	L	M	N
FNDP 70/M	360	385	735	1175	165	355	171	250	350	368	340	M12	180
FNDP 100/M	410	400	720	1150	175	440	173	235	335	368	340	M12	190
FNDP 125/M	420	400	860	1440	209	520	213	200	400	368	340	M14	230
FNDP 150/M	420	400	860	1440	209	520	213	200	400	368	340	M14	230



3 STAGES TRISTADIO	kg/h		kW		
	min	max	min	max	
FNDP 190/3	40/80	206	456/911	2347	3F
FNDP 250/3	50/100	250	570/1139	2849	
FNDP 350/3 EL	60/120	350	684/1367	3988	
FNDP 450/3 EL	80/160	450	911/1823	5128	

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



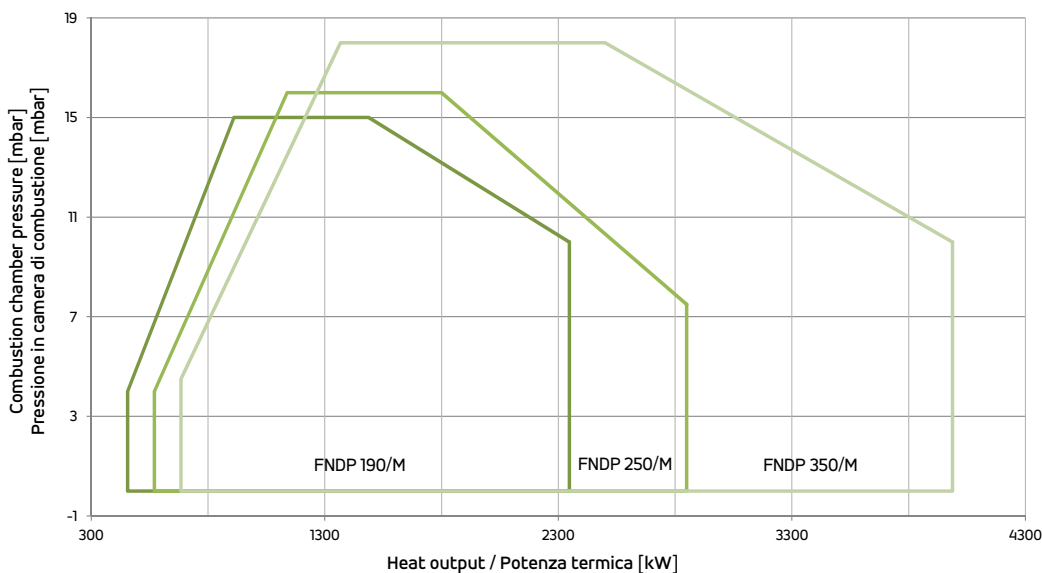
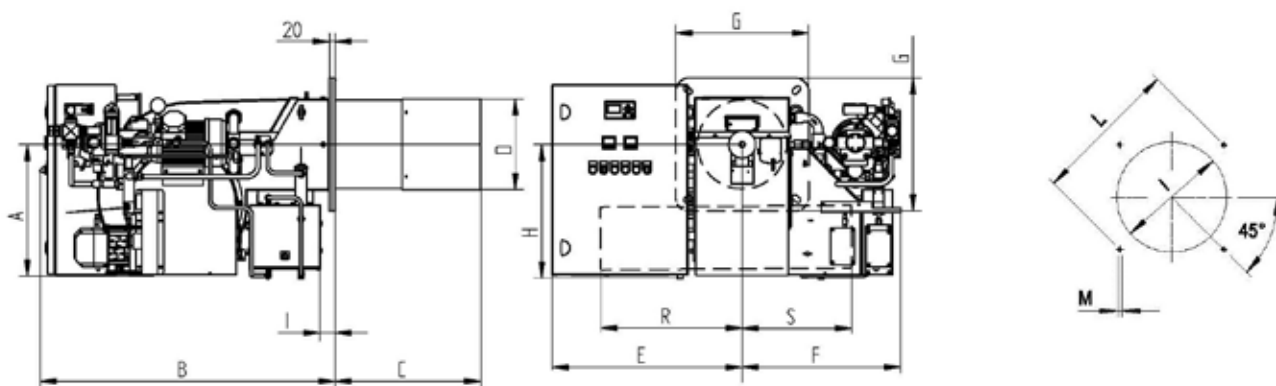
MODEL MODELLO	* Suggested/Consigliato																
	A	B	C	D	E	F	G	H	I	L min	L*	L max	M	N min	N*	N max	R
FNDP 190/3	453	850	495	234	464	430	360	490	93	245	280	320	M14	396	424	438	R30
FNDP 250/3	453	850	500	271	464	430	360	490	93	280	280	320	M14	396	424	438	R30
FNDP 350/3 EL	495	1085	535	334	700	488	490	495	55	350	350	450	M14	552	552	580	R50



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		3F
	min	max	min	max	
FNDP 190/M EL *	40/80	206	456/911	2347	
FNDP 250/M EL *	50/100	250	570/1139	2849	
FNDP 350/M EL *	60/120	350	684/1367	3988	

\* Available also versions with INVERTER  
\* Fornibili anche in versioni speciali con INVERTER

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	A	B	C	D	E	F	G	H	I	L min	L*	L max	M	N min	N*	N max	R	S
FNDP 190/M EL	453	940	495	234	647	480	360	490	93	245	280	320	M14	396	424	438	400	400
FNDP 250/M EL	453	940	500	271	647	480	360	490	93	280	280	320	M14	396	424	438	400	400
FNDP 350/M EL	481	1050	535	334	700	585	490	495	75	350	350	450	M14	552	552	580	520	400

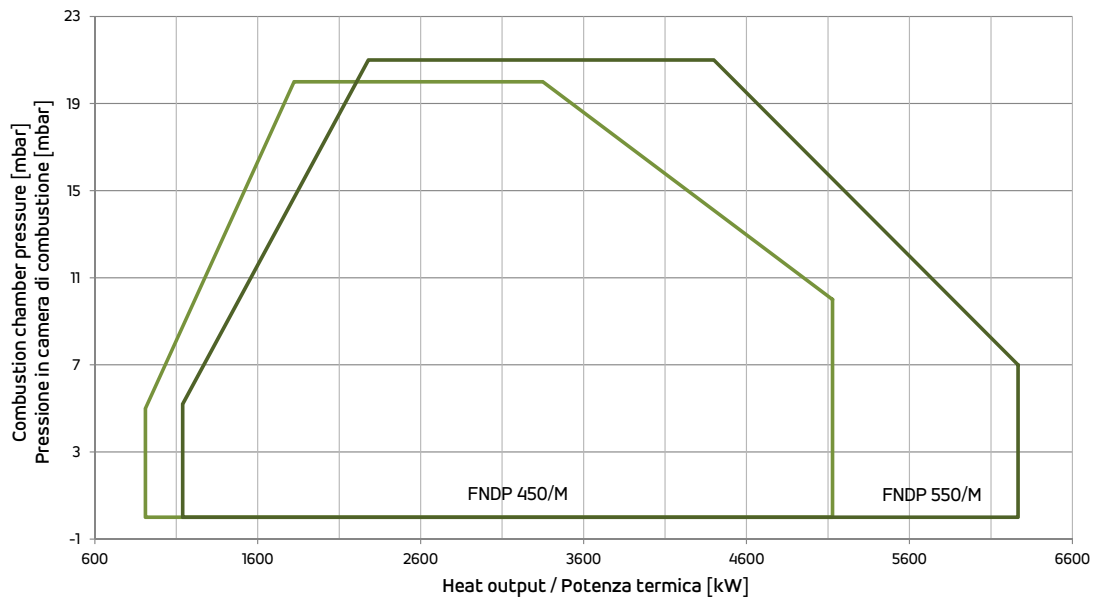
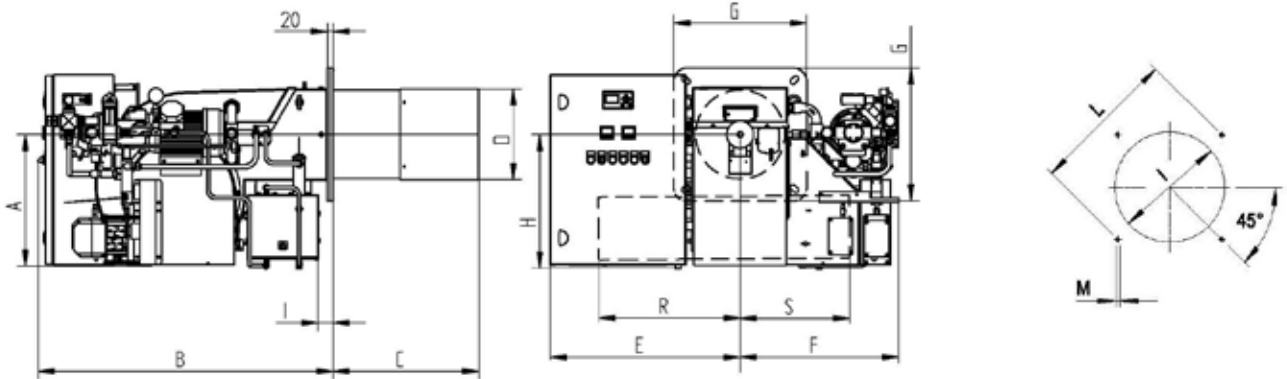
\* Suggested/Consigliato



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		
	min	max	min	max	
FNDP 450/M EL *	80/160	450	911/1823	5128	3F
FNDP 550/M EL *	100/200	550	1139/2279	6267	

\* Available also versions with INVERTER  
\* Fornibili anche in versioni speciali con INVERTER

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato																	
	A	B	C	D	E	F	G	H	I	L min	L*	L max	M	N min	N*	N max	R	S
FNDP 450/M EL	481	1050	560	380	700	585	490	635	57	390	390	450	M14	552	552	580	520	400
FNDP 550/M EL	481	1050	560	380	700	585	490	635	57	390	410	450	M14	552	552	580	520	400

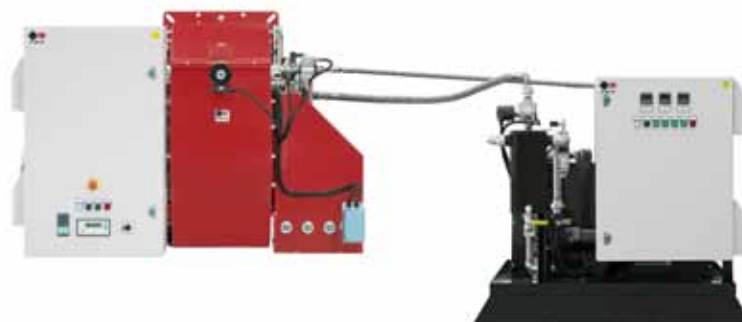
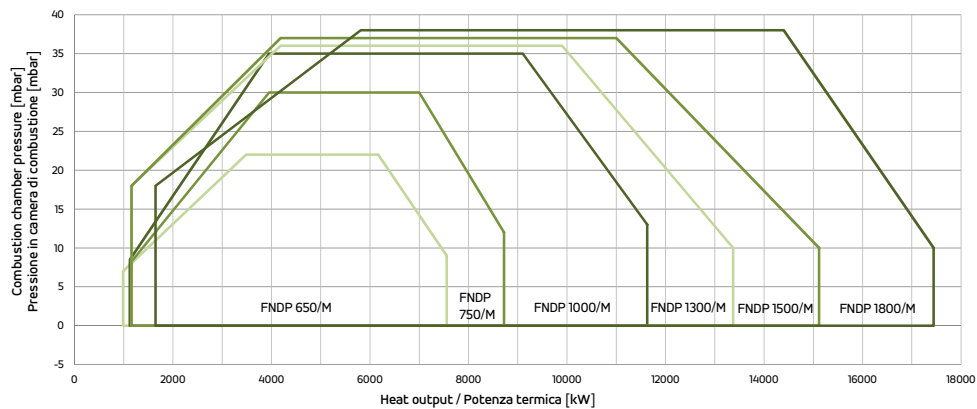




PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kg/h		kW		
	min	max	min	max	
FNDP 650/M EL *	100/306	663	1139/3488	7558	3F
FNDP 750/M EL *	114/347	765	1299/3953	8721	
FNDP 1000/M EL *	114/347	1020	1299/3953	11628	
FNDP 1300/M EL *	123/367	1173	1401/4186	13372	
FNDP 1500/M EL *	123/367	1326	1401/4186	15116	
FNDP 1800/M EL *	167/510	1531	1903/5814	17442	

\* Available also versions with INVERTER  
\* Fornibili anche in versioni speciali

## FIRING RATES - CAMPO DI LAVORO



Please contact our Technical & Sales Offices for detailed technical data.

