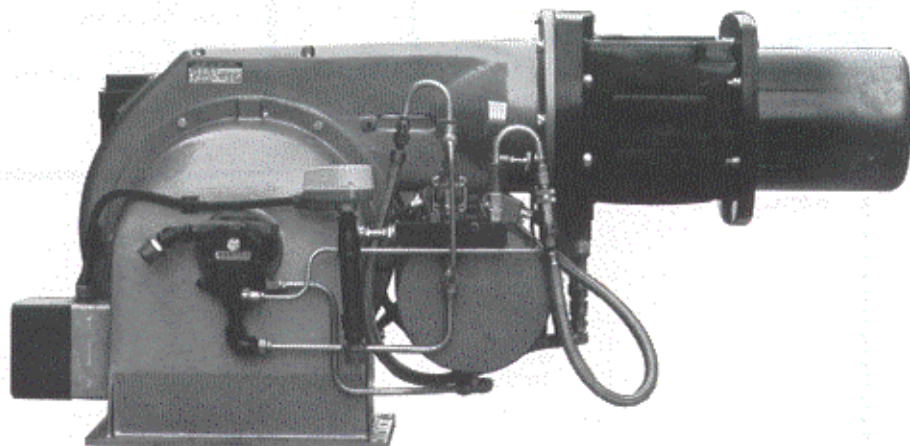


TECHNICAL DATA

Series NOE/NOF & NOG automatic oil burners Models NOE/NOF & NOG 18-25 to 100-38

CAPACITY

The Nu-way NOE/F/G 18-25 to NOE/F/G 100-38 pressure jet burners are designed for automatic Hi/Low/Off operation with burner outputs from 147—2940 kW (125, 391 - 2,500,000 kcal/h; 501, 564-10,000,000 Bth/h). The burner will fire pressurised boilers having resistances as listed on the burner selection graph. For other applications please consult our technical sales department.



CONSTRUCTION (C5 C6 C7)

All burners are of a monobloc design suitable for flange mounting. The mounting flange is hinged to allow access to the burner head for ease of maintenance and service.

AIR REGULATION

Air control is by (letter box) single blade damper, hydraulically operated on NOE & NOF versions. NOG burners have the damper electrically motorised. The NOG burners also have a fully closing damper, which closes the air damper when the burner is not operational. This enables the appliance to be kept at the highest possible temperature during shut down periods, while the oil pumping/heating system is in intermittent operation, to maintain the fuel oil at atomising temperature. Ready for immediate restart.

CONTROLS

The NOE/F/G burners may be controlled by suitable thermostats, pressure switches, time switches, etc. Burners are supplied complete with a pre-wired control panel. An additional panel is supplied on steam boiler applications, containing relays, feed water pump starter (direct-on-line up to 4kW with star delta above), etc., to steam boiler A.O.T.C. requirements.

FUELS

Maximum viscosities are as follows:

NOE Class E—8 cSt at 100°C
NOF Class F—20 cSt at 100°C
NOG Class G—40 cSt at 100°C

BURNER OUTPUTS

Based upon a gross C.V. of :-
43.5 mJ/KG for class E.
43.2 mJ/KG for class F.
42.7 mJ/KG for class G.

SAFETY FEATURES

Flame supervision by photo-electric cell with synchronous sequence controller for automatic start up, running and shut-down of the burner.

OPTIONAL EXTRAS

- Modulating Flame Control operation for burner outputs 600kW and above (see separate data sheet).
- Air inlet silencer.
- Fully closing air damper. (NOE & NOF)
- Sound shield wheel - over acoustic covers

FUEL

The three models of heavy oil burners are suitable for use on residual fuels with viscosities as specified below.

NOE Model

Class E 8 cSt at 100°C

Model NOF

Class F 20 cSt at 100°C

Model NOG

Class G 40 cSt at 100°C

NOTE

All burners incorporate a factory set oil pre-heater unit.
Minimum oil temperature at burner inlet:

