



Putting your  
Oil Storage in

# Safe Hands

with **TITAN**  
ENVIRONMENTAL



Issue No. 2: February 2010

End user must return the enclosed guarantee card



**These instructions should be read in their entirety before commencing installation of the tank.**

- A risk assessment should be carried out with reference to OFTEC TI/133D in Technical Book 3 to determine if the installation requires a bunded tank.
- Installation should meet current Building Control / Environment Agency / Pollution Control guidelines.
- Refer to OFTEC Technical Book 3 and BS5410 : Part 1 and Part 2 for requirements on location, installation and maintenance.
- For all tank installation and maintenance, please take into consideration Health & Safety / Local Building Regulations.
- Indoor installations need to meet BS5410, Parts 1 and 2 and OFTEC Technical Book 3.
- For commercial and industrial installations refer to BS5410 : Part 2 and OFTEC Technical Book 3.
- For agricultural installations refer to OFTEC Technical Book 3.
- Where the tank has to be raised above ground level to provide a gravity flow of oil to an appliance the installation should meet OFTEC guidelines and BS5410 : Parts 1 and 2.

- The tank should be installed directly on a level, secure and non-combustible base. If the tank is raised to provide a gravity oil supply, the base must be raised also so that the tank is installed directly on it. Please refer to OFTEC Technical Book 3.
- Determine if tank needs to be secured in place in exposed conditions. **Do not drill holes in the tank.**
- Determine if a Tigerloop de-aerator should be used.
- Consult *table 2* for recommended fuel supply pipe sizes for use with a Tigerloop de-aerator.
- All associated pipe work should be supported independently so as not to put any strain on the tank.
- For vapourising appliances bottom outlets are preferred, however, if a top outlet tank is used a lift pump will be required – consult the appliance manufacturer for technical advice.
- For bottom outlet, the length of pipe run, tank height and boiler requirements will determine the outlet size. Top outlets are treated as a separate item (see *table 2*).
- The Talking Titan / Smart Tank single skin tanks and FuelMaster bunded dispensing tanks are supplied with electronic contents gauges as standard (WatchmanSonic). EcoSafe bunded tanks are supplied with an electronic contents gauge and alarm as standard (WatchmanAlarm).

- Buried pipe work needs to meet OFTEC Technical Book 3 and BS5410 : Part 1.
- Talking Titan / Smart Tank single skin tanks and EcoSafe banded range of tanks may be fitted with bottom or top outlets, although the Environment Agency prefers top outlet tanks.
- Prior to installing inspect for damage, if damaged do not install.
- Connections must be held in place when tightening. Do not over tighten.
- Use only approved sealing compound such as Heldite. Do not use boss white.
- Never solder joints / connections.
- The guarantee card in this booklet should be returned to the supplier or it can be completed online at [www.titanenv.com](http://www.titanenv.com) located on the home page.
- The tank serial number must be recorded on the guarantee card to validate warranty. This number is usually located around lid area and on larger tanks on the rib above the outlet.
- It is recommended that a suitably qualified engineer with OFTEC registration or equivalent is used to install the tank.
- When dispensing fuel, a single skin tank with hose and

nozzle is not suitable. A FuelMaster should be used.

- The warranty is dependant on the tank being correctly installed and maintained by a suitably qualified engineer.
- **THE TANK MUST NOT BE FILLED AT A RATE EXCEEDING 400 LITRES PER MINUTE.**
- For further advice, contact the OFTEC helpline on 0845 6585 080 or visit [www.oftec.org](http://www.oftec.org).