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**GAS BURNERS**  
**BRUCIATORI DI GAS**



**3**

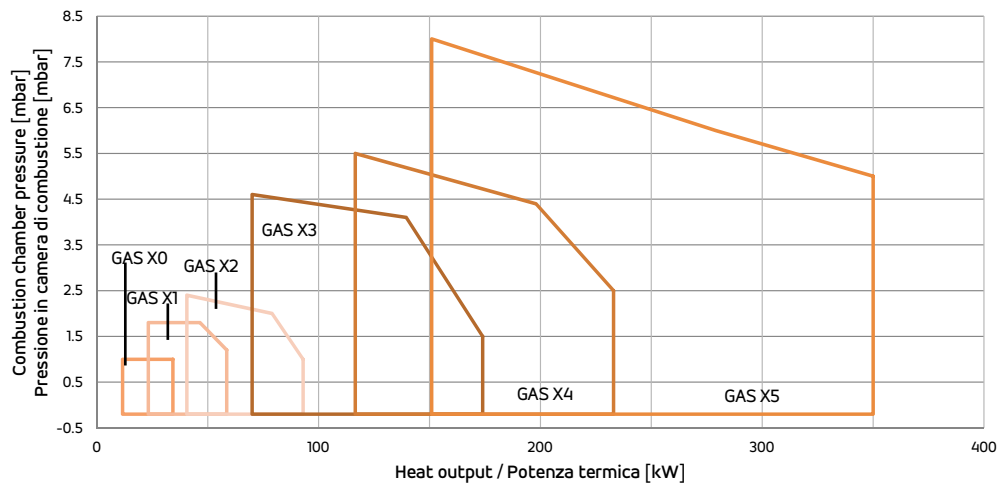
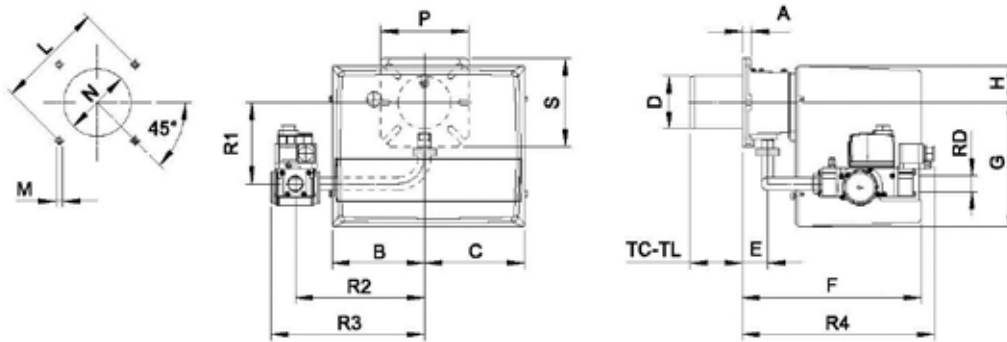




1 STAGE MONOSTADIO	kcal/h		kW		1F
	min	max	min	max	
GAS X 0	10.000	29.500	11,6	34,3	
GAS X1 *	20.000	50.000	23,2	58,1	
GAS X2 *	35.000	80.000	40,7	93	
GAS X3 *	60.000	150.000	69,8	174	
GAS X4 *	100.000	200.000	116	232	
GAS X5 *	130.000	300.000	151	349	

\* Available also in Low NOx version  
 \* Disponibili anche in versione Low NOx

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato																							
	A	B	C	D	E	F	G	H	L min	L*	L max	M	N min	N*	N max	P	S	TC	TL	R1	R2	R3	R4	RD
GAS X0 CE - D1/2"-S	15	140	140	90	43	265	169	72	130	150	170	M8	100	110	130	150	150	90	150	132	200	254	240	1/2"
GAS X1 CE - D1/2"-S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	132	200	254	240	1/2"
GAS X2 CE - D3/4"-S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	138	220	262	328	3/4"
GAS X3 CE - D1"-S	16	185	195	108	54	340	248	70	150	170	170	M8	120	130	140	200	160	130	250	168	280	337	361	1"
GAS X4 CE - D1"-S	20	185	195	125	78	368	248	70	170	205	226	M10	130	140	160	200	200	160	280	173	280	337	385	1"
GAS X5 CE - D1"-S	18	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	160	305	362	403	1"
GAS X5 CE - CT-D1"-S	18	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	160	305	480	403	1"
GAS X5 CE - D1"1/4-S	18	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	160	305	362	450	1 1/4"
GAS X5 CE - CT-D1"1/4-S	18	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	160	305	480	450	1 1/4"

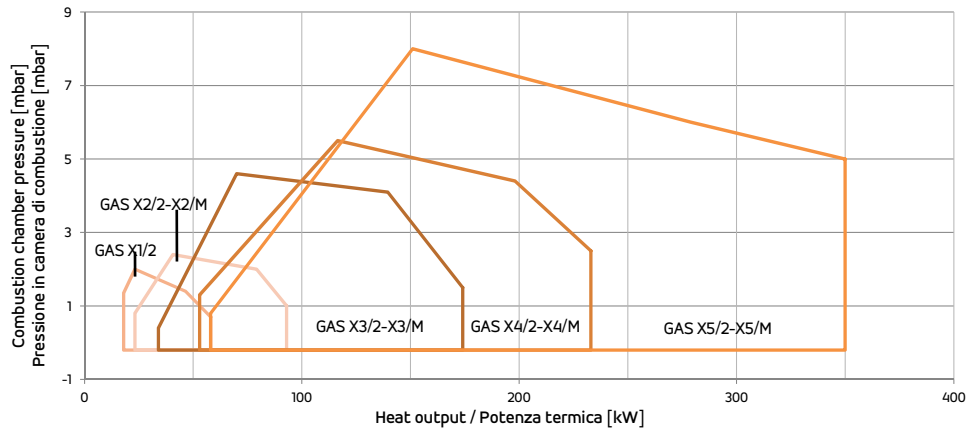
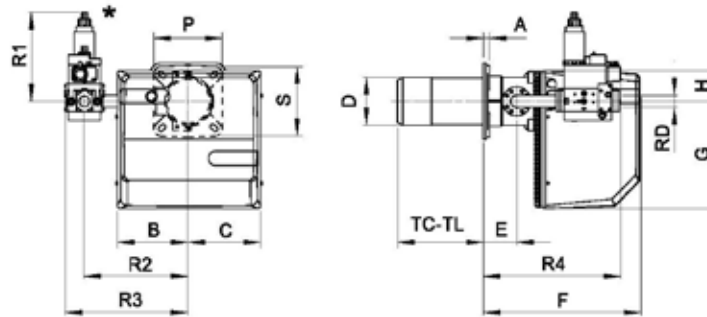


2 STAGES BISTADIO	PROGRESSIVE & MODULANTING Progressivi e modulanti	kcal/h		kW		⚡
		min	max	min	max	
GAS X 1/2	-	20.000	50.000	18/23,2	58,1	1F
GAS X 2/2 *	GAS X 2/M *	35.000	80.000	24,4/40,7	93	
GAS X 3/2 *	GAS X 3/M *	60.000	150.000	34,9/69,8	174	
GAS X 4/2 *	GAS X 4/M *	100.000	200.000	64/116	232	
GAS X 5/2 *	GAS X 5/M *	130.000	300.000	81,4/151	349	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

Model GAS X5/2 / Modello GAS X5/2

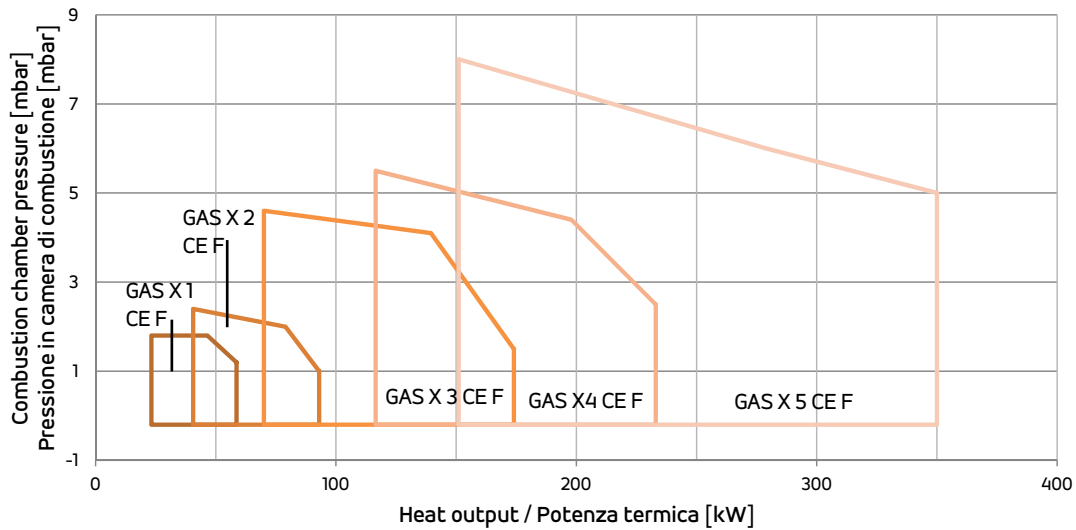
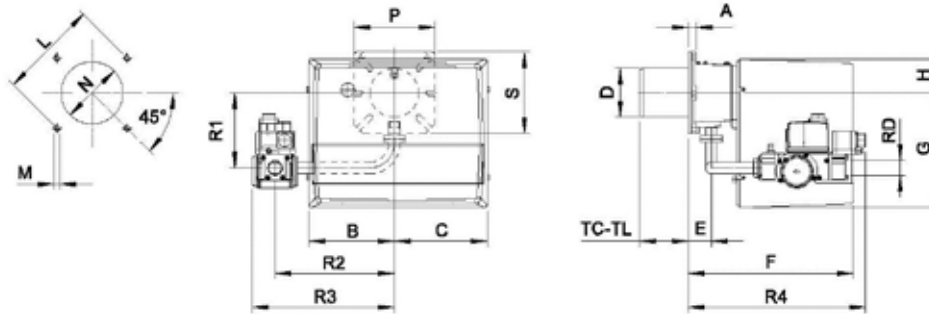


MODEL MODELLO	* Suggested/Consigliato																							
	A	B	C	D	E	F	G	H	L	L*	L	M	N	N*	N	P	S	TC	TL	R1	R2	R3	R4	RD
								min	max	max			min	max	max									
GAS X 1/2 CE - D1 1/2" S	15	162	175	90	45	313	210	65	130	150	170	M8	100	110	130	150	150	90	150	132	200	275	258	1/2"
GAS X 2/2 CE - D3/4" FS25	15	162	175	90	45	313	210	65	130	150	170	M8	100	110	130	150	150	90	150	138	220	351	275	1"
GAS X 3/2 CE - D1" S	16	185	195	108	52	340	248	70	150	170	170	M8	120	130	140	200	160	130	250	152	280	337	291	1"
GAS X 4/2 CE - D1" S	20	185	195	125	78	368	248	70	170	205	226	M10	130	140	160	200	200	160	280	158	280	337	315	1"
GAS X 5/2 CE - D1" S	20	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	255	305	362	363	1"
GAS X 5/2 CE - CT D1" S	20	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	255	305	480	403	1"
GAS X 5/2 CE - D1 1/4 S	20	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	255	305	362	363	1 1/4"
GAS X 5/2 CE - CT D1 1/4 S	18	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	205	250	335	255	305	480	450	1 1/4"
GAS X 2/M CE - D3/4" S	15	162	200	90	45	305	211	65	130	150	170	M8	100	110	130	150	150	90	150	178	220	262	346	3/4"
GAS X 3/M CE - D1" S	20	185	224	108	56	344	248	70	150	170	170	M8	120	130	140	200	160	130	250	212	280	338	300	1"
GAS X 4/M CE - D1" S	20	185	224	125	80	371	248	70	170	205	226	M10	130	140	160	200	200	160	280	218	280	338	323	1"
GAS X 5/M CE - D1" S	20	207	213	138	98	462	310	165	205	205	226	M10	150	150	180	200	205	250	335	160	305	362	515	1"
GAS X 5/M CE - D1 1/4 S	20	207	213	138	98	462	310	165	205	205	226	M10	150	150	180	200	205	250	335	160	305	362	515	1 1/4"



