



## BUBBLE PRODUCTS

### MARINE DIESEL TANKS AND OIL LINE KITS

GENERAL INFORMATION 13-05-03



<http://www.oilstoves.co.uk/>

# Contents

<b>1. Health And Safety.</b>	<b>3</b>
1.1 Control of Substances.	3
<b>2. Applicable Regulations.</b>	<b>3</b>
2.1 Boat Safety Scheme	3
<b>3. Introduction.</b>	<b>3</b>
3.6 Detailed Dimensions	4
<b>4. Assembly Components</b>	<b>4</b>
4.1 Flexi oil filling tube and clips.	4
4.2 Vent tube.	4
4.3 Diesel Deck filling adaptor	4
4.4 Tank to vent tube adaptor	4
4.5 Vent to vent tube adaptor	4
4.6 Vent termination.	4
<b>5. Positioning And Fitting The Tank</b>	<b>5</b>
5.1 Fastening Down	5
5.2 Gravity Feed Head	5
5.3 Exposure to Heat	5
5.4 Fitting	5
<b>6. Boat Safety Rules</b>	<b>5</b>
6.1 Breather	5
6.2 Spillage	5
6.4 Cross bonding	5
6.6 Hoses	5
6.7 Fillers	5
6.8 Joining	5
6.9 Outlet sizes	5
6.10 Vents	5
6.11 Extra Capacity	5
<b>7. Routine Maintenance Of The Oil Tank</b>	<b>5</b>
7.1 As Required	6
7.2 Service Access	6
Fig 2 Illustrated Parts List	6
<b>10. Oil Tank Parts List</b>	<b>6</b>
10.1 Oil Tank Kit Parts	7
<b>11. Oil Line Kit Details</b>	<b>7</b>
<b>12. Fitting The Oil Line Kit</b>	<b>7</b>
<b>13. Routine Maintenance Of The Oil line Kit</b>	<b>7</b>

As Required _____	7
Service Access _____	8
Fig 3 Illustrated Parts List _____	8
14. Oil Line Kit Parts List _____	8
15. Oil Line Kit Ordering Information Sec 04 _____	8
12. Fire valves _____	9

## 1. HEALTH AND SAFETY.

### 1.1 CONTROL OF SUBSTANCES.

Take great care when handling materials such as insulation boards, glass fibre ropes, ceramic wool, artificial fuel, **kerosene and diesel oil**, they are all irritants and suitable protective clothing such as disposable gloves dust masks and protective goggles should be worn.

Wash off thoroughly after handling any of these materials.

Carefully dispose of redundant or surplus materials and always vac up after service or installation work.

## 2. APPLICABLE REGULATIONS.

The installation of this equipment must be carried out by a technically competent person.

### 2.1 BOAT SAFETY SCHEME

Latest edition.

If you have any difficulties please phone our sales department on

PHONE 01302 742520. (3 lines.)

FAX 01302 750573

Email [sales@oilstoves.co.uk](mailto:sales@oilstoves.co.uk)

Web site [www.oilstoves.co.uk](http://www.oilstoves.co.uk)

## 3. INTRODUCTION.

(For costs see section 5 on the Marine Price List)

3.1 The marine oil tank is designed to fit into confined spaces, it can be supplied as tank only or it can be supplied with all the relevant fittings as detailed in 4.0 Assembly components.

3.2 There are additional items required to complete an oil supply installation and they are detailed in the photographs and parts list.

3.3 The dimensions are 300 x 300 x 500

3.4 The capacity is 27 litres.

*The oil storage volume can be increased by the addition of a further tank or tanks which can be added as space permits, adding a further 27 litres of storage for each additional tank.*

3.5 The tank has the following fittings -:

1 x 1 1/2" B.S.P. female filling socket.

1 x 1/2" B.S.P. female outlet socket.

