

DEF TANK SELF BUNDED

IMPORTANT TO NOTE:
ALL BOLTS AND FITTINGS MUST BE CHECKED
AND TIGHTENED PRIOR TO FIRST FILL



OPERATIONS MANUAL

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PETRO INDUSTRIAL





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DEF TANK MODEL RANGE SPECIFICATIONS

MODEL	GROSS VOLUME (L)	SAFE FILL LEVEL (L)	EXTERNAL DIMENSIONS (L x W x H) (mm)	TARE WEIGHT (empty) (kg)	INNER TANK (mm/material)	OUTER TANK (mm/material)
ABT5	5,780	5,490	3,920 x 1,137 x 2,550	2,300	3/SS304 Stainless Steel	4/Q235B Mild Steel
ABT10	12,105	11,500	3,920 x 2,250 x 2,550	3,205	3/SS304 Stainless Steel	4/Q235B Mild Steel
ABT20	22,000	20,000	6,928 x 2,250 x 2,550	5,100	3/SS304 Stainless Steel	4/Q235B Mild Steel



TANK GAUGE PROBE INSTALLATION

For shipping of the tank, the Tank Gauge probe is rolled up and cabled tied to the top to stop the probe from being damaged.

The probe cable will be a red tube (OCIO) or a black cable (OLE). You will need side cutters to remove the cable tie.

1. Loosen the black plastic electrical gland
2. Cut the cable ties.
3. Lower the probe cable to the bottom of the tank
4. Tighten the black plastic electrical gland.





PRIOR TO FILLING:



Before filling ensure that the tank air vent is fitted. In order to fill the tank you must ensure that the tank can freely vent to atmosphere.

Your PETRO Store self-bunded tank is fitted with a dedicated DN50 Fill Line.

Major components of this fill line include:

- ✓ DN50 PETRO Camlock Dust Cap Assembly
- ✓ DN50 PETRO Male Camlock Fitting
- ✓ DN50 (2") 150# PETRO Full Bore ball valve / Non Return Valve



- ✓ DN50 PETRO Overfill Protection Valve



- ✓ PETRO 12V Battery Operated Overfill Alarm





DEF TANK FILLING PROCEDURE:



The tank should not be filled to more than the tank's rated capacity.



Ensure this tank is filled as per the Diesel Tank Fill Procedure inside the pump bay door

The PETRO DEF TANK is fitted with an audible overfill alarm in accordance with the requirements as defined by AS1940. This alarm will sound should the tank contents near the determined safe fill level.

FIRST DISCHARGE FROM THE DEF TANK:

Important to note: In order to ensure system performance and product quality please dispose of the 1st 20 L dispensed from the PETRO DEF TANK.

DISCHARGING FROM THE DEF TANK:

In accordance with the requirements of AS1940 all openings to the PETRO DEF TANK are located above the liquid level of the tank.

You **CANNOT** gravity feed from a PETRO DEF TANK.

The PETRO DEF TANK, in accordance with AS1940, is fitted with an DN50 PETRO Anti Syphon Valve. The valve is located within the tank at the beginning of the suction line. This valve performs two functions:

1. **Anti Syphon:**

Once the pump ceases operation, the flow from the tank will stop; with the spring closing the seat within the anti syphon valve. Should the dispensing equipment be forcibly removed from the tank, this valve will stop the flow.

2. **Foot Valve:**

The PETRO Anti Syphon Valve is also designed and positioned to operate as a foot valve. The valve is designed to retain a full head of fuel on the dispensing equipment in order to provide an easy start for the next pumping operation.



Ensure discharging or dispensing from the PETRO DEF TANK is as per the dispensing equipment manufacturer's manual



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NORMAL OPERATION AND REFUELLING:

Operational instructions for common types of tank configurations are included below:

Common Types of Tank Configurations:

1. PS w/ 12/24v Pump Kit
2. PS w/ 12/24v Pump and Solar Panel Kit
3. PS w/ 12/24v Pump, Solar Panel Kit and Fluid Management System (FMS)
4. PS w/ 240v Pump Kit
5. PS w/ 240v Pump Kit and Solar Panel Kit
6. PS w/ 240v Pump Kit, Solar Panel Kit and Fluid Management System (FMS)

IMPORTANT TO NOTE:

- 1. The following operational instructions have been based on the PETRO DEF Tank storing DEF**
- 2. IF storing any other substances fit-for-purpose equipment must be used**



