



## MODULATING DUAL FUEL BURNERS

### ► GI/EMME SERIES

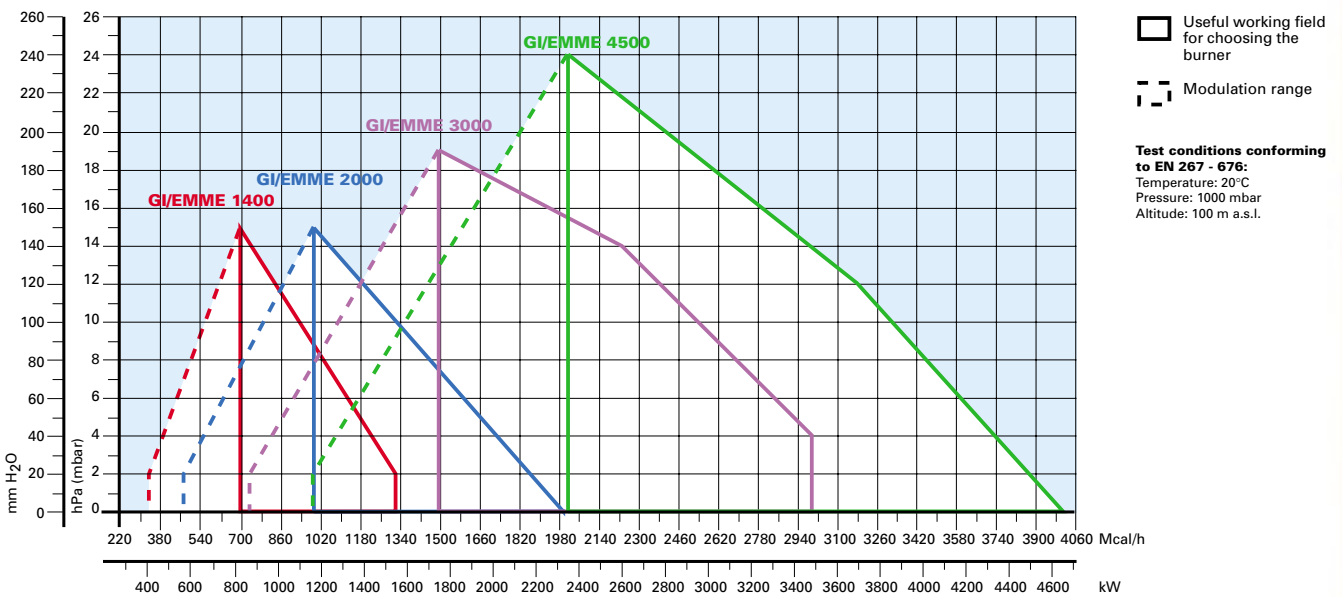
► GI/EMME 1400	407/820 ÷ 1540 kW
► GI/EMME 2000	581/1163 ÷ 2325 kW
► GI/EMME 3000	872/1744 ÷ 3488 kW
► GI/EMME 4500	1163/2350 ÷ 4650 kW



The GI/EMME 1400-4500 series of burners covers a firing range from 407 to 4650 kW. They have been designed for high output users and they are suitable for matching with every kind of boilers, with normal or pressurized combustion chamber. Operation can be "two stage progressive" or, alternatively, "modulating" with the installation of a PID logic regulator and respective probes. Two options of operation are available: only gas and only light oil, thus settable by a manual switch. Light oil circuit is fitted with his own electric motor:

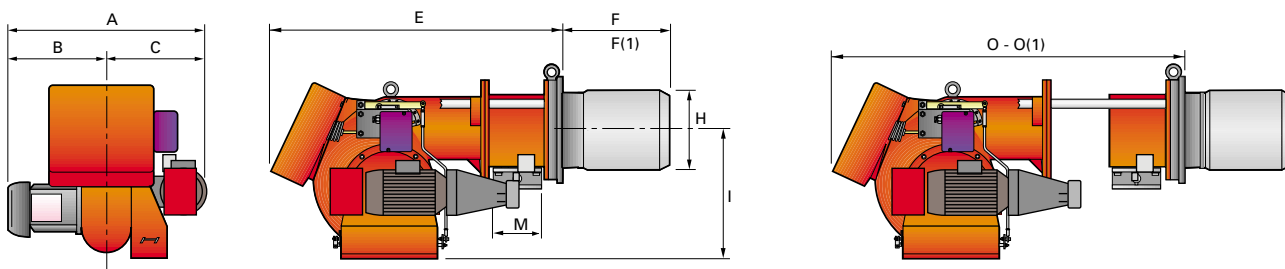
this permits pump stop during gas operation preventing danger of pumping seizure and avoiding oil circulation. A wide range of accessories and gas trains suitable to the burners guarantee an elevated working flexibility.

