# SERVICE INSTRUCTIONS 30-06-18



# BUBBLE PJ MAX MARINE

230 VAC Automatic Pressure Jet Diesel Boiler Horizontal and Vertical versions CE - C17873A 08-04-03

Front View Vertical Boiler



Front View Horizontal Boiler



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# 1. SERVICE AND MAINTENANCE.

Depending upon the intensity of its use, the boiler should be serviced once or twice per year.

OFTEC registered, oil fired service engineers should be able to service the boiler as per the routine maintenance section.

OFTEC can be contacted on 0845 65 85 080 they have details of all registered service engineers in the UK. **www.oftec.org** 

Ecoflam Technical department can be contacted on 01905 788010 (U.K.)

www.ecoflam-burners.com

Bubble Products - Harworth Heating can be contacted on 01302 742520.

http://www.bubbleproducts.co.uk/

www.harworthheating.co.uk

Before any service work is carried out make sure that the appliance is fully and safely isolated.

\*Do not work on 230VAC systems without adequate training or in damp / wet conditions.\*

\*Make sure that RCD protection is functioning correctly.\*

Adequate Clearance for burner removal.

Vertical Boilers 100mm clearance required above the burner to allow it to be withdrawn vertically.

Horizontal Boilers 100mm clearance required in front of the burner to allow it to be withdrawn horizontally.

# 1-1. SERVICE THE ECO FLAM MAX BURNER (SEE SEC 5.)

Remove the burner from the boiler.

The burner is held in place via  $1 \times 8$ mm nut which should be loosened to allow the burner to be rotated slightly and lifted out of the mounting flange. See item4 fig3 and Item 29 in section 5.

Remove and clean the dust from the internals and externals of the burner. See sec 5

Remove the flame tube (23-5) via two fasteners at the base of the tube and clean the air diffuser (27-5) and flame tube.

Examine and if necessary adjust the electrode. (22-5)

Change the nozzle every second year. Nozzle screws into (26-5) Nozzle is Danfoss .4 x45 deg solid Remove and clean the photocell. (14-5)

If considered necessary, check the fuel pump pressure. (Fuel Pump is 1-5) This should not need adjusting as it is set at the factory but we have had instances where it has been altered mistakenly.

2. SERVICE THE BOILER.

# 2-1. TO REMOVE THE BURNER FROM VERTICAL VERSION BOILER.

Slip the flue pipe up away from the boiler flue spigot.

The boiler has front and rear removable top plates held in place by  $6 \times m10$  fasteners. See items 3 and 6 Fig 3 Undo the fasteners and remove the front top plate under which is a ceramic top board ( ) and then remove the rear top plate. ( )

When the rear top plate has been removed withdraw the 4 baffles underneath it. ( )

Clean all of the internals of the boiler and vac the debris out making sure that all the internal surfaces of the boiler are clean and soot free.

Make sure that the base of the boiler is clean and free from soot.

When this is done, rebuild the boiler in reverse order.

# 2-2. SERVICE THE HORIZONTAL BOILER.

# 2-2-1 TO REMOVE THE BURNER FROM HORIZONTAL VERSION BOILER.

Slip the flue pipe up away from the boiler flue spigot.

The boiler has front and rear removable front plates held in place by  $6 \times m10$  fasteners.

Undo the fasteners and remove the right hand side access plate under which is a ceramic top board.

Then remove the left hand side access plate and withdraw the 4 baffles behind it.

Clean all of the internals of the boiler and vac the debris out making sure that all the internal surfaces of the boiler are clean and soot free.

When this is done, rebuild the boiler in reverse order.

# 2-3. CLEAN OUT THE FLUE SYSTEM.

After cleaning and servicing both the burner and the boiler, make sure that the flue system is clean and free from obstruction using a small 70mm dia flexi brush.

Clean the flue system out twice per year.

# 2-4. CHECKING FOR DOWN DRAUGHT.

A quick check for this situation is to check that air is not being blown out of the burner air inlet, if it is then the air inlet to the burner must be ducted to a new location as follows.

The objective is to balance the pressures on both the flu outlet terminal and the air inlet.

The flue terminal will be outside the boat and if the air inlet can be ducted near to the flue terminal externally then whatever atmospheric condition is applied to one terminal will also be applied to the other neutralising any atmospheric effect and creating a BALANCED FLUE situation which will result in neither updraft nor downdraft.

# 2-5. INSPECTING THE OIL LINE.

Flexible oil lines are prone to deteriorate, check them for leaks every year and replace as necessary.

Make sure that the flow and return oil pipes are connected the correct way round as illustrated in fig1. Additional checks for leaks should be carried out on the rest of the oil supply line including any filters.

### 2-6. INSPECTING THE FUEL FILTERS AND CHANGE WHERE NECESSARY.

**The fuel** filter should be changed every year but this depends upon the cleanliness of the fuel and the usage rate of the boiler, if the tank is contaminated or infected with diesel bug then appropriate cleaning measures will be necessary.

If there has been a water or bacterial contamination, clean out the tank and replace all filters.

Dirt in the fuel line will cause nozzles to block or partially block emitting a non-uniform spray pattern causing bad combustion. If there are any air leaks on the fuel supply, this can cause erratic and inconsistent ignition attempts.

### 2-7. INSPECTING THE FIREVALVES.

The boiler must be fitted with a 60 deg C, remote sensing fire valve, which should be inspected and tested every year.

The sensor of the valve should be located over the boiler at a distance of 200mm above the burner.

### **2-8**. CHECKING THE PROVISION OF VENTILATION.

Make sure that the boiler has adequate ventilation for cooling and combustion purposes in line with the boiler power rating of 12kW.

