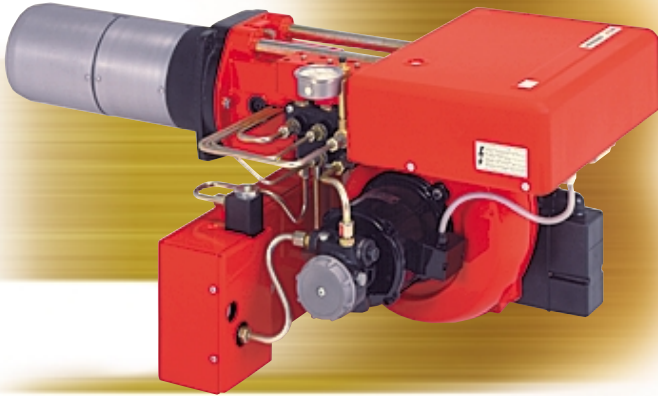




TWO STAGE HEAVY OIL BURNERS

► PRESS N SERIES

► PRESS 30 N	85/171 ÷ 342 kW
► PRESS 45 N	114/205 ÷ 513 kW
► PRESS 60 N	171/342 ÷ 684 kW
► PRESS 100 N	285/490 ÷ 1140 kW



The PRESS N series of burners covers a firing range from 85 to 1140 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; a servomotor adjust automatically air damper opening, to obtain the right air delivery on both stage.

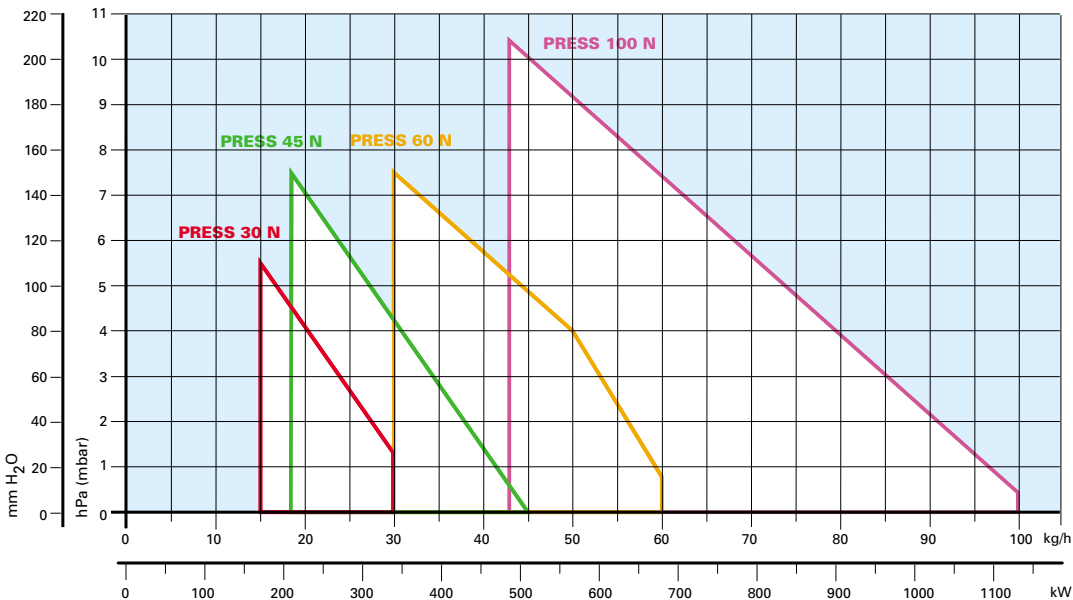
The combustion head, that can be set on the basis of required output, allows optimal performance ensuring good combustion and reducing fuel consumption and is available in two different length

to be selected on the basis of specific application requirements.

In basic version the burners are supplied for use with heavy oil 7°E viscosity, but they can be supplied with higher viscosity oil with a specific heaters kit.

