endura® XL Grease Trap

The Endura XL range of Hydromechanical Grease Traps are an innovative style of grease trap that uses flow control and air entrainment to reduce dwell time rather than relying on gravity as per the traditional method employed by gravity grease traps.

Features include:

- Dynamic inlet baffle – The unique dynamic inlet baffle forces the effluent down increasing velocity and creating micro air bubbles that collect FOGs
- Internal integrated flow control – Manages the incoming flow
- Factory installed outlet system – 3 x pre-plumbed outlets reduces installation times
- Wedge and corrugated body design – Prevents floatation and increases the structural integrity of the tank
- Riser options – 450 and 880mm riser options with moulded trim lines
- Balanced air environment – creates an efficient environment for FOG separation
- Load rated access covers – Pedestrian, trafficable and cast iron covers available

Material Specifications

Body:
- High Density Polyethylene

Pedestrian and Trafficable Lids:
- High Density Polyethylene

Heavy Duty Lid:
- Cast Iron

Gaskets and seals:
- Neoprene

Product Codes

CODE	DESCRIPTION
DGT75	Endura XL75 Grease Trap with Light Trafficable Lid
DGT75P	Endura XL75 Grease Trap with Pedestrian Lid
DGT75CI	Endura XL75 Grease Trap with Cast Iron Lid
DGT100	Endura XL100 Grease Trap with Light Trafficable Lid
DGT100P	Endura XL100 Grease Trap with Pedestrian Lid

CODE	DESCRIPTION
DGT100CI	Endura XL100 Grease Trap with Cast Iron Lid
DGTR450	Endura XL Grease Trap Riser – 450mm
DGTR880	Endura XL Grease Trap Riser – 880mm
DGTSWP	Endura XL Sampling Well – Pedestrian Lid
DGTSWT	Endura XL Sampling Well – Trafficable Lid

Product Intended Use

The Endura XL range of Hydromechanical Grease Traps are designed to intercept wastewater from commercial kitchens to prevent Fats, Oils and Grease, (FOGs) as well as food solids from entering the trade waste lines. This is achieved by actively forcing the FOGs to separate from the incoming effluent and settling the food waste scraps within the body of the trap.

Manufacturing Standards

The Endura XL range of Hydromechanical Grease Traps are manufactured in Canada and therefore have been developed to meet and fully comply with North American standards for Grease Traps:comply with North American standards for Grease Traps:

Standard PDI-G 101 – Testing and Rating Procedure for Hydromechanical Grease Interceptors

CSA B481

a. CSA B481.0, Material, design, and construction requirements for grease interceptors;

b. CSA B481.1, Testing and rating of grease interceptors using lard;

c. CSA B481.2, Testing and rating of grease interceptors using oil;

d. CSA B481.3, Sizing, selection, location, and installation of grease interceptors; and

e. CSA B481.4, Maintenance of grease interceptors.

ASME A112.14.3 – 2018 Hydromechanical Grease Interceptors

On Product Identifiers

Embossed product information on body and lids
Banner labels around lid positions

Relevant New Zealand Building Code Clauses

› NZBC G13 Foul Water
G13/AS2 3.4 Grease Traps

› NZBC B2 Durability
15 years for connections where ease of access is moderate but difficult to replace, (e.g. typical drainage system laid adjacent to a building foundation

Design

The Endura XL range of Hydromechanical Grease Traps have been designed to be installed above or below ground level and are a fully self-supporting structure. The wedge shape and corrugated body design creates a strong and durable body that can easily withstand the stress of being filled with 598 litres, (XL75) and 973 litres, (XL100) of water on a constant basis.