## FIRING RATES



## GI/EMME series - OVERALL DIMENSIONS (mm)

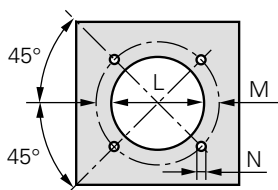
### BURNER



Model	A	B	C	E	F - F(1)	H	I	M	O - O(1)
▶ <b>GI/EMME 1400</b>	858	376	482	1090	385 - 495	250	467	2"	1407 - 1585
▶ <b>GI/EMME 2000</b>	878	396	482	1090	385 - 495	260	467	DN 80	1407 - 1585
▶ <b>GI/EMME 3000</b>	985	447	538	1320	476 - 606	336	525	DN 80	1796 - 2000
▶ <b>GI/EMME 4500</b>	1046	508	538	1320	476 - 606	336	525	DN 80	1796 - 1926

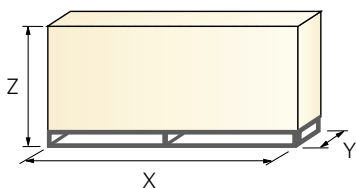
(1) Length with extended combustion head

### BURNER - BOILER MOUNTING FLANGE



Model	L	M	N
▶ <b>GI/EMME 1400</b>	255	368	M 16
▶ <b>GI/EMME 2000</b>	265	368	M 16
▶ <b>GI/EMME 3000</b>	340	438	M 20
▶ <b>GI/EMME 4500</b>	340	438	M 20

