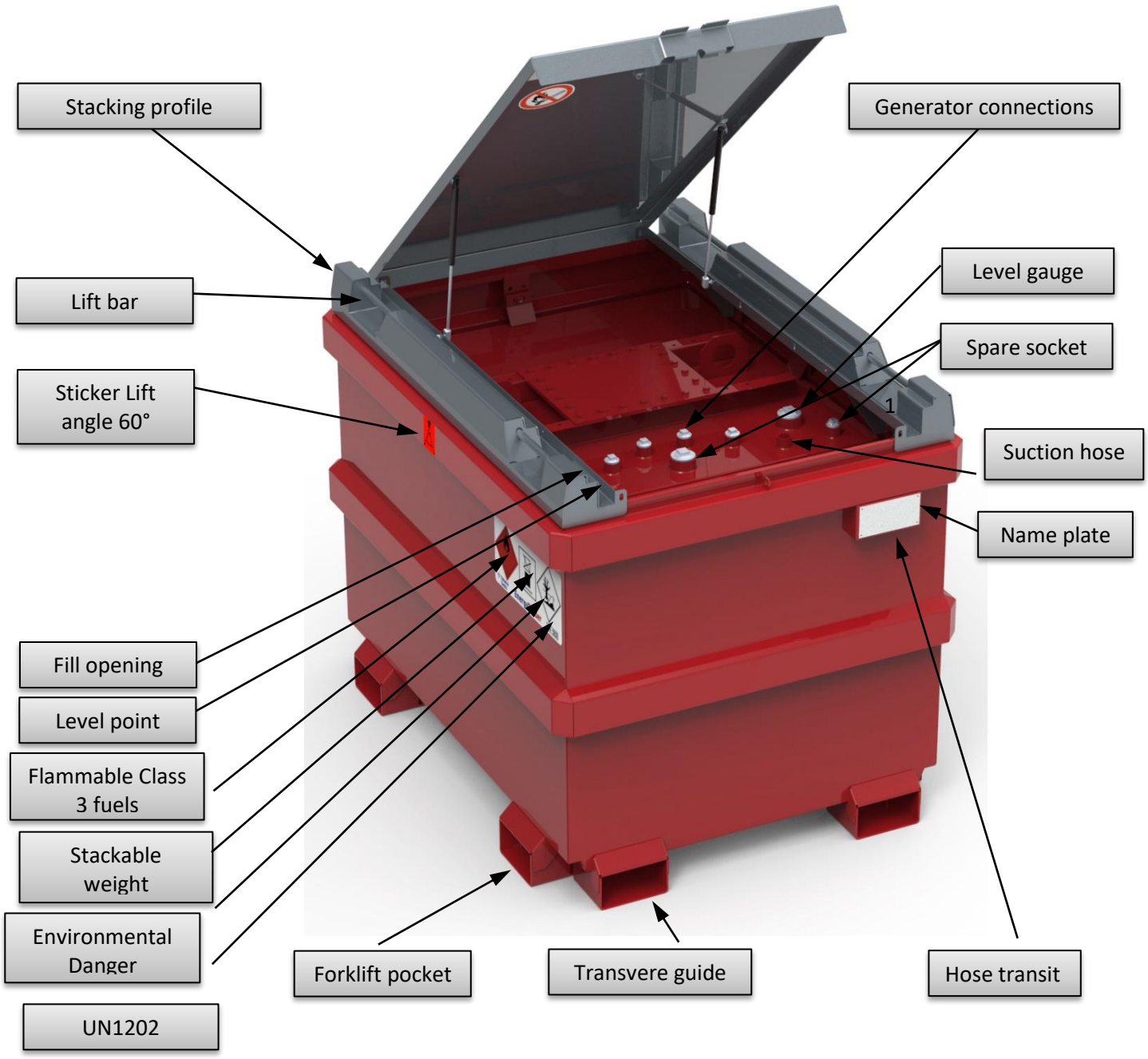
EnergyTender+

Tolsma Tanks

User Manual EnergyTender+



INTRODUCTION

General

This user manual belongs with the IBC you have purchased.
An Tender is a non stationary, mobile storage tank and is intended for above ground storage of non-pressurized fluids. This manual should be carefully kept. The purpose of the manual is to inform the user about the safe and the efficient use of the IBC.

Responsibilities

Tolsma Tankbouw BV is responsible for the quality of the Tender. The IBC meets the requirements of all applicable regulations. Installation, operation and decommissioning is the responsibility of the owner/user of the IBC.