Check on a regular basis and make sure that all purpose made vents are free from obstruction.

In certain cases where negative air pressure is encountered either permanently or intermittently, it may be necessary to duct air into the burner air inlet from an outside source as mentioned in 2-4.

# 2-9. CHECKING THE FLUE GAS EMISSIONS.

Generally the burner air setting needs to be at the lower setting on the air scale, typically between 1 and 2. Before proceeding with testing the flue gas make sure that: -

You have Dwyer test point plugs and a suitable size of drill.

You have suitable Allen keys.

Your flue gas analyser is in good condition and set for the appropriate fuel. (Heavy oil)

Drill a suitable hole into the flue approximately 100 mm from the boiler outlet to allow insertion of the flue gas analyser probe and after inspection fill the hole with the Dwyer plug.

Fire the burner up and allow the boiler to come up to 60 deg C.

(Whilst the boiler is coming up to temperature keep an eye on the flue outlet terminal, if smoke is evident, about increase the air until it goes.)

When the boiler is up to temperature carry out flue gas analysis.

# 2-10. BURNER COMBUSTION DATA.

Danfoss Nozzle	0.4 U.S. gal x 45° S.
Fuel Pump pressure	10 bar.
Smoke	Zero to one on the Bacharach scale.
Efficiency	86 to 87%.
CO <sup>2</sup>	10.5%.
O <sup>2</sup>	6 to 6.5%.

# 3. FAULT FINDING.

Note that any work on electrical systems must be carried out by a suitably qualified person. In the unlikely event of a malfunction check the following:-

# 3-1 BOILER INTERNALS MUST BE FREE FROM OBSTRUCTIONS.

3-2. If you have a side outlet flue and you have recently been to sea or in rough water conditions and the boiler refuses to fire up, remove the burner from the mounting flange, then remove the top plate and top board. Look down into the flue ways and make sure that there is no water in the bottom of the boiler.

3-2. If the boiler is free from water contamination, check the following.

3-4. Is the boiler badly sooted up?

Remove the burner and both the front and rear top plates. Fig 3

Remove all the rear baffles.

On earlier boilers there may be baffles beneath the burner in the first part of the boiler, if there are then these baffles should be discarded as they are no longer used.

3-5. Is 230 volt ac connected to the boiler and live?

3-6. If power is supplied through a landline, is the supply 230VAC?

3-7. Supply voltages can vary substantially in response to the combined applied load of other vessels on the same supply.

3-8. Is there adequate fuel oil in the fuel supply tank?

3-9. Are all or any shut off valves open?

3-10. Has the KBB remote sensing fire valve tripped off?

3-11. Are all controls such as the time clock and boiler stat set correctly?

3-12. Have the oil flow and return fuel pipes been connected the right way round? The burner oil pump body has clear indications marked on it to identify the flow and return ports, make sure that the oil feed pipes are connected flow to flow and return to return. See fig 1

#### 3-1. OPTIONAL DIGITAL DATA LOGGER

To help interrogate problems with your burner Ecoflam have produced an optional digital diagnostic device which plugs into the burner control unit and can be used to access stored historical data as detailed below. Note that this device will log records of voltages allowing engineers to isolate voltage supply problems.

Service - Troubleshooting

Fault diagnosis and repair In the event of a malfunction, first check that the prerequisites for correct operation are fulfilled: 1. is the system connected to the power supply? 2. is there oil in the tank?

are all shut-off valves open?
 are all control and safety devices,

such as the boiler thermostat, low-water detector, limit switch, etc. adjusted correctly?

If the malfunction persists, use the

following table.

It is not permitted to repair any components relevant to safety. These

components must be replaced by parts with the same order number.

Only use original spare parts.

NB: after each operation: • under normal operating conditions (doors closed, hood fitted, etc.), check combustion and check the individual lines for leaks. • Record the results in the relevant documents. E-BCU display interface must be used to read the faults by service personell.



Symbol fault	Fault	Cause	Remedy
Ĩ	No heat request	Thermostats defective or incorrectly adjusted	Adjust the thermostats, replace if necessary.
2	Burner does not start after thermostat shutdown. No malfunction indicated on the automatic combustion control unit.	Drop in supply voltage or power failure. Control unit malfunction	Check the cause of the fall in voltage or the power failure. Replace the control unit.
	Burner starts at switch-on for very short period and then shuts down and the red LED lights up	The control unit has been intentionally locked	Reset control unit.
	Burner starts and then shuts down after preventilation	Flaring during pre-ventilation or pre-ignition	Check ignition sparks/adjust or replace electrode Check/replace fuel-oil solenoid valve
	Burner starts and then shuts down after the solenoid valves have opened	No flame signal at end of safety time	Check the oil level in the tank. Top tank up as required. Open the valves. Check the oil pressure and the operation of the pump, coupling, filter, solenoid valve. Check ignition circuit, electrode adjustment.
	Flame extinguishing during operation	Flame goes out during operating phase	Clean/replace electrodes. Clean/replace flame monitor. Replace the following items as required: Ignition electrodes/ignition cables/ignition transformer/nozzle/pump/solenoid valve/ automatic combustion control unit.

16 www.ecoflam-burners.com

### 3-2. BLACK SMOKE IS EMITTED FROM THE FLUE TERMINAL.

This indicates BAD COMBUSTION, generally caused by excess fuel or a lack of combustion air. 1. Remove the boiler internal baffle system and check that the boiler is not contaminated with excess soot, if it is, brush and scrape both of the boiler flue ways and vac the soot out from the bottom of the boiler, making sure that there is no obstruction in the base of the boiler OR THE FLUE SYSTEM.

1A. Check for an obstruction on the burner air inlet.

