WESTERN. GLOBAL



STATIC TANK

250, 500, 1000, 1800FCP

WM006

WHY WESTERN?

1203

FUEL Cube

WITH AN INNOVATIVE RANGE OF SOLUTIONS BACKED BY A TEAM OF INDUSTRY EXPERTS, WESTERN GLOBAL FOCUSES ON MAKING YOU MORE PRODUCTIVE, MORE EFFICIENT AND ULTIMATELY MORE PROFITABLE.



Contents

INTRODUCTION

Thank you for choosing Western Global



Please read the contents of this manual before use.

- Ensure all operators are fully conversant with the procedures for lifting, loading, positioning, filling, maintaining and use of the unit
- By understanding and following the information and procedures in this manual, your tank will give you many years of safe use
- Certain information in this manual is governed by law and is subject to change without prior notice. Great care has been taken to ensure that the information is correct at the time of publication.
- However, it is the owner's / user's sole responsibility to ensure that they and the tank fully comply with all legal requirements. Western Global cannot and will not accept any liability for any inaccuracy or incorrectly stated legal requirements
- Western Global reserves the right to alter product specifications without prior notice or obligation

Western Global Tanks are design approved under various Global /

International / National / Regional standards of safety 1

¹ Speak to your local / regional Western Global office for applicable standards.

DESCRIPTION

FCP – Static Fuel Tank

- The FCP range of fuel tanks have been designed to enable safe storage of Flammable & Combustible fluids
- The FCP can be used as an auxiliary fuel tank, feeding generators etc., and for refuelling other equipment via a dedicated fuel pump
- All pipe work and pump systems are stored beneath a secure, lockable access lid
- The FCP must be empty before transporting
- To aid both transporting and handling, the FCP is fitted with forklift pockets (Lift empty only)
- Containment capacity equal to 110% of the primary tank's capacity
- The design enables maintenance of the containment area without specialty equipment
- The FCP has a comprehensive range of connection points to enable attachment of various fittings
- The FCP can supply fuel to multiple feed lines
- The FCP can be used to refuel independent equipment
- The FCP is approved to UL142 Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids

SIGN-OFF FORM

Г

- The equipment provider should follow the general Safety Standards
- Anyone who will be using and/or maintaining the tank must read and clearly understand ALL Safety, Usage and Maintenance information in this manual
- Periodic reviews of SAFETY and OPERATION should be standard practice for all your equipment

• A sign-off sheet is provided for your records, showing all personnel working with the equipment

I have read and understand the information in the Operator's Manual and have been instructed in the operation of the equipment					
Date	Employee Signature Employer Signature				

IDENTIFICATION MARKS

Each tank is supplied with 3 unique identification numbers.

- 1. Western Serial Number
- 2. Manufacturing Serial Number
- 3. UL/ULC Serial Number



The UN IBC Plate is located on the external of the tank (front or Side near the cabinet area



2, Manufacturing Serial Number

Tank number is positioned in the cab area and will be permanently attached to the main tank.

C C USU LISTED CLOSED TOP DIKED ABOVE CROUND TANK FOR FLAMMABLE LIQUID No.	UL 142 ULC-S601-07 NFCC PART 4 NFPA NO. 30 CSA B139 MH45322 OUR INNOVATION & YOUR EFFICIENC WWW.WESTERN-GLOBAL.CC	GALLONS(US) LITRES MFG. Year MODEL	- 22915M	
LIST CLOSED TOF ABOVE GROU FOR FLAMMAB	ED Diked Nd Tank Le Liquid	3		3, UL/ULC Serial Number
No.				