**After installation, please ensure that this instruction booklet is left with the end user for future reference.**

**ES1300**

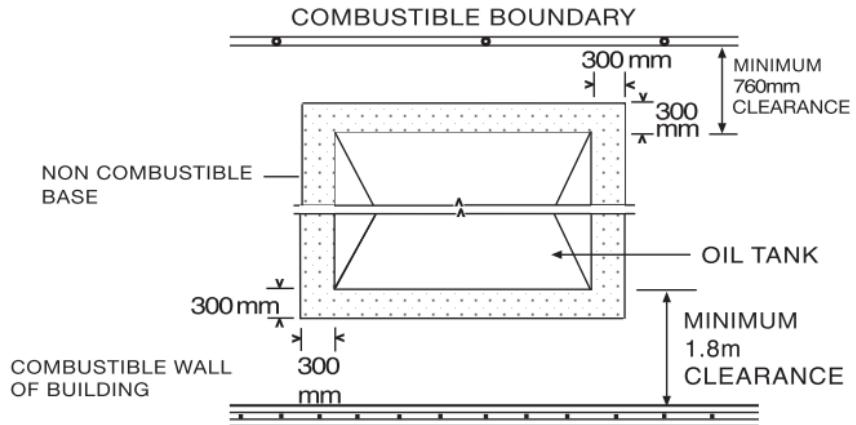


- Tanks with a capacity not exceeding 3400 litres (serving single family dwellings and where the boiler output does not exceed 45 kW) should be fitted not less than 1.8 metres from a building, and not less than 760mm from the site boundary and not less than 1.8 metres from a flue outlet. (See *figure 1* on page 6).
- Where the above clearances cannot be achieved, the protection measures noted in BS5410 : Part 1 must be provided by means of a 30 minutes fire resistant wall which extends at least 300mm above and beyond the ends of the tank.
- It will be necessary to protect exposed eaves forming part of a roof within 1.8 metres of the top of an oil storage tank to provide 30 minutes fire resistance. Cladding should be applied to the eaves in order to prevent fire spreading to the roof.
- Larger houses with a capacity in excess of 3,500 litres, or where the boiler output exceeds 45 kW, have different requirements, and reference should be made to BS 5410 : Part 2 and OFTEC Technical book 3.
- For commercial and industrial installations refer to BS5410 : Part 2 and OFTEC Technical Book 3.
- For agricultural installations refer to OFTEC Technical Book 3.
- **Ensure the entire base of the tank is supported with a non-combustible base (minimum 45mm in thickness) extending 300mm on all sides.**

ES1225



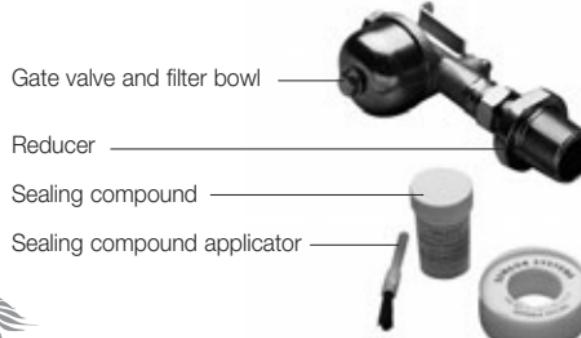
**Figure 1: Class 1 Tank Installation near combustible buildings and boundaries with clearances required when additional fire protection is not provided.**  
(Printed with the permission of OFTEC)



Bottom outlet Tankpac for Talking Titan / Smart Tank single skin and EcoSafe banded range of tanks consists of: Heldite, brush applicator, PTFE tape, reducer or straight male to male nipple, depending on outlet size, WatchmanSonic or WatchmanAlarm transmitter, receiver, shut-off valve / filter combined and instruction booklet.

- Standard outlet on the tank is a 1" BSP female thread which can take either 10mm, 1/2" or 1" Tankpac.
- Standard Tankpac kit up to and including the V2500 has a 10mm outlet. For larger tanks the standard Tankpac is 1", see *table 1* for all sizes available.

#### **10mm Bottom Outlet Tankpac**



- 10mm Tankpac kits have a hydraulic fitting. Fitting needs to be seated and aligned before and during tightening.
- Do not attempt to attach a larger connection to the 10mm filter bowl, as this will cause leaks and invalidate the warranty.
- Tankpacs are guaranteed for one year.
- For maintenance repair kits, see *table 4*.
- Filter bowl may be orientated to suit the installation, as shown in *figure 3*.

