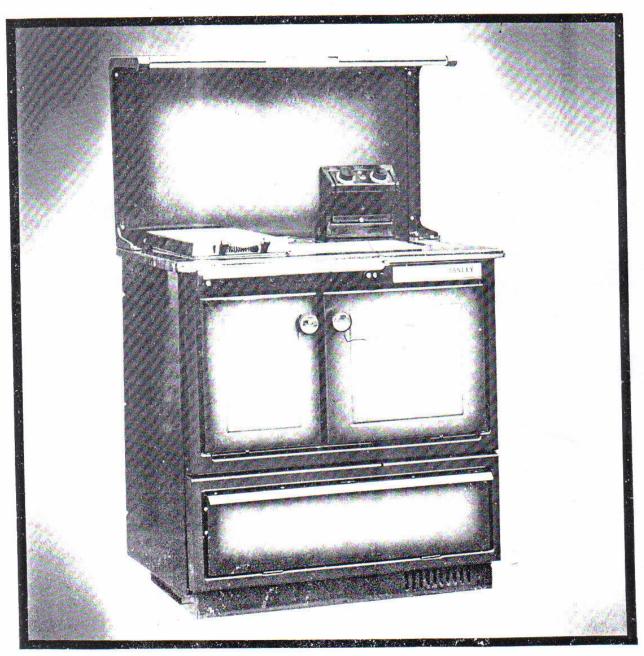
# Oil-Fired STANLEY De-Luxe 90



To ensure safety, satisfaction and maximum service, this quality Cooker should be installed by a trained and competent installer. The provision of a Central Heating facility, requires that the hot water systems involved, conform fully to good plumbing practice and established standards.

INSTALLATION AND OPERATING INSTRUCTIONS

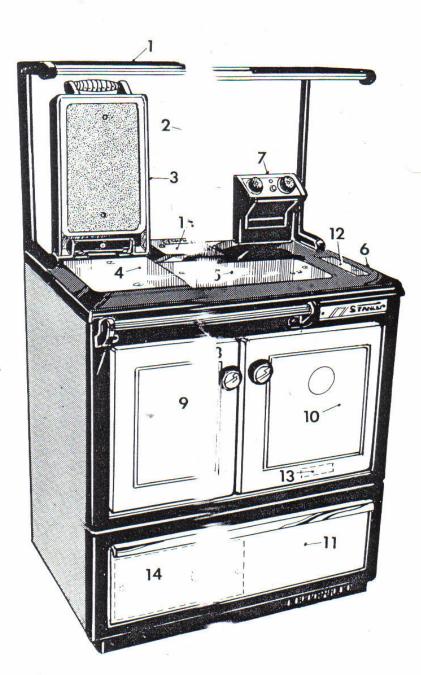
# INTRODUCTION

Congratulations on purch.. high standards and it will g

Please read the following I.

his fine Irish made Oil-fired Central Heating Cooker. It is built to our usual every satisfaction in use.

tion before operating this excellent product.



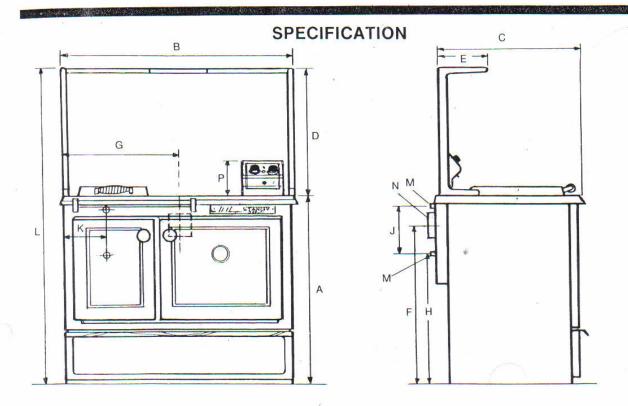
- 1. Plate Rack (to order)
- 2. Splash Back (to order)
- 3. Hot Plate Cover
- 4. Hot Plate
- 5. Simmer Plate
- 6. Hob
- 7. Thermostat Control Panel
- 8. Towel Rail
- 9. Fire Door
- 10. Oven Door
- 11. Warming Drawer
- 12. Side Flue Cleaning Plate
- 13. Front Cleaning Door
- 14. Burner Cover Plate
- 15. Hob Blanking-off Plate



Boiler capacity: 5.6 Litres = 1.25 Gallons Cooker weight: 338 kgs. = 743 lbs.

The Manufacturers reserve the right to for manufacturing or other reasons sub.

rations to design, materials or construction to publication.



DIMENSIONS	Α	В	С	D	Е	F	G	Н	J	K	L	М	N	Р
METRIC (MILLIMETRES)	920	889	568	505	283	734	442	630	230	50	1425	1" BSP	127	205
IMPERIAL (INCHES)	361/4	35	223/8	20	111/8	287/8	173/8	243/4	87/8	2	561/8	1" BSP	5"	81/8

FEATURE	METRIC	IMPERIAL		
HOT PLATE	368 x 252	14½" x 10"		
SIMMER PLATE	390 x 246	15¾" x 9¾"		
OVEN	400W x 324H x 396D	15¾"W x 12¾"H x 15¾"D		
WARMING OVEN	390W x 290H x 440D	153/8"W x 113/8"H x 171/4"D		

Cooker Output:

At 1.8 Kg = 2.08 Litres Kerosene/Hour

Gross Output:

20 KW = 69,000 BTUs/Hour

Net To Water:

13.7KW = 47,000 BTUs/Hour (Max.)