1 STAGE for bakery ovens MONOSTADIO per forni da pane	kcal/h		kW		
	min	max	min	max	
GAS X 1 F	20.000	50.000	23,2	58,1	1F
GAS X 2 F	35.000	80.000	40,7	93	
GAS X 3 F	60.000	150.000	69,8	174	
GAS X 4 F	100.000	200.000	116	232	
GAS X 5 F	130.000	300.000	151	349	

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	A	B	C	D	E	F	G	H	L min	L*	L max	M	N min	N*	N max	P	S	TC	TL	R1	R2	R3	R4	RD
GAS X 1 CE F - D1/2" S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	132	200	254	240	1/2"
GAS X 2 CE F - D3/4" S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	138	220	262	328	3/4"
GAS X 3 CE F - D1" S	16	185	195	108	54	340	248	70	150	170	170	M8	120	130	140	200	160	130	250	168	280	337	361	1"
GAS X 4 CE F - D1" S	20	185	195	125	78	368	248	70	170	205	226	M10	130	140	160	200	200	160	280	173	280	337	385	1"
GAS X 5 CE F - D1" S	18	207	213	138	98	462	310	90	205	205	226	M10	150	150	180	200	200	250	335	160	305	362	403	1"

\* Suggested/Consigliato



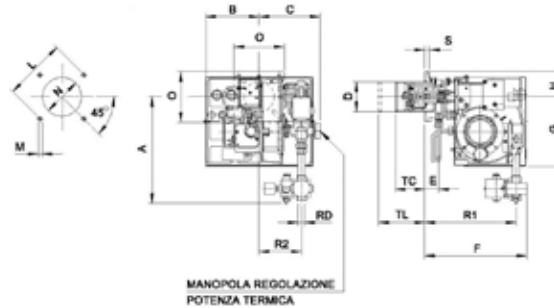
1 STAGE for Kitchens MONOSTADIO per cucine	kcal/h		kW		
	min	max	min	max	
GAS 1/C	10.000	40.000	11,6	46,5	1F
GAS 2/C	15.000	60.000	17,4	69,8	

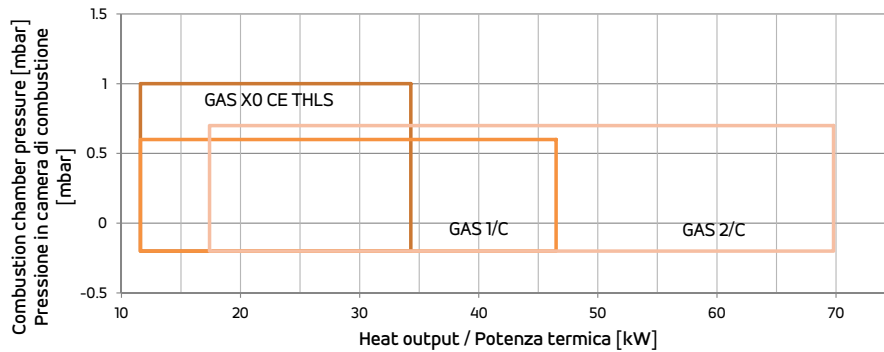
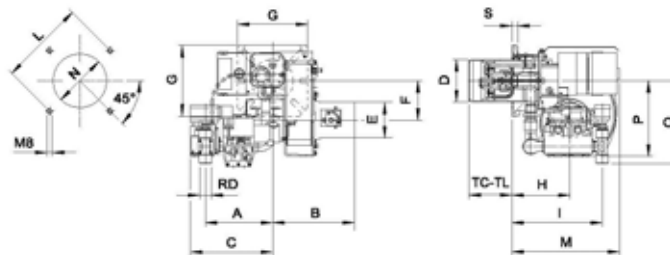
SERIE "X0 THLS" for units per units	kcal/h		kW		
	min	max	min	max	
GAS X0 THLS	10.000	29.500	11,6	34,3	1F

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

Model GAS 1/C - GAS 2/C / Modello GAS 1/C - GAS 2/C



Model GAS X0 THLS / Modello GAS X0 THLS



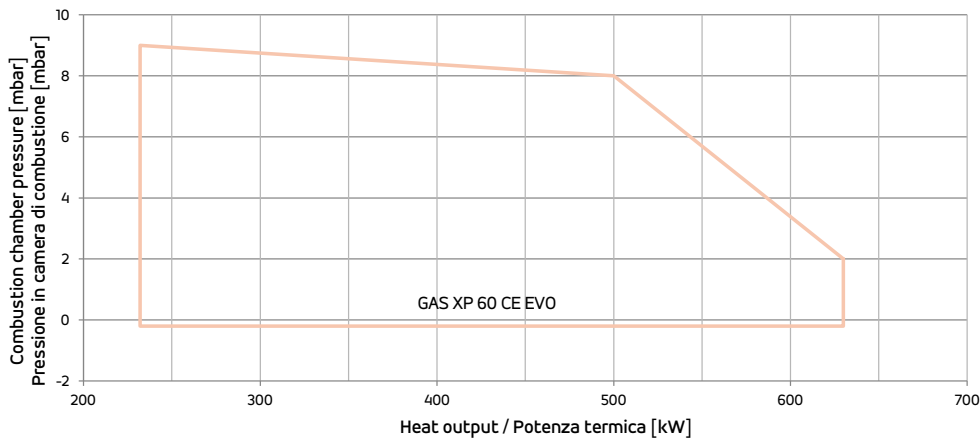
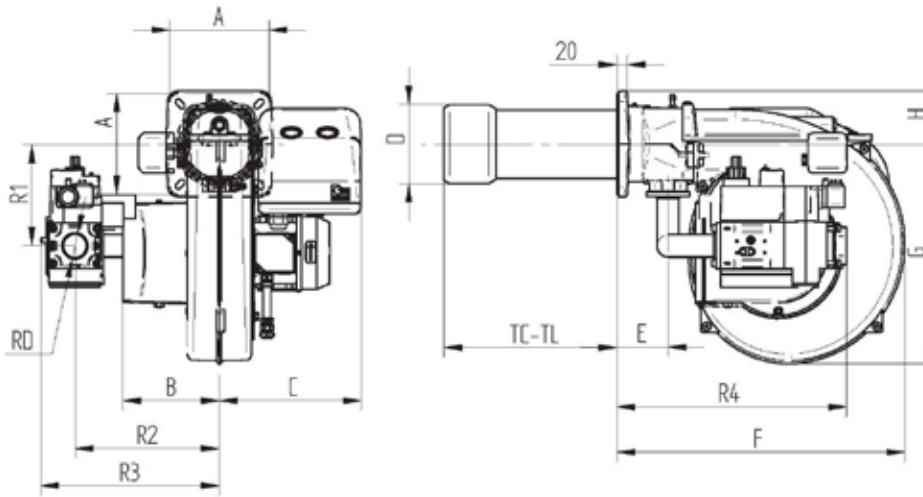
MODEL MODELLO	A	B	C	D	E	F	G	H	I	L	M	N	O	P	TC	TL	R2	
GAS 1/C	321	166	184	90	43	310	210	75	130	160	130	100	30	M8	85	145	128	1/2"
GAS 2/C	321	166	184	90	43	310	210	75	130	160	130	100	30	M8	85	145	128	1/2"
GAS X0 CE THLS - D1/2"	144	169	176	90	80	84	-	125	193	-	230	161	176	-	92	152	-	1/2"



1 STAGE MONOSTADIO	kcal/h		kW		3F
	min	max	min	max	
GAS XP 60 EVO *	200.000	542.000	232	630	

\* Available also in Low NOx version  
 \* Disponibile anche in versione Low NOx

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



\* Suggested/Consigliato

MODEL MODELLO	A	B	C	D	E	F	G	H	L min*	L max	N min*	N max	TC	TL	R1	R2	R3	R4	RD
GASP XP 60 CE EVO - D1" - S	200	188	274	150	99	558	416	100	160	180	205	226	250	335	193	280	338	431	1"
GASP XP 60 CE EVO - D1" 1/4 - S	200	188	274	150	99	558	416	100	160	180	205	226	250	335	193	280	338	431	1" 1/4
GAS XP 60 CE EVO - D1" 1/2 - S	200	188	275	150	99	558	416	100	160	180	205	226	250	335	193	280	346	446	1" 1/2



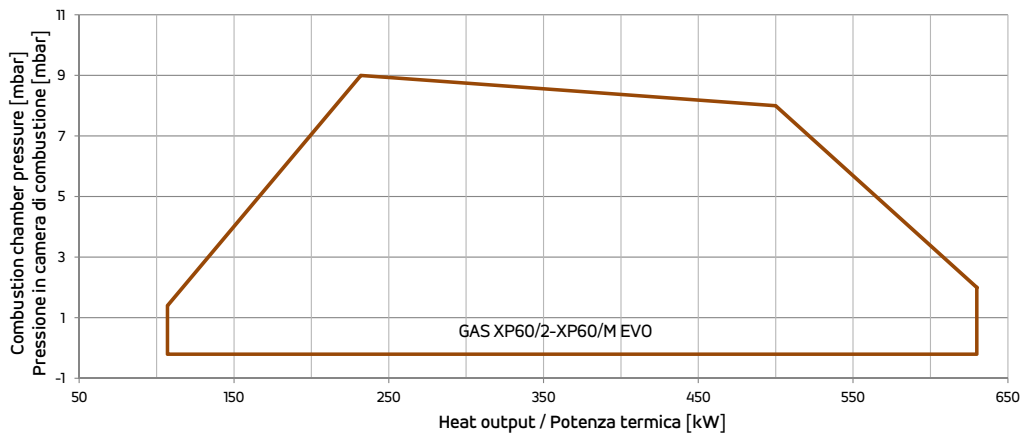
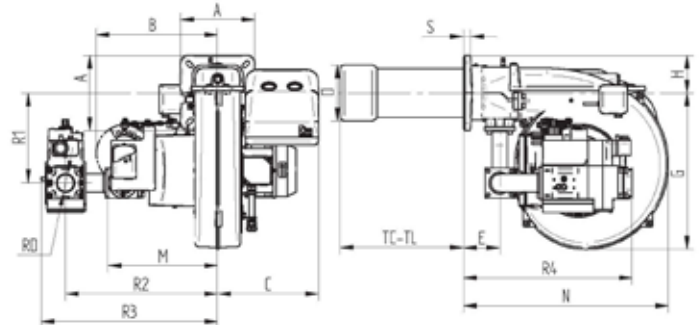
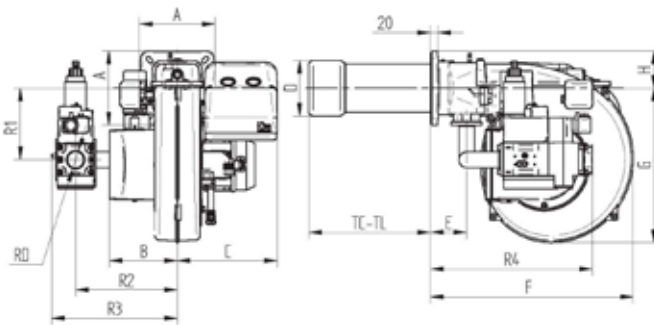
2 STAGES BISTADIO	PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		
		min	max	min	max	
-	GAS XP 40/M *	130.000	300.000	64/151	348	1F
GAS XP 60/2 EVO *	GAS XP 60/M EVO *	200.000	542.000	116/232	630	3F

