



TWO STAGE LIGHT OIL BURNERS

► PRESS G SERIES

► PRESS GW	107/178 ÷ 356 kW
► PRESS 1G	130/190 ÷ 534 kW
► PRESS 2G	214/356 ÷ 712 kW
► PRESS 3G	273/534 ÷ 1168 kW
► PRESS 4G	415/830 ÷ 1660 kW



The PRESS G series of burners covers a firing range from 107 to 1660 kW and they have been designed for use in civil installations of average dimensions, like building areas and large apartment groups or for use in industrial applications, like small or medium plants.

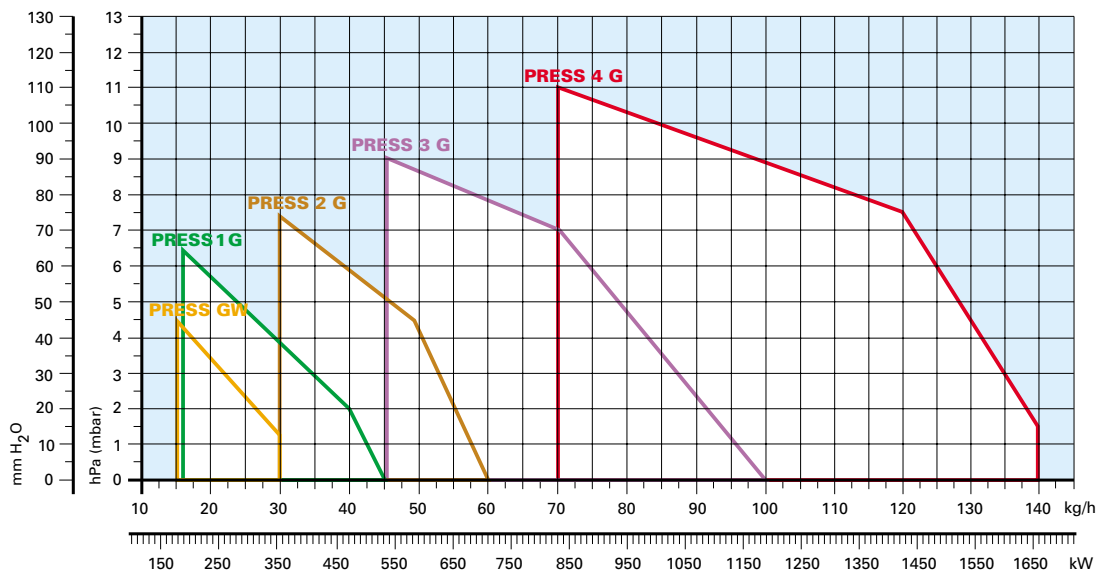
Operation is two stage; the combustion head, that can be set on the basis of required output, allows optimal performance ensuring good combustion and reducing fuel consumption.

The main feature of these burners is their reliability due to a simple and strong construction, that permits

operation without particular maintenance intervention.

Simplified maintenance is achieved by the slide bar system, which allows easy access to all of the essential components of the combustion head. All electrical components are easily accessible only by dismounting a protection panel, thus guaranteeing a quick and simple intervention on components.

FIRING RATES

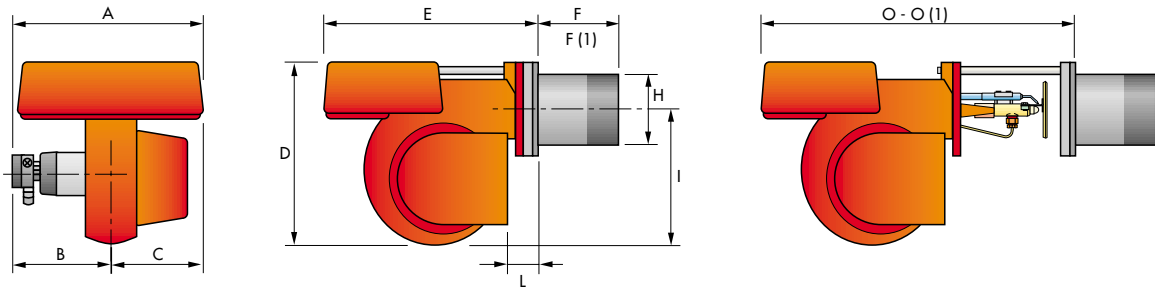


□ Useful working field for choosing the burner

Test conditions conforming to EN 267:
 Temperature: 20°C
 Pressure: 1000 mbar
 Altitude: 100 m a.s.l.

