

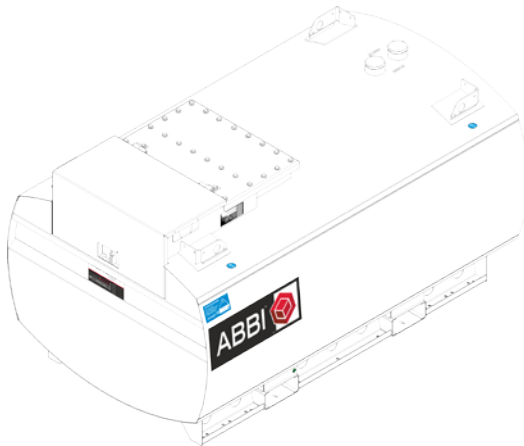
WESTERN[®]



GLOBAL

TRANSPORTABLE TANK (UN IBC 31A/Y)

10,20,27ART-GLB



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INTRODUCTION

Thank you for choosing a Western Global ART-UN IBC 31A/Y



Please read the contents of this manual before using the ART.

- Ensure all operators are fully conversant with the procedures for lifting, loading, positioning, filling and maintaining the unit.
- By understanding and following the information and procedures in this manual, your Western Global ART 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 owners / user's sole responsibility to ensure that they and the ART fully comply with all legal requirements. Western Global Ltd 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.

ART Tanks are design approved under various Global / International / National / Regional standards of safety¹

¹ Speak to your local office for applicable standards.

DESCRIPTION

UN IBC 31A/Y – Intermediate Bulk Container

ART –ABBI Global

- The ART range of UN IBC 31A/Y's have been designed to enable safe storage and transportation of Flammable & Combustible fluids.
- The ART 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 ART conforms to UN/ADR which allows the transportation of the unit whilst containing fuel. There is no need to drain / empty before transporting.
- To aid both transporting and handling, the ART is fitted with fork lift tubes and 'full load' crane sling lifting points.
- Internal baffles ensure safe control of fuel movement when the unit is being lifted or transported
- Fully bunded, with a bund capacity equal to 110% of the main tanks capacity.
- The design enables maintenance of the bund area without the need for specialist equipment.
- The ART has a comprehensive range of connection points to enable attachment of various fittings.

SAFETY

General



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

- If there is anything you do not understand, contact the supplier for advice.
- Authorised personal 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 near tank.
- No naked flames.



No Smoking



No Open Flames



Authorised Access Only



Wear Safety Glasses



Wear Safety Helmet



Wear Ear Protection



Wear Safety Shoes



Wear Safety Gloves



Wear Coveralls

NOTE: Please check with the local authority for any further site requirements or regional legislation.

Limitations of use

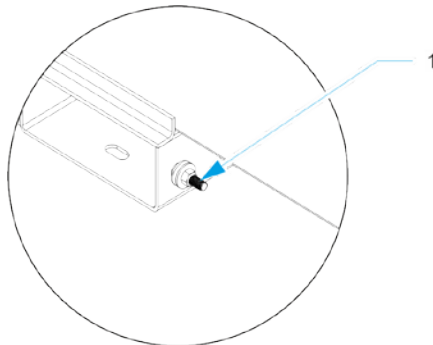
- The ART is designed for the safe storage of Flammable & Combustible fluids. whilst on site or in transit.
- Each unit can store up to a maximum of 95% of its stated Nominal capacity.
- The ART can supply fuel to multiple feed lines
- The ART can be used to refuel independent equipment.

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 IBC is fitted with an earthing point found on the outside edge of one fork tube, usually at the access point end.
- Used to protect against static electricity build up, this should be connected to a suitable earthing point by a qualified electrician.