Documentation set

A documentation set is delivered with every IBC. The set consists of following documents:

- User manual, to be kept near the IBC
- Certificates, to be kept in the office
- A log, to be kept near the IBC
- Additional user manuals, to be kept with the particular products

Log-in data are provided with every IBC, providing access to the Tolsma Digital Logbook.
Certificates, inspection reports and other relevant documents are stored in the Tolsma Digital Logbook.
Additional documents can easily be added. And the possibility is offered to receive timely notifications for upcoming inspections.
More information about the Tolsma Digital Log can be found on www.tolsmatanks.nl/tolsma-digitaal-logboek

IBC models

Standard IBC models

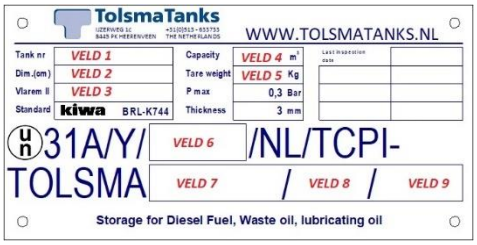
Content (liter)	Weight (kg)	Measurements (mm)	Pump area in (mm)
500	347	1205x1192x1054	300
700	395	1440x1192x1054	300
995	481	1560x1192x1260	300
1150	553	1736x1192x1260	300
1600	695	2276x1192x1260	300
2200	785	2306x1192x1510	300
3000	977	3086x1192x1510	300
3000 CompactLow	917	2306x1512x1510	300
3000 HiCube	917	2306x1192x1810	300

In addition to the above series, models are available with an extended pump room, generator compartment, integrated AdBlue tank and mobile frame.

More information on available models, specials, certification and applicable legal requirements and tests is shown on the Tolsma Tanks BV website www.tolsmatanks.nl.

Name plate, stickers and instructions

The IBC name plate is for product identification.



Maufacturer number	Field *1*
Content IBC in m^3	Field *4*
Empty weight in kg	Field *5*
Last Inspection dates	
Month and date produced	Field *6*
Type nr. Tolsma Tankbouw	Field *7*
Max. Stackable weight	Field *8*
Max. Gross weight	Field *9*

The IBC has been provided with warning labels to avoid dangerous situations.
These labels need to be visable at all times!


Lift angle Max 60°

UN 1202


Flammable Class 3 fuels


Environmental Danger


Smoking and open fire prohibited

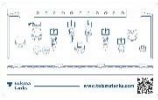
Max. Stackable weight


Transverse guide Front

Not stackable


Maximal Fill level 95%
Filling with nozzle

Combi sticker


Tender+ connections sticker

Legislation, testing and inspection

Legislation on this product is complex and subject to change.
For more information on the applicable legislation, you can contact Tolsma Tankbouw and/or use the information on the website www.tolsmatanks.nl .

Glossary

KIWA is an institute for inspection and certification and certifies other companies to inspect.
An assessment directive (BRL) is a inspection document.

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1 MANUFACTURER DATA

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2 SAFETY AND ENVIRONMENT

Before working with or on the IBC the operator has to read and understand the chapters of this manual that pertain to his work. Some chapters contain special security instructions.

2.1 General directions

Operating conditions negatively affecting the safe operation of the IBC should be avoided.
The IBC should not be put in use unless all conditions resulting from the provisions of Hazardous Substances Publication Series 30 (PGS 30, see website www.tolsmatanks.nl) have been complied with. It is important that liquid products are not released into the environment.

Testing (such as leakage checks) should be performed only under controlled conditions and in the presence of qualified personnel.

In case of a calamity, the user, in addition to the statutory authorities, shall notify the manufacturer immediately, so that an investigation into the causes and possible consequences for future use can be made.

2.2 Environment

In case of maintenance, repair or cleaning activity, environmentally harmful substances may be released. One should therefore take appropriate measures to prevent any waste from being released into the environment.

2.3 Safe moving, lifting and hoisting

Moving, lifting and hoisting can only be done in the prescribed manner and with the use of appropriate and by authorized institutions approved means such as hoists, pulleys, chains, slings and cables.

2.4 Welding

Welding to the IBC, unless done by a UN and ADR certified company, is not permitted.

2.5 Markings and stickers

Different markings and / or stickers are affixed to the IBCs. These shall remain visible at all times. If damaged or unrecognizable please contact Tolsma Tankbouw.
See Preface for identification of used stickers.

2.6 Fire extinguisher

When the IBC is in use a good functioning fire extinguisher shall at all times be within a reach of 10 meters. The fire extinguisher has to comply with PGS 30 requirements.

