Installation guide

LIPUMAX GREASE SEPARATOR

<table>
<thead>
<tr>
<th>VERSION NO.</th>
<th>IMPLEMENTED BY</th>
<th>REVISION DATE</th>
<th>REASON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kate Jennings</td>
<td>17 July 2018</td>
<td>Combination of Lipumax-P and Lipumax-G</td>
</tr>
</tbody>
</table>
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1 GENERAL

The ACO Passavant Lipumax grease separator is designed for below ground installation only. Lipumax grease separators are designed to remove waste Fats, Oils and Grease (FOG) from commercial tradewaste from applications such as commercial kitchens and food processing factories. They are not anticipated for use in residential applications.

When discharging tradewaste into the public sewer system, local water authority requirements must be adhered to.

2 SAFETY CONSIDERATIONS

All work in installing and maintaining this grease separator shall comply with requirements of the relevant authorities.

2.1 Site handling

Inspect the Lipumax upon delivery and prior to installation, check for damage that may have occurred during transportation or at the job site prior to installation.

Grease separators can be extremely large. To avoid damage to the grease separator, ensure that correct equipment (e.g. forklift, crane or sling ropes) is available for proper unloading and manoeuvring on site. Use lifting provisions (shown below).

Note: 2000L and above separators may require a 3 tonne excavator to dig the required depth.

2.2 Workplace Health and Safety (WHS)

• All safety instruction labels must be replaced if they become detached or illegible
• Installed devices (e.g. baffles, inlets, outlets etc.) are not load bearing. They must not be used as steps, footholds or resting places for cleaning equipment etc.
• Grease separators should not be installed where a danger to health is possible from the grease separator leaking, blocking or surcharging
• Ensure the angle of excavation is suitable for the soil type.
3 SIZING

**Lipumax-P**

**Lipumax-G**

### Lipumax parts table

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Capacity (L)</th>
<th>Weight Empty (kg)</th>
<th>Inlet/Outlet</th>
<th>H</th>
<th>H1</th>
<th>H2</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>142094</td>
<td>Lipumax-P 720L</td>
<td>720</td>
<td>63</td>
<td>110</td>
<td>1349</td>
<td>1022</td>
<td>952</td>
<td>1320</td>
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<tr>
<td>142095</td>
<td>Lipumax-P 1000L</td>
<td>1465</td>
<td>93</td>
<td>110</td>
<td>2101</td>
<td>1774</td>
<td>1704</td>
<td>1320</td>
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<tr>
<td>142096</td>
<td>Lipumax-P 1500L</td>
<td>1675</td>
<td>108</td>
<td>160</td>
<td>2308</td>
<td>1956</td>
<td>1886</td>
<td>1320</td>
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<td>142098</td>
<td>Lipumax-P 2000L</td>
<td>2170</td>
<td>125</td>
<td>160</td>
<td>2790</td>
<td>2438</td>
<td>2368</td>
<td>1320</td>
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<tr>
<td>142960</td>
<td>Lipumax-G 3000L</td>
<td>3000</td>
<td>283</td>
<td>110</td>
<td>2192</td>
<td>1965</td>
<td>1295</td>
<td>2040</td>
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<tr>
<td>142961</td>
<td>Lipumax-G 4000L</td>
<td>4000</td>
<td>302</td>
<td>110</td>
<td>2529</td>
<td>1630</td>
<td>1560</td>
<td>2040</td>
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<tr>
<td>142962</td>
<td>Lipumax-G 5000L</td>
<td>5000</td>
<td>456</td>
<td>110</td>
<td>2479</td>
<td>1410</td>
<td>1340</td>
<td>2440</td>
</tr>
</tbody>
</table>

**Note:** All dimensions are in mm.

### Lipumax accessories table

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>142350</td>
<td>Riser tube</td>
<td>22.0</td>
</tr>
<tr>
<td>142105</td>
<td>Baffle cap to suit 110 Ø inlet/outlet</td>
<td>0.1</td>
</tr>
<tr>
<td>142106</td>
<td>Baffle cap to suit 160 Ø inlet/outlet</td>
<td>0.1</td>
</tr>
</tbody>
</table>
Each Lipumax separator requires a gas and water tight access cover (complaint to AS 3996) to close the system and offer access for maintenance purposes. A range of Class B and Class D covers are available.

**Cover assemblies table**

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Cover and collar</th>
<th>Cover, collar and riser tube</th>
<th>Cover, collar, riser tube and load distribution plate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Part No.</td>
<td>Weight (kg)</td>
<td>Part No.</td>
</tr>
<tr>
<td><strong>SAKU® Class B</strong></td>
<td>142296</td>
<td>149</td>
<td>142780</td>
</tr>
<tr>
<td><strong>Rhinocast® Class B</strong></td>
<td>142120</td>
<td>215</td>
<td>142781</td>
</tr>
<tr>
<td><strong>Rhinocast® Class D</strong></td>
<td>142099*</td>
<td>366</td>
<td>142782</td>
</tr>
</tbody>
</table>

*Note: *To suit engineered slab detail.
4 INSTALLATION

The Lipumax grease separator must be installed in compliance with local water authority regulations (see section 5), Safe Work Australia, national plumbing standards and all other codes of practice. Prior to installation, ensure that the local water authority approves each installation.