Jet:

60 Degree Hollow Pattern (0.55 U.S. gallons)

Oil Pressure:

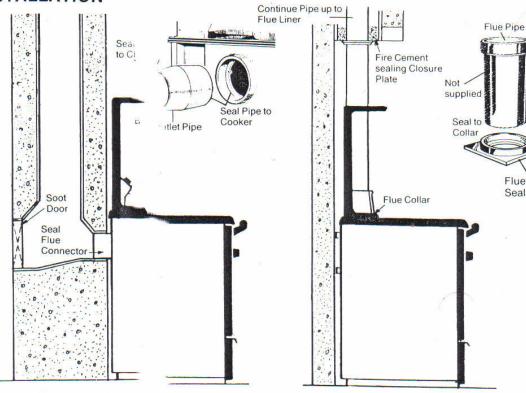
8.16 Atmospheres = (120 p.s.i.)

Radiation Surface:

Heating Surface only 22.2 sq. metres = 240 sq. ft.

Heating and Domestic Hot Water 19.4 sq. metres = 210 sq. ft.

# INSTALLATION



# PRE-INSTALLATION CHEE

Before installing your new C. chimney is clean and clear of . brickwork and leaking joints s The chimney should have a croleast 176 sq. cm. or an inner dia similar direct air inlet is required combustion.

Where flue piping passes thro. sliding door, ensure that the pigultimately connected to the flue with fire cement.

Do not connect to a chim appliance. Always ensure that veconnection is to a chimney of the same size - ne. smaller dimensions. Chimneys ... ily constructed of single skin pipe are not reco. circumstances. Due to their the lity to retain heat such chimneys will inevitably granted to the formation of condensation.

# COOKER CLEARANCE

The cooker should not be instantiat zero clearance to combustible materials. The minimum clearance of at combustible materials un! insulated.

When the Cooker is backed combustible material it sho protection in the form of no covered with sheet steel.

r, check that the Fuctions. Cracked d be made good. ectional area of at er of 15 to 23 cm. A re room to support

losure plate with intinues up and is or and well sealed

serving another connect to one of anded under any

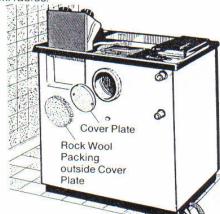
his should have a † 7.5 cm. from otherwise fully

igainst a wall of have adequate hestos millboard

### CHIMNEY HEIGHT

The flue must be high enough (more than 4.6 m. in any case) to allow the flue gases to vent into clean air, away from the turbulence that may be caused by roof structures, other chimney stacks, etc. The venting position should be 1.0 m. above any obstruction within a 7.6 m. radius.

Flue Collar. Seal to Hob



# THERMOSTAT CONTROL PANEL

When you unpack the cooker the control panel will be fitted into a socket in the back of the cooker. Swing the control panel out of this recess and place it on the hob. Fix it in position with the two screws and gasket provided.

Be careful not to damage any of the electrical connections and capillary tubes when fitting on the control panel.

Where the standard masonry chimney is not available, a proprietory type of twin wall, fully insulated pipe may be used. As already stated, the minimum inner diameter must not be less than 15 cm. and the pipe must terminate at a point not lower than the main ridge or adjacent outside obstructions. With such installations, access to the chimney must be provided for cleaning purposes.

# **FLUE PIPES**

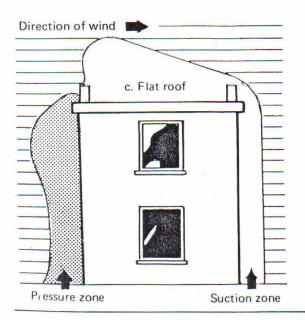
Square bends and long horizontal runs of flue piping must be avoided. A Back outlet Pipe is provided with the cooker. A Top outlet Pipe is available. ALL FLUE CONNECTIONS MUST BE THOROUGHLY SEALED. Blocked chimneys are dangerous, use only recommended fuels, keep chimneys and flue ways clear; read the operating instructions.

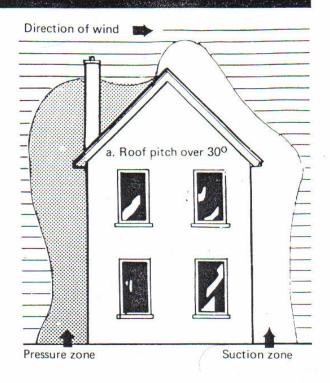
#### CHIMNEY CLEANING

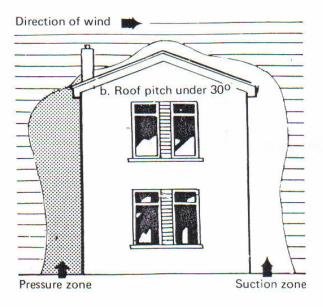
Whichever type of flue is chosen, there must be cleaning access to the whole flue system. The flue of the chimney will need to be cleaned regularly. How often will depend a lot on how your Cooker is run, but, to start with, make a point of inspecting the flue system every six months. This period may well be extended as time goes by if there is little sign of deposits.