**Retrofit kits are available upon request.**

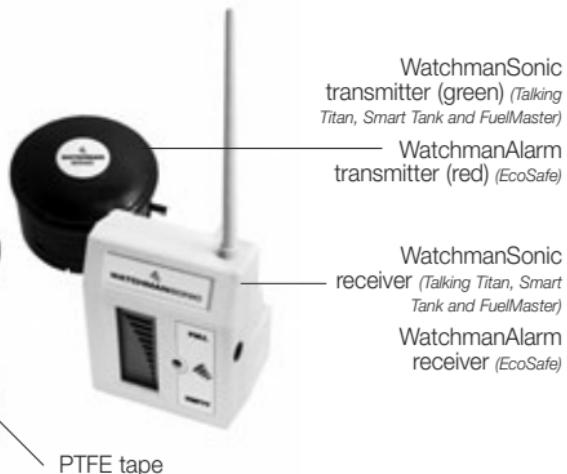


Figure 2: Typical Bottom Outlet Arrangement

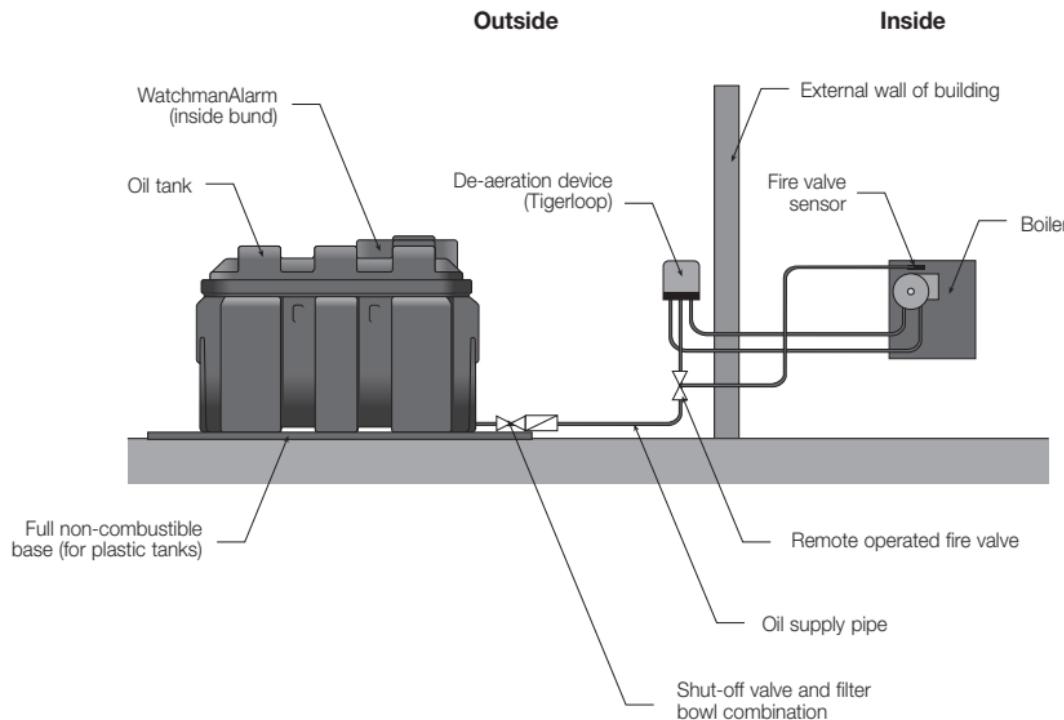
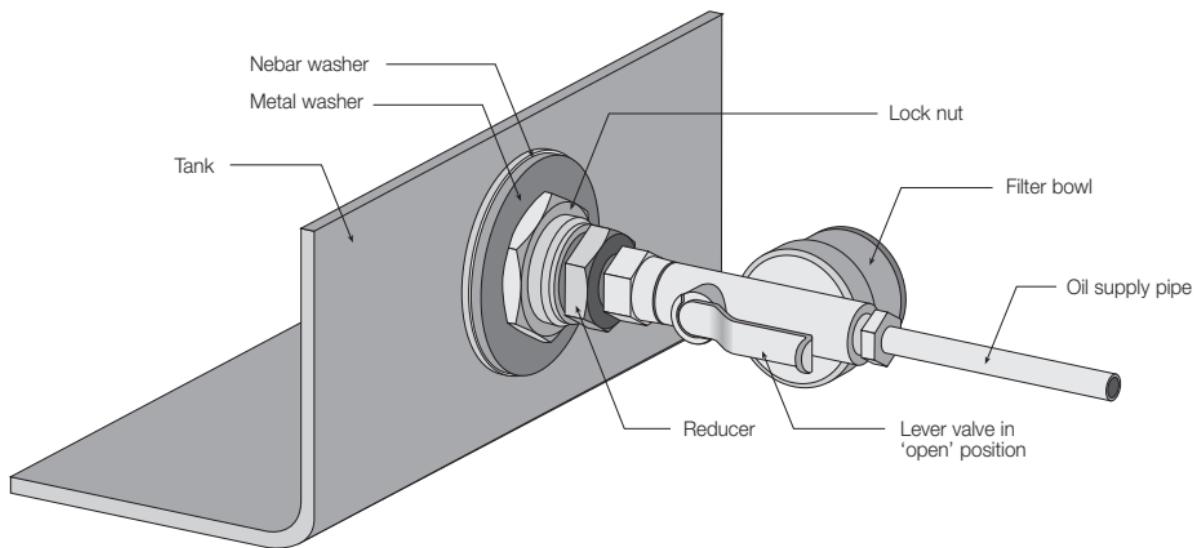