The UL Plate is located on the external of the tank (front or Side near the cabinet area

Record your serial numbers here

Western Data-plate Serial Number	
Manufacturing Serial Number	
UL/ULC Data plate Serial Number	
Plant Number*	

*Optional customer plant number

UNIT SPECIFICATION

Capacities / Dimensions

	Capacity					
Model	Litres		US Gallon		Imp. Gallon	
	Nominal	95%	Nominal	95%	Nominal	95%
FCP250	921	875	243	231	203	192
FCP500	2000	1900	528	502	440	418
FCP1000	3846	3654	1016	965	846	804
FCP1800	7048	6696	1862	1769	1550	1472

	Weight				
Model	KG		LBS		
	TARE	GROSS	TARE	GROSS	
FCP250	420	1295	926	2855	
FCP500	681	2581	1501	5690	
FCP1000	1252	4906	2760	10816	
FCP1800	1983	8679	4372	19134	

	Dimension						
Model	Model N		Vetric (mm)		Imperial (Inch)		
	L	L W H L V		W	н		
FCP250	1142	1142	1294	45	45	51	
FCP500	2190	1132	1294	86	45	51	
FCP1000	2298	2198	1172	90	87	46	
FCP1800	3947	2190	1172	155	86	46	









Before using this equipment and to avoid personal injury, carefully read and understand these instructions.

General

- If there is anything you do not understand, contact your supplier for advice
- The unit must be operated by authorised personnel only
- This unit must not be moved, filled, maintained or operated by persons who • are under the influence of alcohol or drugs, tired or unwell
- You MUST perform a risk assessment before using this equipment to ensure your safety and the safety of others
- Wear the correct Personal Protective Equipment for the task you are • performing
- Do not wear loose jewellery or clothing that may get in the way or become trapped in the mechanism
- Inspect the unit before use, if there is any doubt about its condition, DO NOT • USE IT
- Do not smoke No naked flames near tank
- Please follow all necessary Transportation of Dangerous Goods act, regulations and codes, National and Regional Fire Safety Codes, and other Installation Codes as applicable in your region / country of use.



No Smoking



Wear Safety Glasses



Wear Safety Shoes

Wear Safety Helmet

No Open Flames





Wear Safety Gloves



Authorised Access Only



Wear Ear Protection



Wear Coveralls

NOTE: Please check with the local authority for any further site requirements or regional legislation. A full risk assessment may be required

Limitations of use

- The FCP is designed for the safe storage of noncorrosive, stable flammable and combustible liquids that have a specific gravity not exceeding 1.0 in aboveground applications
- UL 142 Listed tanks are intended for installation in accordance with a variety of installation codes, including NFPA 30, NFPA 30A, NFPA 31, NFPA 37, NFPA 1 and the International Fire Code.
- The FCP is not suitable for use underground

Safe practice

The storage, transportation and dispensing of Flammable & Combustible fluids is governed by law and it is the user/operator who has sole responsibility to ensure that any such rules and regulations are abided by.

Earthing point

- The unit is fitted with an earthing point. This can be found on bottom frame of the unit
- Used to protect against static electricity build up, this should be connected to a suitable earthing point, by a qualified electrician, when in use



1. Earth point Example

Venting

Each unit has 2 common vents installed; these are in the Cab Area of the tank.

IMPORTANT: Do not operate the unit if these vents are damaged or missing

- 2" Pressure Vacuum Vent Allows movement of air into the unit at low pressure during the pumping process and allows air out of the unit at a higher pressure to stop an over pressure of the internal tank
- ¹/₄" Roll over Vent Allows free flow air into and out of the tank at all times, this low volume vent will fully close if the tank is inverted or turned on its side
- For static installation follow local regional, state and national Fire Safety Codes and other governing Installation Codes for the Normal and Emergency Venting equipment and appurtenances.



ACCESS AND SECURITY

Access to the Cab Area

- The cabinet hatch is constructed of a heavy-duty steel, care should be taken when opening or closing
- The cabinet hatch should be kept closed when the FCP is not being used to protect the fittings and containment area from weather conditions.

Access to Containment

• The inner tank can be removed from the containment to allow easy inspection

Security

• The FCP is fitted with a range of connections to enable the supply of Flammable & Combustible fluids. All the connections are housed behind the cabinet hatch, which can be locked using a suitable security padlock

CABINET OVERVIEW

Standard Unit



- 1. 1" Feed
- 2. 3" Fill Point
- 3. 2" Pressure / Vacuum Vent
- 4. 2 x 1.5" Spare Ports
- 5. Emergency 2" Vent Ports
- 6. ¼" Roll Over Vent
- 7. Dip Stick
- 8. Lid Clip

For the FCP1800 item 5 is replaced with a 6" emergency vent port

CENTRE OF GRAVITY

FCP250 Centre of Gravity²









	X (mm)	Y (mm)	Z (mm)
Empty	569	539	598
Full	570	562	599

² Based on empty tank.