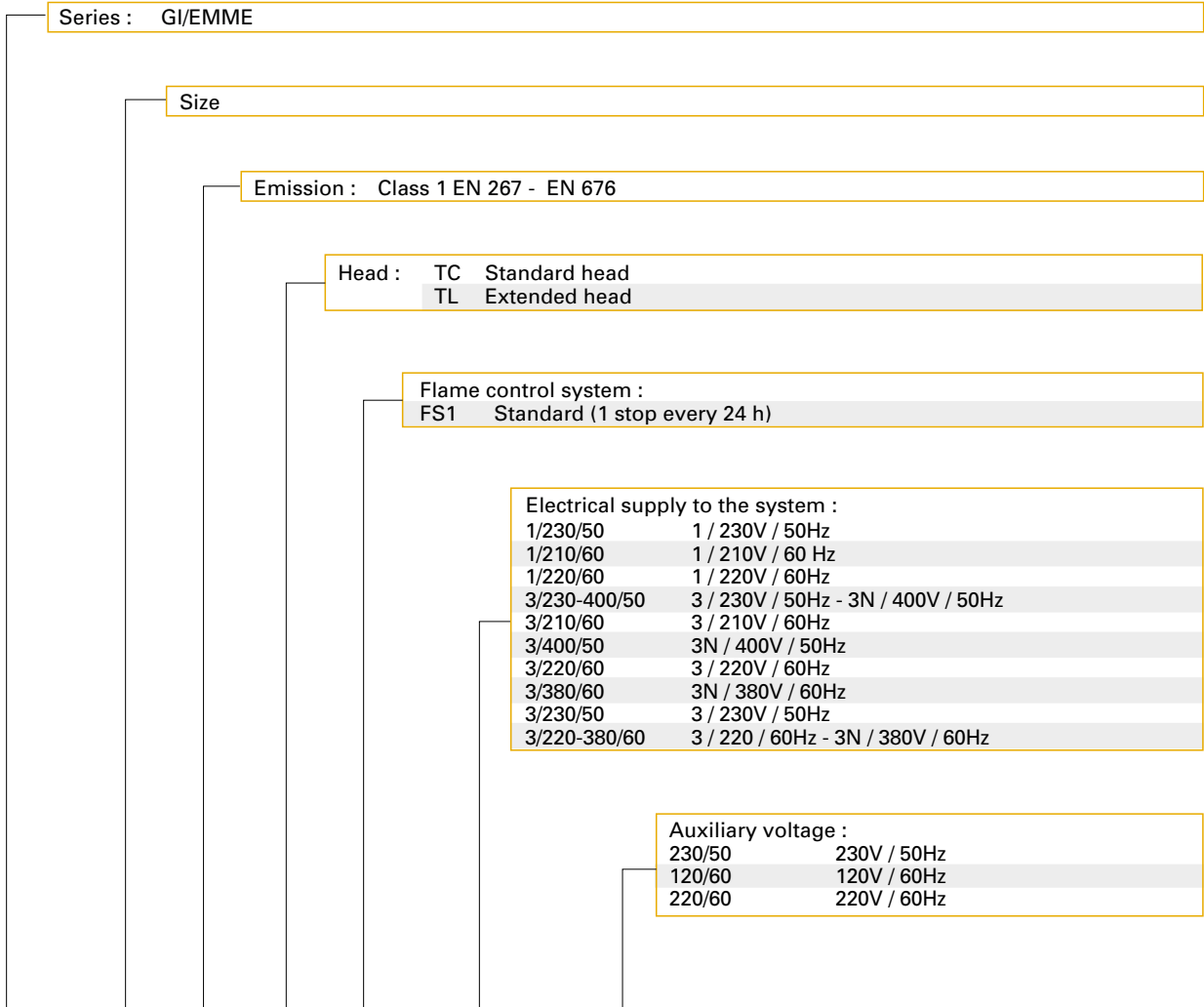
### PACKAGING



Model	X	Y	Z	kg
▶ <b>GI/EMME 1400</b>	1670	1010	780	190
▶ <b>GI/EMME 2000</b>	1670	1010	780	200
▶ <b>GI/EMME 3000</b>	2000	1160	870	280
▶ <b>GI/EMME 4500</b>	2000	1160	870	280

# GI/EMME series - SPECIFICATION

## DESIGNATION OF SERIES



<b>GI/EMME</b>	<b>1400</b>		<b>TC</b>	<b>FS1</b>	<b>3/230-400/50</b>	<b>230/50</b>
BASIC DESIGNATION			EXTENDED DESIGNATION			

## ► GI/EMME series - STATE OF SUPPLY

Monoblock forced draught dual fuel burner, two stage progressive or modulating operation with a kit, made up of:

- Air suction circuit
- Fan with forward curved blades
- Air damper for setting and butterfly valve for regulating fuel output controlled by a servomotor
- Combustion head, that can be set on the basis of required output
- Maximum gas pressure switch
- Minimum air pressure switch
- Fan electrical motor
- Pump electrical motor
- Gears pump for high pressure fuel supply, fitted with:
  - filter
  - pressure regulator
  - connections for installing a pressure gauge and a a vacuumeter
  - internal by-pass for single pipe installation
- Valve unit with a double oil safety valve on the output circuit and safety valve on the return circuit
- UV photocell for flame detection
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP 40 protection level.

### **Standard equipment:**

- 1 flange (for GI/EMME 1400)
- 1 gas train gasket
- 8 screws for fixing the burner flange to the boiler (for GI/EMME 1400)
- 12 screws for fixing the burner flange to the boiler
- 1 insulating screen
- 2 flexible hoses for connection to the oil supply circuit
- 2 nipples for connection to the pump
- 4 wiring looms fittings for electrical connections
- 2 pin extensions
- 8 washers (for GI/EMME 1400)
- 12 washers
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