2. Change the nozzle.

3. Check that the burner fan motor is running freely.

4. Check that the internal boiler baffle system is not distorted, damaged or sooty.

#### 3-3. LIGHT GREY SMOKE IS HEAVILY EMITTED FROM THE FLUE TERMINAL.

This situation is caused where the boiler has failed to ignite and several ignition attempts have been made. Where the burner has been flooded with excess unburned fuel, when it eventually lights, dense plumes of light grey smoke will issue from the exhaust as the fuel evaporates off.

If this situation is noticed, turn the boiler off, remove the burner and strip out all the baffles, remove all traces of unburned fuel, replace the baffles.

Re ignite the boiler and keep turning it off every two minutes until the grey smoke clears, in bad cases this process can last for up to 1 hour.

#### 3-4. BURNER GOES TO LOCKOUT AFTER INITIALLY FIRING UP FOR A SHORT PERIOD.

The boiler is energised via a live 230vac input from manual or automatic switching, when the burner has been energised the following ignition sequence is actioned.

- 1. The Motor runs and the H.F. spark is discharged across the electrodes.
- 2. A few seconds later the fuel is released by the solenoid valve, (note that the fuel release is deliberately delayed and must not occur simultaneously with the spark release.)
- 3. At this point Ignition occurs and the light sensitive Photocell recognizes ignition has occurred.
- 4. The Photocell sends a signal to the control unit, which turns the H.F. ignition off and then allows the burner to go into run mode.

The burner will run until it reaches the pre set temperature established by the setting of the boiler thermostat control knob at which point it will shut down and then modulate in on-off mode until either the auto or manual supply is removed.

If the burner locks out after the flame has been heard to establish this would indicate that the fuel has been released too early and the photo cell and controller have recognised this fault consequently putting the burner into lockout mode.

This situation can be caused by -:

1. A damaged solenoid spindle. (Bent) item 3 sec 5

2. A faulty solenoid actuator coil. item 2 sec 5

3. Micro particles of dirt lodged under the solenoid valve causing it not to be able to close, generally known as <u>LET BY</u>.

This situation allows the flame to establish too quickly causing a stray light fault and subsequently locking the burner out.

#### 3-5. BURNER LOCKS OUT AND WILL NOT ATTEMPT TO IGNITE.

Check the mains voltage available. (Should be full sine wave 230vac. Plus or Minus 10%.)

#### 3-6 BURNER IS COMPLETELY DEAD WITH NO LOCK OUT LIGHT SHOWING.

Check that there is a 230 VAC feed to the appliance.

Check that there is a 230 VAC feed through the control panel to the burner.

If power is available this would indicate that the burner control unit might have failed.

#### **3-7. EXTERNAL CONTROLS FAULTS.**

Not covered under this manual but as an aid, when the programmable time controller is calling for central heating or hot water via manual advance or timed signal, the boiler should receive a live feed and ignite.

#### **3-8.** INVERTER FAULTS.

If an inverter fault develops and the inverter does not output a full sign wave supply, damage will be caused to the Digital Thermowatt burner control box located on the burner. (See item 13 in section 5)

# 3-9. FLUE AND EXHAUST FAULTS.

The flue should be cleaned and swept every 12 months.

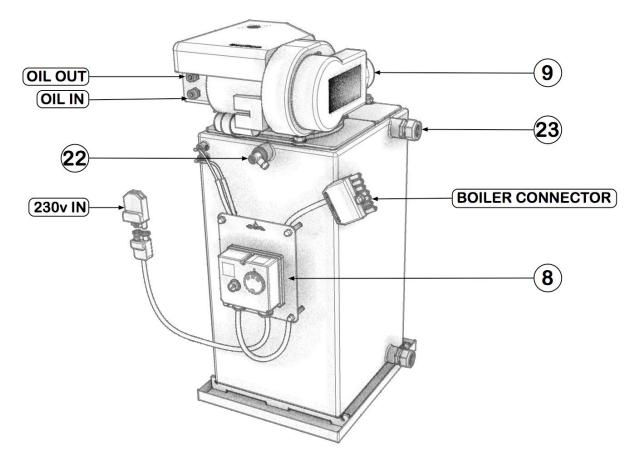
If the boiler is subject to a negative pressure, air can be drawn into the boiler flue system.

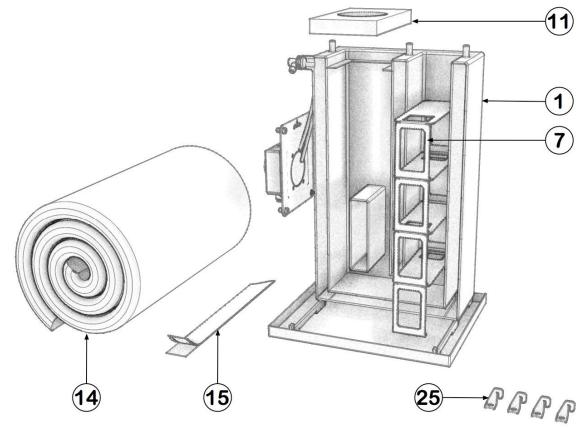
A quick check for this situation is to check that air is not being blown out of the burner air inlet, if it is then the air inlet to the burner must be ducted from a suitable vent. Note that if this problem exists either permanently or intermittently it can cause faulty starts and a noisy burner. See comments in 2-4.

