

Enclosed IBC Bund

Installation, Operation &
Maintenance Manual



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Polymaster

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ABOUT THIS PRODUCT

The Polymaster Enclosed IBC Bund 2.0 is an all-weather containment and dosing system that transforms a standard 1,000L IBC into a professional, compliant dosing station. Constructed from high-grade, UV-resistant polyethylene, it protects chemical purity from rainwater ingress, reduces OH&S risk during IBC handling, and provides 110% secondary containment designed in line with AS3780 requirements for the storage and handling of corrosive substances.

Each system is configured to the customer's specific chemical and operational requirements – from a 250L day tank buffer and dosing cabinet through to a complete, PLC-integrated dosing system – with left-hand or right-hand door orientation and multi-unit site coordination available.

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

KEY FEATURES:

- Fully enclosed, rain-resistant design – butterfly doors with a proprietary lip design hold chemical spray in and keep water out
- 110% secondary containment bund capacity, designed to AS3780 requirements
- Double-door configuration reduces individual door weight, prevents misalignment, and minimises door swing area for tight sites
- Single-point drain – entire bund base drains to one point for easy washout and maintenance
- Built-in cross-ventilation on two sides to manage gas buildup
- Clear viewing panels for safe external level checks
- Lockable doors and dosing cabinet prevent tampering and unauthorised access
- Taller access opening fits the Polymaster CageBuster IBC Tote, while the whole unit still fits within a standard High Cube shipping container
- Fork channels for repositioning
- Optional 250L day tank buffer, dosing cabinet, and complete dosing systems, configurable to a wide range of chemicals

MATERIALS USED IN CONSTRUCTION:

PE – Polyethylene (bund, stand, doors), UV-stabilised for 20+ years of outdoor performance

PP – Polypropylene

PVC – Polyvinyl Chloride (pipework)

HDPE – High-density polyethylene, chemical-inert (foot plates, hinges, door handles)

Engineered using design methods including finite element analysis (FEA) to ensure structural integrity

Polyethylene components meet the material requirements of AS/NZS 4766:2006, rated for 1SG, 1.5SG and 2SG specific gravity fluids

AUSTRALIAN STANDARDS

Polymaster is certified to ISO 9001:2015 International Standards and undertakes regular audits from third-party auditors.

The Enclosed IBC Bund provides 110% secondary containment capacity, designed in line with AS3780 requirements for the storage and handling of corrosive substances.

Polyethylene tank components meet the material requirements of AS/NZS 4766:2006, for 1SG, 1.5SG and 2SG chemical specific gravities.

Every unit is labelled with full manufacturing details, including a serial number, for complete traceability.



PRODUCT CERTIFICATION



BSI Certified Product
AS/NZS 4766:2006 Lic:BMP No 657671
Australian/New Zealand Standards

GENERAL HEALTH & SAFETY

- Installation and use of this product should only be carried out by properly trained and approved personnel.
- Read this manual carefully before installation and use, paying attention to all safety warnings.
- Users of this product are responsible for the safe and correct use of this product.
- Any changes to this product made without consulting the manufacturer will invalidate all warranties and guarantees.
- The manufacturer will not be responsible for any accidents or damages caused by incorrect installation or use.
- Polymaster recommends 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 to ensure appropriate PPE, health and safety measures, and safe work practices are employed.
- 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.

TRANSPORT & STORAGE

Read these instructions in their entirety before commencing installation.

- **DO NOT TRANSPORT WITH LIQUID INSIDE.**
- 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, e.g. a forklift with extended forks. The 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 station.
- The product must never be pushed or rolled.
- During transport and storage, the doors must be tightly closed and secured.
- Loading and transport areas must be smooth and free of sharp edges. During transportation, the product must be secured to prevent movement.

INSTALLATION INSTRUCTIONS

- Read these instructions in their entirety before commencing installation.
- For all installation and maintenance, please take into consideration Health & Safety and Local Building Regulations.
- A concrete or 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 station 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.

CARE & MAINTENANCE

- Keep all equipment in good working condition.
- Carry out a daily visual check of the bund, plumbing connections, devices, and power supply if present.
- During loading, 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.
- Report any faults or alarms to the supplier 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.
- Before recommissioning, all fittings and fixtures in the bund area are to be cleaned and inspected for serviceability. Replace as required.
- Spare parts must comply with the requirements of the manufacturer and chemical being stored.
- If the station has not been used for an extended period, carry out a thorough inspection prior to use.
- When changing the type of liquid being stored, drain and flush the day tank, associated hoses, and all plumbing with an appropriate cleaning agent to minimise chance of chemical contamination and/or reaction.
- It is the end user's responsibility to determine whether a liquid is suitable for storage using this product.

SCHEDULED INSPECTIONS:

The unit is to be inspected every 6 months by a suitably qualified service engineer. Contact Polymaster to arrange your service.

IN THE EVENT OF A SPILL

Any spill within the bund is a serious event.

- 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).
- Remove the unit from use until a competent person deems it fit for use again. This may include inspection of standard and non-standard components to ensure no degradation has occurred.
- Consult the appropriate MSDS before attempting to clean up the spill.
- The bund is to be emptied as soon as possible, cleaned, and dried using appropriate equipment, PPE, and in accordance with required legislation.
- 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 neutralising of any strong chemicals to ensure part degradation does not occur.
- If degradation does occur, contact Polymaster for suitable replacement parts before putting the unit back into use.



WARRANTY

Polymaster products are guaranteed against material or manufacturing defect. Warranty periods commence from the date of invoice:

Item	Warranty
Polyethylene tanks/bund	12 months
Accessories/components	12 months
Hoses, nozzles, and sensors	3 months

WARRANTY CONDITIONS:

- Equipment is installed and commissioned in accordance with this manual.
- Equipment is installed and commissioned by a suitably qualified engineer.
- Equipment has not been subject to misuse, careless handling, faulty installation, or repairs by unauthorised personnel.
- Equipment has been purchased by the end user and is not for hire purposes.
- Immediately upon discovery of any defect, you contact the Guarantor and allow a representative to inspect before any attempts are made to move the unit.

WARRANTY EXCLUSIONS:

- Mechanical damage caused by the user, dealer, or improper maintenance.
- Faults, damage, or premature wear caused by improper use.
- Damage caused by third parties.
- Repairs carried out by unauthorised service personnel.
- Ancillary fittings such as contents measuring gauges or mechanical pumps (see respective manuals).

To make a warranty claim, you will need your serial number, proof of purchase, and a photo of the product clearly showing the issue. Submit a claim at polymaster.com.au/warranty.



Questions? Contact Polymaster

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