Figure 3: Bottom Outlet



**Table 1: Tankpac Options** (only on EcoSafe, Smart Tanks and Talking Titan)

Product	Outlet size	10mm Tankpac	1/2" Tankpac	1" Tankpac
<b>Single skin tanks</b>				
V1300TT	1"	●	○	○
V2500TT	1"	●	○	○
V3500TT	1"	○	○	●
V5000TT	1"	○	○	●
V10000TT	1"	○	○	●
R1000TT	1"	●	○	○
R1225TT	1"	●	○	○
LP1200TT	1"	●	○	○
H1300TT	1"	●	○	○
H1800TT	1"	●	○	○
H2500TT	1"	●	○	○
<b>Bunded tanks</b>				
ES1000	1" Bottom	●	○	○
ESLP1200	1" Bottom	●	○	○
ES1225	1" Bottom	●	○	○
ES1300	1" Bottom	●	○	○
ESV1300	1" Bottom	●	○	○
ES1800	1" Bottom	●	○	○
ES2500	1" Bottom	●	○	○
ESV2500	1" Bottom	●	○	○
ES3500	1" Bottom	○	○	●
ES5000	1" Bottom	○	○	●
ES9000	1" Bottom	○	○	●

● – Standard    ○ – Optional

Top outlet available on single skin and bunded tanks on request. Connection for extended filling pipe is available on request.

Tel: +44 (0) 28 3836 4444 (UK)   Tel: +353 (0) 42 9690022 (ROI)



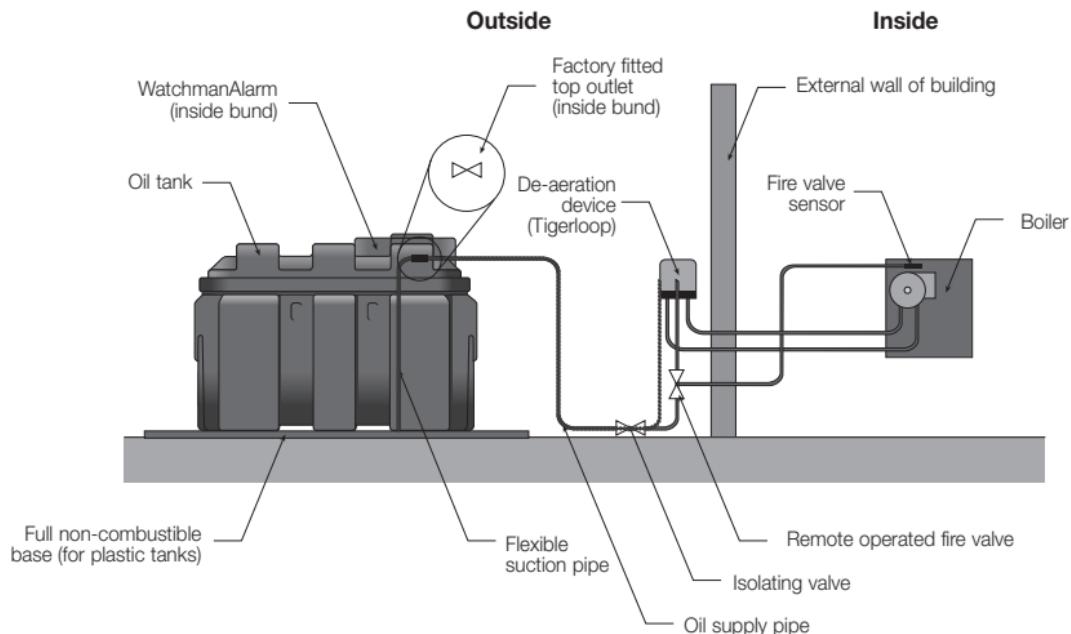
Top outlet Tankpac for Talking Titan / Smart Tank single skin tanks, FuelMaster bunded dispensing tanks and EcoSafe bunded range of tanks consists of top outlet kit (*figure 5*), WatchmanSonic or WatchmanAlarm transmitter, receiver and installation and user manuals.

- Consult OFTEC Technical Book 3 for installation guidelines.
- For guidance on supply pipe sizes, see *table 2*. Do not oversize pipes.
- Care should be taken to minimise the number of joints in the supply pipe.
- The supply pipe must be the same diameter from the tank to the boiler.
- The top outlet (see *figure 5*) is fitted with a port for a return pipe and includes a non-return valve and shut-off valve. See manufacturer's instructions enclosed.
- Single feed top outlet is not recommended for supplying multiple appliances, a separate supply line is required for each and these can be factory fitted on request.
- Flexible oil line can be routed through the outer bund where the top and bottom halves meet.