#### **HEARTH CONSTRUCTION**

When a properly constructed hearth is not available we recommend that the Cooker be placed on a slab or foamed concrete 4 cm or a slab of other insulating material. This hearth must extend at least 45 cm to the front and 30 cm each side.







## DRAUGHT REQUIREMENTS

When a draught recorded is over .06 inches W.G. a draught stabiliser should be fitted on the outside wall of the chimney or fit a cowl to the chimney top.

Remember, a proper flue is necessary for the efficient operation of your Oil Cooker to provide a steady draught of between .04 and .06 inches W.G.

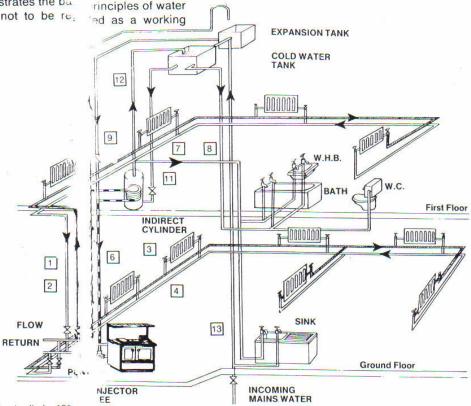
The cooker is fitted with a pressure Jet burner and will not be affected by down-draught conditions.

# **PLUMBING**

RADIATOR	FIRST
HEATING	FLOOR
CIRCUITS	GROUND
23	FLOOR
CYLINDER	FIRST
HEATING	FLOOR
CIRCUIT	

F	UNCTION	PIPE	FUNCTION		
PUMPED	FLOW TO RADIATORS	7	HOT WATER FLOW		
PUMPED	RETURN EX "	8	COLD WATER (EX TANK)		
PUMPED	FLOW TO RADIATORS	9	COLD FEED-HEAT SYSTEM		
PUMPED	RETURN EX "	10	OPEN VENT-HEAT SYSTEM		
GRAVITY	FLOW TO CYLINDER	11	COLD FEED TO CYLINDER		
GRAVITY	RETURN EX "	12	HOT WATER VENT		
		13	MAINS WATER		
		Т	THERMOSTAT		
	8	X	ISOLATING VALVES		

This diagram illustrates the basystems and is not to be readrawing.



Recommended indirect cylinder 135 each in length. Cylinder and pipe work

res, depending on domestic requirements with a 2.5 cm flow and return pipes not exceeding 7.8m ad be lagged to minimise heat losses.

# REGULATIONS

The Plumbing must be in accordage regulations and practices. It is circuit with expansion pipe, open the central heating will normal with other types of boiles thermostatically controlled by to Cooker Hob.

e with all relevant include a gravity the atmosphere. pump-driven as The system is it mounted on the

# **BOILER OUTPUT**

High output cannot be maintain, burned at a rate of 2.08 Litres p.

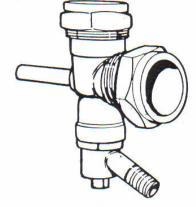
aless fuel is being or of Kerosene.

# **GRAVITY CIRCUIT**

The gravity circuit consists of the domestic hot water tank of 135 — 180 litres indirect cylinder, fixed in an upright position, recommended for hot water storage and it should be connected to the boiler by 25 mm diameter flow and return piping. The pipes should not exceed 7.8 m. each in length and anything in excess of 4.6 m. must be fully lagged. The shorter the run of pipe work the more effective the water heating efficiency and to this end, the cylinder should be fully lagged. For safety's sake do not have any valves on this circuit.

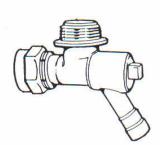
# INJECTOR TEE

Where the gravity and central heating circuits join together to return to the Cooker we recommend the use of an injector tee connection, situated as close to the unit as possible. This type of tee encourages a stable flow of hot water through both circuits and helps to prevent priority being given to the stronger flow, which is most commonly the pumped central heating circuit. This way, there will be no shortage of hot water to the taps when the heating is on.



# WATER CIRCUIT TEMPERATURE

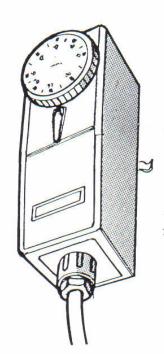
The return water temperature should be maintained at not less than 40°C. so as to avoid condensation on the boiler and return piping. Fitting a pipe thermostat to the flow pipe of the gravity circuit and wiring it into the pump control will ensure rapid circulation of the hot water to avoid premature burner shut down being activated by the Cooker thermostat.