Simplified maintenance is achieved by the slide bar system, which allows easy access to all of the essential components of the combustion head.

FIRING RATES

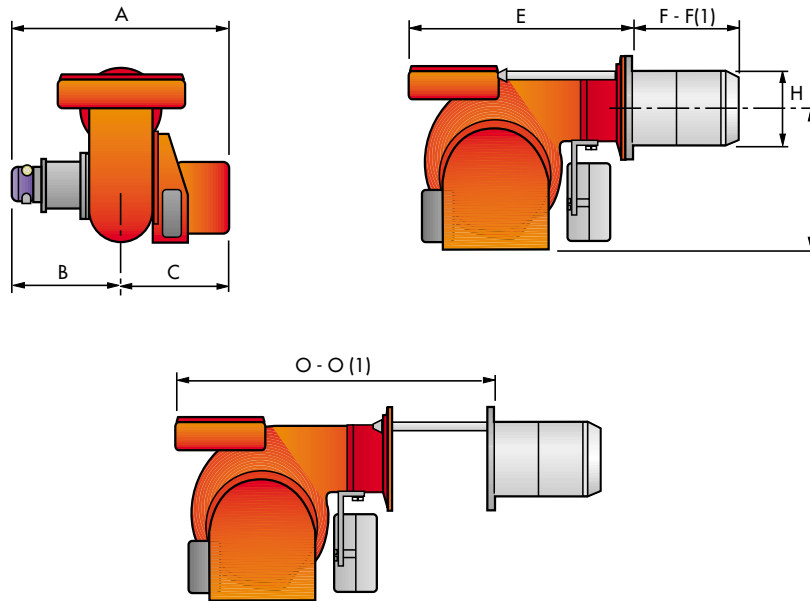


□ Useful working field for choosing the burner

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

PRESS N series - OVERALL DIMENSIONS (mm)

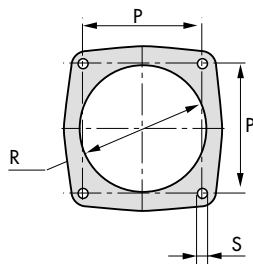
BURNER



Model	A	B	C	E	F - F(1)	H	I	O - O(1)
▶ PRESS 30 N	625	335	290	625	185 - 320	161	305	905 - 1080
▶ PRESS 45 N	625	335	290	625	235 - 370	161	305	925 - 1100
▶ PRESS 60 N	625	335	290	660	245 - 400	172	335	940 - 1115
▶ PRESS 100 N	625	335	290	710	250 - 410	195	370	1010 - 1195

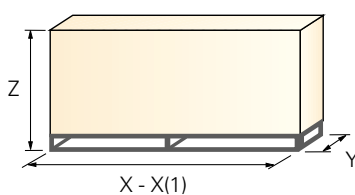
(1) Length with extended combustion head