# 4. VERTICAL BOILER PARTS.

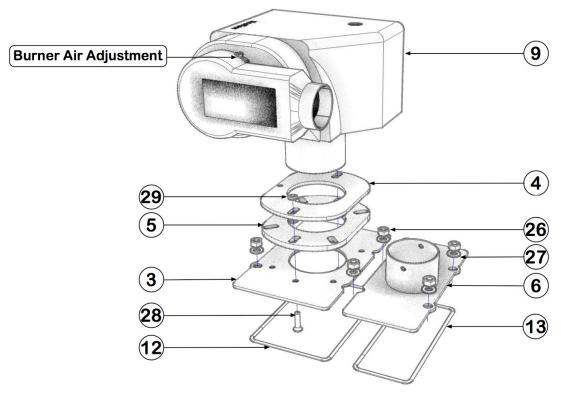
Note that the horizontal boiler has a different flue outlet and a different rear access plate.

# FIG 1



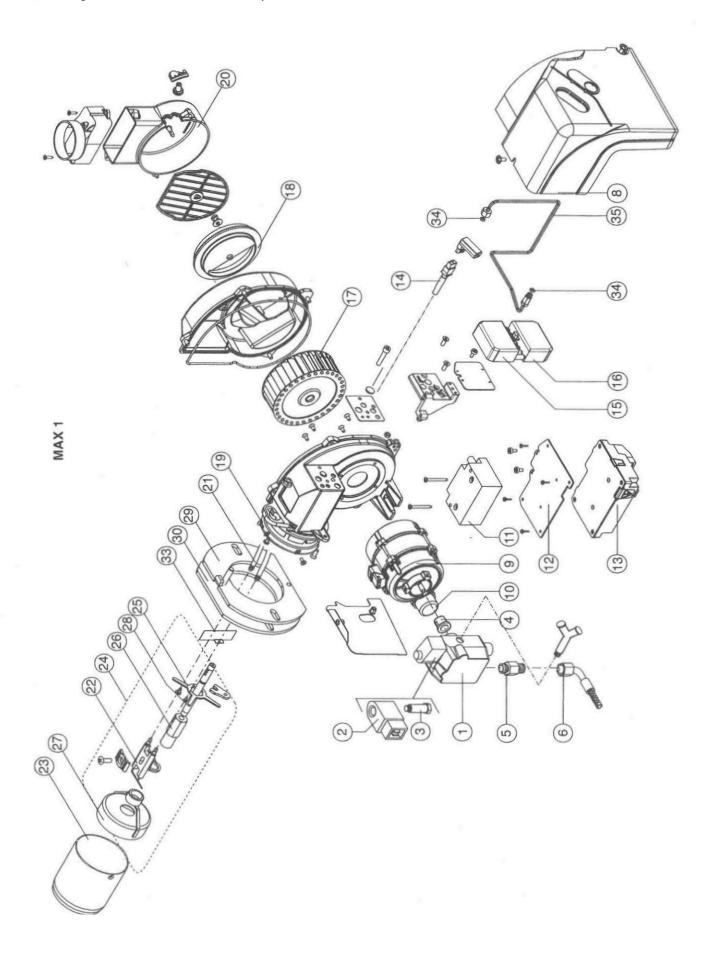


# FIG 3



# 5. BURNER EXPLODED PARTS.

Read in conjunction with full boiler parts list.



# 5-1. BURNER PARTS LIST

			MAX 1
n°	Description		code
1	OIL PUMP	DANFOSS BFP11 R3 071NO143	65322967
2	COIL	DANFOSS	65323773
3	OIL VALVE	DANFOSS	65323751
4	COUPLING		65322920
5	NIPPLE		65321179
6	HOSES	NW 4X700	65323198
7	FILTER		
8	COVER		65325528
9	MOTOR	75 W AEG	65322868
10	CAPACITOR	3 µF AEG	65321857
		5 µF SIMEL	65325038
11	IGNITION TRANSFORMER		65323257
12	SUPPORT		65325251
13	CONTROL BOX WITH CABLES	THERMOWATT E-BCU OIL	65325255
14	PHOTORESISTOR	SATRONIC	65320083
15	SOCKET WIELAND		65322070
16	PLUG WIELAND		65322069
17	FAN	120 x 42	65323826
18	AIR DAMPER		65320519
19	ORING	-	65321066
20	COVER AIR INLET		65320132
21	CABLES	TC	65325252
		TL	65325253
22	ELECTRODES		65320924
23	BLAST TUBE	TC	65320333
-		TL	65320339
24	FIRING HEAD	TC	65325400
-		TL	65325401
25	NOZZLE HOLDER SUPPORT	TC	65320695
		TL	65320699
26	NOZZLE HOLDER	TC	65320708
		TL	65320710
27	DIFFUSER		65320760
28	ROD	TC	65324056
		TL	65320204
29	FLANGE		65325174
30	GASKET		65321071
31	AIR SELECTOR		-
32	REAR DISC		-
33	FAN SCOOP	TC	65320505
_		TL	65320506
34	PIPE GASKET		65321065
35	PIPE		65321508