## GI/EMME series - AVAILABLE BURNER MODELS

Code	Model	Heat output			Total electrical power (kW)	Certification	Note	Price
		(kW)	Light oil (kg/h)	Natural Gas (Nm <sup>3</sup> /h)				
3486683	GI/EMME 1400 TC FS1 3/220-380/60 220/60	415/814-1660	35/69-140	41/81-166	3 + 1,1	-		
3486655	GI/EMME 1400 TC FS1 3/230-400/50 230/50	407/820-1540	34/69-130	41/82-154	3 + 1,1	(1)		
3486684	GI/EMME 1400 TL FS1 3/220-380/60 220/60	415/814-1660	35/69-140	41/81-166	3 + 1,1	-		
3486656	GI/EMME 1400 TL FS1 3/230-400/50 230/50	407/820-1540	34/69-130	41/82-154	3 + 1,1	(1)		
3487683	GI/EMME 2000 TC FS1 3/220-380/60 220/60	590/1163-2370	50/98-200	59/116-237	4 + 1,1	-		
3487657	GI/EMME 2000 TC FS1 3/230-400/50 230/50	581/1163-2325	49/98-196	58/116-233	4 + 1,1	(2)		
3487659	GI/EMME 2000 TC FS1 3/400/50 230/50	581/1163-2325	49/98-196	58/116-233	4 + 1,1	(2)	*	
3487684	GI/EMME 2000 TL FS1 3/220-380/60 220/60	590/1163-2370	50/98-200	59/116-237	4 + 1,1	-		
3487658	GI/EMME 2000 TL FS1 3/230-400/50 230/50	581/1163-2325	49/98-196	58/116-233	4 + 1,1	(2)		
3487660	GI/EMME 2000 TL FS1 3/400/50 230/50	581/1163-2325	49/98-196	58/116-233	4 + 1,1	(2)	*	
3488783	GI/EMME 3000 TC FS1 3/220-380/60 220/60	890/1744-3560	75/147-300	89/174-356	9 + 1,5	-		
3488757	GI/EMME 3000 TC FS1 3/230-400/50 230/50	872/1744-3488	74/147-294	87/174-349	9 + 1,5	(3)		
3488759	GI/EMME 3000 TC FS1 3/400/50 230/50	872/1744-3488	74/147-294	87/174-349	9 + 1,5	(3)	*	
3488784	GI/EMME 3000 TL FS1 3/220-380/60 220/60	890/1744-3560	75/147-300	89/174-356	9 + 1,5	-		
3488758	GI/EMME 3000 TL FS1 3/230-400/50 230/50	872/1744-3488	74/147-294	87/174-349	9 + 1,5	(3)		
3488760	GI/EMME 3000 TL FS1 3/400/50 230/50	872/1744-3488	74/147-294	87/174-349	9 + 1,5	(3)	*	
3489085	GI/EMME 4500 TC FS1 3/220/60 220/60	1190/2325-5100	100/196-430	119/233-510	12 + 1,5	-	*	
3489063	GI/EMME 4500 TC FS1 3/230/50 230/50	1163/2350-4650	98/198-392	116/235-465	12 + 1,5	(4)	*	
3489087	GI/EMME 4500 TC FS1 3/380/60 220/60	1190/2325-5100	100/196-430	119/233-510	12 + 1,5	-	*	
3489065	GI/EMME 4500 TC FS1 3/400/50 230/50	1163/2350-4650	98/198-392	116/235-465	12 + 1,5	(4)	*	
3489086	GI/EMME 4500 TL FS1 3/220/60 220/60	1190/2325-5100	100/196-430	119/233-510	12 + 1,5	-	*	
3489064	GI/EMME 4500 TL FS1 3/230/50 230/50	1163/2350-4650	98/198-392	116/235-465	12 + 1,5	(4)	*	
3489088	GI/EMME 4500 TL FS1 3/380/60 220/60	1190/2325-5100	100/196-430	119/233-510	12 + 1,5	-	*	
3489066	GI/EMME 4500 TL FS1 3/400/50 230/50	1163/2350-4650	98/198-392	116/235-465	12 + 1,5	(4)	*	

(1) CE 0085AQ0712 - DIN 5G830/97 M.

(2) CE 0085AQ0712 - DIN 5G831/97 M.

(3) CE 0085AQ0712 - DIN 5G832/97 M.

(4) CE 0085AQ0712 - DIN 5G833/97 M.

\* Star delta starter.

Net calorific value light oil: 11,8 kWh/kg; 10.200 kcal/kg - Viscosity at 20°C: 4-6 mm<sup>2</sup>/s (cSt).

Net calorific value G20 gas: 10 kWh/Nm<sup>3</sup>; 8.600 kcal/Nm<sup>3</sup> - Density: 0,71 kg/Nm<sup>3</sup>.

The burners of GI/EMME series are in according to 90/396 - 89/336 - 73/23 EEC Directive and EN 267-676 Norm.