BURNER - BOILER MOUNTING FLANGE



Model	P	R	S
▶ PRESS 30 N	160	170	M 10
▶ PRESS 45 N	160	170	M 10
▶ PRESS 60 N	160	180	M 10
▶ PRESS 100 N	195	205	M 12

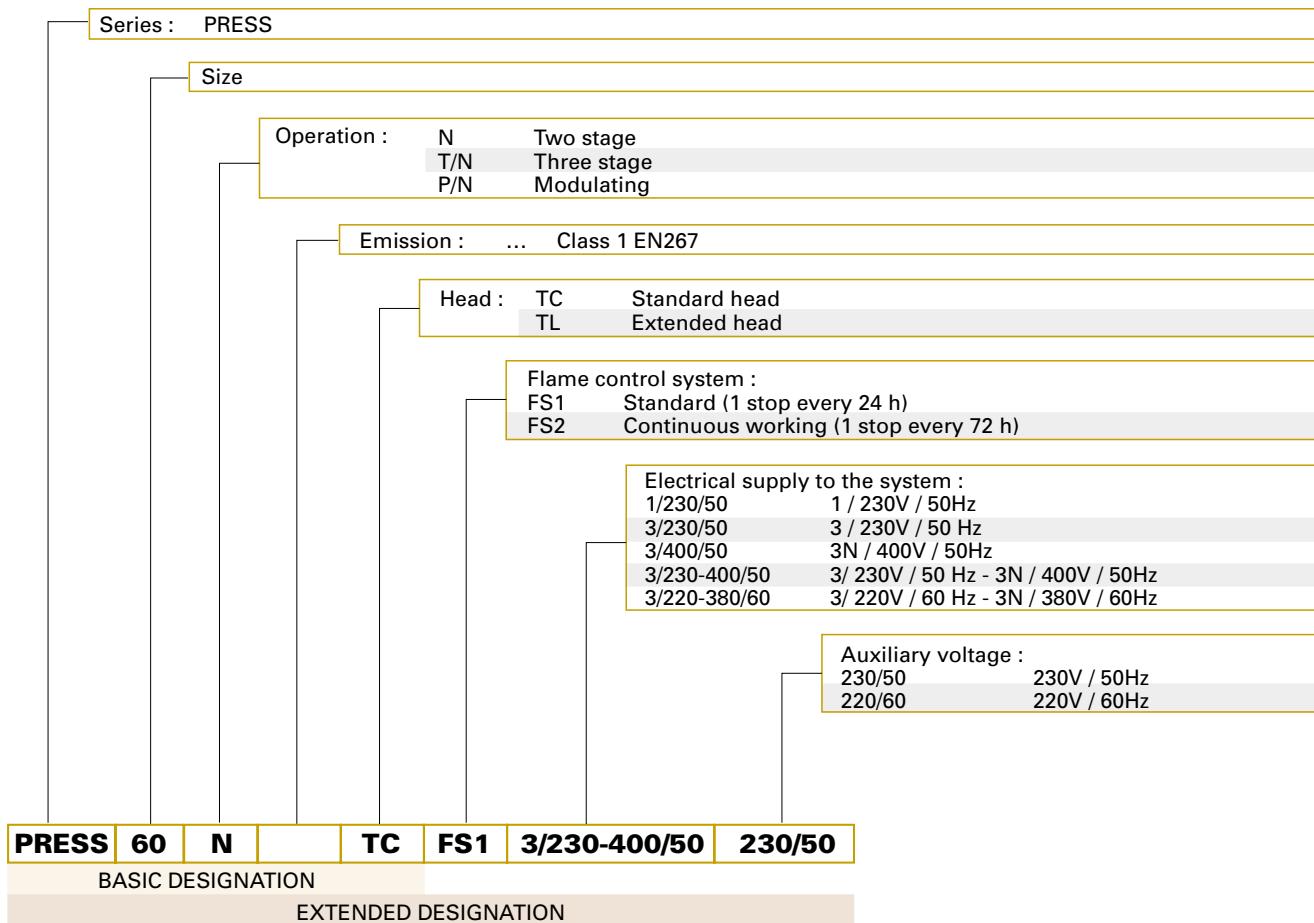
PACKAGING



Model	X - X(1)	Y	Z	kg
▶ PRESS 30 N	880 - 1015	690	622	84
▶ PRESS 45 N	880 - 1015	690	622	84
▶ PRESS 60 N	925 - 1095	760	652	87
▶ PRESS 100 N	985 - 1145	790	652	104

(1) Length with extended combustion head

PRESS N series - SPECIFICATION



► PRESS N series - STATE OF SUPPLY

Monoblock forced draught heavy oil burner, two stage operation, made up of:

- Air suction circuit
- Fan with forward curved blades
- Air dampers for air setting controlled by a servomotor
- Starting motor at 2850 rpm
- Combustion head, fitted with:
 - stainless steel end cone, resistant to corrosion and high temperatures
 - ignition electrodes
 - flame stability disk
- 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 a double oil safety valve on the output circuit;
- Oil preheater provided with chance of a thermometer application for temperature control;
- Servomotor for air damper regulation;
- Photocell for flame detection;
- Microprocessor-based flame control panel, with diagnostic function
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP 40 protection level.