# PIPE THERMOSTAT

The fitting of a pipe thermostat to the flow pipe is absolutely essential in order to activate the water circulation pump when the water reaches the selected temperature.

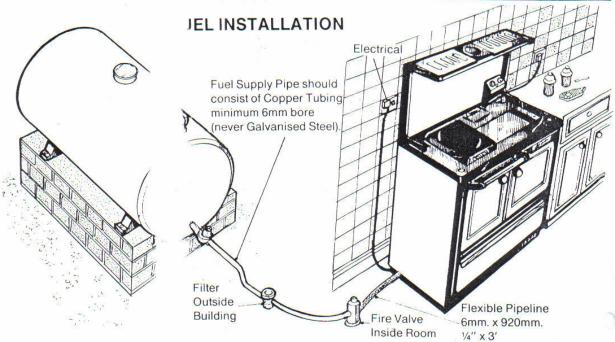
When the water temperature falls below the selected temperature the pipe thermostat will cut off the water circulation pump in order to allow the boiler to recover. Ensure that the pipe thermostat is fitted on the flow pipe and as close as possible to the cooker. The recommended setting should be between 45°C. and 55°C.



# **FUEL CALORIFIC VALUES**

Kerosene 28 sec. -

Calorific Value: 8354 Calories = 33,150 BTUs per Litre/Hour.



# **FUELS**

THE RECOMMENDED FUE BURNER IS KEROSENE 28 FUEL OIL.

Gas Oil 35 second viscosity is to high servicing requirement coagulation in severe cold whom we will be sent to premature blocking of the juin the fuel.

If possible, purchase fuel from time.

# **FUEL SUPPLY LINE**

Pipes should consist of

THE COOKER

the possibility of conditions. The ctor diesel oil due sed by inhibitants

ame source each

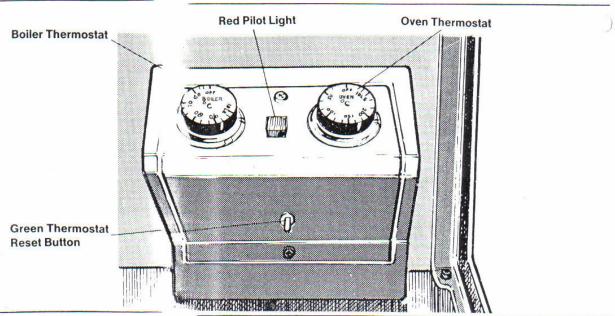
tube (NEVER

galvanised steel), the final connection to the burner pump inlet port being made with the length of flexible pipe supplied with the burner. Joints should be made with compression fittings, not by soldering.

When gravity feed is used (the most common), the maximum head should not exceed 4 m. (equivalent to a pressure of 35 kPa).

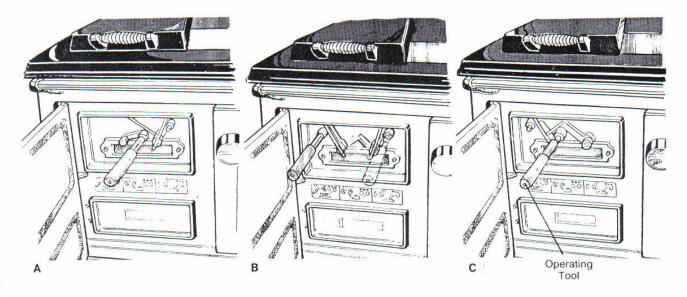
Note that the pump is factory set for single pipe installation.

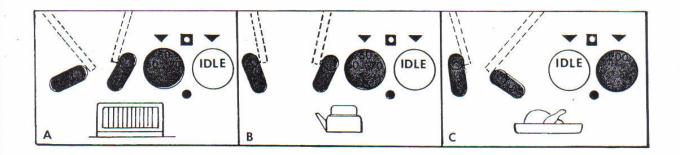
IT IS ABSOLUTELY ESSENTIAL THAT A SUITABLE FIRE SAFETY VALVE BE FITTED ON THE OIL SUPPLY LINE BETWEEN THE COOKER AND OIL FILTER, ADJACENT TO THE COOKER.



# **OPERATION**

- 1. Ensure that the control panel thermostats are in the "off" position.
- 2. Switch on the mains electric supply.
- 3. Turn on the oil supply.
- 4. Select the heating mode required by opening the fire door and moving the boiler baffle levers with the tool provided, to the required position.





# Setting A. High Boiler Output with Hot Plate and Oven.

- 1. Move the Left-hand Control Lever to the right.
- 2. Set the Oven thermostat to Idle.
- 3. Set the Boiler thermostat to required temperature.

# Setting B. High Hotplate Output, with Boiler and Oven.

- Move Left-hand Control Lever to the left and move Right-hand Control Lever to the right.
- 2. Set the Oven thermostat to Idle.
- 3. Set the Boiler thermostat as required.

# Setting C. High Oven Output with Hot Plate and Low Boiler Output.

- 1. Move Right-hand Control Lever to the left.
- 2. Set the Boiler thermostat to Idle.
- Set the Oven thermostat to the required cooking temperature.