TC = Short Head TL = Long Head R= Version pre-heater

# BUBBLE PJ MAX AUTO BOILER HORIZONTAL & VERTICAL VERSION PARTS LIST 27-04-18

	MAIN COMPONENTS FIG1	PER BOILER	USED ON	PT NO
1 1A	BOILER COMPLETE FABRICATION WITH DRIP TRAY HORIZONTAL VERSION BOILER COMPLETE FABRICATION	1	VERTICAL HORIZONTAL	87-01-900-30A55 87-01-900-30A55H
2	TOP PLATE FRONT ASSEMBLY WITH FLANGE AND GASKET PRE ASSEMBLED	1	BOTH VERSIONS	87-01-900-7A55MAX
3	TOP PLATE FRONT SINGLE ITEM PART OF 87-01-900A55MAX	1	BOTH VERSIONS	87-01-900-7
4	BURNER MOUNTING FLANGE SINGLE ITEM PART OF B7-01-900-7A55MAX	1	BOTH VERSIONS	87-01-900-FLANGE
5	BURNER MOUNTING FLANGE GASKET (USE HT SILICONE TO SEAL BOTH SURFACES)	1	BOTH VERSIONS	87-01-900-GA5KET
6 6A	TOP PLATE REAR WITH FLUE OUTLET HORIZONTAL VERSION REAR OUTLET COVER PLATE	1	VERTICAL HORIZONTAL	87-01-900-8A55
6B	HORIZONTAL VERSION FLUE OUTLET ADAPTOR	-	HORIZONTAL	
7	BAFFLE PLATE SINGLE PART NO (4 RQUIRED PER SET.)	4		87-01-900-20
8	CONTROL PANEL ASSEMBLY COMPLETE	1	BOTH VERSIONS	87-01-900-90A55MAX
9 10	BURNER COMPLETE ASSEMBLY WITHOUT FUEL HOSES FLEXI RUBBER HOSES FOR BURNER ASS COMPLETE	2	BOTH VERSIONS BOTH VERSIONS	77-01-425-B 87-01-900-58
10A	HORIZONTAL VERSION BASE MOUNTING PLATE ASSEMBLY	1	HORIZONTAL	87-01-900-58 87-01-900-8PHA55
10B	HORIZONTAL VERSION FASTENING STRAPS	2	HORIZONTAL	
100	HORIZONTAL VERSION RIGHT SIDE CONTROL MOUNTING BRACKET	1	HORIZONTAL	87-01-900PMPH
10D 10E	HORIZONTAL VERSION LEFT SIDE CONTROL MOUNTING BRACKET HORIZONTAL VERSION FOR REMOTE MOUNTING (NOT YET DEVELOPED)	1	HORIZONTAL HORIZONTAL	
10C		1	HORIZONTAL	87-01-900-TPRP
	BOILER SEALS AND INSULATION FIG1			
11	BOILER TOP INSULATION BOARD	1	BOTH VERSIONS	87-01-900-72
12	TOP PLATE FRONT ROPE SEAL (BEDDED ON HT BLACK SILICONE)	1	BOTH VERSIONS	87-01-900-83
13	TOP PLATE REAR ASS ROPE SEAL (BEDDED ON HT BLACK SILICONE)	1	BOTH VERSIONS	87-01-900-84
14	ONE PIECE WRAP AROUND INSULATION BLANKET, THINSULATE	1	BOTH VERSIONS	87-01-900-8714
14A 15	BASE PIECE INSULATION THINSULATE 3M ALLUMINIUM TAPE TO FASTEN THINSULATE BLANKET TO BOILER	1	HORIZONTAL BOTH VERSIONS	87-01-900-87 TAPE002
15A	6MM WIDE SELF ADHESIVE GLASS FIBRE TO FORM A GASKET FOR THE HORIZON FLUE ADAPTOR-TOP PLA	1	HORIZONTAL	87-01-900-85A
	INSTRUMENTATION AND WIRING FIG1			
16	BOILER CONTROL PANEL PLATE (MOUNTING PLATE FOR THE THERMOSTAT CONTROL BOX)	1	VEDITCAL	87-01-900-1MAX
16 17	BOILER CONTROL PANEL PLATE (MOUNTING PLATE FOR THE THERMOSTAT CONTROL BOX) IMIT THERMOSTAT BOX ASSEMBLY (TO BE FITTED TO THE MOUNTING PLATE)	1	VERTICAL BOTH VERSIONS	87-01-900-1MAX 77-07-1010A
18	BOILER STAT (NOT SOLD SEPARATLY THIS COMMPONENT IS PART OF 87-01-900-90ASSMAX)	1	BOTH VERSIONS	87-01-900-90A55MAX
19	SAFETY RESET STAT (NOT SOLD SEPARATLY THIS COMMPONENT IS PART OF 87-01-900-90ASSMAX)	1	BOTH VERSIONS	87-01-900-90A55MAX
20	MAINS INPUT 3 CORE CABLE ONLY .75MM WHITE	1	VERTICAL	87-01-900-90MAX
21 21 <b>A</b>	BURNER INPUT 3 CORE CABLE ONLY .75MM WHITE INPUT THERMO-WATT E-BCU DIGITALDIAGNOSTIC KIT (OPTIONAL EXTRA)	1	VERTICAL BOTH VERSIONS	87-01-900-89MAX 87-01-900-DK
		-		
	PLUMBING FIG1			
22 23	AIR VENT BOILER UNIONS	2	VERTICAL BOTH VERSIONS	77-01-017-H 77-01-767
23		2	BOTH VERSIONS	//-01-/0/
	FASTENERS			
24	M8 FLANGED NUT FOR BURNER FASTENING	1	BOTH VERSIONS	87.01.000.21
25 26	BOILER FASTENING DOWN BRACKETS M10 NUTS FOR FRONT AND REAR BOILER TOP PLATES	6	VERTICAL BOTH VERSIONS	87-01-900-31 77-02-010-6
27	M10 WASHERS FOR FRONT AND REAR BOILER TOP PLATES	6	BOTH VERSIONS	77-01-057
28				
28	BURNER MOUNTING FLANGE FASTENERS M8 X 25 COUNTERSUNK SETSCREWS	2	BOTH VERSIONS	77-01-211A
29	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS	2	BOTH VERSIONS	87-01-900-94
		2		
29	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS	2	BOTH VERSIONS	87-01-900-94
29	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS	2	BOTH VERSIONS	87-01-900-94
29	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS	2	BOTH VERSIONS	87-01-900-94
29 30	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840	2	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18
29 30	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE	2	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18
29 30 31 32	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUELING FLUE LINER X 1METER FLUE LINER X 1METER	2 2 2	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750
29 30 31 32 33	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINES MARINE GRADE TO BS ISO 7840 FLUELINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY	2 2 2 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298
29 30 31 32 33 34	MB HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY PIT THROUGH SIDE ADDAPTOR	2 2 2 1 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 87-01-900-58 77-02-750 87-01-900-298 77-02-770
29 30 31 32 33 34 35	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X 1METER FLUE LINER X 1METER THROUGH SIDE TUBE ASSEMBLY DI THROUGH SIDE TUBE ASSEMBLY SID HODAPTOR 9C DEGREE ELBOW	2 2 2 1 1 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678