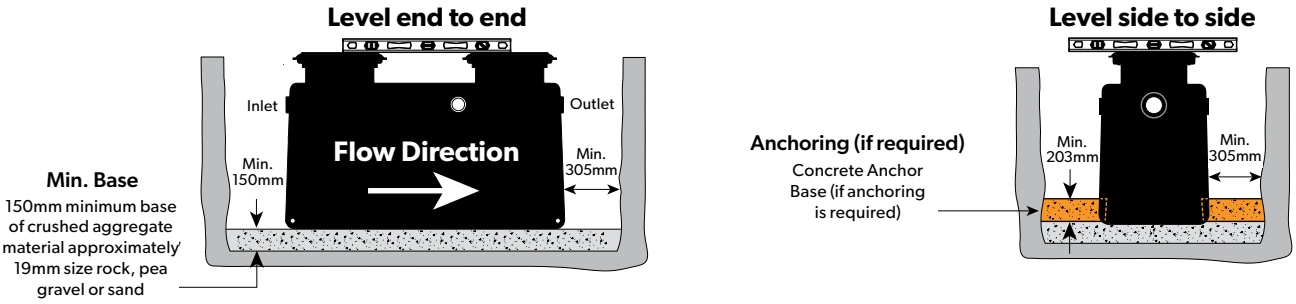
The wedge shaped design and closed corrugations prevent floatation and lock the units into the ground, for added protection where necessary there are four moulded tie down points at the base of both units where rebar can be inserted.

When designing a Trade Waste system for a hydromechanical grease trap, flow rate into the unit is the primary means of establishing the required size of the grease trap.

Installation

There are several considerations that need to be considered when installing an Endura XL hydromechanical Grease Trap to ensure that the unit functions correctly and can be maintained on a regular basis. Further it is important to know the type of traffic, pedestrian or vehicular, that may be in the immediate vicinity.

The units must be installed level, end to end and side to side:



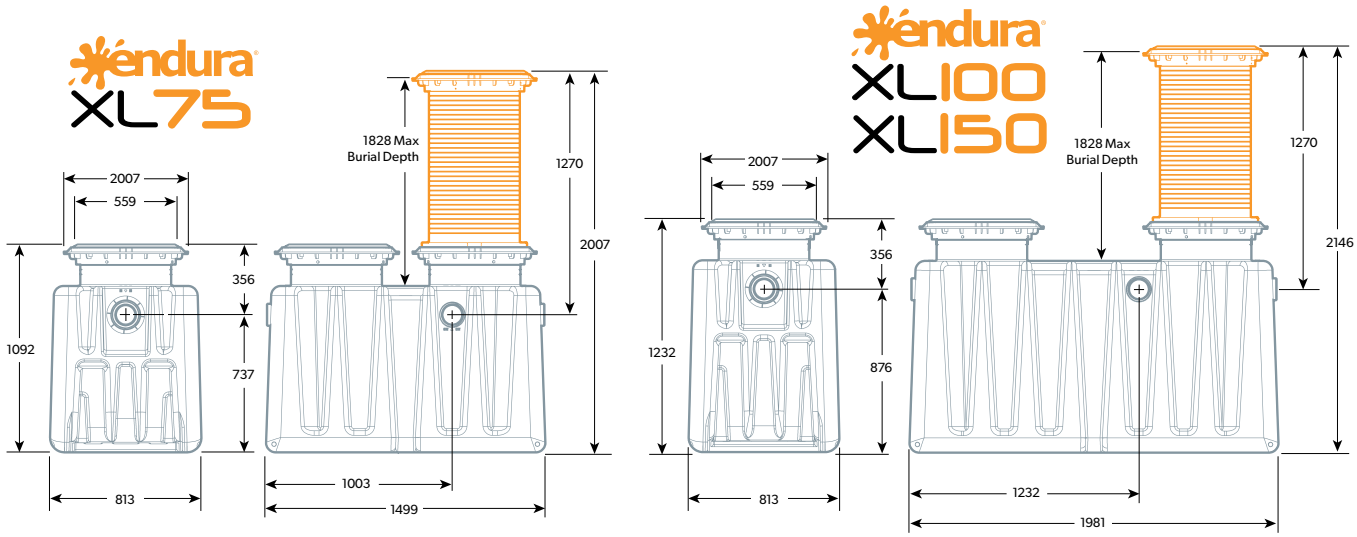
Connections to pipes must be made with a flexible coupling, the recommended Marley Coupling is a D156-44

Lids should be chosen based off the type of traffic that the lid is expected to see.