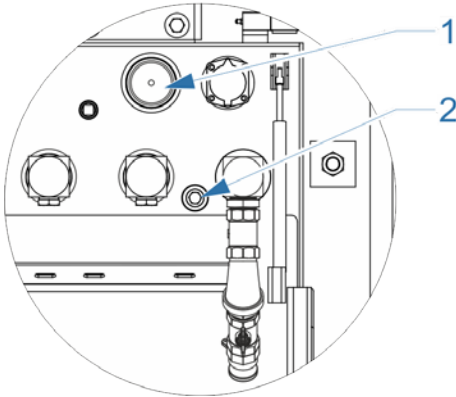
1 – Earth point

Figure 1

Venting

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

- 2" Pressure Vacuum Vent – Allows movement of air in to 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.
- ¼" Roll over Vent – Allows free flow air in to and out of the tank at all times, this low volume vent will fully close if the tank is inverted or turn on its side.



1 – 2" Pressure / Vacuum Vent
2 – Roll Over Vent

Figure 2

ACCESS AND SECURITY

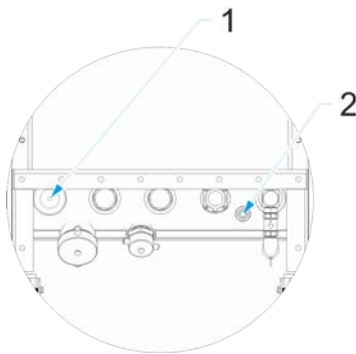
Access



SAFETY. Ingress to the inner tank must only be carried out by trained personnel only and after a full risk assessment has been carried out.

Access to the inner tank

- For maintenance, inspection and cleaning access can be made through the installed manway located on the top of the tank.



1 – Manway

2 – Cab lid

Figure 3

Access to the Cab Area

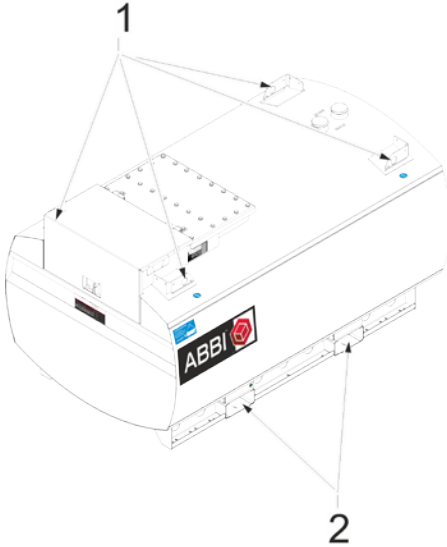
- The access lid is of a heavy-duty steel construction, care should be taken when opening or closing.
- The hatch should be kept closed when the ART is not being used to protect the fittings and banded area from the weather conditions. The addition of a security pad lock will deter opportunist thieves and unauthorised users.

Security

- The ART is fitted with a range of connections to enable the supply of Flammable & Combustible fluids. All the connections are housed behind the access lid, which can be locked using a suitable padlock.

UNIT SPECIFICATION

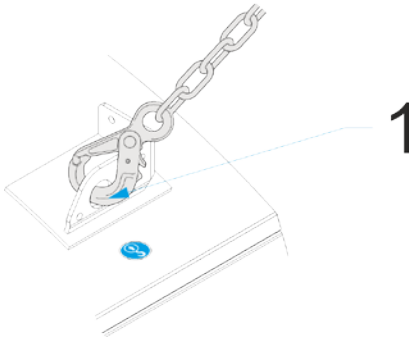
Lifting Points²



- 1 – Lifting Points
- 2 – Fork Tubes

Figure 4

1 – Lifting Point *LIFT HERE ONLY*



- 1 – Lifting Point
LIFT HERE ONLY

Figure 5

² See section LIFTING for more details

Capacities / Dimensions

Model	Nominal Capacity ³			Dimensions
	Litres	Gallons	US Gallon	
10ART-GLB	985	217	260	L1175xW1175xH1325
20ART-GLB	1940	427	512	L2318xW1164xH1324
27ART-GLB	2761	607	729	L2320xW1570xH1323