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

Model GAS XP 60/2 EVO / Modello GAS XP 60/2 EVO

Model GAS XP 60/M EVO / Modello GAS XP 60/M EVO



MODEL MODELLO	* Suggested/Consigliato																		
	A	B	C	D	E	F	G	H	L min*	L max	N min*	N max	TC	TL	R1	R2	R3	R4	RD
GAS XP 40/M - D1" - S	200	298	275	138	98	500	327	110	160	180	205	226	250	335	202	414	468	459	1"
GAS XP 40/M - D1" 1/4 - S	200	298	275	138	98	500	327	110	160	180	205	226	250	335	202	414	468	459	1" 1/4
GAS XP 40/M - D1" 1/2 - S	200	298	275	138	98	500	327	110	160	180	205	226	250	335	202	414	468	459	1" 1/2
GAS XP 60/2 CE EVO - D1" - S	200	188	276	150	99	558	416	100	160	180	205	226	250	335	193	280	338	431	1"
GAS XP 60/2 CE EVO - D1" 1/4 - S	200	188	276	150	99	558	416	100	160	180	205	226	250	335	193	280	338	431	1" 1/4
GAS XP 60/2 CE EVO - D1" 1/2 - S	200	188	276	150	99	558	416	100	160	180	205	226	250	335	193	280	346	446	1" 1/2
GAS XP 60/M CE EVO - D1" - S	200	330	275	150	99	558	417	100	160	180	205	226	250	335	240	414	472	444	1"
GAS XP 60/M CE EVO - D1" 1/4 - S	200	330	275	150	99	558	417	100	160	180	205	226	250	335	240	414	472	444	1" 1/4
GAS XP 60/M CE EVO - D1" 1/2 - S	200	330	275	150	99	558	417	100	160	180	205	226	250	335	240	414	480	460	1" 1/2

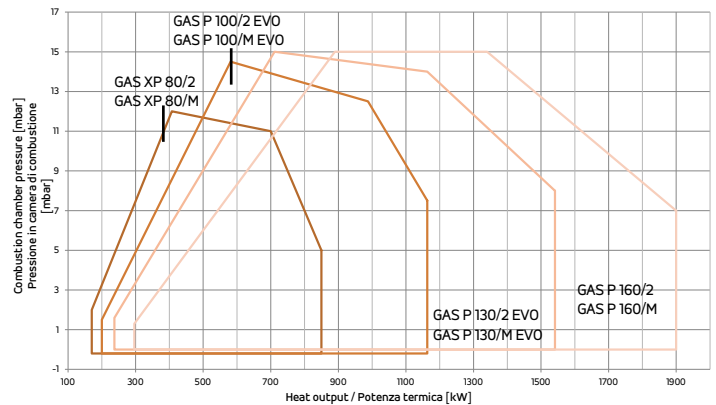
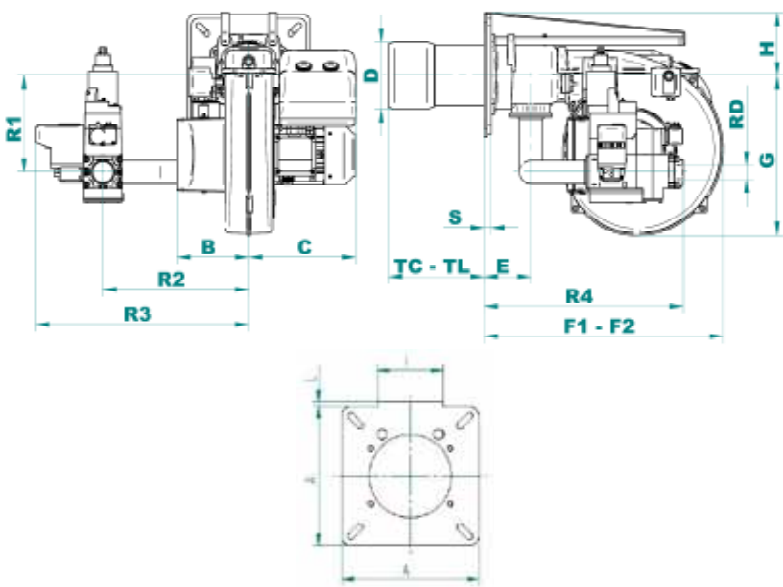




2 STAGES BISTADIO	PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		3F
		min	max	min	max	
GAS XP 80/2 *	GAS XP 80/M *	350.000	650.000	170/407	850	
GAS P 100/2 EVO *	GAS P 100/M EVO *	500.000	1.000.000	200/581	1163	
GAS P 130/2 EVO *	GAS P 130/M EVO *	612.000	1.324.000	240/712	1540	
GAS P 160/2 *	GAS P 160/M *	765.000	1.647.000	300/890	1915	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



F2= overall dimension with the burner out in position of maintenance  
F2= ingombro a bruciatore arretrato in posizione di manutenzione

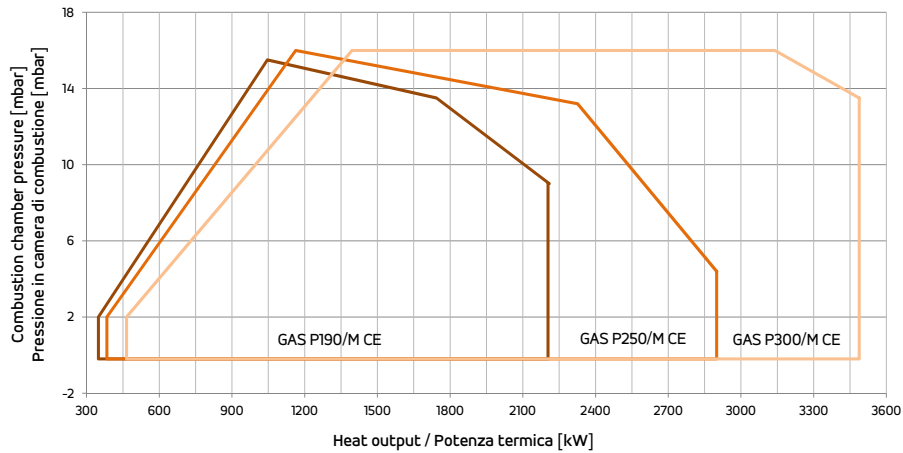
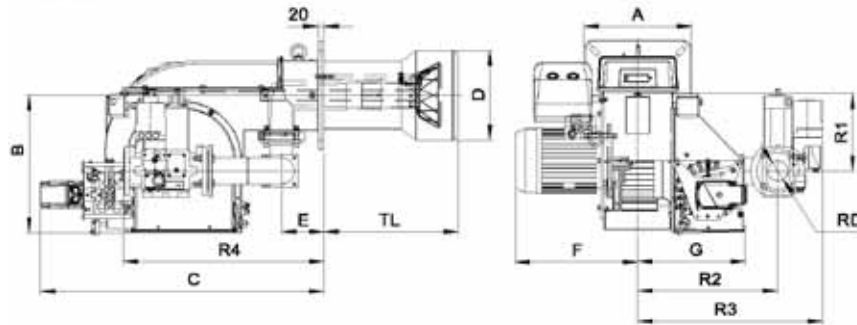
MODEL MODELLO	A	B	C	D	E	F1	F2	G	H	I	L	M	N min	N max	O min*	O max	TC	TL	S	R1	R2	R3	R4	RD
GAS XP 80/2 CE - D1" 1/4 - S	320	188	276	175	122	622	1062	416	171	144	10	M12	310	368	185	250	250	385	18	251	380	438	504	1" 1/4
GAS XP 80/2 CE - D1" 1/2 - S	320	188	276	175	122	622	1062	416	171	144	10	M12	310	368	185	250	250	385	18	251	380	458	518	1" 1/2
GAS XP 80/2 CE - D2" - S	320	188	276	175	122	622	1062	416	171	144	10	M12	310	368	185	250	250	385	18	251	380	458	518	2"
GAS P 100/2 CE EVO - D1" 1/4 - S	290	238	294	185	184	764	-	510	140	-	-	M12	275	325	195	250	250	385	25	260	380	438	563	1" 1/4
GAS P 100/2 CE EVO - D1" 1/2 - S	290	238	294	185	184	764	-	510	140	-	-	M12	275	325	195	250	250	385	25	260	380	458	577	1" 1/2
GAS P 100/2 CE EVO - D2" - S	290	238	294	185	184	764	-	510	140	-	-	M12	275	325	195	250	250	385	25	260	380	458	577	2"
GAS P 130/2 CE EVO - D2" S	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	284	380	555	545	2"
GAS P 160/2 CE - D2" - S	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	284	380	555	545	2"
GAS XP 80/M CE - D1" 1/4 - S	320	187	278	175	122	622	1062	416	171	144	10	M12	310	368	185	250	250	385	18	253	462	520	467	1" 1/4
GAS XP 80/M CE - D1" 1/2 - S	320	187	278	175	122	622	1062	416	171	144	10	M12	310	368	185	250	250	385	18	253	462	541	483	1" 1/2
GAS XP 80/M CE - D2" - S	320	187	278	175	122	622	1062	416	171	144	10	M12	310	368	185	250	250	385	18	253	462	541	483	2"
GAS P 100/M CE EVO - D1" 1/4 - S	300	382	376	185	184	660	1160	438	173	-	-	M12	340	368	195	250	250	385	18	260	460	520	529	1" 1/4
GAS P 100/M CE EVO - D1" 1/2 - S	290	240	294	185	184	764	-	510	140	-	-	M12	275	325	195	250	250	385	25	260	460	541	544	1" 1/2
GAS P 100/M CE EVO - D2" - S	290	240	294	185	184	764	-	510	140	-	-	M12	275	325	195	250	250	385	25	260	460	541	544	2"
GAS P 100/M CE EVO - DN65-FS65	290	240	294	185	184	764	-	510	140	-	-	M12	275	325	195	250	250	385	25	260	556	663	611	DN65
GAS P 130/M CE - D2" - S	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	229	510	684	498	2"
GAS P 130/M CE EVO - DN65-FS65	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	229	510	686	541	DN65
GAS P 130/M CE EVO - DN80-FS80	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	229	550	740	581	DN80
GAS P 160/M CE - D2" - S	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	229	510	684	498	2"
GAS P 160/M CE - DN65-FS65	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	229	510	686	541	DN65
GAS P 160/M CE - DN80-FS80	320	240	402	209	148	803	1388	510	211	183	40	M14	340	368	220	250	280	400	20	229	550	740	581	DN80



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		⚡
	min	max	min	max	
GAS P 190/M* °	900.000	1.900.000	349/1046	2209	3F
GAS P 250/M* °	1.000.000	2.500.000	384/1163	2907	
GAS P 300/M* °	1.200.000	3.000.000	465/1395	3488	

- \* Available also in Low NOx version
- \* Disponibili anche in versione Low NOx
- ° Available also special versions with INVERTER and ELECTRONIC BURNER CONTROL
- ° Fornibili anche in versioni speciali con INVERTER e CAMMA ELETTRONICA

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	A	B	C	D	E	F	G	TL	N min	N*	N max	L min*	L max	M	R1	R2	R3	R4	RD
GAS P 190/M CE - D2" - FS50	360	453	974	265	145	422	363	495	396	424	438	280	320	M14	254	509	672	504	2"
GAS P 190/M CE - DN65 - FS65	360	453	974	265	145	422	363	495	396	424	438	280	320	M14	254	480	634	688	DN65
GAS P 190/M CE - DN80 - FS80	360	453	974	265	145	422	363	495	396	424	438	280	320	M14	254	480	647	708	DN80
GAS P 190/M CE - DN100 - FS100	360	453	974	265	145	422	363	495	396	424	438	280	320	M14	254	480	654	748	DN100
GAS P 250/M CE - D2" - FS50	360	453	974	270	145	422	363	495	396	424	438	280	320	M14	254	509	672	504	2"
GAS P 250/M CE - DN65 - FS65	360	453	974	270	145	422	363	495	396	424	438	280	320	M14	254	480	634	688	DN65
GAS P 250/M CE - DN80 - FS80	360	453	974	270	145	422	363	495	396	424	438	280	320	M14	254	480	647	708	DN80
GAS P 250/M CE - DN100 - FS100	360	453	974	270	145	422	363	495	396	424	438	280	320	M14	254	480	654	748	DN100
GAS P 300/M CE - D2" - FS50	360	453	974	300	145	422	363	460	396	424	438	310	320	M14	254	590	672	504	2"
GAS P 300/M CE - DN65 - FS65	360	453	974	300	145	422	363	460	396	424	438	310	320	M14	254	480	634	688	DN65
GAS P 300/M CE - DN80 - FS80	360	453	974	300	145	422	363	460	396	424	438	310	320	M14	254	480	647	708	DN80
GAS P 300/M CE - DN100 - FS100	360	453	974	300	145	422	363	460	396	424	438	310	320	M14	254	480	654	748	DN100

