

**Bypass Unit Shown (Full Retention Similar)**

- Alarm Configuration*
- Ⓐ High Level Alarm Sensor
  - Ⓑ Oil Level Sensor (Mandatory)
  - Ⓒ Silt Level Sensor

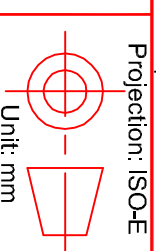
Contractors are advised to obtain a copy of the full installation recommendations from [www.aco.co.uk](http://www.aco.co.uk), or the ACO Design Services department at [technical@aco.co.uk](mailto:technical@aco.co.uk) or tel 01462 816666.

1. The customer should ensure that the requirements for their particular site conditions are met, taking Engineering advice where necessary. These recommendations assume that the unit is to be installed with a concrete backfill.
2. Lift using a forklift through the slots under the base or webbing slings fixed through the lifting holes on the sides of the unit. Do not lift the units using slings around the bypass channel. Take care that the units do not tip during handling. Do not drag, drop or roll the units. Store the units on firm level ground.
3. Excavate a hole to receive the unit, allowing for a minimum of 200mm thickness of concrete below and all around the unit and with sufficient working space for the connection of pipework, ducts and vents. Any unsuitable ground is to be removed and replaced. Engineering advice may be necessary. The excavation is to be kept free of water.
4. All concrete used in the installation is to be of minimum grade C16/20. Where necessary, a higher specification of concrete may be required. Engineering advice should be sought. Pour a minimum 200mm thickness of concrete onto the base of the excavation, and whilst the concrete is still wet carefully lower the separator unit onto the concrete. Check that the unit is fully supported by the concrete, is level and at the correct height. Check the orientation. Allow the concrete to harden.
5. Add 500mm depth of water to the inside of the unit. Carefully place additional concrete to the sides of the unit to a level between 400mm and 500mm above the base of the unit. Do not use vibrating poker. Check that the unit is still correctly positioned and level. Allow this concrete to harden.
6. Add water to fill the unit to the invert of the outlet pipe. Carefully place additional concrete to the sides of the unit to a level just below the outlet pipe level, ensuring there is sufficient room left for the installation of the pipework. Allow this concrete to harden.
7. Connect the inlet and outlet pipework, vent pipe and bypass access pipe. The bypass separators have four possible pipe diameter connections. Cut the connection spigot at the appropriate location - see full installation recommendations for further guidance. Using pipe diameters other than those stated in the brochure and guidance will reduce the efficiency of the separator.
8. If an extension shaft is required, cut the shaft to the correct length and fit the shaft to the top of the unit with sealant 8-10mm thick.
9. Install a duct (with drawstrings) for the electrical cabling to the alarm.
10. Place further concrete backfill to the unit, in pours of maximum 500mm height allowing the concrete to harden between pours.
11. Fit the cover and frame.
12. If a sampling pump is to be fitted, fix the top hose clamp near to the underside of the cover and attach the hose to the top hose clamp.
13. Fit the alarm(s). This work is to be carried out by a qualified electrician. The alarm probes are to be hung at the correct levels, as shown in the detailed installation instructions.
14. Ensure any debris is cleared from inside the unit. Top up the unit with clean water. Fit the float (only required in full retention separators) and the coalescing filter (only required in Class 1 separators). Ensure that the float has floated up off its seating, (and if necessary lift it off its seating so that it is floating).

B	01-04-10	REVISED BYPASS CONNECTION DETAIL	KS	JC
A	27-04-10	DRAWING ISSUED	AH	JC
Issue	Date	Description	Name	Checked

Scale:

**1:25 @ A3**



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Updated	01-04-2011	K Smith	J Croke		B
Date	Name	Checked by	Drawing No.		

Title: **ACO Q-CEPTOR INSTALLATION (SIZES NS3 -NS10 & NSB3 -NSB10)**