Figure 6

Model	Weights			
	Tare KG	MGW KG	TARE Lbs	MGW Lbs
10ART-GLB	470	1406	1036	3100
20ART-GLB	705	2548	1775	5617
27ART-GLB	880	3193	1941	7039

Figure 7

³ NOTE: Only fill tank to 95% of nominal capacity

CAB OVERVIEW (Standard Unit)

EU Version

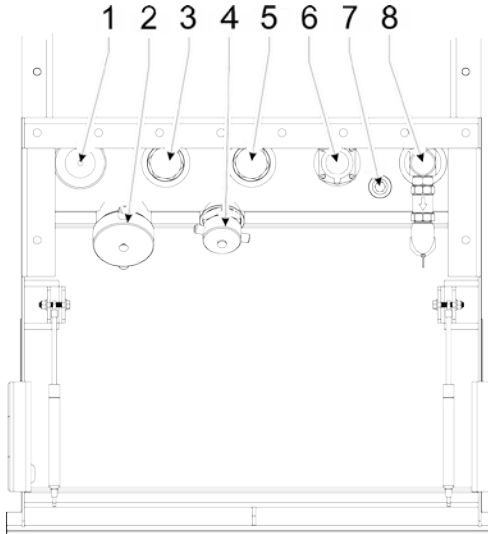


Figure 8

1. Pressure / Vacuum Vent
2. 3" Fill point
3. 1¼" Plug
4. 2" Fill Point
5. 1¼" Plug
6. Fuel Gauge
7. ¼" Vent
8. 1" Pump Feed

LIFTING

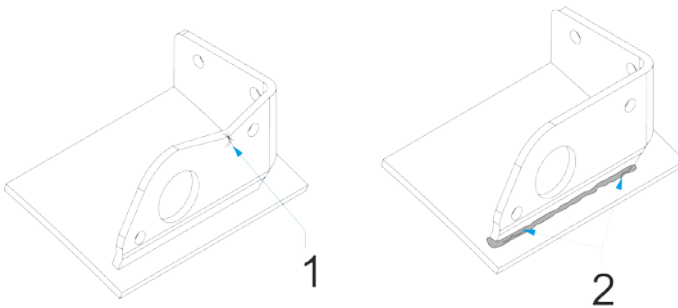
By Fork Lift / Tele-handler

- Each ART is fitted with fork lift locating tubes which are designed to allow the ART to be raised by a fork lift/tele-handler. The ART can be lifted from all 4 sides empty or full, this must be considered in your risk assessment.
- It is important that the total gross weight of the ART 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 ART's fork tubes. Make sure that they are equidistant from the centre.

Lifting Points

- The ART must ONLY be lifted via the dedicated crane lifting point/s found in each corner.
- ALL lifting points must be used during a lift.
- The lifting point/s MUST be inspected for condition and safe use. The inspection must be carried out by a competent person in accordance to LoLer regulations and a record kept.
- DO NOT lift from the base, with polyester slings.

Examples of defects

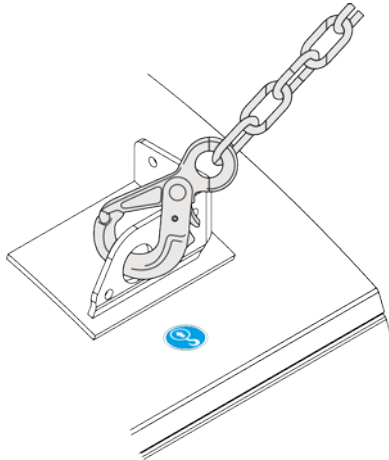


1 – Bent Plate

2 – Split or fractured weld

Crane and Chain Slings; Lifting Equipment

- You will require a lifting device (crane) and suitable four leg chain slings fitted with hooks and safety catches.
- Always check and obtain official confirmation from the chain sling supplier that it is both suitable in SWL and chain length.
- With the chain sling/s correctly attached to the lifting equipment, attach each hook to the lifting points. Once attached, ensure the gates fitted to all hooks are closed.
- Attach tag lines to the base of the unit to control rotation.
- Lifting - Lift the chains until taut and check that the hooks are correctly positioned with gate closed and that the chains are not twisted. If a fault is found, lower the chain and reattach correctly.
- Lift the unit until just off the ground and check that it is balanced and stable. Once you are satisfied that everything is correctly and safely set up, you can continue with the lift.