Pilot Light. Red Pilot Light will got out when oven reaches temperature selected.

**Reset Button.** Green thermostat reset button will pop out if thermostat settings are exceeded.

To reset — press button inwards.

To switch off. Turn both thermostats to off.

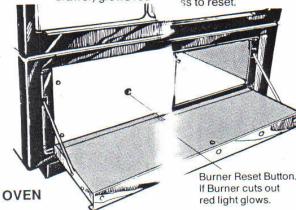
# BURNER DOES NOT IG:

Check (a) that electricity is sv. Check (b) that oil supply valve Check (c) that the green the pressed in:

Check (d) that the burner res burner reset button. drawer) glows red

don; en: tat reset button is

ton is pressed in. If ted inside warming ss to reset.



The MAIN OVEN is heated on cook food evenly when bakin, C. The warming compartment. only, and it is ideal for heating. ready for serving.

# **CENTRAL HEATING**

The boiler output is determine boiler baffles as follows:

Setting A: Max output 13.7KW Setting B: Max output 7.9KW

Min. output 4.4KW Setting C: Max. output 3.7KW Min. output 2.3KW

(The above may vary slightly o. installation conditions).

The boiler therefore will opera... at Setting A of the controls, with up to 90°C. A range of outputs obtained to suit individual reo. the thermostat between 50°C

the position of the

ur faces and it will

oasting on Setting

eated on top face

and keeping food

00 BTUs.

00 BTUs.

00 BTUs.

00 BTUs.

10 BTUs.

ding on individual

s maximum output a thermostat turned in the boiler may be ments by adjusting 90°C.

#### SUMMER SETTING

For Summer use and lower bo-C. When using the oven in the thermostat to the required tens.

output Use Setting sition turn the oven ture.

# HOT PLATE

The hot plate is machine grou efficiency and it is temperatuside over the burner being the B and the right-hand side is For maximum hotplate tempe:

or maximum heating raded, the left-hand est at settings A and ble for simmering. use Setting B.

# EXTERNAL AUTOMATIC

The cooker may be conn. automatic timeswitch which ... and shut down operation peril.

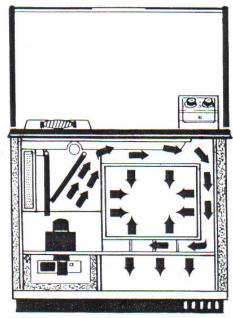
# d to an external ontrol the light up

the cooker.

# MESWITCH

# **ROOM THERMOSTAT**

The Cooker may be connected to a room thermostat in order to maintain an overall even temperature.

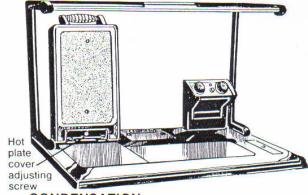


# **COOKING UTENSILS**

For best cooking results and economy of operation use heavy based, flat bottomed utensils.

# HOT PLATE INSULATING COVER

The insulating cover retains most of the heat that would otherwise be radiated into the kitchen. It also retains the heat in the hotplate so that rapid heating of cooking utensils will occur when it is lifted for cooking purposes.



# CONDENSATION

If the Cooker is run for extended periods on the low settings the unit can cool down to an extent that vapour in the flue gases may condense.

This will make the inside of the flueways damp, creating a sooty deposit which will reduce the efficiency of the appliance.

It is best to run the cooker occasionally at the higher settings in order to prevent the formation of condensation

#### SERVICING

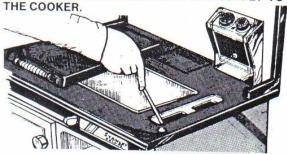
Provided that the Cooker has been operated normally and that the correct grade of oil has been used it will be found that the burner and cooker flueways will not need servicing until approximately every six to twelve months.

We recommend that the Cooker and Burner be serviced by an authorised STANLEY service agent. Your STANLEY distributor will let you have the name of your local service agent.

TO SERVICE THE COOKER, THE FOLLOWING PROCEDURE SHOULD BE ADOPTED.

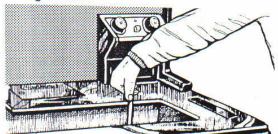
#### WARNING!

SWITCH OFF ELECTRICAL AND OIL SUPPLY TO

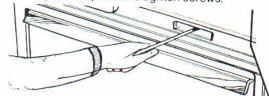


# **FLUE CLEANING**

- Remove the 3 retaining screws from the Hot Plate (No. 4) and Simmer Plate (No. 5) and also the screw of the simmer cleaning plate (No. 12). Remove hotplate and cleaning panels. Remove the front cleaning door (No. 13).
- All deposits from the top of the oven may be brushed down the right-hand side of the oven. Deposits which have accumulated on the righthand side of the oven should also be brushed downwards.
- To remove these deposits thoroughly, clean out the residue from the side flue and base plate through the front cleaning door opening.
- Ensure that all plates and cleaning panels are thoroughly re-sealed with fresh fire cement when being refitted.



