ENERTECH

NU-WAY®

Multiplex FMP Series

20 kW-4.4 MW

Packaged Industrial Process Gas Burner

- Fully automatic packaged assemblies
- On/off, high/low or modulating control
- Up to 20:1 turndown
- Fan scroll up (standard) or down. Valve train right or left (other arrangements to special order)
- Can be wired to terminal box for use with separate controls
- Combustion tunnel options, heat resistant metal, refractory, silicon carbide
- Excess air/gas ratio options
- Low and medium velocity options
- Continuous running fan to prevent over-heating when burner not in operation (optional)

OPERATION

The FMP range of packaged burner units is based on the proven range of MULTIPLEX industrial burners. The burners are of rugged construction and are suitable for a wide range of industrial process applications including ovens, incinerators, furnaces, etc.

The FMP burners use the Multiplex gas nozzle together with an integral fan and packaged valve train.

This data sheet refers to the range of eight packaged burner sizes from FMP5 to FMP150, giving a nominal output from 20 kW to 4.4 MW.

FUEL

Burners can de supplied for all commercial gases, and in addition can be produced for use with other gases such as mines gas, bio gas and producer gas.

CONSTRUCTION

FMP burners can utilise either medium or low velocity combustion tunnels. The MP burner with a separate fan should be used for high velocity applications.

METAL COMBUSTION TUNNELS

For low temperature applications up to 450°C, standard stainless steel material can be used for the combustion tunnel.

For high temperature applications up to 900°C, a high quality heat resistant stainless steel is available.

SILICON CARBIDE TUNNELS

For high temperature applications up to 1300°C, ceramic fibre-lined furnaces and kilns, silicon carbide combustion tunnels are available.

Medium velocity only up to FMP15 only. High and low velocity options not available.

REFRACTORY COMBUSTION TUNNELS

For high temperature applications up to 1450°C, conventional refractory quarls, together with holders are available. These quarls can be cased in heat-resisting stainless steel if required.

Note: Burner ratings based on Gross CV.

BURNER RATINGS

Burner Size	FMP5	FMP10	FMP15	FMP25	FMP40	FMP60	FMP100	FMP150
Therms/h	5	10	15	25	40	60	100	150
kcal x 10^3/h	125	250	375	625	1000	1500	2500	3750
kW	147	293	440	733	1170	1750	2950	4400

The above ratings are based on burner firing into a balanced or suction condition.