CODE	DESCRIPTION	LOAD RATING	PROFILE	COMMENT
DGTPLID	Pedestrian Lid	907kg	Flat	The lid is flat to allow pedestrians to cross without tripping
DGTTLID	Light Trafficable Lid	4, 536kg	Angle	Angled to flat to ease tyre shock
DGTCILID	Cast Iron Lid	7,257kg	Flat	Flat for areas where pedestrians and vehicles may cross

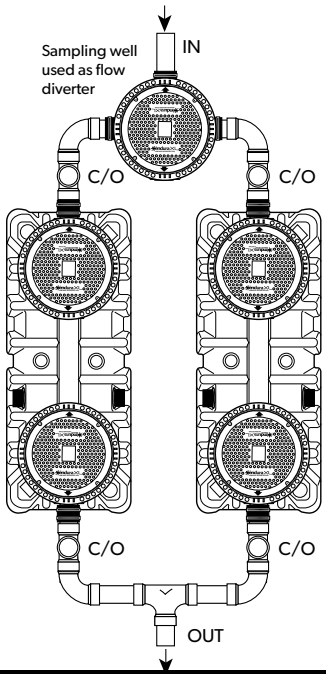
When Risers are needed to lower the installation depth, the internal Dynamic Inlet Baffle and the Air Balance Cap must be raised to allow ease of access when servicing. Riser extensions are supplied with an additional frame that interfaces directly with the tank, and the installation kit includes the additional pipe lengths required.

The following diagram shows the maximum depth that an Endura XL Hydromechanical Grease Trap should be installed:

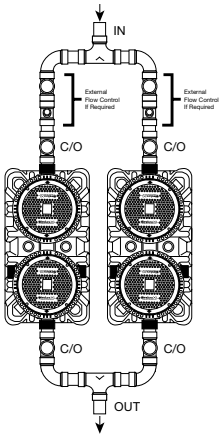


The maximum height above the top face of the body is 1,828mm. exceeding this limit may compromise the integrity of the body.

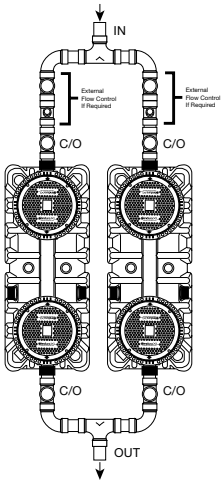
For extended capacity the Endura XL Hydromechanical Grease Trap can be installed as a multi-unit series or parallel installation. The Endura Sampling Well can be used as divertors to separate the flow in a multi-unit parallel installation, and accept the same risers as supplied for the Grease Traps.



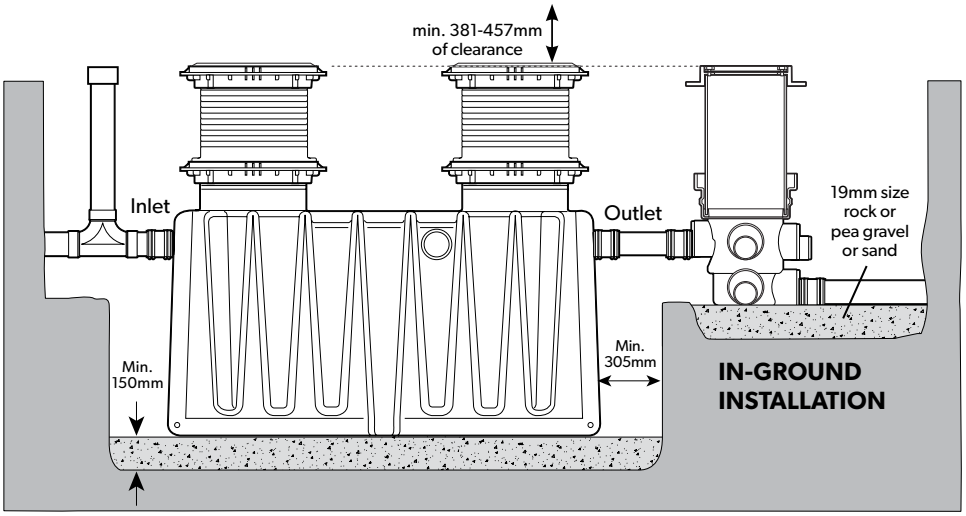
2 no. XL75 – PARALLEL
Up to 568 L/Min,
507kg Grease Capacity.