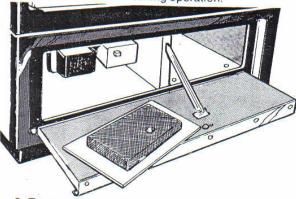
Replace all parts and tighten screws.



# **BURNER SERVICING**

WARNING — SWITCH OFF ELECTRICAL AND OIL SUPPLY TO THE COOKER.

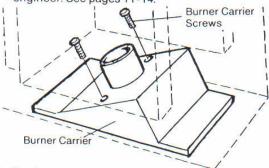
 Remove the 3 Screws and Hot Plates from the cooker as in Flue Cleaning operation.



 To remove the burner take out the four screws from the Cover Plate (No. 14). Break the cement seal and remove the plate. Remove the 2 outer screws from the back plate of the burner carrier from inside the Fire Box and withdraw the burner assembly complete.

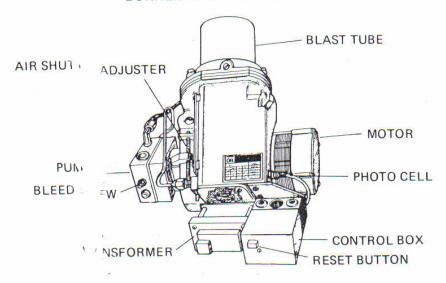
Care should be taken not to damage the electrical and oil leads connected to the burner.

3. The burner may now be serviced by a competent engineer. See pages 11-14.



- 4. To clean deposits from the boiler baffles set them to position B and clean both sides down into firebox. Remove all soot deposits from the boiler and generally clean out firebox area.
  - It is helpful to use a vacuum cleaner to collect dust deposits that will have accumulated.
- Care should be taken when refitting the burner assembly that the insulation material over the burner blast tube is not damaged. Also ensure that the electrical and oil leads are not twisted.
  - When refitting push the burner assembly into position and ensure a good seal. Refit screws, and tighten them.
- Replace the Cover Plate after applying fresh fire cement and tighten the four screws.
- Use new Insulating Rope before replacing the hotplates if necessary. Tighten the 3 retaining screws.
- 8. Switch on electrical and oil supply. The Cooker is now ready for operation.

# **BURNER TECHNICAL DATA**



Motor 90. W. 1 - phase, 2800 rpm. Capacitor 3 uF. Fan 108 Dia x 42 x 8H. Danfoss 9.15 atmospheres (130 psi) Pump S EM 220/14, 600V. 38mA. TV and radio suppressed. Electric Tra rmer Control Danfoss Mounting t Standard SIS Flexible on 1/4" x 3ft. long. Electrodes with porcelain insulation. Ignition ele les Danfoss .55 US Gallons 60 degree hollow pattern. Nozzle Fan House Aluminium die casting Blast Tube PLI Limit Therm-Ranco Control The Ranco stats

# STARTING UP

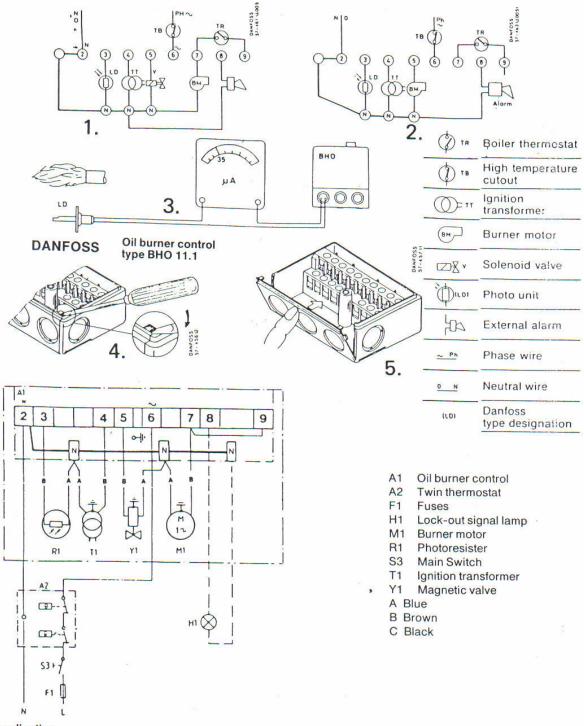
- a) Check that the boiler is full...
- b) Check that all valves in tr. that the filter and oil pump :
- c) Switch on main supply. Bu will attempt to fire (it may be necessary to precontrol box).
  - If flame or ignition fails, the 10 - 15 seconds and rema the safety switch is reset me-
- d) Check that any time thermostats associated with
- The burner is unlikely to for has been purged from the sessure side of the pump via the bleed nipple.
- After the system has a. temperature, a flue gas a smoke should be carried o.