The cover assembly selection will determine the overall installation depth. When installed, the tops of the cover and collar assembly should be flush with the finished surface level.

4.1 Installation steps

1. Check all dimensions carefully before installation. Excavate to the required depth, allowing for the separator depth (as outlined in section 3) and an additional 100mm, and at least 300mm on either side. The width of excavation should be sufficient for the compactor to access.

2. Place stabilised bedding sand or concrete in the base of the hole and compact so it is level and free of rocks or other unsuitable materials.

3. Connect the required lifting apparatus to the grease separator. Lower the grease separator into the excavation and align the inlet, outlet and ventilation pipes to required positions. Place 200mm stabilised bedding sand or concrete around the separator and compact. The grease separator should be filled with water and backfilled with compacted sand and gravel or soil in 300mm sections. Ensure backfill is free of rocks, or other unsuitable materials.

4. Connect inlet, outlet, I.O/TWSP and vent pipes. Two vent connections are available to suit on-site requirements.

5. Install the cover and collar assembly selected.

* I.O – Inspection opening
* TWSP – Trade Waste Sampling Point
4.2 Connecting pipes

ACO Passavant can be used in conjunction with a number of different pipe materials. Connecting pipes and pipe materials should be installed in accordance with AS/NZS 3500 and local plumbing codes.

Note: Check manufacturers approvals for use in ground slab applications, prior to use. Couplings are not supplied by ACO.

**HDPE pipe**
- HDPE connector (left)
- Flexible coupling (middle)
- Flex seal shielded coupling (right)

**PVC pipe**
- Flexible coupling (left)
- Flex seal shielded coupling (middle)
- PVC slip coupling (right)
4.3 Installation drawings

Following are some typical installation details. For additional installation details and downloadable installation details, visit www.acopassavant.com.au.

Class B (AS 3996) with access cover and reinforced concrete collar

![Diagram of Class B (AS 3996) cover and reinforced concrete collar assembly]
Class D (AS 3996) with concrete collar, load distribution plate and riser tube

When the riser tube is used in conjunction with a load distribution plate, prior to installation the rebate must be cut to off the top of the riser tube (along the dotted line shown below) using the groove provided, as per the diagrams below.
Class D (AS 3996) with concrete collar to suit engineered slab detail
Class D (AS 3996) with concrete collar and riser tube to suit engineered slab detail

Prepare shaft by cutting it to the required height and fitting the sealing ring (supplied) and position the retaining ring one notch above to bring the riser to the desired height. To ensure water tightness, apply acid free grease to the seal and collar seating. Before installing the concrete collar and cover, ensure the riser tube has been backfilled.
5 WATER AUTHORITY APPROVALS

Please refer to www.acopassavant.com.au/approvals for a list of the approved ACO grease separator water authority approvals.

Some authorities have specific requirements for applications within their catchment. Below are some of these requirements, but contact the local authority for case-by-case advice.

**Water Corporation**
- Refer to drawing HX33-11-30 for precise construction requirements for Trade Waste Sampling Point (TWSP).
- Only camlock fittings are to be used for pump out line and no fixed suction is to be installed.
- For grease arrestor installation guidelines, refer to information sheet 23B.
- A baffle cap is required on the outlet baffle to prevent surcharge. Refer to section 3 for ordering information.
- A hose tap fitted with a backflow prevention device must be located within 5 metres of the grease separator for cleaning purposes (as per AS/NZS 3500).
- Adequate backflow prevention must be in place. Refer to Water Corporation Grease Arrestors Installation Guidelines (Information Sheet 23B).
- The grease separator model and size can be identified on the inside lip of the separator and an external label:

![](image1.jpg)

**Sydney Water**
- A certificate of compliance from a licensed plumber must be supplied when a grease separator is being installed.

**Gold Coast Water**
- A Gold Coast Water riser tube to be included with all below ground separators.
- For Class B applications, ensure part number 142136 is ordered.
- For Class D applications, ensure the GCW cover is ordered instead of regular cover. Use part number 142137.

**Icon Water**
- A baffle cap is required on the inlet and outlet baffle to prevent surcharge. Refer to section 3 for ordering information.
# CONTACT INFORMATION

For queries, servicing assistance and spare parts, contact ACO.

<table>
<thead>
<tr>
<th>ACO Pty Ltd</th>
</tr>
</thead>
<tbody>
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<td>134-140 Old Bathurst Road</td>
</tr>
<tr>
<td>Emu Plains</td>
</tr>
<tr>
<td>NSW 2750</td>
</tr>
<tr>
<td>Australia</td>
</tr>
<tr>
<td>e: <a href="mailto:sales@acoaus.com.au">sales@acoaus.com.au</a>   p: +61 2 4747 4000</td>
</tr>
</tbody>
</table>

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