



Chemical Storage POD

(Enclosed IBC Bund)



Operation and Maintenance Manual



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Carbon
Neutral
Organisation

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Table of Contents

| | | |
|-----|--|----|
| 1 | Confidentiality and Copyright | 3 |
| 2 | Reference Documents | 3 |
| 3 | Introduction | 3 |
| 3.1 | Specification | 4 |
| 4 | General Health, Safety & Chemical Handling | 5 |
| 4.1 | General..... | 5 |
| 4.2 | IMPORTANT – IN THE EVENT OF A SPILL..... | 6 |
| 5 | Transport and Storage | 7 |
| 6 | Installation Instructions..... | 9 |
| 7 | Care & Maintenance | 9 |
| 7.1 | Daily Checks | 10 |

1 Confidentiality and Copyright

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Recipients must obtain written authority of the said company before wholly or partly duplicating the contents or disclosing it to others.

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2 Reference Documents

| Date | Revision | Description | Author |
|---------|------------|---------------------------------------|------------|
| 24/2/25 | Downloaded | Enclosed-IBC-Bund-Updated-06092023-HR | Polymaster |

3 Introduction

| | |
|---|--|
|  | <i>Read this manual before installing, operating or servicing this equipment</i> |
|---|--|

It is the user's responsibility to ensure before commencing any work or operating this equipment, the contents of this manual are read, clearly understood and fully complied with.

Chemical Storage POD is an Enclosed IBC Bund (ENIBCB) by Polymaster & prevents leakage of the liquid and provides a safe and modular solution for storing fluids.

The POD offers outdoor storage, at a safe distance from building and hazard zoned areas. High resistance against mechanical impact and protection against frost and heat due to the material and construction methods employed. Made to suit the Australian climate, the Enclosed IBC Bund has been made to a high standard ensuring optimum safety and functionality.

Outstanding features and benefits:

- Built tough using the highest quality materials
- Easy installation (plug and play)
- Fully self-bunded
- Ideal for industrial and commercial IBC storage and handling
- Portable
- Wide variety of applications

By following the installation requirements, this tank will give you many years of trouble-free service.

NOTE - PRODUCT IS PATENT PENDING by Polymaster.

3.1 Specification

Please refer to tech data sheet available on our website:

[Pods | Industrial Water & Wastewater Treatment | Aquatic Engineering](#)

4 General Health, Safety & Chemical Handling

4.1 General

- Do not operate the plant without the proper instructions given inside this manual. This manual contains important information concerning the safe installation and use of this product. Read the manual carefully before installation and use, paying attention to all safety warnings.
- Always read and understand fully the Safety Data Sheets (SDS) before handling any chemical products.
- Always wear the correct personal protective equipment/clothing when handling any chemicals. Refer to the SDS.



- Do not undertake any work without completing a risk assessment and preparing Safe Work Method Statements (SWMS).
- Do not ask maintenance staff to repair the plant when it is full of chemicals.
- **MAKE IT SAFE FIRST** by flushing out any chemical residues from the pumps and pipelines and isolating the equipment.
- When in doubt **ASK**. Consult this manual, a trained operator or Aquatic Engineering Australia Pty Limited. Users of this product are responsible for the safe and correct use of this product
- The liquids in the plant are quite conductive, electrical work in the presence of spilled liquids is **DANGEROUS**.

- Any changes to this product, which have been done without consulting the manufacturer, will invalidate all warranties and guarantees.
- The manufacturer & supplier will not be responsible for any accidents or damage caused by incorrect installation or use of this product.
- It is recommended that customers assess the suitability of chemicals being stored with the materials used in the construction of this product.
- The components must not be altered or tampered with due to potential risks to personnel.
- It is the responsibility of the end user / customer to ensure appropriate PPE, health and safety measures, safe work practices are employed in conjunction with the use of this product.
- If present, control boards are not suited for use in areas where there may be risk of explosion.
- End user must check hoses and fittings prior to use.
- Take care when using product in windy conditions, doors have large surface area and may be hard to control in windy conditions.