FCP500 Centre of Gravity³









	X (mm)	Y (mm)	Z (mm)
Empty	572	1035	580
Full	572	1076	612

³ Based on empty tank.

FCP1000 Centre of Gravity⁴







	X (mm)	Y (mm)	Z (mm)
Empty	1100	1088	469
Full	1099	1134	540

⁴ Based on empty tank.

FCP1800 Centre of Gravity⁵





	X (mm)	Y (mm)	Z (mm)
Empty	1046	1918	452
Full	1046	1966	541

⁵ Based on empty tank.

LIFTING & HANDLING

IMPORTANT: Always prepare a Lifting Plan/Risk Assessment.

By Forklift / Tele-handler

- Each FCP is fitted with forklift pockets which are designed to allow the FCP to be raised by a forklift/tele-handler. The FCP can be lifted from all 4 sides. This must be considered in your risk assessment
- It is important that the total gross weight of the FCP is not more than half (50%) of the forklift's maximum SWL. Ensure that the forklift's forks are set to the correct width for the FCP's fork pockets





Positioning

Where the FCP is to be permanently positioned for use (long or short term) it is important that certain aspects are considered

- You should make sure that both supplying vehicle and receiving vehicle have safe and easy access to the FCP
- The position should be selected where the unit will be protected from accidental impact
- Consideration should be given to the location of overhead services such as telecommunications, power cables and overhanging obstructions. Be aware of the location of underground services, such as drains, and manhole covers
- You must also consider the ground surface and make sure it can support the weight of the FCP, its contents when full and any stored equipment such as pumps, without the risk of subsidence. It should be positioned on smooth and level ground with access available to the rear and sides
- Allow for access that may be required by the emergency services should it become necessary

FILLING THE FCP

- DO NOT FILL TANK WHEN DISPENSING IS IN OPERATION
- Only fill the FCP to 95% of its nominal capacity See UNIT SPECIFICATION
- Filling should only be performed by a suitably trained person and only following a full risk assessment
- The FCP must be positioned on a firm level surface.
- Before filling, ensure that you have a suitable spill containment kit and that you are wearing all required PPE
- Nozzle Fill Unlock and open the access lid. Unscrew and remove the 3" filler cap, place the filling nozzle in the 3" port
- Do not leave the nozzle unattended during the filling process
- Observe the fuel level for an indication of tank capacity, then once filled, replace the filler cap and clean up any spills

DISPENSING FUEL

There are two options available for dispensing/supplying fuel. Either manually via a fuel pump and nozzle or by direct coupling to the equipment such as a generator.

- **By Fuel Pump** For the information about any pump system fitted to this FCP, please refer to documents supplied with the pump.
- Direct Coupling enables continuous fuel feed to equipment such as generators where fuel is required continuously.

TRANSPORTING

NOTE: TRANSPORT EMPTY ONLY

- In transport ALL ports, valves and vents must be closed
- Ensure pump is turned off
- Close and lock the access lid
- The FCP must be secured firmly to its means of transport
- The FCP is designed with the structural strength to allow stacking 2 high when empty.
- Always mate the corner brackets together to stabilise the stack.
- Use only a hoist or forklift with the required lift capacity to raise, lower or stack the tanks.

STACKING

- The FCP is designed with the structural strength to allow stacking 2 high when full and 3 high when empty.
- Always mate the corner brackets together to stabilise the stack.
- Use only a hoist or forklift with the required lift capacity to raise, lower or stack the tanks.



