

# NDF85-38 / NDF100-38

## Dual Fuel Burner

### 722kW – 2706kW



#### NDF85/100 Dual Fuel Burner features:

- Burner mounted control panel
- Simple switch changeover between fuels
- 2-stage control (high/low) NDF35-100
- Designed and approved in accordance with the European Standard EN 676 and EN267
- NDFL - Class 'D' oil 5.5 cSt @ 40°C
- NDFR - Class 'G' oil 40 cSt @ 100°C
- Fully closing air damper
- Oil Heater – Burner mounted pumping & heating unit included with burner to heat oil for atomisation for NDFR  
(Intermittent operation during standby to maintain oil temperature for immediate restart)
- NDFR burners require a pre-heated ringmain oil supply, minimum temperature @ 83°C for Class 'G' oil
- All kW ratings are nett CV
- Suitable for high resistance boilers
- Industry standard components easily available
- Options Extras:
  - Modulating control (Std on NDF100-41 and above)
  - Air inlet silencer (Std on NDF100-41 and above)
  - Acoustic cover (wheel-over)
  - Water level control panel (AOTC)
  - Free-standing pumping & heating unit



For more information on all Nu-way products  
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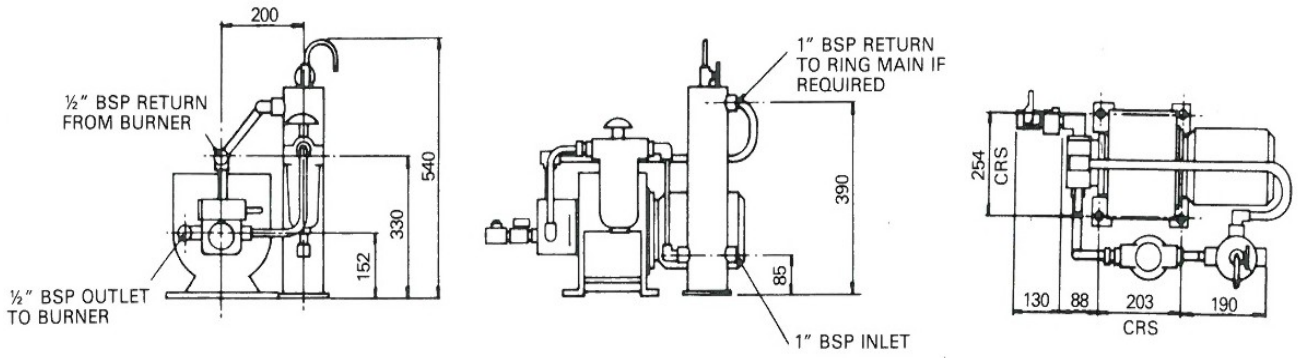
<b>NDFL – DISTILLATE FUEL HIGH/LOW</b>			
<b>Panel and Pump Unit mounted on Burner</b>			
<b>Burner Type</b>		<b>NDFL85-38</b>	<b>NDFL100-38</b>
<b>Capacity</b>	<b>kW</b>	<b>722-2210</b>	<b>766-2706</b>
Fan Motor	V/ph/Hz	<b>85-38</b> 380/420 / 3 / 50	<b>100-38</b> 380/420 / 3 / 50
	kW	5.5	7.5
Run Current	A/each phase	11.5	14.4
Cable size	mm <sup>2</sup>	2.5	4.0
Fuse	A (HRC)	20	25
Pump Motor (separate on Modulation version only)	kW	0.75*	1.5*
Control unit		LFL	LFL
Flame monitoring		UV Cell	UV Cell
Control Options		2 Stage / Modulating	2 Stage / Modulating
Air damper motor		•	•
Pressure gauge		•	•
Noise	@ 1m dBA	92	92
Gross weight	kg	300	300
Packing dimensions	l x w x h (cm)		

- Standard
- Other electrical supply options available on request.