4.2 IMPORTANT – IN THE EVENT OF A SPILL

- If a spill occurs or is detected within the bund, isolate the unit if safe to do so, and notify the site manager (or persons responsible for site operations)
- If a spill occurs within the bund or cabinet, it is important that the unit is removed from use until such a time that a competent person, deems the unit to be fit for use again (this may include the inspection of standard componentry (and non-standard if present) to ensure no degradation of parts have occurred due to the event.)
- Users must note that whilst the product is designed to prevent the escape of contents in the event of a spill, any spill that occurs within the bund is still a serious event. And an appropriate SDS should be consulted before attempting to clean up the spill.

- Some materials used in the construction of this product may not be suitable for long term immersion in chemicals such as strong acids or alkalis. The cleanup of any spill must include the removal and neutralizing of any strong chemicals, to ensure part degradation does not occur.

5 Transport & Storage

- The dry weight of the unit is 320 kgs.
- LIFT & TRANSPORT EMPTY - DO NOT TRANSPORT WITH LIQUID INSIDE.
- LOAD FWD decal will indicate what direction PODs MUST be loaded on transport this ensures windage is less likely to force open doors during transport. Image 1

Image 1 -



- During transport and storage, the doors MUST be tightly closed and secured. E.g doors shrink wrapped or strapped closed (see image 1/2)

Image 2 -



- The Enclosed IBC Bund must be protected against mechanical damage during transport and storage.
- Loading and off-loading must be carried out using only professional equipment, such as crane or hiab utilize suitably rated lifting slings from the top 4 lift/tie points. Or forklift utilizing fork tyre pockets. Note - covers, sockets or other protruding elements, which are not designed for lifting or moving the station must not be used to lift or move the POD.
- The product must never be pushed or rolled.
- Loading and transport areas must be smooth and free of sharp edges. During transportation,
- The product must be secured to prevent the product from moving utilizing the 4 designated top lift/tie down points. (image 1 or 2)

6 Installation Instructions

These instructions should be read in their entirety before commencing installation of the Enclosed IBC Bund.

- A concrete/bitumen solid base is recommended for installation. If this is not possible the station should be installed directly on a level, secure and non-combustible base. Minimum 45mm in thickness and extending 300mm on all sides.
- Determine if POD needs to be secured in place in exposed conditions. Do not drill holes in the bund.
- Any penetrations into the housing and/ or cabinet for external plumbing or electrical connections Must be above the bund level (bottom of door opening) and be sealed weatherproof.
- Prior to installing inspect for damage, if damaged do not install.

7 Care & Maintenance

- Keep all equipment in good working condition.
- A daily check should be carried out on the visual condition of the bund, plumbing connections, devices, and power supply if present.
- During loading take care to position IBC centrally on stand to ensure even load distribution, lower the IBC into position
 - Do Not drag or slide across the load platform.
- IBC change process - close valve on IBC first, allow liquid to drain into hose before closing hose valve, open Camlock and secure hose with care to minimise loss of liquid – change IBC and reconnect.
- Any faults or alarms should be reported immediately.
- Protect against unauthorised access.
- Transport and store the unit so as not to damage the bund floor or walls.
- If any liquid is present in the bund, determine cause and rectify.
- In the event of a spill, the bund is to be emptied as soon as possible, cleaned, and dried using appropriate equipment, PPE and in accordance with the required legislation.

- Before recommissioning all fittings and fixtures in the bund area are to be cleaned and inspected for serviceability
 - replace as required

7.1 Daily Checks

Operator checks should be made at regular intervals during the day covering the following:

| Dosing & Bund |
|---|
| Visually inspect chemical containers for damage or leaks |
| Check chemical levels. Reorder as required, allowing for delivery time to site. |