29 30 31 32 33 34	MB HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY PIT THROUGH SIDE ADDAPTOR	2 2 2 1 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 87-01-900-58 77-02-750 87-01-900-298 77-02-770
29 30 31 32 33 34 35 36 37	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE INER X 1METER THROUGH SIDE TUBE ASSEMBLY PI THROUGH SIDE TUBE ASSEMBLY PI THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE)	2 2 2 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-778 77-02-678 77-01-9158
29 30 31 32 33 34 35 36 37 38 39	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE INER X 1METER THROUGH SIDE TUBE ASSEMBLY PI THROUGH SIDE ADDAPTOR 9C DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LASGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK STLICONE SEALENT FOR LAGSING	2 2 2 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-02-771 87-06-062-A 77-01-996
29 30 31 32 33 33 34 35 36 37 38 39	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X 1METER FLUE LINER X 1METER THROUGH SIDE TUBE ASSEMBLY PIT THROUGH SIDE TUBE ASSEMBLY 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH	2 2 2 1 1 1 1 1 2 1 1 2	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 87-01-900-58 87-01-900-298 87-01-900-298 77-02-770 77-02-678 77-02-678 77-02-771 87-06-062-A
29 30 31 32 33 33 34 35 36 37 38 39	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X 1ME TER FLUE LINER X 1ME TER THROUGH SIDE ASSEMBLY YI THROUGH SIDE ADAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILLCONE SEALENT FOR LAGSING HORIZONTAL VERSION FLUE OUTLET ADAPTOR	2 2 2 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-02-771 87-06-062-A 77-01-996
29 30 31 32 33 34 35 36 37 38 39 40	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLUEINE FLUEINE FLUE LINER X IMETER THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAM'S FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILLCONE SEALENT FOR LAGSING HORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2	2 2 2 1 1 1 1 2 1 1 2 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 87-01-900-298 77-02-770 77-02-770 77-02-678 77-01-9158 77-01-9158 77-01-996 87-01-900FA
29 30 31 32 33 34 35 36 37 38 39 40 1	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUEING FLUE LINER X 1METER THROUGH SIDE TUBE ASSEMBLY TY THROUGH SIDE TUBE ASSEMBLY 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILICONE SEALENT FOR LAGEING HORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFP1IR3 071N0143 P/N 65327099	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-02-771 87-06-062-A 77-01-996
29 30 31 32 33 34 35 36 37 38 39 40 1 2	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY RJ THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILCONE SEALENT FOR LAGGING HORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFPIRS 071ND143 P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118	2 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS HORIZONTAL BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-01-9158 77-01-9158 77-01-996 87-01-900-5A
29 30 31 32 33 34 35 36 37 38 39 40 1	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUEING FLUE LINER X 1METER THROUGH SIDE TUBE ASSEMBLY TY THROUGH SIDE TUBE ASSEMBLY 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILICONE SEALENT FOR LAGEING HORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFP1IR3 071N0143 P/N 65327099	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS BOTH VERSIONS HORIZONTAL BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-01-9158 77-01-9158 77-01-996 87-01-900-5A
29 30 31 32 33 34 35 36 37 38 39 40 1 2 2 3	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY RV THROUGH SIDE SFALF FOR LUBE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILCONE SEALENT FOR LAGGING HORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFPIIR3 07IN0143 P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325512 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 6532512 OIL PUMP SOLENOID TOTO FOR JUBE PIN 65074172 PUMP ADAPTOR TO FASTEN FLEXI OIL PIPE TO OIL PUMP (NIPPLE) P/N 65321179	2 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 87-01-900-58 77-02-770 77-02-770 77-02-770 77-02-678 77-02-771 87-05-052-4 87-01-905 87-01-900-64 87-01-900-04 87-01-900-04 87-01-472
29 30 31 32 33 34 35 36 37 38 39 40 1 2 3 4 5 7	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLUE INE FLUE INE X 1METER FLUE LINER X 1METER THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAM'S FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILICONE SEALENT FOR LAGSING HORIZONTAL VERSION FLUE OUTLET ADAPTOR DANFOSS OIL PUMP SFPIIRS 07INDIAS P/N 65327099 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325612 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65321179 FLITER (EYTERNAL TO THE BURNER) PM 65070549	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-02-970 77-02-678 77-01-9158 87-01-900-54 87-01-900-54 87-01-900-04