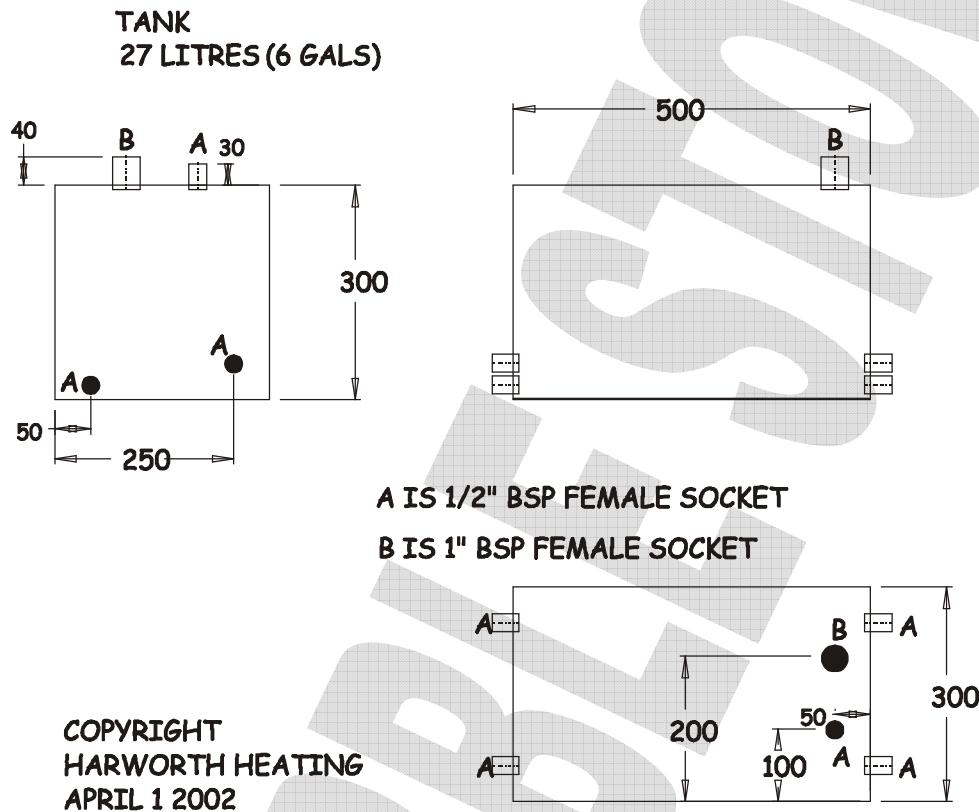
1 x 1/2" B.S.P. female drain plug.

1 x 1/2" B.S.P. female expansion outlet.

1 x 1/2" B.S.P. female vent outlet.

### 3.6 DETAILED DIMENSIONS

Fig 1



### 4. ASSEMBLY COMPONENTS

We can supply all components required to complete the installation such as -:

4.1 FLEXI OIL FILLING TUBE AND CLIPS.

4.2 VENT TUBE.

4.3 DIESEL DECK FILLING ADAPTOR

4.4 TANK TO VENT TUBE ADAPTOR

4.5 VENT TO VENT TUBE ADAPTOR

4.6 VENT TERMINATION.

## **5. POSITIONING AND FITTING THE TANK**

### **5.1 FASTENING DOWN**

The tank must be securely fastened down and fitted into an angle iron frame or similar.

### **5.2 GRAVITY FEED HEAD**

For adequate operation of gravity fed diesel stoves or boilers the tank should have a minimum head of 200mm above the bottom of the oil control valve.

On gravity fed tanks the isolation valve must be attached directly to the fuel tank.

### **5.3 EXPOSURE TO HEAT**

The tank must not be fitted near to any heat source or exposed to any high temperature situations.

### **5.4 FITTING**

It should be fitted in line with the Boat safety rules extracts of which are shown in sec 6.

## **6. BOAT SAFETY RULES**

### **6.1 BREATHER**

The breather must be the same height or higher than the filler.

### **6.2 SPILLAGE**

Any spillage from the filler must drain overboard.

Unseen spillage is not allowed.

### **6.4 CROSS BONDING**

Cross bonding is required on plastic boats.

### **6.6 HOSES**

All inter connecting hoses must be of suitable quality.

### **6.7 FILLERS**

All fillers must be marked with a notice relative to the tank contents.

### **6.8 JOINING**

One broadband clip is allowable to join hose to filler.

### **6.9 OUTLET SIZES**

All outlets from the tank should be  $\frac{1}{2}$ " B.S.P. minimum and be of welded construction.

The isolation valve must be **attached directly** to the fuel tank.

### **6.10 VENTS**

Vents must have flame arrestors fitted.

### **6.11 EXTRA CAPACITY**

Where two or more tanks are joined together each tank shall be isolated by a minimum  $\frac{1}{2}$ " isolation valve.