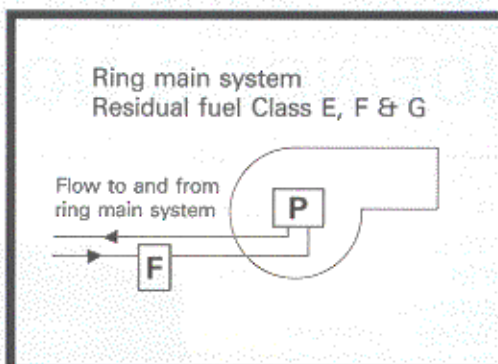
16°C for Class E

43°C for Class F

83°C for Class G

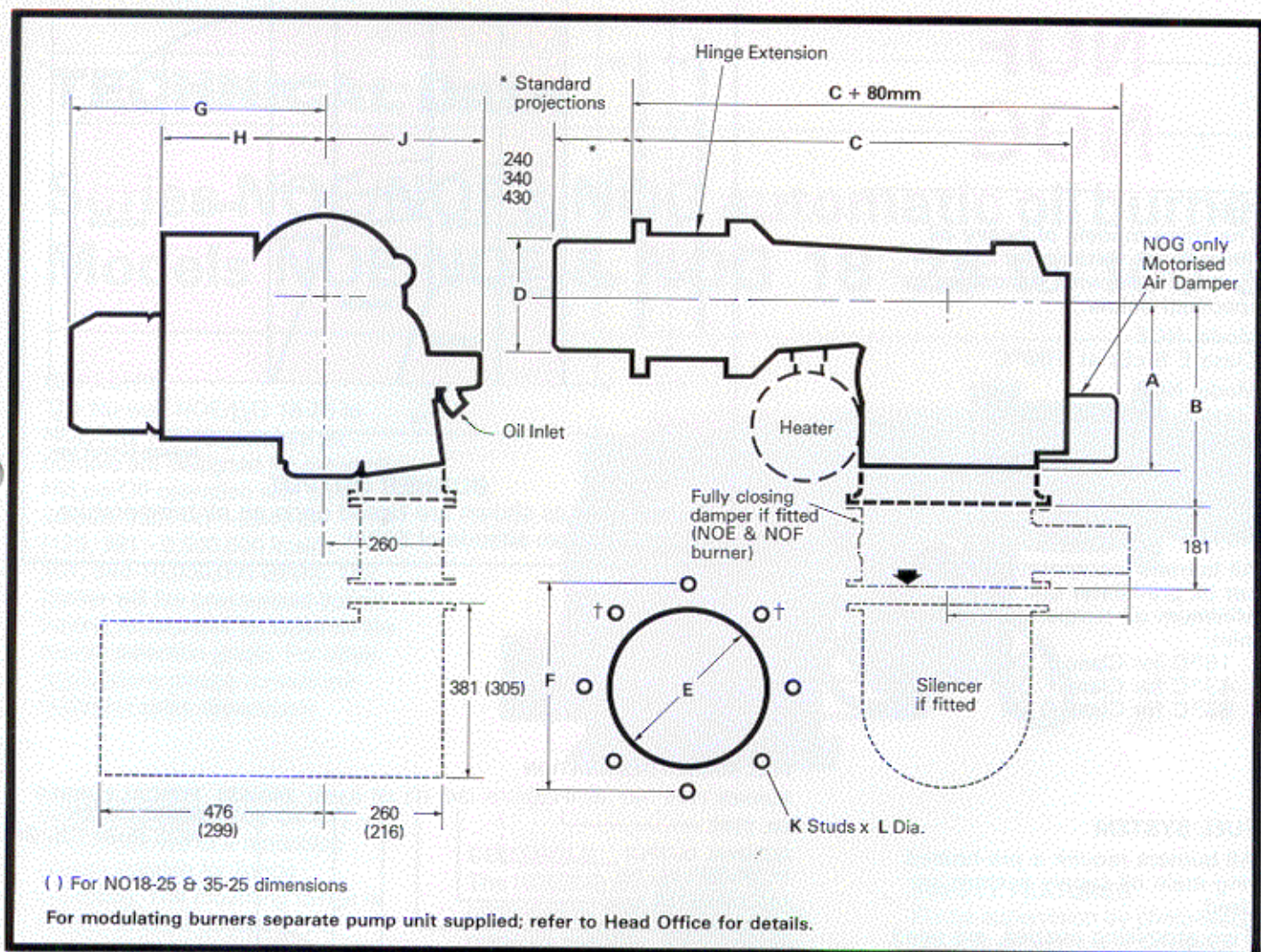
FUEL SYSTEM

All burners require a pre-heated ring main oil supply system.
Two atomising nozzles are used for high/low (two stage) operation.



ELECTRICAL DATA *All data calculated at 415 volts. All motors are 2 pole, 2800 rpm.*

BURNER MODEL	FAN MOTOR		PRE-HEATER (KW)	START CURRENT (A PHASE)	RUN CURRENT (A PHASE)	CABLE SIZE (MM ²)	HRC FUSE (A)
	(KW)	(HP)					
NOE, NOF & NOG18-25	1.1	1.5	3.0	19.2	6.7	1.5	20
NOE, NOF & NOG18-34	2.2	3.0	3.0	29.2	8.8	1.5	15
NOE, NOF & NOG18-38	3.0	4.0	3.0	39.2	10.3	2.5	20
NOE, NOF & NOG35-25	1.1	1.5	4.5	21.3	8.8	1.5	20
NOE, NOF & NOG35-34	2.2	3.0	4.5	31.3	10.9	2.5	20
NOE, NOF & NOG35-38	3.0	4.0	4.5	41.3	12.6	2.5	20
NOE, NOF & NOG50-28	2.2	3.0	6.0	33.4	13.0	2.5	25
NOE, NOF & NOG50-34	3.0	4.0	6.0	43.4	14.5	4.0	30
NOE, NOF & NOG50-38	4.0	5.5	6.0	53.4	16.4	4.0	30
NOE, NOF & NOG60-28	3.0	4.0	6.0	43.4	14.5	4.0	30
NOE, NOF & NOG60-34	4.0	5.5	6.0	53.4	16.4	4.0	30
NOE, NOF & NOG60-38	4.0	5.5	6.0	53.4	16.4	4.0	30
NOE, NOF & NOG85-38	5.5	7.5	7.5	50.5	22.0	6.0	30
NOE, NOF, NOG100-38	7.5	10.0	9.0	72.5	26.9	10.0	40



These dimensions are intended for general assessment of the overall sizes of the burners and should not be used without reference to our Technical Department or inclusion in drawings for installation purposes. Certified dimensional drawings are available on request on receipt of orders.

DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	J	K	L	Weight kg
NOE, NOF & NOG18-25	314	—	785	178	205	254	352	340	315	8	M10	115.0
NOE, NOF & NOG18-34	387	440	978	182	230	305	420	340	337	8	M10	115.1
NOE, NOF & NOG18-38	—	480	1029	182	230	305	457	340	350	8	M10	129.0
NOE, NOF & NOG35-25	314	—	785	178	205	254	352	340	315	8	M10	115.0
NOE, NOF & NOG35-34	387	440	978	182	230	305	420	340	337	8	M10	115.1
NOE, NOF & NOG35-38	—	480	1029	182	230	305	457	340	350	8	M10	129.0
NOE, NOF & NOG50-28	387	440	978	223	254	305	420	340	337	8	M10	110.5
NOE, NOF & NOG50-34	387	440	978	223	254	305	457	340	337	8	M10	112.4
NOE, NOF & NOG50-38	—	480	1029	223	254	305	480	340	350	8	M10	129.0
NOE, NOF & NOG60-28	387	480	978	223	254	305	457	340	337	8	M10	110.5
NOE, NOF & NOG60-34	387	440	978	223	254	305	480	340	337	8	M10	112.4
NOE, NOF & NOG60-38	—	480	1029	223	254	305	480	340	350	8	M10	129.0
NOE, NOF & NOG85-38	—	480	1029	254	280	305	537	490	365	8	M10	145.0
NOE, NOF & NOG100-38	—	480	1029	254	280	305	537	490	365	8	M10	145.0

MODELS

NOE
NOF
NOG

FUEL

The three models of heavy oil burners are suitable for use on residual fuels with viscosities as specified below.

Model NOE

Class E 8 cSt at 100°C

Model NOF

Class F 20cSt at 100°C

Model NOG

Class G 40 cSt at 100°C

NOTE

All burners incorporate a factory set oil pre-heater unit.
Minimum oil temperature at burner inlet:

16°C for Class E Oil

43°C for Class F Oil

83°C for Class G Oil

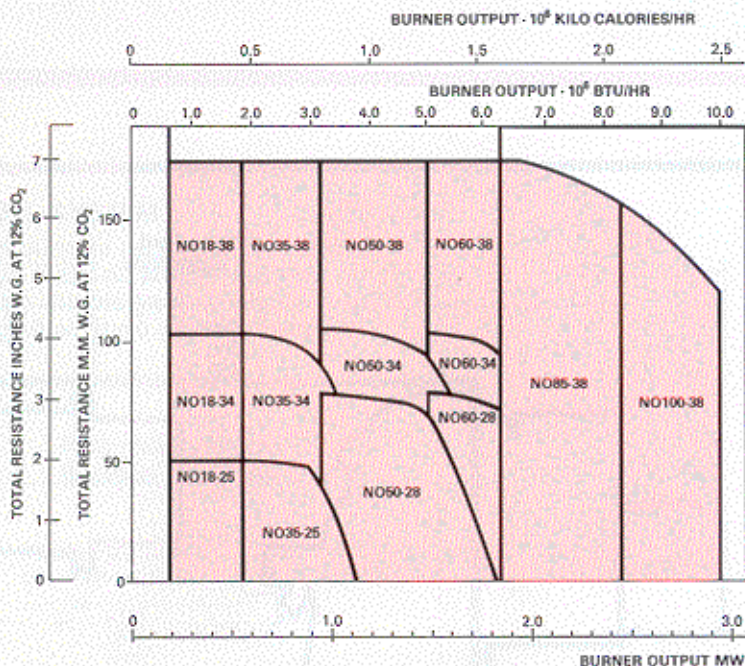
FUEL SYSTEM

All burners require a pre-heated ring main oil supply system are used.

Two atomising nozzles, are used for high/low operation.

For models NOE13 and NOE 18-23, see separate Data Sheet

BURNER SELECTION GRAPH



BURNER OUTPUT

Burner outputs shown are based upon an air temperature of 20°C and an altitude of 500m.

FULL BURNER DESIGNATION

BURNER TYPE NO (E)/(F)/(G) (35) (34) (T) (3) (L)/(S) 240/430
OIL TYPE _____
NOMINAL OUTPUT (in 100,000's Btu/hr) _____
FAN DIAMETER (cms) _____
OPERATION _____
ELECT. SUPPLY _____
CONTROL MAKE _____
PROJECTION _____

TYPICAL BURNER DESIGNATION
NOE35-34 T3L 240



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Nu-way policy is one of continuous improvement. The right to change prices and specifications without notice is reserved.



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