3 IN SERVICE

3.1 Use conform the intended purpose

An IBC is a non stationary, mobile storage tank and is intended for above ground storage of non-pressurized liquid petroleum (K3) with a flash point higher than or equal to 55 ° C.

Before using the IBC for a different purpose, first contact Tolsma Tankbouw.
Only Tolsma Tankbouw determines whether the unmodified IBC is suitable for the intended purpose or if the IBC should be modified or replaced.

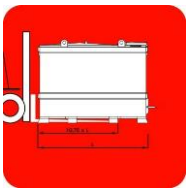
Warning ! Unprofessional use is not permitted.

3.2 First use

The IBC is delivered by Tolsma Tankbouw including user manual, logs and certificate. The IBC is not installed by Tolsma Tankbouw. The IBC should under no circumstances be modified, so welding, drilling, etc. is not allowed.

Warning ! The IBC must be placed horizontally on a surface providing sufficient support (IBC weight is indicated on the name plate).

3.3 Loading and unloading



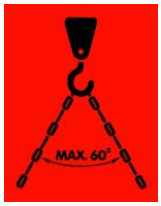
Some models are equipped with it a guide for forklift spoons. Moving an IBC with a forklift must only be done on flat terrain.

Tolsma Tankbouw may have supplied a special lifting tool. Before use check the manual supplied with lifting tool. In all other cases use all **four** lifting eyes to maintain tank stability when hoisting.

The weight to be lifted, as indicated on the name plate of the IBC, should not exceed the maximum allowable load of the lifting tool.

Always use appropriate and by authorized institutions approved means such as hoists, pulleys, chains, slings and cables.

Before using the lifting tool be assured that it is properly connected to the IBC. A minimal requirement is a visual inspection of all connections between lifting tool and IBC and of all bolted connections.



Warning ! Use all **four** lifting eyes or use lifting tool as supplied by Tolsma Tankbouw.

Warning! The top angle of the lifting chain shall be no more than 60 °.

Warning! Moving and lifting may be done on rough terrain. Excessive jolting and jerking should be avoided as much as possible. In case of intense jolting, lower the IBC to the ground and check all connections.

3.4 Filling the IBC

The following instructions are for filling the IBC.
Filling should be done conform PGS 30 (Dutch regulatory).

Warning ! The hazardous or irritating properties of the stored liquids must be known to the users of the IBC, because of the possible release of vapor or liquid when filling the IBC (repression loss) and because of leakage or possible accidents.

The hazardous or irritating properties may pertain to:

- corrosive liquids
- odors and vomiting inducing vapors
- toxic and carcinogenic liquids

Gauging and dipstick
Before starting to fill an IBC, a dipstick or fluid level indicator must be used to determine the liquid content of the tank.
To determine the content of the IBC a dipstick is put in a special gauge hole made for that purpose.
The gauge hole should be closed except when gauging.

Filling the IBC
The IBC must be filled with a nozzle that is equipped with an automatic shut-off mechanism.
The nozzle used to fill the IBC must not have a locking mechanism.
In case of pressurized filling, the IBC has to be fitted with a shut-off security or an overfill protection system. Maximal allowable overpressure is 0,3 bar.

Overfill protection
An IBC may be fitted with an electrically operated overfill protection. This protection ensures that when filling the IBC the supply is automatically shut off when the IBC is filled to a preset level.

Filling in open air
The tanker should be in open air when filling the IBC. Filling an IBC must be done without leaking or spilling fluids.
During filling, the gauge hole should be closed.
If during filling a leak is detected, filling should immediately be terminated.

Closure fill point
Immediately after the liquid is transferred to the IBC the fill opening or fill pipe has to be closed with a tight-fitting cap.

Maximum fill and overfill protection
The IBC fluid content may not exceed 95% of its total volume.

3.5 Refuelling with IBC

Pump arrangements
The IBC can be fitted with various pump sets. A set consists of a hand or an electric pump (12V, 24V or 220V) or a combination of these pumps, a filling hose and a nozzle with an automatic shut off and if necessary filter and tank connections. The suction pipe from the tank is equipped with an anti-siphon protection.

When filling first open the fuel supply valve, next switch on the pump and put the nozzle in the tank opening than turn on pump or operate hand pump. The nozzle is equipped with an automatic shut off, when activated the fuel is pumped. After refueling, take the nozzle out of the tank opening, shut off pump and put the hose back in its designated place.