2 no. XL100 – PARALLEL
Up to 757 L/Min,
960kg Grease Capacity.



When installing Sampling Wells ensure the Well is supported correctly, as shown below.



Maintenance

SAFETY NOTE:

When opening the lids of the Grease Trap for servicing it is important to ensure the area is secured to prevent any persons from accidently falling into the unit.

Always remember to lock down the lids, (Cast Iron Lids due to their weight do not require lock down bolts) after cleaning has been completed and dispose of the collected effluent as per local council regulations.

Pumping and Cleaning – the complete removal of grease and water should be carried out at every service. This ensures all solids, grease and water are removed allowing visual inspection and removal of any residue.

Any residue attached to the inner surfaces of the Grease Trap including the Dynamic Inlet Baffle and pre-plumbed outlets should be cleaned. If a hot water source is nearby this will assist the removal efficiently, however cold water will suffice before making a final vacuum of the tank.

Access to the Dynamic Inlet Baffle and Internal Flow Control – the Dynamic Inlet Baffle is a unique element of the Endura XL Hydromechanical Grease Trap allowing access to the internal surfaces for maintenance and cleaning.

To open the baffle, take a firm grip on the handle and pull vertically upward, the handle will move approx. 150mm, in doing so the front shell of the baffle moves away from the fixed rear section providing access to the internal flow control and the inlet pipe. Any residue should be removed under low pressure.

To close the baffle, push the handle downward until the baffle reaches its full locked position.

Access to the Outlet Well – although essentially a closed area, the outlet well is able to be accessed by removal of the sampling/air balance cap. Once removed the vertical pipe can be visually inspected all the way to the bottom (with the unit pumped out). In the event that there is any residue build up this can be vacuumed or washed out.

NOTE: The tank must be re-filled to the static water level on completion of pumping. Grease Traps cannot function without water.

Remote Pump Out Option – An installation fitted with a remote pump out option offers convenience to the pump out contractor and the owner of the establishment, but also presents a risk.

Where installed and operated with a remote pump out facility, the grease trap should be physically opened and inspected at least every third service, or twice per year which ever is soonest. This is to ensure that the internal parts are in good working order and that there is no undue build up of residue or solids remaining in the tank once it has been emptied. This will also present the opportunity to inspect the inside of the Dynamic Inlet Baffle system, and clean/inspect the outlet well.

For full details on installation and servicing refer to the Technical and Installation Manuals.

Importer/Distributor

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- 0800 627 539
- info@marley.co.nz
- www.marley.co.nz
- NZBN: 9429038863431

Manufacturer

- **Canplas Industries Limited**
- 500 Veterans Drive, Barrie, Ontario, Canada L4M 4V3
- 1-0800-461-1771
- canplas@canplas.com
- www.canplas.com

Limitations on Use

The Endura XL Hydromechanical Grease Trap is used strictly for the collection and separation of FOGs as a result of trade waste from commercial kitchens and should not be used for vehicle servicing outlets.

The Gisborne District Council, (GDC) require strict enforcement of 1000 litre minimum for Grease Traps as the actual functional volume of the XL 100 is 973 litres it does not meet this criterion and should not be specified in the GDC area.

Warnings and/or Bans

- Grease Traps are hazardous environments and must never be left uncovered and unattended, even during maintenance.
- Do not pressure test, risk of serious injury

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