- Adjustable anti-siphon valve and Tigerloop can be supplied as optional extras.
- Check oil supply line for air leaks using a vacuum gauge and rectify as necessary.
- Do not use right angle connectors as this may lead to a build up of air / gas and create an air lock.
- Use a vacuum pump to prime supply line to boiler, for efficient operation all air must be expelled.
- Top outlet will accept 8, 10 or 12mm supply pipe.
- It is recommended that a Tigerloop de-aerator (optional extra) be used. See manufacturer's instructions.
- To prevent oil loss in the case where the supply line is fractured, it is necessary to fit an anti-siphon valve. See manufacturer's instructions.
- For vapourising appliances bottom outlets are preferred, however, if a top outlet tank is used a lift pump will be required – consult the appliance manufacturer for technical advice.
- Fittings are guaranteed for one year.

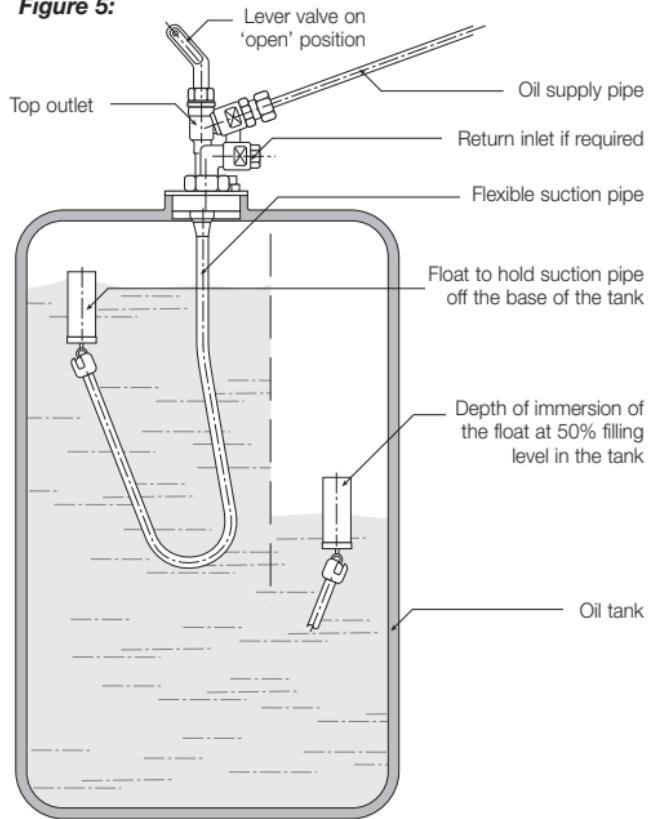
**Retrofit kits consisting of top outlet parts and Tankpacs are available on request.**

Figure 4: Typical Top Outlet Arrangement



**Table 2: Pipeline Sizes**

Copper Pipes Ext. Dia (mm)	Recommended Pipe Sizes for Oil Burners up to 30kW Output or Nozzle Capacity of 2.5 KG/H									
	TOTAL SUCTION HEAD (M)									
0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	
0	6	6	6	6	6	6	6	8	10	
10	6	6	6	6	6	6	6	10	10	
15	6	6	6	6	6	6	8	10	-	
20	6	6	6	6	6	6	8	10	-	
25	6	6	6	6	6	6	8	10	-	
30	6	6	6	6	6	6	8	10	-	
40	6	6	6	6	6	8	8	10	-	
50	6	6	6	6	8	8	8	10	10	-
60	6	6	6	8	8	8	8	10	10	-
70	6	6	8	8	8	8	8	10	-	-
80	6	8	8	8	8	8	8	10	-	-
90	8	8	8	8	8	8	10	10	-	-
100	8	8	8	8	8	10	10	-	-	

**Figure 5:**

**De-aeration Device – Tigerloop/Tigerloop Combi**

- A device fitted in the oil line close to the heating appliance to help the drawing of oil up to a level higher than the level of oil in the tank. It does this by removing the air and vapour created when the pump in the oil boiler applies suction to the high-level oil line.
- Tigerloop devices must not be installed inside buildings.
- A Tigerloop Combi is as above, and incorporates a filter.
- Continuous gassing / air bubbles in the Tigerloop means that air is getting into the system. This must be rectified.
- An instruction leaflet is supplied with each Tigerloop.
- Tigerloop is guaranteed for one year.