WARNING

Do not allow anyone under the raised load at any time or for any reason.

- Use suitable tag lines to help control the movement of the unit and always keep constant communication with the crane operator.
- Move slowly and smoothly to ensure full control of the unit's whereabouts.
- Lower the unit to its required resting place using great care.

Note: that most four leg chain slings' SWL are rated at 90 degrees and the SWL usually decreases, depending upon the angle the chain is used at

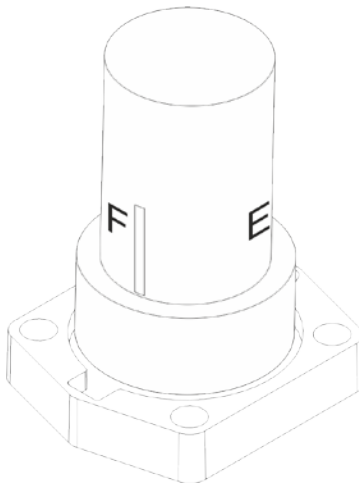
Positioning

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

- The position should be selected where it will be protected from accidental impact. You should also make sure that both supplying vehicles and receiving vehicles have safe and easy access to the ART.
- Consideration should be given to the location of overhead services such as telecommunications and 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 ART, 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.
- The tank installer shall consult with the authority having jurisdiction to ensure that requirements of CAN/ULC-S601 and all Federal, Provincial, and local Codes are being met prior to installation.

FILLING THE ART

- DO NOT FILL TANK WHEN DISPENSING IS IN OPERATION
- Only fill the ART to 95% of its nominal capacity.
- Filling should only be performed by a suitably trained person and only following a full risk assessment.
- The ART must be positioned on a firm level surface, whether static, truck or trailer mounted.
- Where truck or trailer mounted, ensure that the parking brake is set to ON and the wheels are chocked.
- Before filling, ensure that you have a suitable spillage kit and that you are wearing all required PPE.
- Nozzle Fill - Unlock and open the access lid. Unscrew and remove the 3in filler cap place the filling nozzle in the 3" port. Do not leave the nozzle unattended during the filling process.
- Hard Couple fill - Unlock and open the access lid. Unscrew and remove the 2in filler cap, connect the 2" delivery hose. Remove the 3" cap to allow venting. Do not leave unattended during the filling process
- Observe the fuel level gauge for an indication of tank capacity then once filled, replace the filler cap and clean up any fuel spillages.



BUND

The ART bund/containment area safeguards against any spillage exiting the unit and polluting the immediate area. The bund is designed to retain up to 110% of the unit's maximum storage capability.

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

WARNING

Waste may only be collected by a registered carrier.

SPILLAGES

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

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

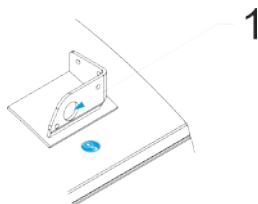
STATUTORY INSPECTION AND MAINTENANCE

It is a legal requirement that the owner of the ART carries out regular inspections and ensures that a record of each inspection is kept. Where fault is found, the unit MUST be removed from service until the fault is rectified and the unit is retested successfully.

NOTE: Repairs may only be carried out by an authorised and certified agent.

TRANSPORTING

- In transport ALL ports, valves and vents must be closed.
- Ensure pump is turned off.
- Close and lock the access lid.
- The ART must be secured firmly to its means of transport.
- Use tie down points shown below if the tank is not mounted to a trailer



1 – Tie Down Point

Figure 9

Loading

Each IBC incorporates baffle plates, these are situated in the inner tank. The baffle plates are designed to restrain and regulate the flow of a fluid and remove the risk of damage to the tank during transport.