## **7. ROUTINE MAINTENANCE OF THE OIL TANK**

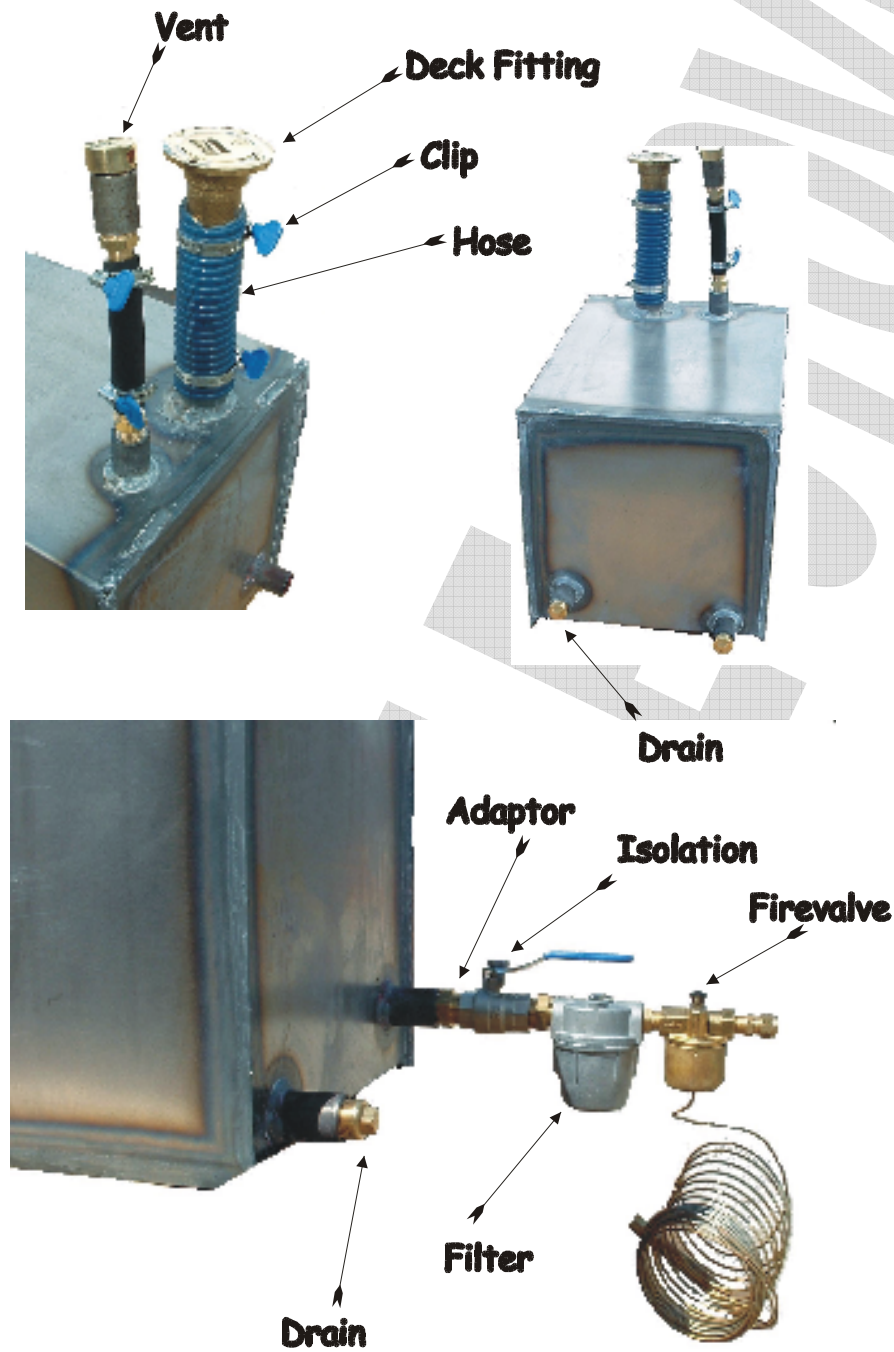
**7.1 AS REQUIRED**

Empty the tank and remove the drain down plug to drain off any accumulated water, sludge or debris.

**7.2 SERVICE ACCESS**

Allow adequate space around the tank for future service or repair work.

**FIG 2 ILLUSTRATED PARTS LIST**



**10. OIL TANK PARTS LIST**

The Tank can be supplied as:-

10.1 Tank only.

10.2 Tank plus tank fitting kit.

10.3 Tank plus tank fitting kit plus oil line kit as per fig 3.

Fig 2 shows the tank with the tank kit and some parts of the oil line kit.

Fig3 shows the oil line kit and all the relevant components are listed in the oil tank kit parts list.