NORMAL OPERATION AND REFUELLING: DEF TANK with 12/24v PUMP KIT

Filling your PETRO DEF TANK Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough ullage is available
3. Remove Fill Point Dust Cap, **connect tanker transfer hose to camlock, open fill point isolation ball valve** and commence filling to the Safe Fill Level stated on the sides of the tank
4. Once complete **close fill point isolation ball valve, disconnect tanker transfer hose from camlock** and replace Fill Point Dust Cap
5. Lower inspection hatch

Dispensing from your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough product is available
3. Ensure on a monthly basis that the Y-Strainer (if fitted) is removed and cleaned on a monthly basis to ensure system performance
4. Ensure pump is connected to power source (12/24v Battery) and ensure all isolation ball valves are open
5. Activate pump using switch OR raising a lever; remove nozzle from stow and insert into receiving asset
6. Once complete return nozzle to stow (lower lever OR press OFF to shut down pump)



NORMAL OPERATION AND REFUELLING: DEF TANK with 12/24v PUMP and SOLAR PANEL KIT

Filling your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough ullage is available
3. Remove Fill Point Dust Cap, **connect tanker transfer hose to camlock, open fill point isolation ball valve** and commence filling to the Safe Fill Level stated on the sides of the tank
4. Once complete **close fill point isolation ball valve, disconnect tanker transfer hose from camlock** and replace Fill Point Dust Cap
5. Lower inspection hatch

Dispensing from your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough product is available
3. Ensure on a monthly basis that the Y-Strainer (if fitted) is removed and cleaned on a monthly basis to ensure system performance
4. Disengage battery isolation switch; ensure voltage reading is present; raise LED Warning light (if fitted) and ensure all isolation ball valves are open
5. Activate pump using switch OR raising a lever; remove nozzle from stow and insert into receiving asset
6. Once complete return nozzle to stow (lower lever OR press OFF to shut down pump)
7. Engage battery isolation switch and lower inspection hatch



NORMAL OPERATION AND REFUELLING: DEF TANK with 12/24v PUMP, SOLAR PANEL KIT and FLUID MANAGEMENT SYSTEM (FMS)

Filling your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough ullage is available
3. Remove Fill Point Dust Cap, **connect tanker transfer hose to camlock, open fill point isolation ball valve** and commence filling to the Safe Fill Level stated on the sides of the tank
4. Once complete **close fill point isolation ball valve, disconnect tanker transfer hose from camlock** and replace Fill Point Dust Cap
5. Lower inspection hatch

Dispensing from your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough product is available
3. Ensure on a monthly basis that the Y-Strainer (if fitted) is removed and cleaned on a monthly basis to ensure system performance
4. Disengage battery isolation switch; ensure voltage reading is present; raise LED Warning light (if fitted) and ensure all isolation ball valves are open
5. Authorise transaction via FMS Console (pump will start automatically); remove nozzle from stow and insert into receiving asset
6. Once complete return nozzle to stow
7. Engage battery isolation switch and lower inspection hatch



NORMAL OPERATION AND REFUELLING: DEF TANK with 240v PUMP KIT (WALL PLUG)

Filling your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough ullage is available
3. Remove Fill Point Dust Cap, **connect tanker transfer hose to camlock, open fill point isolation ball valve** and commence filling to the Safe Fill Level stated on the sides of the tank
4. Once complete **close fill point isolation ball valve, disconnect tanker transfer hose from camlock** and replace Fill Point Dust Cap
5. Lower inspection hatch

Dispensing from your PETRO PS Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough product is available
3. Ensure on a monthly basis that the Y-Strainer (if fitted) is removed and cleaned on a monthly basis to ensure system performance
4. Ensure 230v plug is connected to wall socket and ensure all isolation ball valves are open
5. Activate pump using switch OR raising a lever; remove nozzle from stow and insert into receiving asset
6. Once complete return nozzle to stow (lower lever OR press OFF to shut down pump)



NORMAL OPERATION AND REFUELLING: DEF TANK with 240v PUMP KIT and SOLAR PANEL KIT

Filling your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough ullage is available
3. Remove Fill Point Dust Cap, **connect tanker transfer hose to camlock, open fill point isolation ball valve** and commence filling to the Safe Fill Level stated on the sides of the tank
4. Once complete **close fill point isolation ball valve, disconnect tanker transfer hose from camlock** and replace Fill Point Dust Cap
5. Lower inspection hatch