Standard equipment:

- 2 flexible hoses for pipe connection
- 2 gaskets for flexible hoses
- 2 nipples for flexible hoses
- 1 thermal insulation screen
- 4 screws for fixing the burner flange to the boiler
- 2 nozzles (see table of available burner model)
- 2 extensions for bars (for long head version)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

PRESS N series - AVAILABLE BURNER MODELS

Code	Model					Heat output		Total electrical power kW	Certification	Note	Price
						(kW)	(kg/h)				
3433723	PRESS 30 N	TC	FS1	1/230/50	230/50	107/178-356	7,5/15-30	3,5	-	(1)	
3433724	PRESS 30 N	TL	FS1	1/230/50	230/50	107/178-356	7,5/15-30	3,5	-	(1)	
3433785	PRESS 30 N	TC	FS1	3/220-380/60	220/60	107/178-356	7,5/15-30	3,5	-		
3433786	PRESS 30 N	TL	FS1	3/220-380/60	220/60	107/178-356	7,5/15-30	3,5	-		
3434523	PRESS 45 N	TC	FS1	3/230-400/50	230/50	107/178-356	10/18-45	3,7	-	(1)	
3434524	PRESS 45 N	TL	FS1	3/230-400/50	230/50	118/190-356	10/18-45	3,7	-	(1)	
3434585	PRESS 45 N	TC	FS1	3/220-380/60	220/60	118/190-415	10/18-45	3,7	-		
3434586	PRESS 45 N	TL	FS1	3/220-380/60	220/60	130/190-534	10/18-45	3,7	-		
3434923	PRESS 60 N	TC	FS1	3/230-400/50	230/50	130/190-534	15/30-60	5,5	-	(1)	
3434924	PRESS 60 N	TL	FS1	3/230-400/50	230/50	130/190-534	15/30-60	5,5	-	(1)	
3434985	PRESS 60 N	TC	FS1	3/220-380/60	220/60	130/190-534	15/30-60	5,5	-		
3434986	PRESS 60 N	TL	FS1	3/220-380/60	220/60	130/190-534	15/30-60	5,5	-		
3435923	PRESS 100 N	TC	FS1	3/230-400/50	230/50	130/190-534	25/43-100	9	-	(1)	
3435924	PRESS 100 N	TL	FS1	3/230-400/50	230/50	130/190-534	25/43-100	9	-	(1)	
3435985	PRESS 100 N	TC	FS1	3/220-380/60	220/60	214/356-712	25/43-100	9	-		
3435986	PRESS 100 N	TL	FS1	3/220-380/60	220/60	214/356-712	25/43-100	9	-		

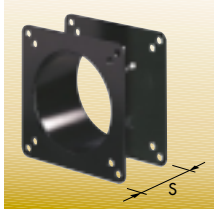
(1) 2 nozzles as standard equipment.

Net calorific value: 11,16 kWh/kg; 9600 kcal/kg - Max Viscosity at 50°C: 50 mm²/s (cSt)(7°E).

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

PRESS N series - BURNER ACCESSORIES

Spacer kit



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

Burner	Spacer thickness S (mm)	Kit code	Price
PRESS 30 N - 45 N - 60 N	142	3000755	
PRESS 100 N	142	3000802	

Sound proofing box



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

Burner	Box type	Average noise reduction [dB(A)]	Box code	Price
PRESS 30 N - 45 N PRESS 60 N - 100 N	C3	14	3000778	

Selfcleaning filter

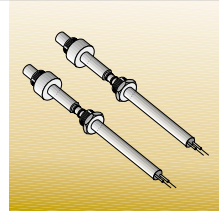


For cleaning heavy oil from dirty particles and impurities, it is equipped with a thermostatic heater for oil with 50°E viscosity at 50°C.