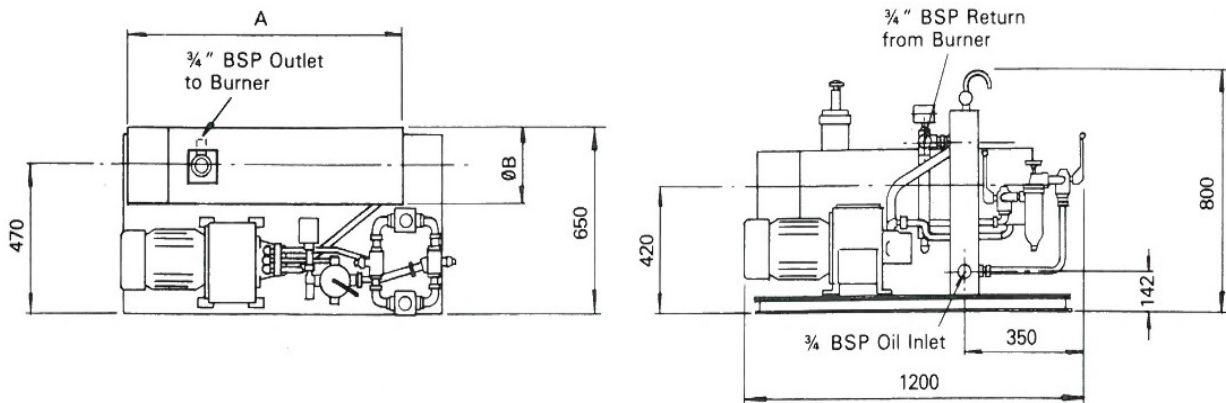
<b>NDFR – RESIDUAL FUEL SLIDING HIGH/LOW</b>			
<b>Separate Panel and Heating &amp; Pumping Unit</b>			
<b>Burner Type</b>		<b>NDFR85-38</b>	<b>NDFR100-38</b>
<b>Capacity</b>	<b>kW</b>	<b>722-2210</b>	<b>766-2706</b>
Fan Motor	V/3/Hz	<b>85-38</b> 380/420 / 3 / 50	<b>100-38</b> 380/420 / 3 / 50
	kW	5.5	7.5
Run Current	A/each phase	25.0	30.0
Cable size	mm <sup>2</sup>	6.0	10.0
Fuse	A (HRC)	40	50
Pump Motor (High/Low)	kW	1.1	1.1
Pump Motor (Modulating)	kW	0.75*	0.75*
Pre-Heater	kW	7.5	9.0
Control unit		LFL	LFL
Flame monitoring		UV Cell	UV Cell
Control Options		2 Stage / Modulating	2 Stage / Modulating
Air damper motor		•	•
Pressure gauge		•	•
Noise	@ 1m dBA	92	92
Gross weight	kg	300	300
Packing dimensions	l x w x h (cm)		

- Standard
- Other electrical supply options available on request.

All data calculated at 415 volts. Motors marked \* are 4 pole. All others are 2 pole. Distillate fuel burners are monobloc. Residual fuel burners have separate pumping and heating units. Modulating burners have separate control panel. Motors 5.5kW and over are star delta start. 1 kW = 1.34 HP. Run currents are for oil firing when on gas, this will be reduced to burner motor only unless oil is circulated.