Dispensing from your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough product is available
3. Ensure on a monthly basis that the Y-Strainer (if fitted) is removed and cleaned on a monthly basis to ensure system performance
4. Disengage battery isolation switch; ensure voltage reading is present; raise LED Warning light (if fitted) and ensure all isolation ball valves are open
5. Activate pump using switch OR raising a lever; remove nozzle from stow and insert into receiving asset
6. Once complete return nozzle to stow (lower lever OR press OFF to shut down pump) and close all isolation ball valves
7. Engage battery isolation switch and lower inspection hatch



NORMAL OPERATION AND REFUELLING: DEF TANK with 240v PUMP KIT and SOLAR PANEL KIT and FLUID MANAGEMENT SYSTEM (FMS)

Filling your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough ullage is available
3. Remove Fill Point Dust Cap, **connect tanker transfer hose to camlock, open fill point isolation ball valve** and commence filling to the Safe Fill Level stated on the sides of the tank
4. Once complete **close fill point isolation ball valve, disconnect tanker transfer hose from camlock** and replace Fill Point Dust Cap
5. Lower inspection hatch

Dispensing from your PETRO DEF Tank:

1. Ensure all vent/s and riser/s are fitted, unblocked and clear of debris
2. Raise inspection hatch; using dipstick ensure and gauge (if fitted) enough product is available
3. Ensure on a monthly basis that the Y-Strainer (if fitted) is removed and cleaned on a monthly basis to ensure system performance
4. Disengage battery isolation switch; ensure voltage reading is present; raise LED Warning light (if fitted) and ensure all isolation ball valves are open
5. Authorise transaction via FMS Console (pump will start automatically); remove nozzle from stow and insert into receiving asset
6. Once complete return nozzle to stow and close all isolation ball valves
7. Engage battery isolation switch and lower inspection hatch



MOVING YOUR PETRO DEF TANK:

Ensure the tank is lifted as per the decals on the top of the tank:

- ✓ Tank is empty.
- ✓ Lifting using the **side located** forklift pockets.

SCHEDULED MAINTENANCE:

It is important that you put in place a preventative maintenance schedule for your **PETRO DEF TANK**. To ensure optimum performance a 6-monthly service is required. Particular areas of focus should be as follows:

Updraft Vent (Breather)

- ✓ **MONTHLY** – Remove and wash / clear vent of all dust and other particles.
- ✓ The **PETRO DEF TANK** is of a free venting design.
- ✓ For every litre of fluid filled into, or taken out from the **PETRO DEF TANK** a litre of air travels through the main tank breather.
- ✓ It is important that this breather remain clear and unblocked.
- ✓ Any blockage of this breather can result in structural damage to the tank.
- ✓ The **PETRO DEF TANK** is only rated to a maximum pressure of 21 kpa (3psi).

Interstitial Emergency Vent

- ✓ **MONTHLY** – Please check vent operation on a monthly basis and lubricate as required.
- ✓ This vent provides relief to the interstitial space in the event of pressure build up.
- ✓ In the event of a thermal expansion air expands and pressure needs to be relieved
- ✓ This vent provides a vital job to relieve this pressure



De-Watering

- ✓ Over time water will build up in the bottom of your PETRO Store
- ✓ We provide a 1" Tank Dewatering Line located at the top of the bunded pump bay. This 1" line extends to just off the bottom of the tank at the lowest point of the tank.
- ✓ Using a hand operated pump, remove liquid into an appropriate storage medium using 25mm suction tube until clear diesel flows.

Bunded Pump Bay Housing

- ✓ This design feature of the tank is designed to capture split product over time.
- ✓ It is an area of the tank that requires regular maintenance and good housekeeping.



Evacuation equipment must be used to remove any product from the bund in order to eliminate the risk of environmental contamination.





Overfill Alarm

- ✓ **MONTHLY** – Test operation, replace batteries as required.

Interstitial Dip

- ✓ **MONTHLY** – Dip interstitial space of the tank using Kolor Kut Water Finding Paste
- ✓ More information can be obtained by clicking on the following link or calling PETRO Industrial via the number above:
[Kolor Kut Water Finding Paste](#)

Suction Strainer

- ✓ **MONTHLY** – if a pre-pump suction strainer is included with your PETRO Store please close all surrounding valves, remove the element and clean on a monthly basis.

Pumps

- ✓ Please maintain in accordance with the pump manufacturer's maintenance manual.

Filters

- ✓ **SIX MONTHLY** – Your **PETRO DEF TANK** can be fitted with a variety of filtration solution and is to be maintained in accordance with the manufacturer's maintenance manual.

Meters

- ✓ **SIX MONTHLY** – calibrate and maintain in accordance with the meter manufacturer's manual.