29 30 31 31 33 33 34 35 36 37 38 39 40 1 2 3 3 4 5 5 7 8	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE INER X 1METER THROUGH SIDE TUBE ASSEMBLY PI THROUGH SIDE TO THROUGH SIDE SIDE SIDE SIDE SIDE SIDE SIDE PI THROUGH SIDE COUPLING P/N 65327099 PI THROUGH SIDE SIDE SIDE SIDE SIDE SIDE SIDE SIDE	2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-770 77-02-778 77-02-771 87-06-062-A 77-01-996 87-01-900-54 77-01-470 87-01-900-04 87-01-900-04 87-01-900-103
29 30 31 32 33 34 35 36 37 38 39 39 40 1 2 3 3 5 7 7 8 6 6	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY RY THROUGH SIDE TUBE ASSEMBLY RY THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILCONE SEALENT FOR LAGGING HORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP SFPIRS 07IND143 P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325612 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327179 FLITER (EXTERNAL TO THE BURNER) P/N 65070549 COVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS	2 2 2 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 87-01-900-58 77-02-770 77-02-770 77-02-678 77-02-770 77-02-678 77-02-771 87-05-052-4 87-01-905 87-01-900-64 87-01-900-04 87-01-470
29 30 31 31 33 33 34 35 36 37 38 39 40 1 2 3 3 4 5 5 7 8	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE INER X 1METER THROUGH SIDE TUBE ASSEMBLY PI THROUGH SIDE TO THROUGH SIDE SIDE SIDE SIDE SIDE SIDE SIDE PI THROUGH SIDE COUPLING P/N 65327099 PI THROUGH SIDE SIDE SIDE SIDE SIDE SIDE SIDE SIDE	2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-770 77-02-778 77-02-771 87-06-062-A 77-01-996 87-01-900-54 77-01-470 87-01-900-04 87-01-900-04 87-01-900-103
29 30 31 32 33 33 33 33 33 33 33 34 35 36 37 38 39 40 2 3 3 4 5 5 7 7 8 6 9	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLUE INE FLUE INER X IMETER THROUGH SIDE TUBE ASSEMBLY PIT THROUGH SIDE ADDAPTOR 90 DESREE ELBOW FLAT ROPE SEAL FOR 90 DESREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILL CONTAL VERSION FLUE UNER TO THROUGH SIDE FITTING HUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILL CONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP SFPIIRS 07INDIAS P/N 65327099 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325512 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325512 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65321179 FILTER (EXTERNAL TO THE SURNER) PIN 6507649 COVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-770 77-02-771 87-06-062-A 77-01-996 87-01-900-4 87-01-900-04 87-01-900-04 87-01-900-103
29 30 31 32 33 33 33 33 33 33 33 33 33 33 33 33	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLUEING FLUE LINER X IMETER THROUGH SIDE ADDAPTOR 90 DESREE ELBOW FLAT ROPE SEAL FOR 90 DESREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAM'S FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILLCONE SEALENT FOR LAGBING HORIZONTAL VERSION FLUE OUTLET ADAPTOR DANFOSS OIL PUMP SFPIRS OTINDIAS P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325512 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325512 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325512 OIL PUMP SOLENOID TO THE JURNER) P/N 65074172 PUMP ADAPTOR TO FASTEN FLEXI OIL PIPE TO OIL PUMP (NIPPLE) P/N 65321179 FLITER (EXTERNAL TO THE SURNER) P/N 6507549 COVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR CAPACITOR 3W AEG 65321887 CAPACITOR 3W AEG 65321887 CAPACITOR SUMPLE STAMED STYPE EB14 M No 052F4038	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 87-01-900-298 77-02-770 77-02-770 77-02-771 87-05-062-4 77-01-9158 77-01-9158 77-01-905 87-01-900-58 87-01-900-04 87-01-900-04 87-01-900-103 87-01-900-58 0 DANFOSS EB14 M 082F40
29 30 31 32 33 34 35 36 37 38 36 37 38 36 37 37 38 36 40 1 2 3 36 40 1 2 3 1 1 2 3 1 1 1 2 3 1 1 1 1 1 1 1 1	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY PJ THROUGH SIDE TUBE ASSEMBLY PJ THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH ELACK SILCONE SEALENT FOR LAGSING MORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFPIIR3 071N0143 P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325612 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID STEM SOT4172 PUMP ADAPTOR TO FASTEN FLEXI OIL PIPE TO OIL PUMP (NIPPLE) P/N 6532179 FILTER (EXTERNAL TO THE BURNER) P/N 65070549 GOVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR GAPACITOR SUF AGENTED AND FOR THAT HOSES USED IN UK MUST BE TO BS MOTOR GAPACITOR SUF ASSENSIONS IGNITION TRAINSFORMER DANFOS TYPE EBI4 M No 052F4038 SUPPORT PLATE ON WHICH THE ISNITION TRANSFORMER IS MOUNTED	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-02-678 77-02-678 77-02-678 77-02-678 77-02-678 77-02-678 77-02-678 77-02-770 77-02-678 77-02-678 87-01-900-68 87-01-900-103 87-01-900-103 87-01-900-58 DANFOSS EB14 M 052F400 not regular spare