**Tigerloop****Tigerloop  
Combi****Anti-Siphon Valve**

- A valve that will prevent the oil in the tank being siphoned off should a leakage occur in the suction pipe between the anti-siphon valve and the burner.
- Valve will accept 6, 8, 10 and 12mm supply pipe.
- Protection level adjustable between 1m – 1.8m.
- An instruction leaflet is supplied with each anti-siphon valve.
- The anti-siphon valve is guaranteed for one year.

**Anti-Siphon  
Valve**

### SpillStop Information

The SpillStop is an overfill prevention device that ensures the environment is protected if an attempt is made to overfill the tank. This device with a 2" BSP threaded connection shuts off the fill point once fuel reaches 95% of the tank volume (*figure 6*).

- Approved to BS EN 13616: 2004 by TÜV Nord CERT, for use in installations for the storage of fuel intended for the supply of building heating/cooling systems.
- Meets the requirements of OFTEC OFS T100.
- For use only with tanks filled by a pressure pump and a delivery hose with a shut-off valve, operating at a minimum of 150mbar (15kPa) and a maximum 6 bar (0.6MPa).
- Suitable for delivery fuel flow rates from 35 litres / minute up to 600 litres / minute.
- SpillStop is guaranteed for one year.

**Note:** General industry advice directs that plastic storage tanks must not be filled at a rate exceeding 400 litres per minute.

### Operation / User Guide

- Remove 2" yellow screwcap.
- Where possible, visually check the hole on the cone part of the SpillStop in case something has become trapped.
- Securely screw the 2" delivery hose to the SpillStop, the delivery hose must have a shut off valve.
- Fill tank in normal manner.
- When the SpillStop is activated, the delivery flow rate will be restricted to a maximum of 2.5 litres / minute.
- Close the shut off valve on the 2" delivery hose.
- Turn off the delivery pump.
- Wait 1 minute and then disconnect the delivery hose from the SpillStop.
- Securely fasten screwcap.

### Maintenance

It is recommended where possible, that the hole in the centre of the cone shaped valve be checked during each annual tank check for any blockages. This is visible when looking down into the 2" threaded connection.



**Figure 6:** SpillStop overfill prevention device

**Table 3: FuelMaster Options**

Product code	Capacity (litres)	Pump type	Auto-matic nozzle	Flow meter	Hose length (metres)	TMS (optional)	10 micron filter (optional)
FM1300 GRR	1300	Rotary			4	●	●
FM1300 GRRFL	1300	Rotary	●		4	●	●
FM1300 GR110VAN	1300	110 volt	●		4	●	●
FM1300 GR110VANFL	1300	110 volt	●	●	4	●	●
FM1300 GR12VAN	1300	12 volt	●		4	●	●
FM1300 GR12VANFL	1300	12 volt	●	●	4	●	●
FM1300 GR230VAN	1300	230 volt	●		4	●	●
FM1300 GR230VANFL	1300	230 volt	●	●	4	●	●
FM2500 GRR	2500	Rotary			4	●	●
FM2500 GRRFL	2500	Rotary	●		4	●	●
FM2500 GR110VAN	2500	110 volt	●		4	●	●
FM2500 GR110VANFL	2500	110 volt	●	●	4	●	●
FM2500 GR12VAN	2500	12 volt	●		4	●	●
FM2500 GR12VANFL	2500	12 volt	●	●	4	●	●
FM2500 GR230VAN	2500	230 volt	●		4	●	●
FM2500 GR230VANFL	2500	230 volt	●	●	4	●	●
FMV3500	3500	230 volt	●	●	6	●	●
FM5000 GR110VANFL	5000	110 volt	●	●	6	●	●
FM5000 GR12VANFL	5000	12 volt	●	●	6	●	●
FMV5000 GR230VANFL	5000	230 volt	●	●	6	●	●
FMV9000 6MHFT	9000	230 volt	●	Function in TMS	6	Standard	Standard
FMV9000 10MHRFT	9000	230 volt	●	Function in TMS	10 hose reel	Standard	Standard

● - Included

**FuelMaster Information**

- Manufacturer's instructions are supplied with the tank, including installation, maintenance and trouble shooting guide.
- Pump should be maintained in accordance with the pump manufacturer's instructions.
- For use with diesel fuel, viscosity from 2 to 5.35 Cst at 37.8°C. Minimum flash point 55°C.
- All rotary pumps must be primed before use in accordance with the instruction leaflet.
- Electrical connection to be made by a suitably qualified electrician.
- For FuelMaster options refer to *table 3, left*.
- Fuel management systems are available on request.
- Pumps are not suitable for retail purposes.
- Pump and pump accessories are guaranteed for one year.