### 10.1 OIL TANK KIT PARTS

Item No	Description	PART NUMBER	Qty	Check
1	Deck vent	77-01-840	1	
2	Deck filler	77-01-842	1	
3	Clips for filler hose	77-02-300	2	
4	Filler hose (state length required)	77-01-844	1	
5	Vent Hose		1	
6	Clips for vent hose		1	
7	End fittings for vent tube	77-01-744	2	
8	Deck vent adaptor		1	
9	Tank	77-01-885	1	
10	Drain plug	77-01-743	3	

### 11. OIL LINE KIT DETAILS

11.1 Critical information required when ordering a kit is detailed as follows -:

11.2 Tank outlet size,  $\frac{1}{4}$ " ,  $\frac{3}{8}$ " or  $\frac{1}{2}$ " (Must be female welded sockets.)

11.3 Oil line diameter 8mm or 10mm.

11.4 Length of fire-valve capillary. (1.5 up to 9 metres.)

11.5 Trip temperature of fire valve. (Normally 65 deg C.)

### 12. FITTING THE OIL LINE KIT

12.1 Make sure that the correct grade of pipe sealant is used when making joints as excessive amounts of pipe sealant can cause obstructions for downstream equipment.

### 13. ROUTINE MAINTENANCE OF THE OIL LINE KIT

#### AS REQUIRED

Empty the tank and remove the drain down plug to drain off any accumulated water, sludge or debris.

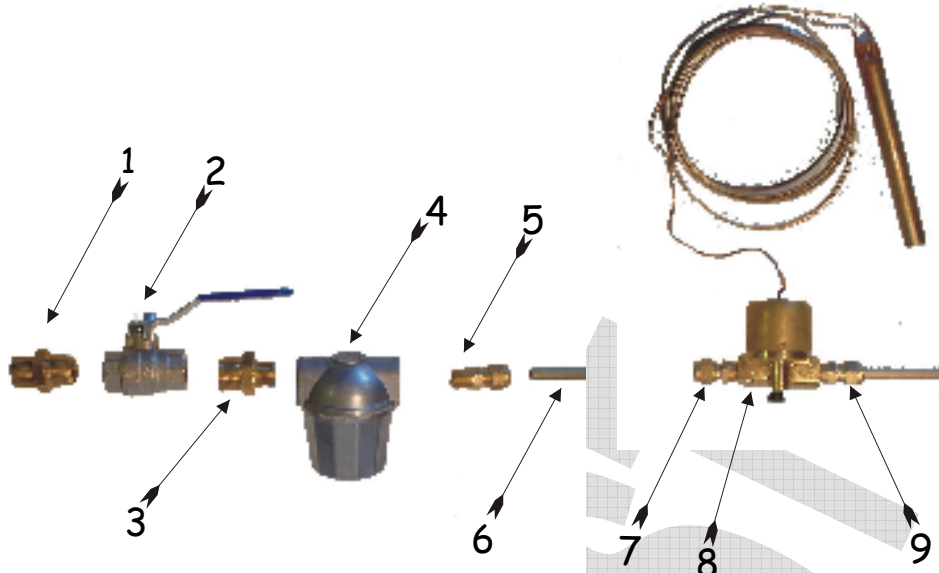
Clean filters regularly and check for leaks.

When fitting fire valve sensors make sure that they can be easily removed should a failure occur.

**SERVICE ACCESS**

Allow adequate space around the equipment for future service or repair work.

**FIG 3 ILLUSTRATED PARTS LIST**



**14. OIL LINE KIT PARTS LIST**

Item No	Description	Qty	Check
1	Tank outlet adaptor	1	
2	Isolation valve	1	
3	Valve to filter adaptor	1	
4	Filter	1	
5	Filter to oil line adaptor	1	
6	Oil line	1	
7 and 9	Oil line to fire valve adaptor	2	
8	Fire valve	1	
10	Oil line (Not shown)	1	
11	Appliance isolation valve (Not shown)	1	

**15. OIL LINE KIT ORDERING INFORMATION SEC 04**

See Marine Spares Price List.

1/4" X 8mm oil line fitting kit (excluding fire valve)

Pt No 77-01-780



1/4" X 10mm oil line fitting kit (excluding fire valve)	Pt No 77-01-781
3/8 x 8mm oil line fitting kit (excluding fire valve)	Pt No 77-01-783
3/8 x 10mm oil line fitting kit (excluding fire valve)	Pt No 77-01-784
1/2 X 8mm oil line fitting kit (excluding fire valve)	Pt No 77-01-786
1/2 X 10mm oil line fitting kit (excluding fire valve)	Pt No 77-01-787

## **12. FIRE VALVES**

When ordering fire valves measure the distance from the fuel tank to the appliance and order the appropriate length of fire valve.

This publication is intended only to assist the reader in the use of this product and therefore Harworth Heating Ltd shall not be liable for any loss or damage whatsoever arising from the use of any information, error or omission found in this guide.

Only approved personnel, WHO HAVE BEEN SUITABLY TRAINED, may carry out maintenance on this equipment.

Harworth Heating

01302 742520

**BUBBLE STOVES**