Paint Finish Care Instructions

- **MONTHLY** - Wash tank surface with wash and wax to keep surface clean from dust build up, pollution fall out and any other corrosive air born particles that might accumulate on the painted surface.

PETRO Industrial stocks a full range of spare parts for your **PETRO DEF TANK**. PETRO Industrial branch locations and contact information are included below.



14 Business Drive, Narangba, 4504
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COMMON CONSUMABLES:

Part Type	Part	Image	Applies to your tank
Low-Flow Diesel Manual Nozzle	F0065000A		<input type="checkbox"/> Yes <input type="checkbox"/> No
Low-Flow Diesel Automatic Nozzle	F00603060		<input type="checkbox"/> Yes <input type="checkbox"/> No
High-Flow Diesel Automatic Nozzle	F00610020		<input type="checkbox"/> Yes <input type="checkbox"/> No



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COMMON CONSUMABLES:

Part Type	Part	Image	Applies to your tank
Hose – Diesel Suction and Delivery Range	HOSE-XXID-10M		<input type="checkbox"/> Yes <input type="checkbox"/> No
Clean and Dry Filtration Kit – Water and Particulate	P506073		<input type="checkbox"/> Yes <input type="checkbox"/> No
Water Captor Filter Element	F00611020		<input type="checkbox"/> Yes <input type="checkbox"/> No

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COMMON CONSUMABLES:

Part Type	Part	Image	Applies to your tank
Particulate Captor Filter Element	F00611000		<input type="checkbox"/> Yes <input type="checkbox"/> No

For parts, sales and service contact PETRO Industrial on 07 3204 9558 OR sales@petroindustrial.com.au



PETRO STORE RISK ASSESSMENT:

Workplace / Equipment: **PETRO STORE MODEL RANGE**

Risk Assessor: **A. Braun - WHS Manager**

Specific Task Related to Hazard: **Normal Operation & Maintenance**

Assessment Date: **12/09/2023**

Section 1 Hazards: Potential HAZARDS								
	Y	N		Y	N		Y	N
Work Environment			Radiation			Environmental		
Adequate access	X		Ionizing radiation		X	Spills	X	
Air-conditioning		X	Non-ionizing radiation		X	Damage		X
Confined spaces	X		Kinetic Energy			Contamination		X
Lighting		X	The body hitting objects		X	Hazardous Substance		
Mental stress		X	Hit by moving objects		X	Liquids	X	
Ergonomics		X	Explosion		X	Fumes	X	
Temperature / Weather Effects			Penetrating objects		X	Gases		X
Heat	X		Vibration		X	Vapours / mists		X
Cold	X		Acoustic / noise		X	Solids		X
Rain / flood		X	Energy			Manual Handling		
Wind		X	Electrical	X		Lifting / carrying		X
Pressure (diving / altitude)		X	Gravity		X	Pushing / pulling		X
Lighting		X	Falls / trips / slips		X	Posture		X
Smoke		X	Falling objects		X	Reaching / overstretching		X
Health and Security			Mechanical			Repetitive movement		X
Food		X	Vehicles		X	Bending		X
Poisoning or contamination	X		Mobile and fixed plant		X	Miscellaneous		
Intoxication		X	Powered equipment		X	Working at heights	X	
Dehydration		X	Non-powered equipment		X	Cuts / lacerations		X
Violence		X						
Working alone		X						
Bites / stings		X						



Section 2 Summary of Identified Hazards

1	Adequate access to PETRO STORE	6	Electricity
2	Confined Space	7	Spills
3	Heat	8	Liquids
4	Cold	9	Work at Heights
5	Poisoning / Contamination	10	
Any specific circumstances (describe): NONE			
Persons at risk (list): OPERATOR			

Section 3 Risk Assessment

(List identified hazards and detail measures taken to address the hazards) This form is to be expanded electronically or additional information attached where required

Controls to be considered from the following hierarchy of control

1. Elimination (is it necessary?)
2. Substitution
3. Isolation (restrict access)
4. Engineering (guarding, redesign)
5. Administration (training, SOP's,)
6. Personal Protective Equipment (PPE) eg (gloves, leather apron, coveralls, respirator) etc

Identified Hazards Exposure	Risk Rating	Required Controls	Controls Implemented	
			Y	N
Adequate access to Cube	Medium	Allow at least 600mm clear access to hatches		
Confined Space	Medium	Ensure monitored confined space entry procedures are in place		
Heat and Cold	Medium	Avoid exposure to +50 deg. C and Below 20 deg. C		
Poisoning/Contamination	Medium	Ensure controls advised in product Safety Data Sheet are followed		
Electricity	Medium	Prestart checks for wear and Earth Cube		
Spills - Liquid; fumes	Medium	Filling and Fuelling procedure in place – Spill Kit – Gloves and Glasses; vents are fitted and tank placed in well ventilated area		
Work at Heights	Medium	Ensure Work at Heights procedure in place prior to PETRO STORE top access		