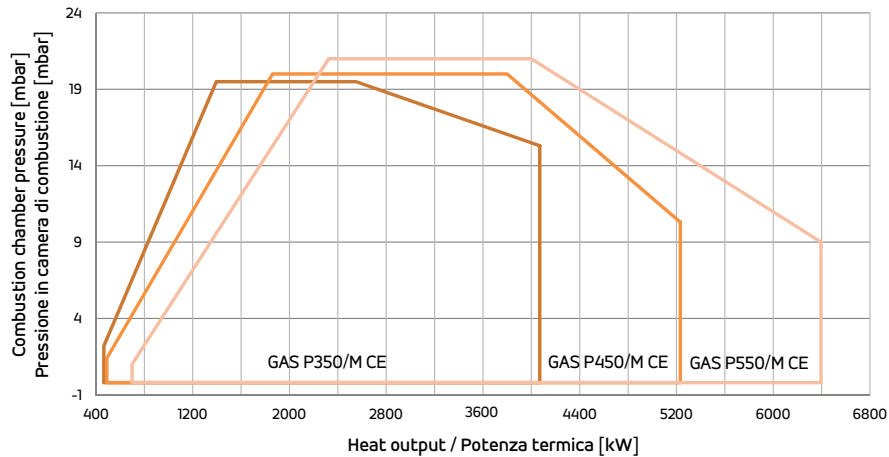
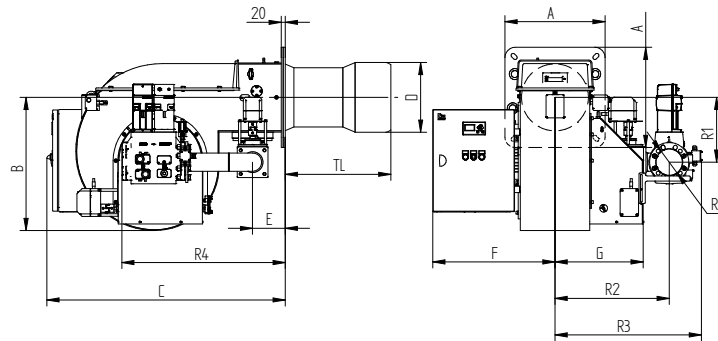
\* Suggested/Consigliato



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		3F
	min	max	min	max	
GAS P 350/M EL EVO *	1.200.000	3.500.000	465/1395	4070	3F
GAS P 450/M EL EVO *	1.600.000	4.500.000	465/1860	5232	
GAS P 550/M EL EVO *	2.000.000	5.500.000	500/2325	6395	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



\* Suggested/Consigliato

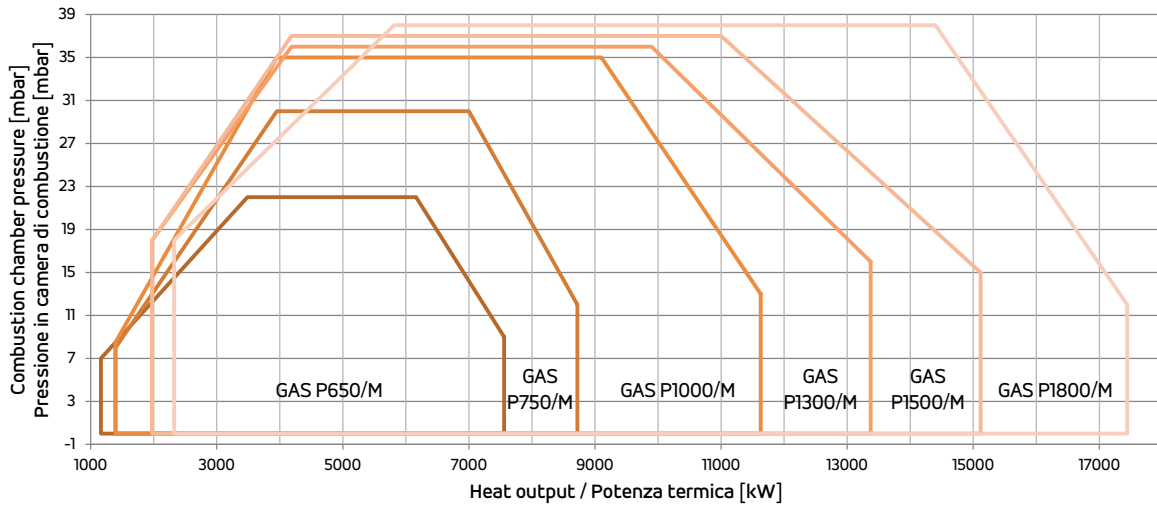
MODEL MODELLO	A	B	C	D	E	F	G	TL	N min	N*	N max	P min	P*	P max	R	R1	R2	R3	R4	RD
GAS P 350/M CE EVO - D2" - FS50	490	652	1167	342	160	600	440	515	552	552	580	350	360	450	M14	317	535	660	745	2"
GAS P 350/M CE EVO - DN65 - FS65	490	652	1167	342	160	600	440	515	552	552	580	350	360	450	M14	317	560	670	780	DN65
GAS P 350/M CE EVO - DN80 - FS80	490	652	1167	342	160	600	440	515	552	552	580	350	360	450	M14	317	560	720	800	DN80
GAS P 350/M CE EVO - DN100 - FS100	490	652	1167	342	160	600	440	515	552	552	580	350	360	450	M14	317	610	785	840	DN100
GAS P 450/M CE EVO - D2" - FS50	490	652	1167	382	160	600	440	520	552	552	580	390	400	450	M14	317	535	660	745	2"
GAS P 450/M CE EVO - DN65 - FS65	490	652	1167	382	160	600	440	520	552	552	580	390	400	450	M14	317	560	670	780	DN65
GAS P 450/M CE EVO - DN80 - FS80	490	652	1167	382	160	600	440	520	552	552	580	390	400	450	M14	317	560	720	800	DN80
GAS P 450/M CE EVO - DN100 - FS100	490	652	1167	382	160	600	440	520	552	552	580	390	400	450	M14	317	610	785	840	DN100
GAS P 550/M CE EVO - D2" - FS50	490	652	1167	402	160	600	440	520	552	552	580	410	420	450	M14	317	535	660	745	2"
GAS P 550/M CE EVO - DN65 - FS65	490	652	1167	402	160	600	440	520	552	552	580	410	420	450	M14	317	560	670	780	DN65
GAS P 550/M CE EVO - DN80 - FS80	490	652	1167	402	160	600	440	520	552	552	580	410	420	450	M14	317	560	720	800	DN80
GAS P 550/M CE EVO - DN100 - FS100	490	652	1167	402	160	600	440	520	552	552	580	410	420	450	M14	317	610	785	840	DN100



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		3F
	min	max	min	max	
GAS P 650/M EL	3.000.000	6.500.000	1163/3488	7558	3F
GAS P 750/M EL *	3.400.000	7.500.000	1395/3953	8721	
GAS P 1000/M EL *	3.400.000	10.000.000	1395/3953	11628	
GAS P 1300/M EL *	3.600.000	11.500.000	1977/4186	13372	
GAS P 1500/M EL	3.600.000	13.000.000	1977/4186	15116	
GAS P 1800/M EL *	5.000.000	15.000.000	2325/5814	17442	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

## FIRING RATES - CAMPO DI LAVORO



Please contact our Technical & Sales Offices for detailed technical data.

Vi invitiamo a contattare i ns. Uffici Tecnico-Commerciali per i dati tecnici di dettaglio.



**DUAL FUEL BURNERS  
GAS/LIGHT OIL  
GAS/HEAVY OIL KN  
BRUCIATORI MISTI  
GAS/GASOLIO  
GAS/OLIO COMBUSTIBILE KN**



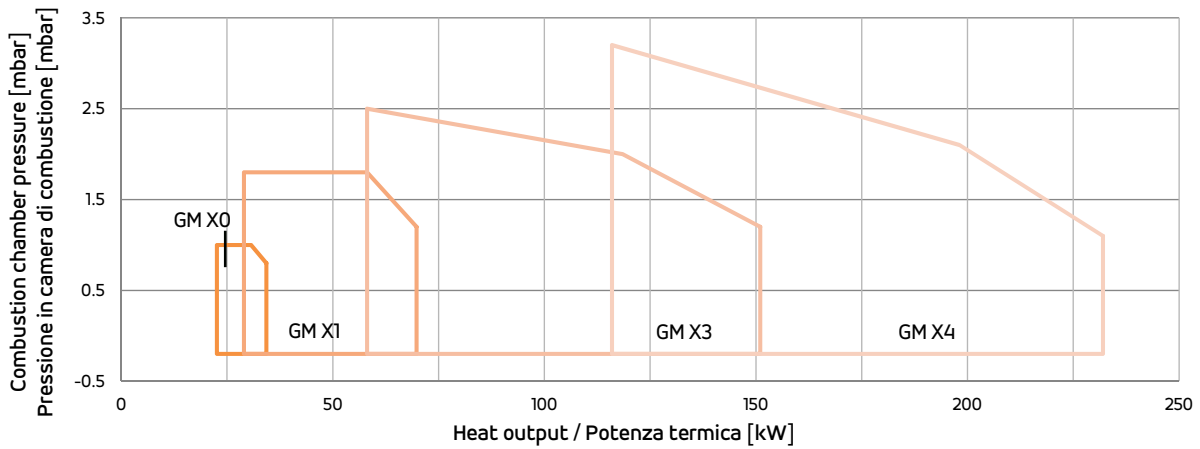
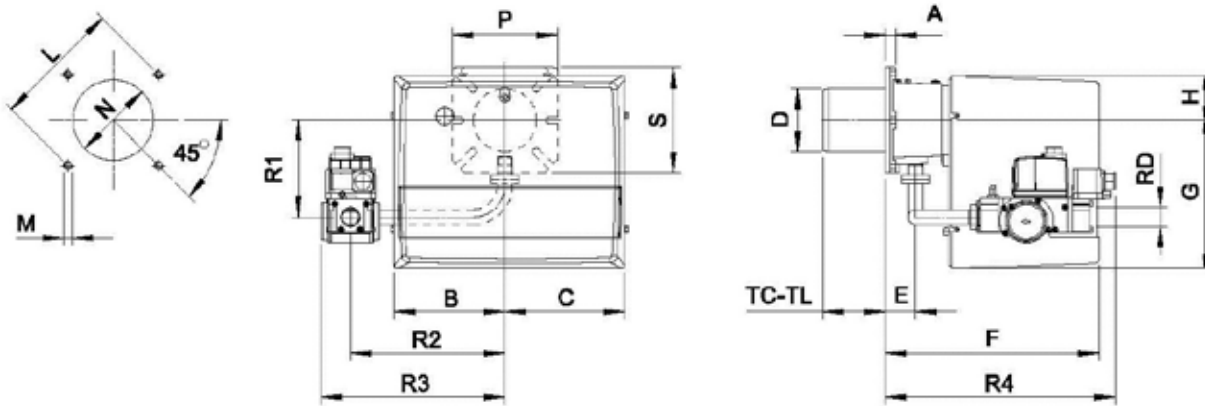
**4**

## Gas/Light Oil - Gas/Gasolio



1 STAGE MONOSTADIO	kcal/h		kW		
	min	max	min	max	
GM X 0	19.500	29.500	22,6	34,3	1F
GM X 1	25.000	60.000	29	69,8	
GM X 3	50.000	130.000	58,1	151	
GM X 4	100.000	200.000	116	232	

### FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato																							
	A	B	C	D	E	F	G	H	L min	L*	L max	M	N min	N*	N max	P	S	TC	TL	R1	R2	R3	R4	RD
GM X 0 - D1/2" - S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	132	200	254	240	1/2"
GM X 1 - D1/2" - S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	132	200	254	240	1/2"
GM X 1 - D3/4" - S	15	162	175	90	43	305	210	65	130	150	170	M8	100	110	130	150	150	90	150	138	220	262	328	3/4"
GM X 3 - D1" - S	16	185	195	108	54	340	248	70	150	170	170	M8	120	130	140	190	150	130	250	168	280	337	361	1"
GM X 4 - D1" - S	20	185	195	125	78	368	248	70	170	205	226	M10	130	140	160	200	200	160	280	173	280	337	385	1"

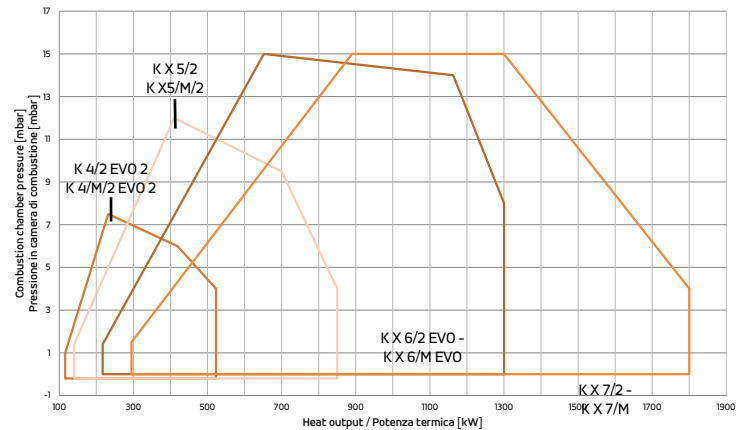
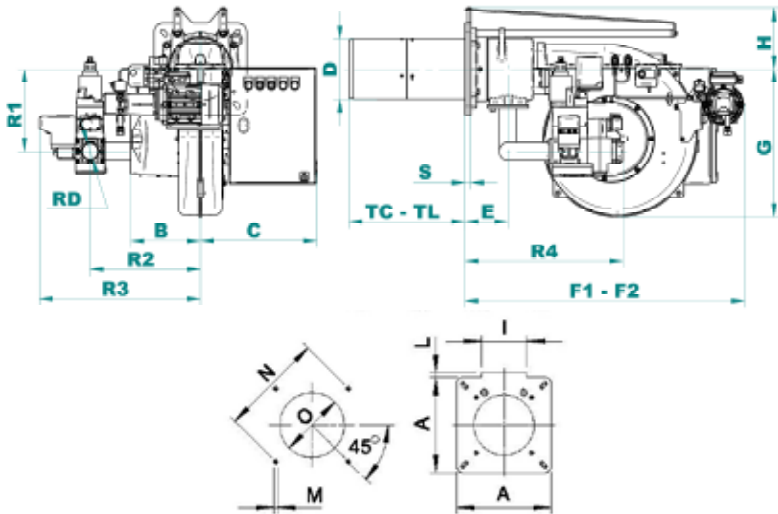
Gas/Light Oil - Gas/Gasolio



2 STAGES BISTADIO	PROGRESSIVE & MODULATING	kcal/h		kW		⚡
		min	max	min	max	
K 3/2	-	100.000	200.000	63,9/116	232	1F
K 4/2 EVO 2	K X 4/M/2 EL EVO 2	200.000	450.000	116/232	523	3F
K X 5/2 *	K X 5/M/2 EL *	352.600	731.000	140/410	850	
K X 6/2 EVO	K X 6/M EVO	561.000	1.118.000	217/652	1300	
K X 7/2	K X 7/M *	765.000	1.548.000	295/890	1800	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)

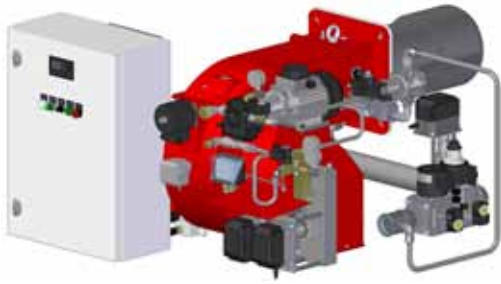


\* Suggested/Consigliato

MODEL MODELLO	A	B	C	D	E	F1	F2	G	H	I	L	M	N min	N max	o min*	O max	TC	TL	S	R1	R2	R3	R4	RD
K 3/2 - D1" - S	200	188	358	138	98	493	-	327	110	-	-	M10	205	226	150	-	250	350	18	171	280	411	354	1"
K 4/2 EVO 2 - D1" S	190	245	385	150	100	793	-	416	100	-	-	M10	205	226	160	-	250	350	20	193	360	418	445	1"
K 4/2 EVO 2 - D1" 1/4 - S	190	245	385	150	100	793	-	416	100	-	-	M10	205	226	160	-	250	350	20	193	360	418	445	1" 1/4
K 4/2 EVO 2 - D1" 1/2 - S	190	245	385	150	100	793	-	416	100	-	-	M10	205	226	160	-	250	350	20	193	360	438	445	1" 1/2
K 4/2 EVO 2 - D2" S	190	245	385	150	100	793	-	416	100	-	-	M10	205	226	160	-	250	350	20	193	360	418	445	2"
K X 5/2 - D1" - S	300	245	388	175	122	794	1234	416	171	144	10	M12	310	368	185	250	250	315	18	250	380	438	504	1"
K X 5/2 - D1" 1/4 - S	300	245	388	175	122	794	1234	416	171	144	10	M12	310	368	185	250	250	315	18	250	380	438	504	1" 1/4
K X 5/2 - D1" 1/2 - S	300	245	388	175	122	794	1234	416	171	144	10	M12	310	368	185	250	250	315	18	250	380	430	520	1" 1/2
K X 5/2 - D2" - S	300	245	388	175	122	794	1234	416	171	144	10	M12	310	368	185	250	250	315	18	250	380	430	520	2"
K X 6/2 EVO - D2" - S	320	240	402	209	148	963	1548	510	210	183	40	M14	340	368	220	250	280	400	20	284	380	555	545	2"
K X 7/2 - D2" - S	320	240	402	209	148	963	1548	510	210	183	40	M14	340	368	220	250	280	400	20	284	380	555	545	2"
K X 6/M EVO - D2" - FS50	320	398	402	209	148	1040	1624	510	213	183	40	M14	340	368	220	250	280	400	20	228	510	684	496	2"
K X 6/M EVO - DN65 - FS65	320	398	402	209	148	1040	1624	510	213	183	40	M14	340	368	220	250	280	400	20	228	510	686	541	DN65
K X 6/M EVO - DN80 - FS80	320	398	402	209	148	1040	1624	510	213	183	40	M14	340	368	220	250	280	400	20	228	550	740	578	DN80
K X 7/M - D2" - FS50	320	398	402	209	148	1040	1624	510	213	183	40	M14	340	368	220	250	280	400	20	228	510	686	496	2"
K X 7/M - DN65 - FS65	320	398	402	209	148	1040	1624	510	213	183	40	M14	340	368	220	250	280	400	20	228	510	686	541	DN65
K X 7/M - DN80 - FS80	320	398	402	209	148	1040	1624	510	213	183	40	M14	340	368	220	250	280	400	20	228	550	740	578	DN80

F2= overall dimension with the burner out in position of maintenance  
F2= ingombro a bruciatore arretrato in posizione di manutenzione

## Gas/Light Oil - Gas/Gasolio

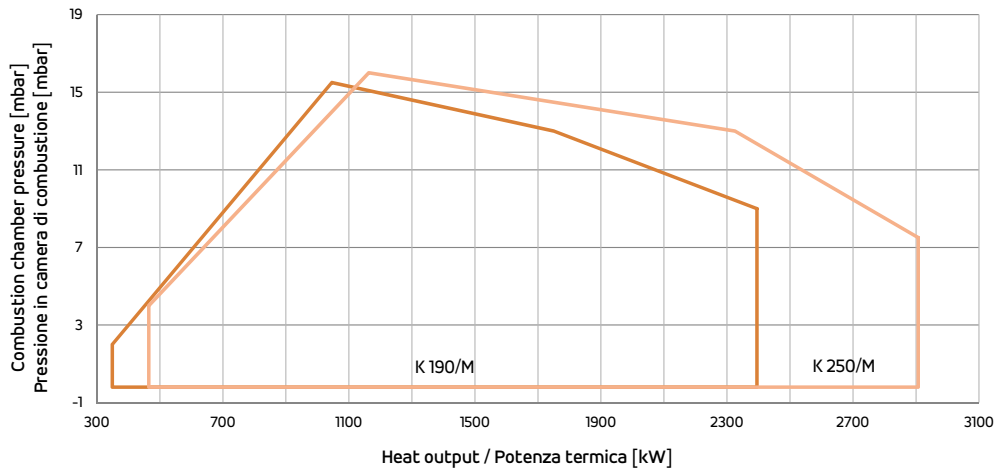
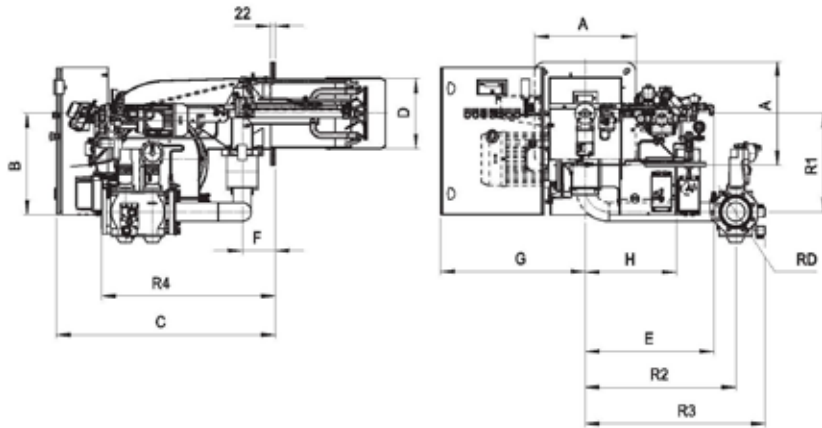


PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		3F
	min	max	min	max	
K 190/M EL * °	900.000	2.060.000	349/1046	2395	
K 250/M EL * °	1.000.000	2.500.000	465/1163	2907	

\* Available also in Low NOx version  
\* Disponibili anche in versione Low NOx

- ° Available also special versions with INVERTER
- ° Fornibili anche in versioni speciali con INVERTER

### FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato																			
	A	B	C	D	TL	F	G	H	I min	I*	I max	M	N min	N*	N max	R1	R2	R3	R4	RD
K 190/M EL - D2" - FS50	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	600	610	700	254	2"
K 190/M EL - DN65 - FS65	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	688	630	730	254	DN65
K 190/M EL - DN80 - FS80	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	708	630	745	254	DN80
K 190/M EL - DN100 - FS100	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	748	630	752	254	DN100
K 250/M EL - D2" - FS50	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	600	610	700	254	2"
K 250/M EL - DN65 - FS65	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	688	630	730	254	DN65
K 250/M EL - DN80 - FS80	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	708	630	745	254	DN80
K 250/M EL - DN100 - FS100	360	460	900	265	481	145	545	363	280	280	320	M14	396	424	438	748	630	752	254	DN100