- line are open and nurged of air.
- he reset button on
- introl locks out after in that position until ally.
- atches and room a boiler are "on".
- orrectly until the air
- ved its operating isis and check for

- g) Check the correct position of the Air Shutter, who gives the highest reading of CO2 without exceeding a smoke of No. 0 - 1. (Bacharach). Refer to the manufacturer's (Bacharachs) instructions. The CO2 will normally be in the range of 10% - 13%.
- h) Check the locating plate of inner assembly. It's normally set in forward position. At abnormal pressure in the combustion chamber the nozzle position can be moved backwards via an adjustable locating plate to stabilise the flame. Check the oil connection from storage tank via oil filter.

The pressure in the pump is factory set. If adjustment is necessary, this must only be done in conjunction with an oil pressure gauge.

# OIL BURNER ELECTRICAL CONTROLS



Application

Oil burner control type BHO11.1/1 is used for controlling and monitoring single-stage oil burners. In accordance with valid standards (ISO 3544 and DIN 4748) type BHO 11.1/ (with 10 s safety time) must only be used for fired oil quantities less than 30 kg per hour.

of Nampapers, 1997

the digital standard properties of the com-

The flame is monitored by photo unit type LD. Provided the BHO 11.1 is used with a photo unit type LD codemarked "A" (Code No. 057H2020), 056H2021, 057H2022 and 056H2024) the false illumination requirement is met. Codemarking "A" is stamped on the cable of the photo unit.

#### Rase

The base of BHO 11.1 is provi

The four neutral terminals, in connected and can be used is equipped with three conwhich in turn are connected to the base. The plate has a h. connection to burners with 6... of a screw.

The front plate of the base can fig. 5.

vith a loop terminal

ed N, are internally hally. Also the base ed earth terminals ate at the bottom of nd is designed for erminals by means

emoved as show in

Max. cable lenght between BHO and LD: 10 m. Max. ambient temperature for LD: 70°C. Note: Heat radiated by the flame can, in some cases, cause higher ambient temperatures than the max. permissible temperature for LD.

### Control of flame signal

The photo current is measured with a d.c. ammeter (moving coil instrument) with is connected in series with the photo unit (fig. e).

Min. current for flame indication: 35 uA.

### **Electrical connections**

If type BHO 11.1 is connected prepurging in the preignition ( If it is connected as shown in to without prepurging.

how in fig. 1, it gives

taives pre-ignition

#### **Technical data**

Rated voltage: Frequency:

2211 50 Hz

Working range:

18 64 V

Mains fuse:

Ma.

Enclosure:

IP +

Ambient temperature:

. - ×70°C.

#### **Function**

# Normal Start

Preignition and prepurging, ... Oil is released, and the burne forms within the safety time of

pignition alone: 7 s. rerates, if the flame

Post ignition after oil release: BHO 11.1 - 5s.

#### False light at start

If light reaches the photo unit the control will, after both the paraging time (7 s.) and the safety time (10 s.), cut out way at releasing oil after approx. 17 s.

he prepurging time

# No flame formation at start

If oil is released and no flame is ablished the control will cut out within the safety time 10 s.

## Flame failure in operation

In the event of flame failure in . ration the oil supply is cut off and the control . arts the burner as described under the heading \ mal start". On flame failure, immediately after the to er start, the control will initiate re-ignition.

#### Flame monitoring

The flame is monitored by phoit type LD.

Note: in accordance with the stest ISO and DIN standards, type BHO activates tip safety relay if the photo unit is exposed to lig. n the pre-purging period.

# **OIL PUMP ADJUSTMENTS DANFOSS MSLA 032**

# **Technical Data**

Viscosity range: 1,3 - 18,0 mm2/s (cST) at 20°C. Speed: 2800 R.P.M. Factory setting: 9.15 Bar. Coil voltage: Shown on the coil.

#### Connections (Fig. 1)

The pump is to be connected as follows: Single-line open bypass (Fig. 6) E = Nozzle line 1/8 in. BSP.F. S = Suction line 1/4 in. BSP.F. M = Pressure gauge connection, venting 1/8 in. BSP.F.

### Venting (Fig. 2)

Venting is necessary for single line Burner.

# Pressure setting (Fig. 3)

Note: The valve has two functions: A closing function with fixed closing pressure and a regulating function where the pump pressure can be set by means of the pressure regulating screw.

# Dismantle the regulation system (Fig. 4).

- 1. Dismantle the orifice nipple with valve (A).
- 2. Remove the pressure regulation spring with the black plastic cover and the pressure cone.
- 3. When dismantling the pressure setting screw, remove the O-ring (C) and metal ring (D). The setting screw (B) can then be screwed anticlockwise out of the pump.