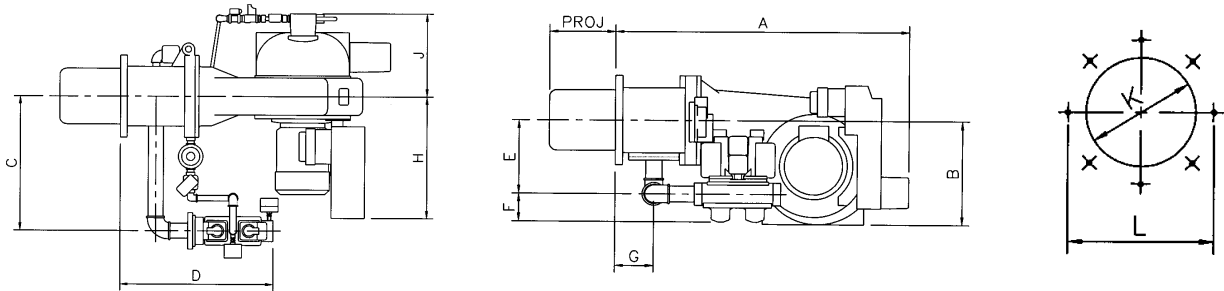
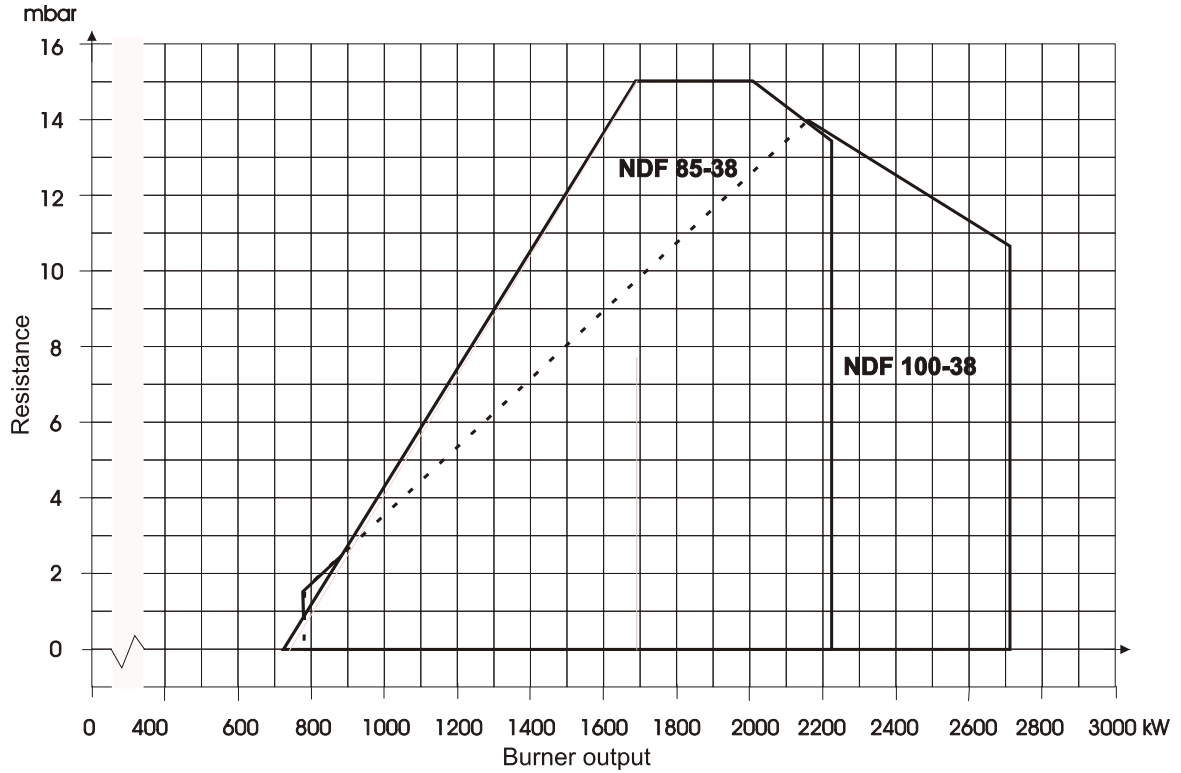
**NDFL Modulating: Pump Unit**



kW	Dim A	ØB
4.5 & 6.0	692mm	155mm
7.5 & 9.0	684mm	224mm
12.0	586mm	224mm

**NDFR Modulating and Sliding High/Low: Pump Unit**

## BURNER SELECTION CHART



Burner	A	B	C	D	E	F	G	H	J	K	L
<b>NDF85-38</b>	1081	475	920	7235	415	165	141	500	350	280	305
<b>NDF100-38</b>	1081	475	920	735	415	165	141	500	350	280	305

\* +60mm if LDU11 valve proving fitted

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