Stacking Arrangement

STRAPPING CHARTS

Depth (cm)	Depth (in)	Fuel Level	Fuel Level	Fuel Level
2	0.9	(LILTE)		
2	0.8	20	5	4
6	2.4	60	16	13
10	3.9	100	27	22
14	5.5	140	37	31
18	7.1	180	48	40
22	8.7	220	58	49
26	10.2	261	69	57
30	11.8	301	79	66
34	13.4	341	90	75
38	15.0	381	101	84
42	16.5	421	111	93
46	18.1	461	122	101
50	19.7	501	132	110
54	21.3	541	143	119
58	22.8	580	153	128
62	24.4	617	163	136
66	26.0	654	173	144
70	27.6	689	182	152
74	29.1	724	191	159
78	30.7	757	200	167
82	32.3	789	208	174
86	33.9	820	217	180
90	35.4	850	225	187
95	37.4	878	232	193
98	38.6	906	239	199
100	39.4	919	243	202

- 1. Highlighted on the strapping chart is the maximum safe fill level @ 95% of the nominal volume. DO NOT FILL ABOVE THIS LEVEL
- 2. The dip chart volume is taken from the lowest point in the tank.
- 3. When programming a level monitoring system, the difference in floor height at the port location (where the instrument is mounted) should be subtracted from the fill height for each volume increment line to equate to corresponding fill height at the instrument location.

Depth (cm)	Depth (in)	Fuel Level (Litre)	Fuel Level (US-Gallon)	Fuel Level (Imp Gallon)
2	0.79	41	11	9
6	2.36	123	33	27
10	3.94	206	54	45
14	5.51	288	76	63
18	7.09	370	98	82
22	8.66	453	120	100
26	10.24	535	141	118
30	11.81	617	163	136
34	13.39	700	185	154
38	14.96	782	207	172
42	16.54	864	228	190
46	18.11	946	250	208
50	19.69	1029	272	226
54	21.26	1111	293	244
58	22.83	1192	315	262
62	24.41	1272	336	280
66	25.98	1351	357	297
70	27.56	1429	377	314
74	29.13	1505	398	331
78	30.71	1581	418	348
82	32.28	1655	437	364
86	33.86	1728	457	380
90	35.43	1800	476	396
94	37.01	1871	494	412
95	37.40	1906	504	419
100	39.37	1975	522	435

- 1. Highlighted on the strapping chart is the maximum safe fill level @ 95% of the nominal volume. DO NOT FILL ABOVE THIS LEVEL
- 2. The dip chart volume is taken from the lowest point in the tank.
- 3. When programming a level monitoring system, the difference in floor height at the port location (where the instrument is mounted) should be subtracted from the fill height for each volume increment line to equate to corresponding fill height at the instrument location.

Depth (cm)	Depth (in)	Fuel Level (Litre)	Fuel Level (US-Gallon)	Fuel Level (Imp Gallon)
2	0.79	88	23	19
6	2.36	263	69	58
10	3.94	438	116	96
14	5.51	613	162	135
18	7.09	788	208	173
22	8.66	963	254	212
26	10.24	1138	301	250
30	11.81	1313	347	289
34	13.39	1488	393	327
38	14.96	1663	439	366
42	16.54	1837	485	404
46	18.11	2010	531	442
50	19.69	2180	576	480
54	21.26	2348	620	517
58	22.83	2514	664	553
62	24.41	2678	707	589
66	25.98	2839	750	624
70	27.56	2998	792	659
74	29.13	3154	833	694
78	30.71	3309	874	728
82	32.28	3461	914	761
86	33.86	3611	954	794
90	35.43	3758	993	827

- 1. Highlighted on the strapping chart is the maximum safe fill level @ 95% of the nominal volume. DO NOT FILL ABOVE THIS LEVEL
- 2. The dip chart volume is taken from the lowest point in the tank.
- 3. When programming a level monitoring system, the difference in floor height at the port location (where the instrument is mounted) should be subtracted from the fill height for each volume increment line to equate to corresponding fill height at the instrument location.