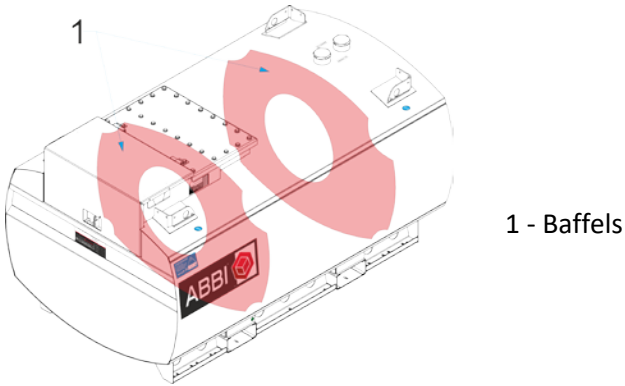


Figure 10

The baffle plates run the width of the unit and are only effective if the tank is loaded correctly on to the trailer, lorry etc. NOTE: always load the tank as shown below, cabinet runs in the direction of travel.

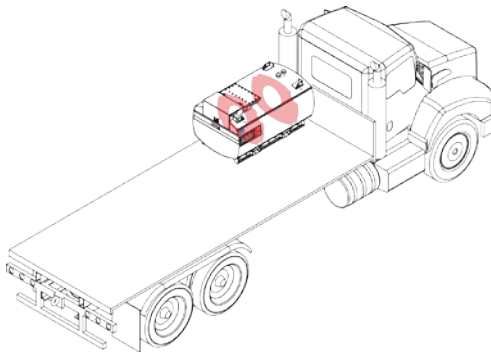


Figure 11

STORAGE

- The ART is not stackable
- Always mate the corner brackets together to stabilize the pile.
- Use only a hoist or forklift with the required lift capacity to raise, lower or stack the tanks.

MAINTENANCE AND SERVICE SCHEDULE

V = Visual inspection P = Physical Check L = Lubricate R = Replace C = Calibrate / Certify							
Item	Daily	Weekly	Monthly	6 Monthly	Yearly	Other	Reference / Comments
General							
Housekeeping		V		P			Check site and tank. Remove rubbish etc.
Firefighting media (if fitted)		V		P			V = Check in place and unused, P = Test pressure and function
Lighting		V					V = Check function
Doors			V		P		V = Visual inspection, P = Greases hinges
Signage			V				Check damage and wear
Tank							
Ball valves		P					P = Check operation
Vents, fittings and pipelines		V		P			V = Visual checks for leaks and damage, P = physical check, bolt tightness, paint deterioration
Interstitial space (Bund)		P					Check for water or product
Tank and pipework earthing				V	P		V = Visual check OK, P = Test continuity
Level gauges		V			P		V = Visual checks for leaks and damage, P = Remove and check operation

Every 2 ½ years⁴

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

Every 5 years⁵

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

NOTE: The 2 ½ and 5-year Inspection must be carried out by a competent person

⁴ When Applicable.

⁵ For North America - Periodic Testing is only to be carried out at DOT under 49CFR

For Canada - CAN/CGSB43.146-2016 approved and Registered testing facilities.

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 spillages and subsequently pollution of the environment.

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

If a large spillage occurs, contact your local agency for immediate advice.

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

Please refer to the documentation/instructions supplied with this unit for the correct information covering the pump system you have fitted to this ART

Direct Coupling

Direct coupling enables continuous fuel feed to equipment such as generators where power is required continuously. Western Global can supply ¼", ½" and ¾" feed and return hoses, complete with quick release couplings.

Please contact Western Global for further information.

DISPOSAL

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

Refer to local authority regulations for their correct disposal.

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 12 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 fair 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.

NOTES



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