PRESS G series - OVERALL DIMENSIONS (mm)

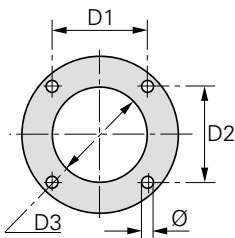
BURNER



Model	A	B	C	D	E	F - F (1)	H	I	L	O - O (1)
▶ PRESS GW	439	234	205	397	473	185 - 320	140	292	59	745 - 880
▶ PRESS 1G	475	270	205	397	473	237 - 370	150	292	59	745 - 880
▶ PRESS 2G	475	270	205	437	506	245 - 403	155	332	89	785 - 945
▶ PRESS 3G	611	406	205	485	570	254 - 412	175	370	88	846 - 1006
▶ PRESS 4G	675	354	316	590	720	266 - 426	205	445	175	999 - 1159

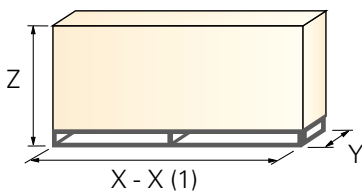
(1) Length with extended combustion head.

BURNER - BOILER MOUNTING FLANGE



Model	D1	D2	D3	Ø
▶ PRESS GW	160	160	155	M10
▶ PRESS 1G	160	160	165	M10
▶ PRESS 2G	160	160	165	M10
▶ PRESS 3G	195	195	185	M12
▶ PRESS 4G	230	230	210	M12