29 30 31 32 33 34 35 37 38 36 37 38 36 37 38 36 37 38 5 7 8 6 9 9 10 11 12 13	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY PI THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT RORE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILCONE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILCONE SEAL FOR 90 DEGREE PLOW MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFPIIR3 071N0143 P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 6532512 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 6532512 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 6532512 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 6532179 FLITER (EXTERNAL TO THE BURNER) P/N 65070549 COVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR CAPACITOR SUF AGE 65321857 CAPACITOR SUF AGE 6532033 IENITION TRANSFORMER DANFOS TYPE EBI4 M No 052F4038 SUPPORT PLATE ON WHICH THE FONITION TRANSFORMER IS MOUNTED THERWOWAT CONTROL BOX WITH CABLES OID P/N 06322025 new pt no65324048 NEW A24	2 2 2 2 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 87-01-900-298 77-02-770 77-02-770 77-02-771 87-06-062-4 87-01-9158 77-01-958 87-01-900-6 87-01-900-6 87-01-900-103 87-01-900-103 87-01-900-58 87
29 30 31 32 33 33 33 33 33 33 33 33 33 33 34 35 36 37 38 39 40 1 2 3 3 40 5 5 7 7 8 6 9 9	M8 HALF NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OIL LINE FLEXI OIL LINES MARINE GRADE TO BS ISO 7840 FLUE LINER X IMETER THROUGH SIDE TUBE ASSEMBLY PJ THROUGH SIDE TUBE ASSEMBLY PJ THROUGH SIDE ADDAPTOR 90 DEGREE ELBOW FLAT ROPE SEAL FOR 90 DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITTING FLUE LAGGING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH ELACK SILCONE SEALENT FOR LAGSING MORIZONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFOSS OIL PUMP BFPIIR3 071N0143 P/N 65327099 OIL PUMP SOLENOID (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65325612 OIL PUMP SOLENOID STEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID STEM SOT4172 PUMP ADAPTOR TO FASTEN FLEXI OIL PIPE TO OIL PUMP (NIPPLE) P/N 6532179 FILTER (EXTERNAL TO THE BURNER) P/N 65070549 GOVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR GAPACITOR SUF AGENTED AND FOR THAT HOSES USED IN UK MUST BE TO BS MOTOR GAPACITOR SUF ASSENSIONS IGNITION TRAINSFORMER DANFOS TYPE EBI4 M No 052F4038 SUPPORT PLATE ON WHICH THE ISNITION TRANSFORMER IS MOUNTED	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-770 77-02-678 77-02-978 87-01-900-298 87-01-900-4 87-01-900-4 87-01-900-103 87-01-900-103 87-01-900-103 87-01-900-58 DANFOSS EB14 M 052F403 not regular spare
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29 30 31 32 33 33 33 33 33 33 33 33 33 33 33 34 35 36 37 38 39 40 12 2 3 3 4 40 11 12 13 14 11 12 13 14 11 12 13 14 12 13 14 12 13 14 12 13 14 12 13 13 13 13 13 13 13 13 13 13 13 13 13	MB HALE NUTS FOR BURNER MOUNTING FLANGE FASTENERS SPLIT PIN FOR THERMOSTAT PHIAL FASTENING OLLINE FLUELINE FLUELINE FLUELINE FLUELINE FLUELINES MARINE GRADE TO BS ISO 7540 FLUELINE FLUELINER X IMETER THROUGH SIDE TUBE ASSEMBLY PJ THROUGH SIDE ADDAPTOR SO DEGREE ELBOW (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITING FLUE LAGEING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILIZONE SEALENT FOR LOEDY (12MM X 3MM SELF ADHESIVE) HEAVY DUTY CLAMPS FOR FLUE LINER TO THROUGH SIDE FITING FLUE LAGEING (INSULATION FOR FLUE) 7 METERS FOR STANDARD FLUE LENGTH BLACK SILIZONE SEALENT FOR LAGEING MONTAL VERSION FLUE OUTLET ADAPTOR MAX 1 BURNER SPARES FIG2 DANFGSS OIL PUMP SPIRIS OTINOIA3 P/N 65327099 OIL PUMP SOLENOID SIEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65327118 OIL PUMP SOLENOID SIEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 6532718 OIL PUMP SOLENOID SIEM (SUPPLIED WITH REPLACEMENT PUMP.) P/N 65321179 FLITER (EXTERNAL TO THE BURNER) P/N 65070549 COVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR CAPACITOR SUF SIMBLE 65321807 CAPACITOR SUF SIMBLE 65321807 CAPACITOR SUF ALSON FOLSE OIL PUMP (SUPRE DID MITH CAPACINES SUPPORT PLATE NONFOS TYPE EB14 M NG 052F4038 SUPPORT PLATE ON WHICH THE ANDARDORAER IS MOUNTED THERMOWAT JOINTED ADAPTOR TO FAILED WITH CABLES OID P/N 65325020 IGAPACITOR SUF AIDMERD ADAPTOR TO FAILED ADAPTOR TO FAILED FOOLL PUMP (NIPPLE) P/N 65321179 FLITER (EXTERNAL TO THE BURNER) P/N 65070549 COVER FLEXI HOSES NOTE THAT HOSES USED IN UK MUST BE TO BS MOTOR CAPACITOR SUF AISMERE BANFOS TYPE EB14 M NG 052F4038 SUPPORT PLATE ON WHICH THE ISMITION TRANSFORMER IS MOUNTED THERMOWAT JOINTED THAT HOSES USED IN UK MUST BE TO BS MOTOR CAPACITOR SUF AISMERE DANFOS TYPE EB14 M NG 052F4038 SUPPORT PLATE ON WHICH THE ISMITION TRANSFORMER IS MOUNTED THERMOWAT JOINTED THAT HOSES USED IN UK MUST BE TO BS MOTOR CAPACITOR SUF AISMERE DANFOS TYPE EB14 M NG 052F4038 SUPPORT PLATE ON WHICH THE ISMITION TRANSFORMER IS MOUNTED THERMOWAT JOINTED THAT HOSES USED IN WHICH	2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	BOTH VERSIONS BOTH VERSIONS	87-01-900-94 87-01-900-18 87-01-900-18 87-01-900-58 77-02-750 87-01-900-298 77-02-770 77-02-678 77-02-678 77-02-678 77-02-678 77-01-958 87-01-900-64 87-01-900-64 87-01-900-103 87-01-900-103 87-01-900-103 87-01-900-58 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1
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# 6. AMENDMENTS.

1. 03-05-13 Nozzle angle changed from 60 degree solid to 45 degree solid. Current nozzle is a Danfoss .4 USG × 45 DEG S.

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