Cleaning of the installation
Spillage or leakage of fluids should be avoided. Contaminated IBCs should be cleaned, see 3.6. The liquid that may be collected in the spill bin or in the spill container must be removed immediately because of risk of fire.

4 TRANSPORT, STORAGE, NOT IN SERVICE

4.1 Transport

The IBC can be transported in the usual way.
For transportation of filled and/or not cleaned IBCs the user must act conform the PGS 30 guideline and the legislation for transport of dangerous substances (ADR/VLG of WVGS).

4.2 Storage/not in service

To prevent corrosion, a unused IBC should be stored in a dry place (-40 ° C to 75 ° C at max 90% relative humidity).
The EnergyTender + is equipped with stacking profiles on which IBCs or other tools can be placed during storage / standstill.
The maximum stack weight, as stated on the type label, must never be exceeded!

5. MAINTENANCE

5.1 Life cycle

The IBC's made by Tolsma Tankbouw are of high quality and designed for long lasting and reliable use. Nevertheless, over years the IBC may no longer meet the process requirements or the requirements for safety and health. In that case a revision or modification should be considered.
However if the storage facility is no longer usable and beyond repair, the procedure described in Chapter 6 should be followed.

5.2 Repairs

Damage to either the IBC or to the spill container must immediately be repaired. After repairs KIWA must determine if the applicable standards are still met.
Welding to the IBC may only be done by certified welders who are qualified by the manufacturer.
Damage to the paint system can be restored with the paint supplied with the IBC.

Warning ! If an IBC requires major repairs or if it is reasonable to assume that the strength of the IBC has been affected, it must be reported to Tolsma Tankbouw, or to another certified institution, or the IBC must be repaired by either one of them.

Repairs to an IBC may only be done by Tolsma Tankbouw or by another qualified institution. Maintenance and repairs should always be done in compliance with this User Manual.
In case of repair and inspection take care that name plate, stickers and instructions remain intact.
Repairs should be recorded in the (digital) log.
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5.3 Maintenance schedule

The owner/user is responsible for preparing and implementing a complete maintenance schedule. The maintenance schedule can be combined with the testing and inspection schedules as shown in Chapter 7.
Both the preparation of a maintenance schedule as the actual maintenance, possibly in combination with testing and inspections can be done by Tolsma Tankbouw.

6. OUT OF SERVICE

When an IBC is taken out of service, the IBC must be emptied and cleaned according BRL-K 905 and be disposed or according to BRL-K 902 by a KIWA certified tank removal company.
(Dutch regulatory)

7. TESTING AND INSPECTION

The owner/user of the IBC must ensure that when the IBC is in use, periodic checks and inspections are done in accordance with applicable regulations.
The owner/user is responsible for preparing a complete testing and inspection schedule.

Legislation requires an extensive report on testing and inspection, as is shown in the log that is supplied with the IBC. The log is part of the documentation set of the IBC.
Tolsma Tankbouw has drawn up a complete testing and inspection schedule to be used during the entire lifecycle of the IBC, see Annex A.
The inspections done by the user can also be done (possibly also partially) by Tolsma Tankbouw after consultation.

Tolsma Tankbouw must take care of the log administration for tests and inspections done by Tolsma Tankbouw.
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8. COPYRIGHT

ANNEX A - TESTING AND INSPECTION SCHEDULE

When		Testing and inspection	KIWA VLG/ADR certified installer	User
A	1x per 2 months / After each movement	Visual inspection (PGS30 vs D.6.2) leakage / spillage of product, damage leak detection and functioning of the anti-siphon valve		**X**
B	2.5 annually PGS 30 inspection (external)	External inspection Criteria according to BRL-K744 TG2 (PGS30 vs D.6.1) Check for airtightness and damage	**X**	
C	2.5 annually ADR inspection (external)	External inspection Procedure according to TCPI guideline 02 (VLG / ADR, 6.5.4.4.1) Check for airtightness and damage	**X**	
D	5 annually ADR inspection	Internal inspection Procedure according to TCPI guideline 02 (VLG / ADR, 6.5.4.4.1) Check for airtightness and damage	**X**	
E	15 annually PGS30 inspection (internal)	Internal inspection Prcedure according BRL-K744 TG2 (PGS30 vs D.6.1)	**X**	
F	After major repair *	Inspection according BRL-K744 TG2 and ADR (PGS30 vs D.6.3 / ADR, 6.5.4.5.2)	**X**	

* repair can be carried out by Tolsma Tankbouw, see chapter 5

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