PACKAGING

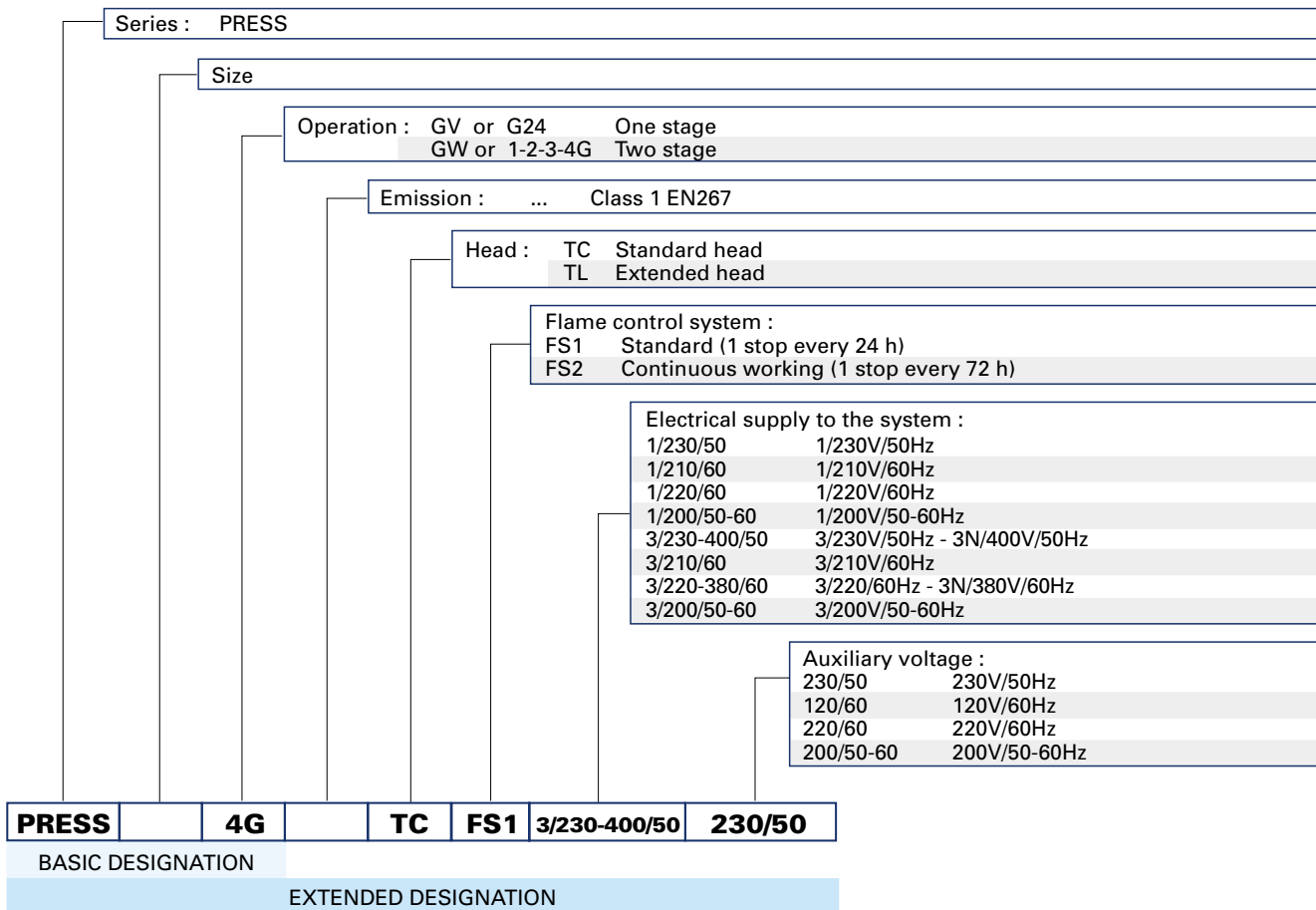


Model	X - X (1)	Y	Z	kg
▶ PRESS GW	695	542	468	37
▶ PRESS 1G	745	542	468	44
▶ PRESS 2G	800	542	515	44
▶ PRESS 3G	905	680	563	55
▶ PRESS 4G	1045	727	660	95

(1) Length with extended combustion head.

PRESS G series - SPECIFICATION

DESIGNATION OF SERIES



PRESS G series - STATE OF SUPPLY

- Monoblock forced draught oil burner with two stage operation, fully automatic, made up of:
- Air suction circuit lined with sound-proofing material
 - Fan with forward curve blades with high performance concerning pressure and air delivery
 - Air damper for air setting
 - Hydraulic ram for air damper control
 - Starting motor at 2800 rpm, three-phase 400V with neutral, 50Hz (single-phase, 230V and 50Hz for the PRESS GW model)
 - Combustion head, that can be set on the basis of required output, fitted with:
 - stainless steel end cone, resistant to corrosion and high temperatures
 - ignition electrodes
 - flame stability disk
 - Fan pressure test point
 - Gears pump for high pressure fuel supply, fitted with:
 - filter
 - pressure regulator
 - connections for installing a pressure gauge and vacuumeter
 - internal by-pass for single pipe installation
 - Valve unit with two delivery oil valves on the output circuit
 - Photocell for flame detection
 - Microprocessor-based flame control panel, with diagnostic function
 - Slide bars for easier installation and maintenance
 - Protection filter against radio interference
 - IP 44 electric protection level.

Standard equipment:

- 2 flexible pipes for connection to the oil supply network
- 2 gaskets for the flexible pipes
- 2 nipples for connection to the pump
- 4 screws for fixing the burner flange to the boiler
- 1 thermal screen
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

► PRESS G series - AVAILABLE BURNER MODELS

Code	Model					Heat output		Total electrical power (kW)	Certification	Note	Price
						(kW)	(kg/h)				
3473754	PRESS GBW	TC	FS1	1/230/50	230/50	107/178-356	9/15-30	0,43	-	(1)	
3473787	PRESS GW	TC	FS1	1/200/50-60	200/50-60	107/178-356	9/15-30	0,6	-	(1)	
3473784	PRESS GW	TC	FS1	1/220/60	220/60	107/178-356	9/15-30	0,4	-	(1)	
3473720	PRESS GW	TC	FS1	1/230/50	230/50	107/178-356	9/15-30	0,43	-	(1)	
3474587	PRESS 1G	TC	FS1	3/200/50-60	200/50-60	130/190-534	11/16-45	0,6	-	(1)	
3474582	PRESS 1G	TC	FS1	3/220-380/60	220/60	130/190-534	11/16-45	0,6	-	(1)	
3474520	PRESS 1G	TC	FS1	3/230-400/50	230/50	130/190-534	11/16-45	0,6	-	(1)	
3474987	PRESS 2G	TC	FS1	3/200/50-60	200/50-60	214/356-712	18/30-60	0,85	-	(1)	
3474982	PRESS 2G	TC	FS1	3/220-380/60	220/60	214/356-712	18/30-60	0,85	-	(1)	
3474920	PRESS 2G	TC	FS1	3/230-400/50	230/50	214/356-712	18/30-60	1,1	-	(1)	
3475987	PRESS 3G	TC	FS1	3/200/50-60	200/50-60	273/534-1186	23/45-100	2,05	-	(1)	
3475982	PRESS 3G	TC	FS1	3/220-380/60	220/60	273/534-1186	23/45-100	2,05	-	(1)	
3475920	PRESS 3G	TC	FS1	3/230-400/50	230/50	273/534-1186	23/45-100	2,05	-	(1)	
3476587	PRESS 4G	TC	FS1	3/200/50-60	200/50-60	415/830-1660	35/70-140	3,8	-	(1)	
3476582	PRESS 4G	TC	FS1	3/220-380/60	220/60	415/830-1660	35/70-140	3,8	-	(1)	
3476520	PRESS 4G	TC	FS1	3/230-400/50	230/50	415/830-1660	35/70-140	3,8	-	(1)	

(1) Air damper open during stop

Net calorific value: 11,8 kWh/kg - 10200 kcal/kg - Viscosity at 20°C: 4÷6 mm²/s (cSt)

The burners of PRESS series are in according to 89/336 - 73/23 - 92/42 - EEC Directive and EN 267 Norm.