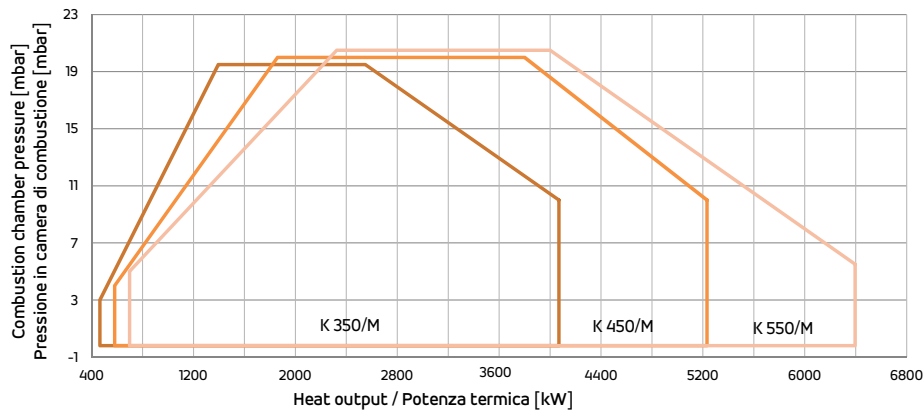
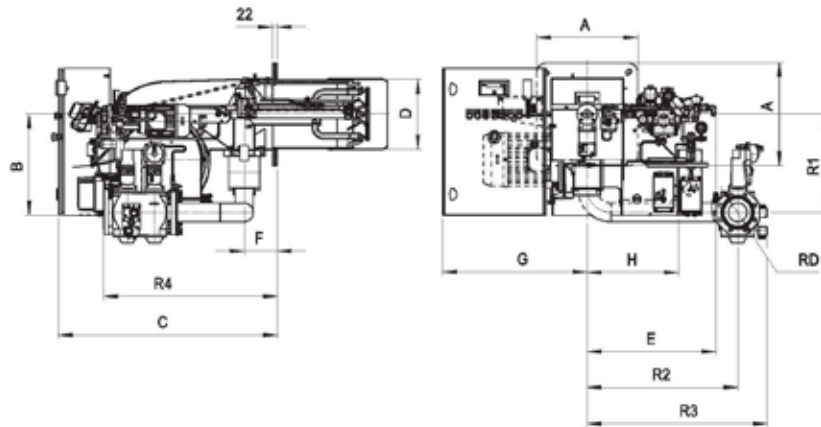
## Gas/Light Oil - Gas/Gasolio



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		3F
	min	max	min	max	
K 350/M EL * °	1.200.000	3.500.000	465/1395	4070	3F
K 450/M EL * °	1.600.000	4.500.000	581/1860	5232	
K 550/M EL * °	2.000.000	5.500.000	698/2325	6395	

- \* Available also in Low NOx version
- \* Disponibili anche in versione Low NOx
- ° Available also special versions with INVERTER
- ° Fornibili anche in versioni speciali con INVERTER

### FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



MODEL MODELLO	* Suggested/Consigliato																			
	A	B	C	D	TL	F	G	H	I min	I*	I max	M	min	N*	max	R1	R2	R3	R4	RD
K 350/M EL - D2" - FS50	490	481	1090	334	535	160	600	440	350	350	450	M14	552	552	580	740	795	935	317	D2"
K 350/M EL - DN65 - FS65	490	481	1090	334	535	160	600	440	350	350	450	M14	552	552	580	780	795	965	317	DN65
K 350/M EL - DN80 - FS80	490	481	1090	334	535	160	600	440	350	350	450	M14	552	552	580	800	795	980	317	DN80
K 350/M EL - DN100 - FS100	490	481	1090	334	535	160	600	440	350	350	450	M14	552	552	580	838	795	1010	317	DN100
K 450/M EL - D2" - FS50	490	481	1090	380	560	160	600	440	390	390	450	M14	552	552	580	740	795	935	317	D2"
K 450/M EL - DN65 - FS65	490	481	1090	380	560	160	600	440	390	390	450	M14	552	552	580	780	795	965	317	DN65
K 450/M EL - DN80 - FS80	490	481	1090	380	560	160	600	440	390	390	450	M14	552	552	580	800	795	980	317	DN80
K 450/M EL - DN100 - FS100	490	481	1090	380	560	160	600	440	390	390	450	M14	552	552	580	838	795	1010	317	DN100
K 550/M EL - D2" - FS50	490	481	1090	380	560	160	661	440	390	410	450	M14	552	552	580	740	795	935	317	D2"
K 550/M EL - DN65 - FS65	490	481	1090	380	560	160	661	440	390	410	450	M14	552	552	580	780	795	965	317	DN65
K 550/M EL - DN80 - FS80	490	481	1090	380	560	160	661	440	390	410	450	M14	552	552	580	800	795	980	317	DN80
K 550/M EL - DN100 - FS100	490	481	1090	380	560	160	661	440	390	410	450	M14	552	552	580	838	795	1010	317	DN100

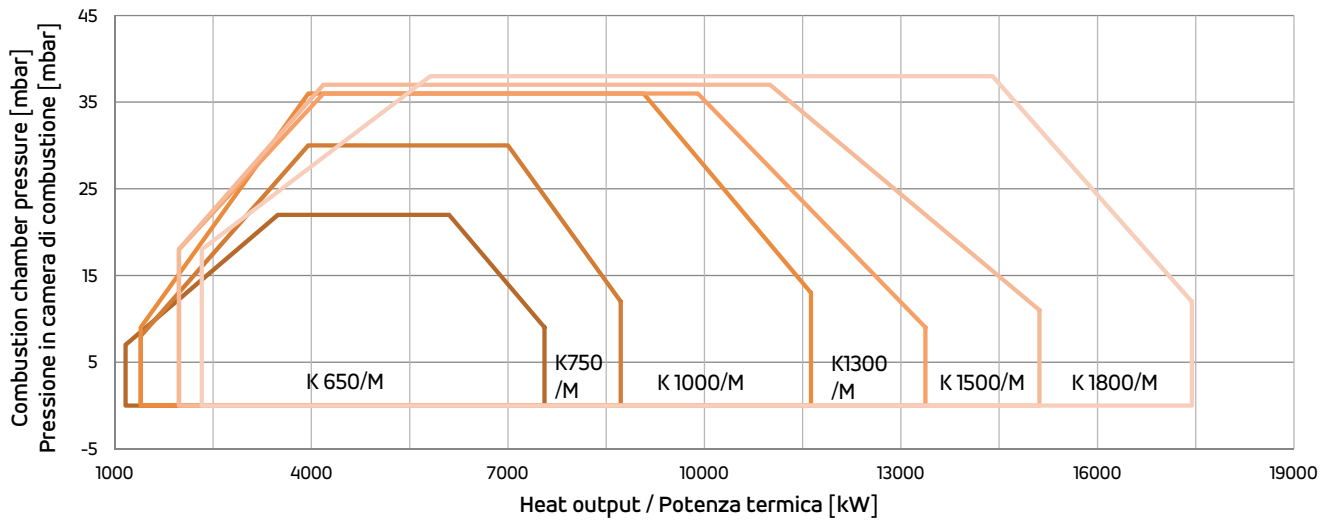
## Gas/Light Oil - Gas/Gasolio



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		
	min	max	min	max	
K 650/M EL *	3.000.000	6.500.000	1163/3488	7558	3F
K 750/M EL *	3.400.000	7.500.000	1395/3953	8721	
K 1000/M EL *	3.400.000	10.000.000	1395/3953	11628	
K 1300/M EL *	3.600.000	11.500.000	1977/4186	13372	
K 1500/M EL *	3.600.000	13.000.000	1977/4186	15116	
K 1800/M EL *	5.000.000	15.000.000	2325/5815	17442	

\* Available also versions with INVERTER  
 \* Fornibili anche in versioni speciali con INVERTER

### FIRING RATES - CAMPO DI LAVORO



Please contact our Technical & Sales Offices for detailed technical data.

Vi invitiamo a contattare i ns. Uffici Tecnico-Commerciali per i dati tecnici di dettaglio.

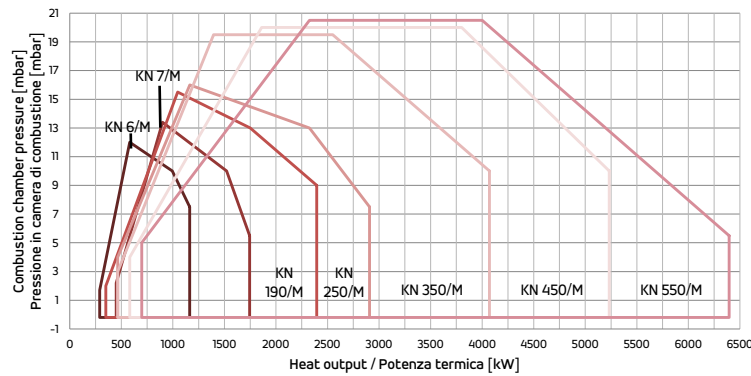
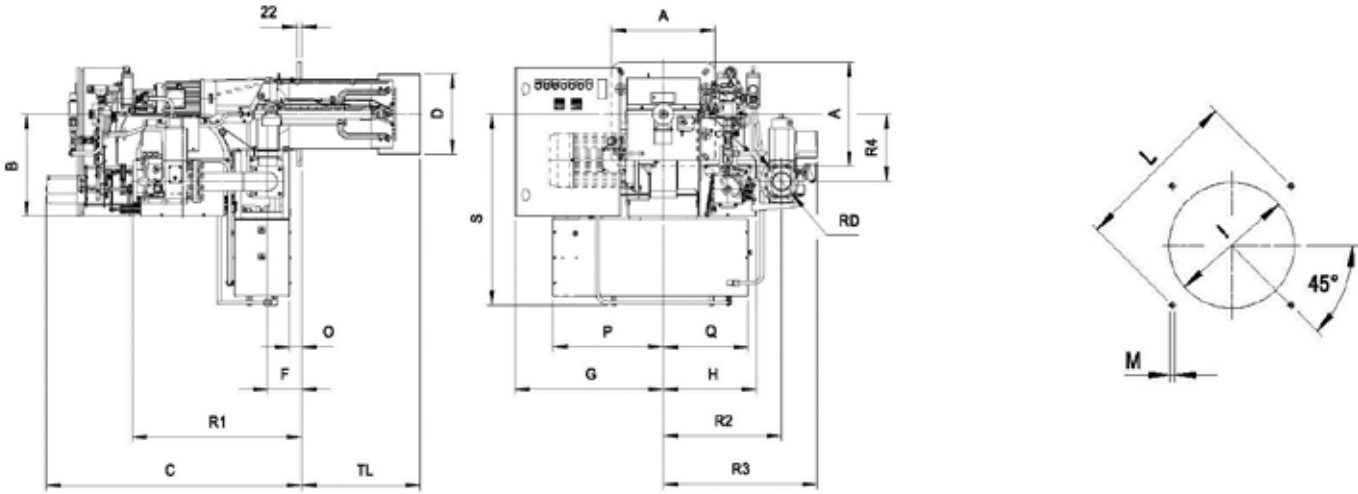
Gas/Heavy oil - Gas/Olio Combustibile



2 STAGES BISTADIO	PROGRESSIVE & MODULATING	kcal/h		kW		3F
		min	max	min	max	
KN 6/2 EL	KN 6/M EL *	500.000	1.000.000	290/581	1163	
KN 7/2 EL	KN 7/M EL *	770.000	1.500.000	450/900	1744	
-	KN 190/M EL *	900.000	2.019.000	349/1046	2347	
-	KN 250/M EL *	1.000.000	2.500.000	465/1163	2907	
-	KN 350/M EL *	1.200.000	3.500.000	465/1395	4070	
-	KN 450/M EL *	1.600.000	4.500.000	581/1860	5232	
-	KN 550/M EL *	2.000.000	5.500.000	698/2325	6395	

\* Available also versions with INVERTER  
\* Fornibili anche in versioni speciali con INVERTER

FIRING RATES / OVERALL DIMENSIONS (mm) - CAMPO DI LAVORO / DIMENSIONI (mm)



\* Suggested/Consigliato

MODEL MODELLO	A	B	C	D	F	G	H	I min	I* I max	L min	L* L max	M14	O	P	Q	S	TL	R1	R2	R3	R4	RD		
KN 190/M EL - D2" - FS50	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	600	610	700	260	2"
KN 190/M EL - DN65 - FS65	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	688	630	730	260	DN65
KN 190/M EL - DN80 - FS80	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	708	630	745	260	DN80
KN 190/M EL - DN100 - FS100	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	748	630	752	260	DN100
KN 250/M EL - D2" - FS50	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	600	610	700	260	2"
KN 250/M EL - DN65 - FS65	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	688	630	730	260	DN65
KN 250/M EL - DN80 - FS80	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	708	630	745	260	DN80
KN 250/M EL - DN100 - FS100	360	460	900	265	145	545	363	280	280	320	396	424	438	M14	93	403	403	790	480	748	630	752	260	DN100

° Dimensions on request.  
° Dimensioni su richiesta.