Section 4 Implementation Plan (Complete at commissioning)

Control Option	Resources	Person(s) Responsible	Proposed Implementation Date

Section 5 Comments and Endorsements

Comments: The PETRO PC CUBE is a self bunded unit that requires regular checks for wear / damage of external surfaces and Bund. Regular maintenance schedule is to be implemented.

Assessment Approval:

I am satisfied that the risks are not significant and/or adequately controlled and that resources required will be provided.

Name: Position Title:

Signature: Date:



PETRO WARRANTY POLICY:

1. PETRO Industrial warrants that each new and unused item of equipment (hereinafter called the Product) is of good workmanship and is free from mechanical defects, provided that:
 - The Product is installed and operated in accordance with the printed instructions as provided by PETRO Industrial.
 - The Product is used under normal operating conditions for which it is designed.
 - The Product is not subject to misuse, negligence or accident.
 - The Product receives proper care, lubrication, protection and maintenance under the supervision of suitably qualified personnel.
2. This warranty only applies where the product is maintained as per the PETRO Industrial's Tank Maintenance Schedule. This Maintenance Schedule covers the following:
 - Tank surface cleaning and paint protection.
 - External valves, sockets, filtration and venting.
 - Pump bay dispensing equipment.
3. This warranty expires 12 months after shipment by PETRO Industrial to the first user.
4. This warranty does not apply to:
 - Fluids
 - Filters
 - Fuses
 - Bulbs
 - And other consumable or normally wearing type items unless found to be defective prior to use.
5. PETRO Industrial does not warrant the following components:
 - Engines (Gasoline or Diesel)
 - Compressors (Air or Freon)
 - Storage Batteries
 - Engine Starters
 - Generators
 - Alternators
 - Regulators
 - Governors
 - Transmissions
 - Any other Product having its own inherent warranty.

Many of the foregoing components are warranted directly by the manufacturer and are serviced by a worldwide network of distributors and others authorised to handle claims for component manufacturers. A first user's claim should be presented directly to such an authorized component service outlet.



In the event any component manufacturer has warranted its component to PETRO Industrial and will not deal directly with a first user, then PETRO Industrial will cooperate with the first user in the presentation of a claim to such manufacturer.

Under no circumstances does PETRO Industrial assume any liability for any warranty claim against or warranty work done by, or on behalf, of any manufacturer of the foregoing components.

5. PETRO Industrial extends this warranty only to the purchaser of new Products from PETRO Industrial or one of its authorised distributors. The products purchased under this warranty are intended for use exclusively by the buyer and its employees and by no other persons and, therefore, there shall be no third party beneficiary to this warranty.
6. A claim of defects in any Product covered by this warranty must be in writing and is subject to PETRO Industrial inspection and judgment. PETRO Industrial's liability is limited to repair only. PETRO Industrial will replace the defective product, F.O.B. factory, once the purchaser, at its expense, has returned the defective product to PETRO Industrial's nominated shipping place. Replacement and exchange parts will be warranted for the remainder of the original warranty, or for a period of ninety days, whichever is the greater.
7. Under no circumstances whatsoever shall PETRO Industrial and its authorised distributors be liable for any special or consequential damages, whether based on goodwill, lost resale profits, work stoppage, impairment of other goods or otherwise, and whether arising out of breach of any express or implied warranty, breach of contract, negligence or otherwise, except only as may be required by applicable law.
8. Continued use of Product (s) after discovery of a defect voids all warranties.
9. Except as authorised in writing, this warranty does not cover any equipment that has been altered by any party other than PETRO Industrial.
10. There are no warranties, which extend beyond the description of the face hereof. PETRO Industrial makes no warranties, express or implied, of merchant ability or fitness for a particular purpose.
11. PETRO Industrial neither assumes nor authorises any person for PETRO Industrial any liability in connection with the Products sold, and there are no oral agreements or warranties collateral to of affecting this written warranty.
12. The laws of the State of Queensland, Australia hereunder shall govern this warranty and all undertakings of PETRO Industrial.

Warning

At all times, safety must be considered an important factor in the installation, servicing and operation of the product. Skilled and technically qualified personnel should always be employed for such tasks.