Tank maintenance should be carried out annually by an suitably qualified engineer with OFTEC registration or equivalent. A check should be made on the following items;

- The general condition of the tank.
- Determine if there are any oil leaks.
- The tank for water ingress. Determine the cause and rectify.
- The condition of all pipework and fittings.
- The condition of filling and venting provisions.
- The condition of tank supports.
- The bunded tank: determine if any fluid is present in the bund, determine cause and rectify. Remove fluid as soon as possible and dispose of according to the requisite legislation.
- The condition of measuring devices.
- Check the filter bowl and replace parts as necessary. If spare parts are not readily available please contact your local Titan stockist.
- Ensure that the anti-siphon valve is working according to the manufacturer's instructions.

- Ensure that the Tigerloop de-aerator is working according to the manufacturer's instructions.
- Checks should be made on the condition of the SpillStop, see page 14.

**Refer to OFTEC Technical Book 3 for further information on tank maintenance and inspection.**

#### **ES1800**



The Titan single skin oil storage tank (Standard, Talking Titan and Smart Tank range) is guaranteed for 2 years from the date of purchase against faulty materials or manufacture.

The Titan bunded oil storage tank (EcoSafe and FuelMaster range) is guaranteed for 10 years from the date of purchase against faulty materials or manufacture.

Provided that the following criteria are adhered to (applicable to all models):

- The enclosed guarantee card is returned to Kingspan Environmental Ltd with evidence of the purchase date.
- The tank is installed and commissioned in accordance with the instructions outlined in the Installation and User Manual.
- The tank is installed and commissioned by a suitably qualified engineer.
- The tank is used for the storage of Kerosene (C1/C2), Agricultural Fuel Oil (A2) and Gas/Oil Diesel (D), (BS2869: Part 2 : 1997 and BS EN 590:2004). It should be noted that Titan tanks are not suitable for the storage of petrol or liquid petroleum gas (LPG).
- The tank has not been subject to misuse, careless handling, faulty installation, or any repairs have not been attempted or carried out other than by Kingspan Environmental Ltd service staff.
- The tank has been purchased by the end user and is not for hire purposes.
- The tank has not been filled at a rate exceeding 400 litres per minute.
- The tank is installed above ground.
- The tank is inspected annually by a suitably qualified service engineer. Immediately upon discovery of any defect in the tank steps are taken to mitigate loss by contacting the oil supplier and if necessary arrange for the tank to be drained pending the supply of a new tank.
- Immediately upon discovery of any defect you contact the Guarantor and allow a representative to inspect the tank and it's surroundings and where necessary carry out any repairs (before any attempts are made to move the tank).
- The guarantee excludes ancillary fittings such as contents measuring gauges or mechanical pumps. Further guarantee information on ancillary fittings and pumps is provided within the manual.

In addition (applicable to single skin tanks only):

- If the tank is single skinned, Titan recommend that it should be installed within a secondary container system (a bund), and its base and walls must be impermeable to water and oil.
- For single skinned tanks this guarantee does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage howsoever caused.
- If the single skinned tank has been correctly installed within a secondary container system or bund, then subject to the above, under the Guarantee additional rights may be conferred for any claim for consequential loss or damage if caused by faulty manufacture or materials. The Company will determine all such claims.

This guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer. It is provided on the basis that it is applicable for a period of 2 years (Standard, Talking Titan and Smart Tank range) or 10 Years (EcoSafe and FuelMaster range) only and it shall expire at the end of the specified period from the date of purchase.

**FM2500**



**ES1000**



**Table 4: Parts and Accessories**

Description	Purchasing Code	Contents
4" Green Male Lid	LID4GR	Lid, Collar, Gasket and Screws
4" Green Female Lid	LID4GRCAP	4" Female Lid
2" Male Offset	OFFSTD51	Offset, Gaskets, Screws, Cap and Back Nut and PTFE Tape
2" Male Elongated Offset	OFFELG51	Extended Offset, Gaskets and Screws
2" Male Extended Offset	OFFEXT51	Extended Offset, Gaskets, Screws, Cap and Back Nuts and PTFE Tape
2" Cap and Strap	OFFCAPGR	Cap and Strap
2" Cap and Chain	OFFCAP190GR	Cap and Chain
2" Cap and Chain	20CAPASSYYE	Cap and Chain (yellow)
2" Green Vent	VENGR	Green Vent and PTFE Tape
16" Male Lid Green Hinge	LID16GR	Lid and Gasket
16" Male Lid Red Hinge	LID16RE	Lid and Gasket
18" Male Black Lid	LID18BK	Lid and Gasket
10mm Maintenance Kit	BTMOUTLET	Filter, Filter bowl, 'O' ring, Square 'O' ring, Set Screw, Nebar Gasket and Washer
16" Cap Lid	LID16GRCAP	16" Female Lid
1/2" Reducer	OUTRED10	1"-1/2" Reducer
1" Outlet	OUTLET 1"x35	Outlet, Gaskets, Washer, Nut and Plug
Top Outlet	TOPOUTLET	Top Outlet to accept 8,10 or 12mm Pipe
Anti-Siphon Valve	VALVESIPH	Anti-Siphon Valve and Nipple
De-aeration Device	TIGERLOOP	Tigerloop and Instructions
De-aeration Device and Filter	TLOOPCOMBI	Tigerloop, Filter and Instructions
65mm SpillStop	SPILLSTOP70	SpillStop overfill prevention device and instructions
130mm SpillStop	SPILLSTOP130	SpillStop overfill prevention device and instructions