Depth (mm)	Depth (In)	Fuel Level (Litre)	Fuel Level (US Gallon)	Fuel Level (Imp Gallon)
2	0.79	156.0	41.2	34.3
6	2.36	469.0	123.9	27.2
10	3.94	782.0	54.4	45.3
14	5.51	1095.0	289.3	240.9
18	7.09	1408.0	372.0	309.7
22	8.66	1721.0	454.6	378.6
26	10.24	2034.0	537.3	447.4
30	11.81	2347.0	163.1	516.3
34	13.39	2660.0	702.7	585.1
38	14.96	2973.0	785.4	654.0
42	16.54	3285.0	867.8	722.6
46	18.11	3596.0	950.0	791.0
50	19.69	3904.0	1031.3	858.8
54	21.26	4209.0	1111.9	925.8
58	22.83	4513.0	1192.2	992.7
62	24.41	4814.0	1271.7	1058.9
66	25.98	5112.0	1350.4	1124.5
70	27.56	5409.0	1428.9	1189.8
74	29.13	5703.0	1506.6	1254.5
78	30.71	5995.0	1583.7	1318.7
82	32.28	6285.0	437.1	1382.5
86	33.86	6572.0	1736.1	1445.6
87.75	34.55	6696.0	1768.9	1472.9
90	35.43	6857.0	1811.4	1508.3
92.7	36.50	7048.0	1861.9	1550.3

- 4. Highlighted on the strapping chart is the (MSF) maximum safe fill level @ 95% of the nominal volume. DO NOT FILL ABOVE THIS LEVEL
- 5. The dip chart volume is taken from the lowest point in the tank.
- 6. When programming a level monitoring system, the difference in floor height at the port location (where the instrument is mounted) should be subtracted from the fill height for each volume increment line to equate to corresponding fill height at the instrument location.

MAINTENANCE AND SERVICE SCHEDULE

V = Visual inspection P = Physical Check L = Lubricate R = Replace							
ltem	Daily	Weekly	Monthly	6 Monthly	Yearly	Other	Reference /
	· · ·			i anaral	· · · · ·		Comments
			G	eneral			Check site and
Housekeening		V		Р			tank Remove
Housekeeping		·					debris etc.
							V = Check in
Firefighting							place and
media		V		Р			unused
(if fitted)		v					P = Test
(in fitted)							pressure and
							function
							V = Visual
Doors			V		L		inspection
							L = Greases
							hinges
Signage			V/R				Check damage
				Taul			and wear
	1		1	тапк	1		D. Charle
Ball valves		Р					P = Check
							V = Visual
							v – visuai checks for leaks
							and damage
Vents, fittings		V		Р			P = physical
and pipelines		•					check bolt
							tightness, paint
							deterioration
Interstitial							Charly for water
space		Р					check for water
(Containment)							
							V = Visual check
Tank earthing				V	Р		OK
				· ·			P = Test
							continuity
Level gauges							V = Visual
	V				P		checks for leaks
				Р		and damage	
							P = Remove and
							check operation

RECOMENDED INSPECTION / MAINTENANCE

Western recommend that the owner of the FCP carries out regular inspection. This is for guidance only.

IMPORTANT: Always follow local or preventive schedules

Every 2 ½ years

- External inspection
- Function of all services equipment
- Leak test.

Every 5 years

- Internal inspection
- External inspection
- Function of all services equipment
- Leak test.

Record Keeping

It is recommended that a report of each inspection and pressure test is kept for each tank

Below is a simple example of an inspection record sheet

Owner			Data of manufactura		
Model			Date of manufacture		
Serial Number			Diant Number		
Capacity			Plant Number		
Date	2.5 or 5 Year	Pass or Fail	Comments	Inspectors Name	Signature

INNER TANK REMOVAL

For periodic inspection and maintenance, you may be required to remove the inner tank from the outer tank. Follow local Health and Safety rules when carrying out this operation.



IMPORTANT - Ensure the tank is empty before lifting.

1. Remove all 4 corner brackets. Store brackets, nuts and bolts safely

2. Remove 2 x side and 2 x end rails. Store rails, nuts and bolts safely

3. Insert 4 x M22 lifting eyes in each corner of the inner tank



4. Using a 4-leg lifting chain attached to each corner carefully remove the inner tank

To re-install the inner tank into the containment, follow steps 1-4 in reverse. Always ensure the bolts are torqued.



Typical Lifting Eye M22

TORQUE SETTINGS

Nuts and Bolts

If the tank is required to be dismantled and re-assembled the tank nuts and bolts used are required to be torqued, torque settings are shown in the table below.