PRESS G series - BURNER ACCESSORIES

Nozzles type 60° B

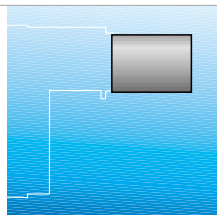


The nozzles must be ordered separately. The following table shows the features and codes on the basis of the maximum required fuel output.

NOTE: each burner is equipped with N° 2 nozzles.

Burner	Rated delivery [kg/h] at 12 bar	GPH	Nozzle code	Price
PRESS GW - 1G	8,5	2,00	3042126	
PRESS GW - 1G	10,6	2,50	3042140	
PRESS GW - 1G	12,7	3,00	3042158	
PRESS GW - 1G	14,8	3,50	3042162	
PRESS GW - 1G - 2G	17	4,00	3042172	
PRESS 1G - 2G	19,1	4,50	3042182	
PRESS 1G - 2G	21,2	5,00	3042192	
PRESS 1G - 2G	23,3	5,50	3042202	
PRESS 2G - 3G	25,5	6,00	3042212	
PRESS 2G - 3G	27,6	6,50	3042222	
PRESS 2G - 3G	29,7	7,00	3042232	
PRESS 3G	31,8	7,50	3042242	
PRESS 3G	33,9	8,00	3042252	
PRESS 3G	36,1	8,50	3042262	
PRESS 3G - 4G	40,3	9,50	3042282	
PRESS 3G - 4G	42,4	10,00	3042292	
PRESS 3G - 4G	46,7	11,00	3042312	
PRESS 3G - 4G	50,9	12,00	3042322	
PRESS 4G	55,1	13,00	3042332	
PRESS 4G	59,4	14,00	3042352	
PRESS 4G	63,6	15,00	3042362	
PRESS 4G	67,9	16,00	3042382	
PRESS 4G	72,1	17,00	3042392	
PRESS 4G	76,4	18,00	3042412	

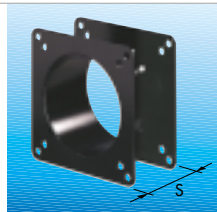
Extended head kit



"Standard head" burners can be transformed into "extended head" versions, by using the special kit.

Burner	Standard head length (mm)	Extended head length (mm)	Kit code	Price
PRESS GW	185	320	3000581	
PRESS 1G	237	370	3000537	
PRESS 2G	245	403	3000538	
PRESS 3G	254	412	3000851	
PRESS 4G	266	426	3000555	

Spacer kit



If burner head penetration into the combustion chamber needs reducing, varying thickness spacers are available, as given in the following list.

Burner	Spacer thickness S (mm)	Kit code	Price
PRESS GW PRESS 1G - 2G - 3G - 4G	142	3000755	

PRESS G series - BURNER ACCESSORIES

Sound proofing box



Burner	Box type	Average noise reduction [dB(A)]	Box code	Price
PRESS GW - 1G - 2G	C1	8	3000776	
PRESS 3G	C3	14	3000778	
PRESS 4G	C4	14	3000779	

If noise emission needs reducing even further, sound-proofing boxes are available.

Degasing unit



Burner	Filter	Filtering degree (µm)	Degasing unit code	Price
PRESS GW PRESS 1G - 2G - 3G	with filter	50 - 75	3010055	
PRESS GW PRESS 1G - 2G - 3G	without filter	-	3010054	

To solve problem of air in the oil sucked, two versions of degasing unit are available.

Air damper complete closure kit



Burner	Kit code	Price
PRESS GW	3000853	
PRESS 1G	3000854	
PRESS 2G	3000855	
PRESS 3G	3000856	
PRESS 4G	3000857	

To minimize thermal dispersion caused by the stack draught sucking air from the fan's suction opening, an "air damper complete closure kit" is available.

This is composed by a hydraulic ram, which closes the air damper completely when the burner shuts down.

Interface adapter kit



Burner	Kit code	Price
PRESS GW - 1G - 2G - 3G - 4G	in progress	

To connect the flame control panel to a personal computer for the transmission of operation, fault signals and detailed service information, an interface adapter with PC software are available.