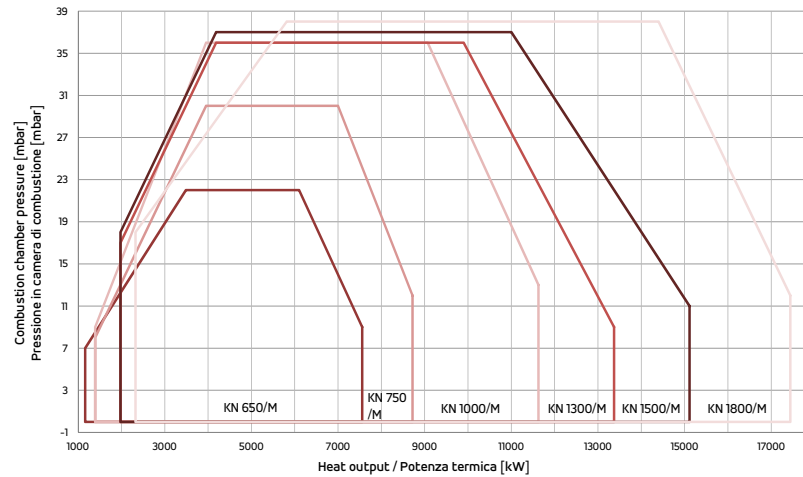
## Gas/Heavy oil - Gas/Olio Combustibile



PROGRESSIVE & MODULATING PROGRESSIVI E MODULANTI	kcal/h		kW		3F
	min	max	min	max	
KN 650/M EL *	3.000.000	6.500.000	1163/3488	7558	3F
KN 750/M EL *	3.400.000	7.500.000	1395/3953	8721	
KN 1000/M EL *	3.400.000	10.000.000	1395/3953	11628	
KN 1300/M EL *	3.600.000	11.500.000	1977/4186	13372	
KN 1500/M EL *	3.600.000	13.000.000	1977/4186	15116	
KN 1800/M EL *	5.000.000	15.000.000	2325/5814	17442	

\* Available also versions with INVERTER  
 \* Fornibili anche in versioni speciali con INVERTER

### FIRING RATES - CAMPO DI LAVORO



MODEL MODELLO	* Suggested/Consigliato																							
	A	B	C	D	F	G	H	I min	I*	I max	L min	L*	L max	M14	O	P	Q	S	TL	R1	R2	R3	R4	RD
KN 350/M EL - D2" - FS50	490	481	1090	334	160	600	440	350	350	450	552	552	580	M14	57	523	405	762	535	740	795	935	317	2"
KN 350/M EL - DN65 - FS65	490	481	1090	334	160	600	440	350	350	450	552	552	580	M14	57	523	405	762	535	780	795	965	317	DN65
KN 350/M EL - DN80 - FS80	490	481	1090	334	160	600	440	350	350	450	552	552	580	M14	57	523	405	762	535	800	795	980	317	DN80
KN 350/M EL - DN100 - FS100	490	481	1090	334	160	600	440	350	350	450	552	552	580	M14	57	523	405	762	535	838	795	1010	317	DN100
KN 450/M EL - D2" - FS50	490	481	1090	380	160	700	440	390	390	450	552	552	580	M14	57	523	405	905	560	740	795	935	317	2"
KN 450/M EL - DN65 - FS65	490	481	1090	380	160	700	440	390	390	450	552	552	580	M14	57	523	405	905	560	780	795	965	317	DN65
KN 450/M EL - DN80 - FS80	490	481	1090	380	160	700	440	390	390	450	552	552	580	M14	57	523	405	905	560	800	795	980	317	DN80
KN 450/M EL - DN100 - FS100	490	481	1090	380	160	700	440	390	390	450	552	552	580	M14	57	523	405	905	560	838	795	1010	317	DN100
KN 550/M EL - D2" - FS50	490	481	1090	380	160	700	440	390	410	450	552	552	580	M14	57	523	405	905	560	740	795	935	317	2"
KN 550/M EL - DN65 - FS65	490	481	1090	380	160	700	440	390	410	450	552	552	580	M14	57	523	405	905	560	780	795	965	317	DN65
KN 550/M EL - DN80 - FS80	490	481	1090	380	160	700	440	390	410	450	552	552	580	M14	57	523	405	905	560	800	795	980	317	DN80
KN 550/M EL - DN100 - FS100	490	481	1090	380	160	700	440	390	410	450	552	552	580	M14	57	523	405	905	560	838	795	1010	317	DN100

Please contact our Technical & Sales Offices for detailed technical data.

Vi invitiamo a contattare i ns. Uffici Tecnico-Commerciali per i dati tecnici di dettaglio.

## INDUSTRIAL BURNERS BRUCIATORI INDUSTRIALI

Industrial burners are designed for residential plants and industrial processes that need high heating powers. The actual range is characterized by duo block burners with separated ventilator to be installed based on specific and real technical needs (ventilator not included).

When a significant amount of heating is needed, a single ventilator is able to work for more industrial burners, simplifying the entire heating plant. It's possible to use pre-heated combustion air, taking advantage of heat recovery from flue gases.

Available for the use of different types of fuel (light oil, heavy oil, natural gas, LPG), the industrial burners can be customized based on final plant characteristics and Your real needs.

Thanks to last technical innovations, the industrial burners are easy to be installed. Available both mechanical and electronic version.

Please contact our Technical & Sales Offices for the study of Your specific needs.

Le testate industriali sono progettate per impianti civili e processi industriali che richiedono grandi potenze termiche. La gamma sviluppata si caratterizza per la predisposizione all'installazione del ventilatore dissociato, da abbinare separatamente sulla base delle specifiche tecniche.

Nelle situazioni di rilevante fabbisogno termico, un singolo ventilatore può asservire più testate industriali, conseguendo la semplificazione dell'impianto. È possibile impiegare aria comburente preriscaldata, sfruttando il recupero termico proveniente dai gas di scarico della caldaia.

Disponibili per l'utilizzo dei diversi tipi di combustibile (gasolio, olio combustibile, gas metano, G.P.L.), sono personalizzabili in funzione delle caratteristiche dell'impianto finale e delle Vostre reali esigenze.

Le recenti innovazioni rendono le testate industriali di facile installazione. Disponibili anche nella versione con camma meccanica e camma elettronica.

Vi invitiamo a contattare i ns. Uffici Tecnico-Commerciali per lo studio delle Vostre applicazioni specifiche.

# 5

## LIGHT OIL BURNERS / BRUCIATORI DI GASOLIO

MODEL MODELLO	kg/h		kW		⚡
	min	max	min	max	
HI-FGP 190/M TL	60	206	712	2443	3F
HI-FGP 250/M TL	80	250	949	2965	
HI-FGP 350/M TL	120	350	1423	4151	
HI-FGP 450/M TL	160	450	1898	5337	
HI-FGP 550/M TL	200	550	2372	6523	
HI-FGP 650/M TL	294	637	3488	7558	
HI-FGP 750/M TL	333	735	3953	8721	
HI-FGP 1000/M TL	333	980	3953	11628	
HI-FGP 1300/M TL	353	1127	4186	13372	
HI-FGP 1500/M TL	353	1274	4186	15116	
HI-FGP 1800/M TL	490	1471	5814	17442	





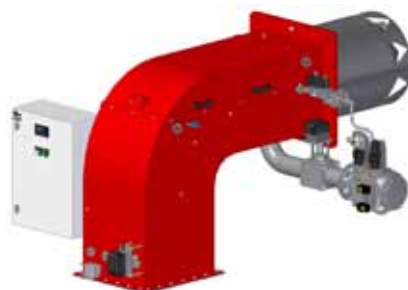
## HEAVY OIL BURNER / BRUCIATORI DI OLIO COMBUSTIBILE

MODEL MODELLO	kg/h		kW		⚡
	min	max	min	max	
HI-FNDP 190/M TL	80	206	911	2347	3F
HI-FNDP 250/M TL	100	250	1139	2849	
HI-FNDP 350/M TL	120	350	1367	3988	
HI-FNDP 450/M TL	160	450	1823	5128	
HI-FNDP 550/M TL	200	550	2279	6267	
HI-FNDP 650/M TL	306	663	3488	7558	
HI-FNDP 750/M TL	347	765	3953	8721	
HI-FNDP 1000/M TL	347	1020	3953	11628	
HI-FNDP 1300/M TL	367	1173	4186	13372	
HI-FNDP 1500/M TL	367	1326	4186	15116	
HI-FNDP 1800/M TL	510	1531	5814	17442	




## GAS BURNERS / BRUCIATORI DI GAS

MODEL MODELLO	kcal/h 		kW		
	min	max	min	max	
HI-GAS P190/M CE TL	900.000	1.900.000	1046	2209	3F
HI-GAS P250/M CE TL	1.000.000	2.500.000	1163	2907	
HI-GAS P300/M CE TL	1.200.000	3.000.000	1395	3488	
HI-GAS P350/M CE TL	1.200.000	3.500.000	1395	4070	
HI-GAS P450/M CE TL	1.600.000	4.500.000	1850	5232	
HI-GAS P550/M CE TL	2.000.000	5.500.000	2325	6395	
HI-GAS P650/M CE TL	3.000.000	6.500.000	3488	7558	
HI-GAS P750/M CE TL	3.400.000	7.500.000	3953	8721	
HI-GAS P1000/M CE TL	3.400.000	10.000.000	3953	11628	
HI-GAS P1300/M CE TL	3.600.000	11.500.000	4186	13372	
HI-GAS P1500/M CE TL	3.600.000	13.000.000	4186	15116	
HI-GAS P1800/M CE TL	5.000.000	15.000.000	5814	17442	
HI-GAS P2100/M CE TL	6.020.000	18.060.000	7000	21000	



## DUAL FUEL BURNERS / BRUCIATORI MISTI

GAS / LIGHT OIL GAS / GASOLIO	kcal/h 		kW		
	min	max	min	max	
HI-K 190/M TL	900.000	2.060.000	1046	2395	3F
HI-K 250/M TL	900.000	2.500.000	1163	2907	
HI-K 350/M TL	1.200.000	3.500.000	1395	4070	
HI-K 450/M TL	1.600.000	4.500.000	1860	5232	
HI-K 550/M TL	2.000.000	5.500.000	2325	6395	
HI-K 650/M TL	3.000.000	6.500.000	3488	7558	
HI-K 750/M TL	3.400.000	7.500.000	3953	8721	
HI-K 1000/M TL	3.400.000	10.000.000	3953	11628	
HI-K 1300/M TL	3.600.000	11.500.000	4186	13372	
HI-K 1500/M TL	3.600.000	13.000.000	4186	15116	
HI-K 1800/M TL	5.000.000	15.000.000	5814	17442	

GAS / HEAVY OIL GAS / OLIO COMBUSTIBILE	kcal/h 		kW		
	min	max	min	max	
HI-KN 190/M TL	900.000	2.060.000	1046	2395	3F
HI-KN 250/M TL	900.000	2.500.000	1163	2907	
HI-KN 350/M TL	1.200.000	3.500.000	1395	4070	
HI-KN 450/M TL	1.600.000	4.500.000	1860	5232	
HI-KN 550/M TL	2.000.000	5.500.000	2325	6395	
HI-KN 650/M TL	3.000.000	6.500.000	3488	7558	
HI-KN 750/M TL	3.400.000	7.500.000	3953	8721	
HI-KN 1000/M TL	3.400.000	10.000.000	3953	11628	
HI-KN 1300/M TL	3.600.000	11.500.000	4186	13372	
HI-KN 1500/M TL	3.600.000	13.000.000	4186	15116	
HI-KN 1800/M TL	5.000.000	15.000.000	5814	17442	

The illustrations and data here shown are indicative. Being constantly involved in the continuous improvement of the whole production range, F.B.R. Bruciatori S.r.l. reserves the right to bring, without any obligation of warning, any changes that would be appropriate to the continuing development of their products.

Le illustrazioni e i dati riportati sono indicativi. Essendo F.B.R. Bruciatori S.r.l. costantemente impegnata nel continuo perfezionamento di tutta la produzione, si riserva il diritto di apportare, senza obbligo di preavviso, tutte le modifiche che riterrà più opportune, per l'evoluzione dei propri prodotti.



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