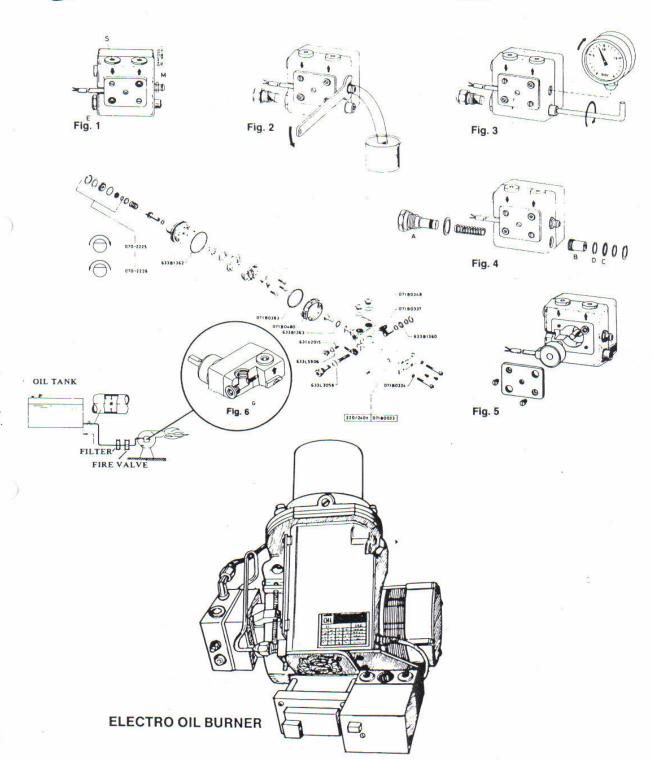
Note: Orifice nipple and valve are a unit and cannot be dismantled.

Coil replacement (Fig. 5).

# **INSTRUCTIONS**



# MSLA



# STANLEY De-Luxe 90

#### **FAULT FINDING**

- 1. Burner Cut Out
- 2. Poor Chimney Draught
- 3. Excessive Chimney Draught
- 4. Down Draught
- 5. Cooker Smoking
- 6. Hot Plate not Heating
- 7. Oven not Heating
- 8. Radiators not Heating
- 9. Domestic Hot Water Cylinder not Heating
- 10. Intermittent Performance
- 11. Domestic Hot Water

Rusty

- (a) Lack of Oil
- (b) High Limit Thermostat
- (c) Burner Control Box Reset Button
- (a) Obstruction
- (b) Too Low
- (c) Too Wide
- (d) Crack in Wall
- (e) Shared by another Unit
- (a) High Chimney
- (a) High Trees
- (b) High Buildings
- (c) Low Chimney
- (d) Negative Pressure Zone
- (a) Insufficient Primary Air
- (b) Chimney Choked
- (c) Side Flueways Choked
- (d) Down Draught
- (a) Boiler Baffles incorrectly set
- (b) Burner Cutting Out
- (c) Utensils not Flat
- (a) Boiler Baffles incorrectly set
- (b) Flueways blocked with soot
- (c) Faulty Thermostat
- (a) Boiler Baffles incorrectly set
- (b) Pump not working
- (c) Air in Radiators
- (d) Pipe system faulty
- (e) Excessive Number of Radiators
- (f) Radiator Valves not adjusted
- (a) Cylinder too Large
- (b) Flow Pipe too small
- (c) Flow Pipe crossed
- (d) Cylinder too far away
- (e) Hot water from Cylinder not reaching Cylinder
- (a) Cooker starved of Primary Air
- (b) Extraction Fan in Room
- (c) Dirt in Nozzle
- (d) Dirty Burner
- (e) Dirty Flueways
- (f) Dirty Oil Filter
- (g) Uncontrolled Burning
- (a) Leak in Indirect Cylinder Coil
- (b) Incorrect Cylinder fitted

- (a) Refill Tank and Prime Burner Pump
- (b) Press to Reset
- (c) If Red Bulb Lighting press to reset
- (a) Clear and Clean
- (b) Raise Height above Ridge
- (c) Fit Flue Liner 15 to 23 cm.
- (d) Repair Cracks
- (e) Cut off other Unit.
- (a) Fit Draught Stabilizer or Cowl.
- (a) Raise Chimney Height
- (b) Raise Chimney Height
- (c) Raise Chimney Height
- (d) Fit Cowl
- (a) Provide Room Air Inlet or adjust Burner air intake
- (c) Clean Flueways
- (d) Raise Chimney Height or Fit Cowl
- (a) Set Baffles at position B
- (b) Increase Thermostat Setting
- (c) Use Machine-based Utensils
- (a) Set Baffles at position C.
- (b) Clean Out
- (c) Check and replace if necessary
- (a) Set Baffles at position A
- (b) Check and replace if defective
- (c) Vent Radiators
- (d) Check Pipe Sizes and Circuit
- (e) Turn off unneeded Radiators
- (f) Adjust Valves to give even flow
- (a) Use 135 180L Cylinder
- (b) Use 25 mm. Bore Pipe
- (c) Reverse Flow Pipe
- (d) Not more than 7.8m fully lagged
- (e) Adjust Flow Control Valves or fit Injector Tee.
- (a) Provide Air Inlet in Room
- (b) Provide additional Air Inlet in Room
- (c) Clean or Replace Nozzle
- (d) Service Burner
- (e) Clean Flueways frequently
- (f) Clean or Replace
- (g) Repair or Replace Thermostat
- (a) Replace Cylinder
- (b) Check with Installer

It is of the utmost importance to keep the flue pipe and chimney clear of deposits.

Blocked or partially obstructed flueways and chimneys will cause dangerous fumes to be emitted into the room, these may well be invisible.

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