Size	Typical Maximum Tightening Torque Nm<u> (Ib ft)</u>			
	Property Class			
	Grade 8.8	Grade 10.9		
M8	30 (21)	40 (30)		
M10	55 (42)	75 (60)		
M12	100 (74)	135 (106)		

Metric Torque Specifications

Torque figures indicated above are valid for lightly oiled threads. Therefore, do not grease or oil bolts or cap screws unless otherwise specified.

Torque value for bolts and cap screws are identified by their head markings (property class).



ENVIRONMENTAL RESPONSIBILITY

Correct and considerate management of Flammable & Combustible fluids, its storage and transfer are the responsibility of everyone who operates or maintains this equipment. All necessary precautions should be made to prevent spills and subsequent pollution of the environment.

Have in place a clear action plan to deal with accidental spill, no matter how small or large. Ensure that you have a Flammable & Combustible fluids spill containment kit available and that you understand its correct use.

Spills

Should a spill occur when emptying the containment, or when filling or transferring fuel, clear the spill as quickly as possible using absorbent material. Ideally, you should use a dedicated spill kit which will contain all the necessary items to retain and remove such a spill.

- DO NOT hose the area down or use any detergents
- DO NOT allow the fuel to enter drains or watercourses
- Spills must be reported to your local Authority
- All material used to retain and remove a spill should be bagged and collected by a registered carrier

Containment

The FCP containment area safeguards against any spill exiting the unit and polluting the immediate area. The containment is designed to retain up to 110% of the unit's primary tank maximum storage capability.

- Check regularly for liquid in the containment
- Remove any water
- Take immediate remedial action if product or water is found

WARNING

Waste may only be collected by a registered carrier.

Disposal

When maintaining, servicing or disposing of the FCP or consumable components, do not dispose of contaminated parts within general refuse.

Refer to local authority regulations for their correct disposal.

TROUBLE-SHOOTING

The Transcube is a simple and reliable system

Below we have listed common problems, causes and solutions that you may encounter.

If a problem is difficult to solve, even after having read through this troubleshooting section, please call your local Western Global distributor or dealer.

Before you call, please have the tanks Identification Marks ready (Serial and Tank numbers)

PROBLEM	CAUSE	SOLUTION
	No Powor	Connect power wires to
Pump will not run	NO POWEI	correct power source
	Pump Off	Turn pump on
	Loose fitting	Tighten fitting
	Leaking Coupler	Replace coupler
Fuel in containment		Watch fuel gauge when filling.
	Over filling	Do not fill past 95% of the
		nominal capacity
Water in containment	Lid left open to weather	Keep lid closed

WARRANTY

The Company undertakes to replace or repair, free of charge, any defect which the Company considers to be due to faulty workmanship or material within 36 months (or otherwise stated) of the sale date, except for:

- Defects arising from neglect, misuse or unauthorised modifications.
- Damage caused by abuse, misuse, dropping or other similar damage caused by or because of a failure to follow transportation, storage, loading or operation instructions.
- Alterations, additions or repairs carried out by persons other than the manufacturer or their recognised distributors.
- Transportation or shipment costs to and from the manufacturer or their recognised agents, for repair or assessment against a warranty claim, on any product or component.
- Materials and/or labour costs to renew, repair or replace components due to normal wear and tear.
- Faults arising from the use of non-standard or additional parts, or any consequential damage or wear caused by the fitting or use of such parts.

IMPORTANT

Warranty may, at the sole discretion of the manufacturer, be voided if the scheduled service/inspections are not carried out in accordance with the logbook. The manufacturer and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with, or by reason of, or due to the inability to use the product for any purpose.



NEED MORE INFORMATION?



- Product Details and Specifications
- Accessories and Support Information
- Company News & Updates

VISIT WESTERN-GLOBAL.COM



HQ - WESTERN GLOBAL LTD

Western House Broad Lane, Yate Bristol - BS37 7LD Tel: +44 (0) 1454 227 277 sales.uk@western-global.com

CANADA

Tel: +1 (204) 772 6525 info@western-global.ca

USA

Tel: +1 (203) 847 4300 info@western-global.us.com

All rights reserved. No part of this manual may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of Western Global Ltd