Filter type	Filter code	Price
ø=1 50°E - 50°C	3000790	

Heater type	Heater code	Price
Thermostatic heater 80W	3010059	

Heavy oil kit



Equipped with electrical heaters, it permits the employment of PRESS N burners with fuel oil of greater viscosity.

Burner	Max viscosity	Kit code	Price
PRESS 30 N - 45 N	20°E at 50°C	3000797	
PRESS 60 N - 100 N	65°E at 50°C	3010013	

Cartridge filter

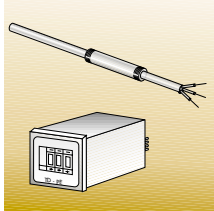


For cleaning heavy oil from dirty particles and impurities, it is equipped with a cartridge system for oil with 7°E viscosity at 50°C.

Filter type	Filter code	Price
Cartridge 7°E – 50°C	3005209	

Heater type	Heater code	Price
Thermo - resistance up to 30° E - 50°	3010050	

Thermostats



Thermostats allow heavy oil temperature control and regulation during burner operation. They are available in electronic and maximum versions.

Burner	Thermostat type	Thermostat code	Price
PRESS 30 N - 45 N - 60 N - 100 N	Electronic	3000799	
PRESS 30 N - 45 N - 60 N - 100 N	Maximum	3000800	
PRESS 30 N - 45 N - 60 N - 100 N	Kit electronic	3010173	

Interface adapter kit



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.

Burner	Kit code	Price
PRESS 30 N - 45 N - 60 N - 100 N	in progress	

Nozzle**type F80 PL 45°**

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

NOTE: each burner needs N° 2 nozzles.

Burner	Rated delivery (kg/h) at 20 bar	GPH	Nozzle code	Price
PRESS 30 N - 45 N	10,6	2	3043121	
PRESS 30 N - 45 N	11,9	2,25	3043131	
PRESS 30 N - 45 N - 60 N	13,2	2,5	3043141	
PRESS 45 N - 60 N	15,8	3	3043151	
PRESS 45 N - 60 N - 100 N	18,5	3,5	3043161	
PRESS 45 N - 60 N - 100 N	21,1	4	3043171	
PRESS 60 N - 100 N	23,7	4,5	3043181	
PRESS 60 N - 100 N	26,4	5	3043191	
PRESS 100 N	29	5,5	3043201	
PRESS 100 N	31,7	6	3043211	
PRESS 100 N	34,3	6,5	3043221	
PRESS 100 N	36,9	7	3043231	
PRESS 100 N	39,6	7,5	3043241	
PRESS 100 N	44,8	8,5	3043261	

type F80 PL 60°

Burner	Rated delivery (kg/h) at 20 bar	GPH	Nozzle code	Price
PRESS 30 N	6,6	1,25	3043092	
PRESS 30 N - 45 N	7,9	1,5	3043102	
PRESS 30 N - 45 N	9,2	1,75	3043112	
PRESS 30 N - 45 N	10,6	2	3043122	
PRESS 30 N - 45 N	11,9	2,25	3043132	
PRESS 30 N - 45 N - 60 N	13,2	2,5	3043142	
PRESS 45 N - 60 N	15,8	3	3043152	
PRESS 45 N - 60 N - 100 N	18,5	3,5	3043162	
PRESS 45 N - 60 N - 100 N	21,1	4	3043172	
PRESS 60 N - 100 N	23,7	4,5	3043182	
PRESS 60 N - 100 N	26,4	5	3043192	
PRESS 100 N	29	5,5	3043202	
PRESS 100 N	31,7	6	3043212	
PRESS 100 N	34,3	6,5	3043222	
PRESS 100 N	36,9	7	3043232	
PRESS 100 N	39,6	7,5	3043242	
PRESS 100 N	44,8	8,5	3043262	