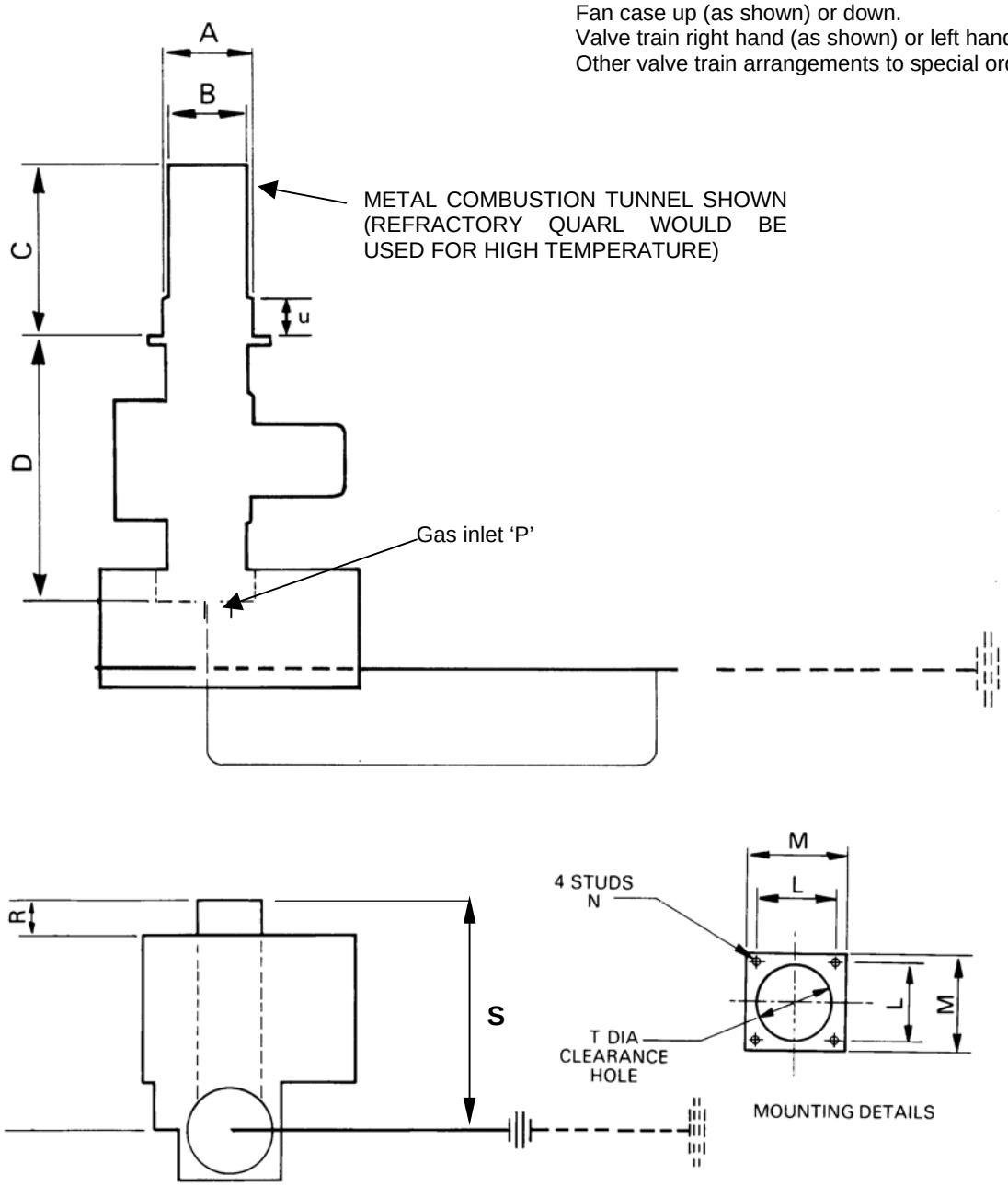
BURNER MOTOR DETAILS

220-240/1/50 or 380-440/3/50. Other voltages and frequencies to special order.

Burner Size		FMP5	FMP10	FMP15	FMP25	FMP40	FMP60	FMP100	FMP150
Motor Rating	1 ph	150	250	550	550	1100	-	-	-
(Watts)	3 ph	n/a	250	750	750	1100	4000	7500	15000
Full Load	1 ph	.94	1.7	5.0	5.0	6.1	-	-	-
Current	3 ph	n/a	0.7	1.7	1.7	2.4	8.0	14.4	28.0

FMP LEADING DIMENSIONS

STANDARD CONFIGURATION
Fan case up (as shown) or down.
Valve train right hand (as shown) or left hand.
Other valve train arrangements to special order

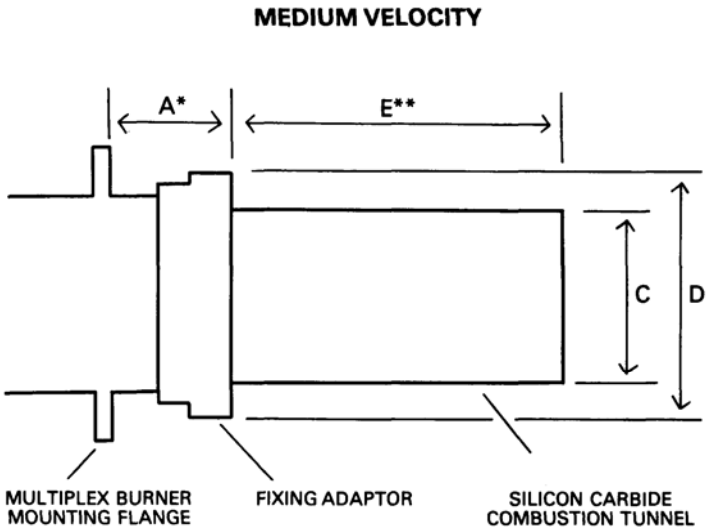


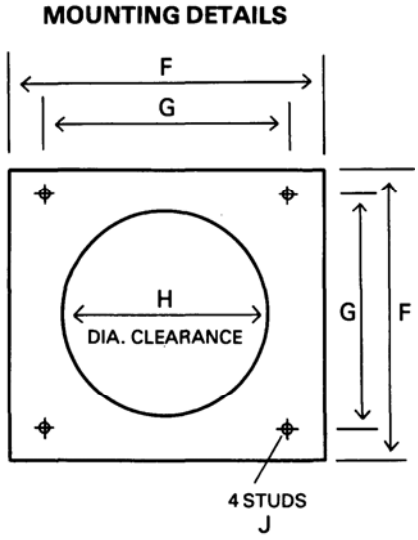
BURNER	A	B	C	D	L	M	N	P	R	S	T	u
FMP 5	102	90	200	305	108	140	M10 x 40 long	1"	-	220	112	45
FMP 10	132	114	217	399	156	187	M10 x 40 long	1¼"	-	290	142	45
FMP 15	160	141	279	458	160	200	M10 x 40 long	1½"	-	340	170	50
FMP 25	190	168	290	543	196	248	M12 x 40 long	2"	57	380	200	54
FMP 40	236	219	355	603	241	294	M12 x 40 long	3"	125	459	246	45
FMP 60	297	269	338	770	-	ø400	8 studs M16 x 60 long 360 PCD OFF CRS	3"	72	514	305	50
FMP 100	356	329	373	1000	-	ø475	8 studs M16 x 60 long 425 PCD OFF CRS	3"	94	700	365	50
FMP 150	457	429	380	1334	-	ø650	8 studs M20 x 60 long 550 PCD OFF CRS	DN100 PN16 OFF CRS	76	795	465	50

Dimensions give are for guidance only. Please refer to Nu-way for details.

SILICON CARBIDE TUNNELS

For high temperature, ceramic fibre-lined furnaces and kilns, silicon carbide combustion tunnels are available.





	A	C	D	E	F	G	H	J
FMP5	95	95	124	160	140	108	128	M10 x 40 long
FMP10	93	120	150	163	187	156	153	M10 x 40 long
FMP15	88	146	178	244	200	160	181	M10 x 40 long

Dimensions give are for guidance only. Please refer to Nu-way for details.

FMPDS0603

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