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**[www.titanenv.com](http://www.titanenv.com) or visit our company website [www.kingspanenv.com](http://www.kingspanenv.com)**



INVESTOR IN PEOPLE



OHSAS 18001:1999  
QMS 50001



BS EN ISO 9002: 2002  
FM 25976



BS EN ISO 14001: 2004  
EMS 53319



ISO 9001:2000  
QUALITY



ISO 18001:2001  
HEALTH & SAFETY



ISO 14001  
ENVIRONMENT

## Guarantee Card (UK CUSTOMERS)

Serial Number of Titan Tank:

Located Around Lid Area or Rib \_\_\_\_\_

Tank Type (as on label): \_\_\_\_\_ Date Installed: \_\_\_\_\_

My use is:  Domestic  Commercial  Agricultural (please tick as appropriate)

**Post back to Kingspan Environmental Ltd within 30 days of installation to confirm acceptance of the terms in the guarantee and we will formally register your guarantee. This does not affect your statutory rights.**

**Name:** \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Postcode: \_\_\_\_\_ Telephone: \_\_\_\_\_

E-mail address: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

**Tank Installer:** \_\_\_\_\_

OFTEC Number: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Postcode: \_\_\_\_\_ Telephone: \_\_\_\_\_

**Oil Distributor:** \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Postcode: \_\_\_\_\_ Telephone: \_\_\_\_\_

BUSINESS REPLY SERVICE  
License No RSAH-EAZXA-TYZK

UK CUSTOMERS

1



***Kingspan Environmental Limited***  
***Titan Environmental Team***  
***180 Gilford Road***  
***Portadown***  
***County Armagh***  
***BT63 5LF***

## **Guarantee Card** (REPUBLIC OF IRELAND CUSTOMERS)

Serial Number of Titan Tank:

Located Around Lid Area or Rib \_\_\_\_\_

Tank Type (as on label): \_\_\_\_\_ Date Installed: \_\_\_\_\_

My use is:       Domestic       Commercial       Agricultural      (please tick as appropriate)

**Post back to Kingspan Environmental Ltd within 30 days of installation to confirm acceptance of the terms in the guarantee and we will formally register your guarantee. This does not affect your statutory rights.**

**Name:** \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Postcode: \_\_\_\_\_ Telephone: \_\_\_\_\_

E-mail address: \_\_\_\_\_  
\_\_\_\_\_

Customer Signature: \_\_\_\_\_  
\_\_\_\_\_

**Tank Installer:** \_\_\_\_\_  
\_\_\_\_\_

OFTEC Number: \_\_\_\_\_  
\_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Postcode: \_\_\_\_\_ Telephone: \_\_\_\_\_  
\_\_\_\_\_

**Oil Distributor:** \_\_\_\_\_  
\_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

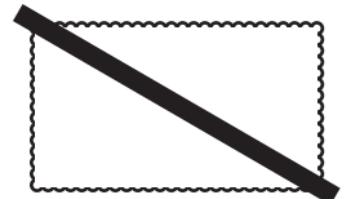
Postcode: \_\_\_\_\_ Telephone: \_\_\_\_\_  
\_\_\_\_\_

BY AIR MAIL  
*par avion*

Royal Mail

IBRS/CCRI NUMBER:  
PHQ-D/10861/BT  
(ROI Customers)

NE PAS AFFRANCHIR



NO STAMP REQUIRED

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## REONSE PAYEE GRANDE-BRETAGNE

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Kingspan Environmental Limited  
180 Gilford Road  
CRAIGAVON  
GREAT BRITAIN  
BT63 5BR