CS001103191MAN

EVOLUTION AQUA

INNOVATION IN WATER

cetussieve™

INSTALLATION AND OPERATING MANUAL



WARNING:

Ensure that any electrical devices connected to the Cetus Sieve are **switched off** at the mains before you attempt to conduct any type of maintenance

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READ AND FOLLOW ALL INSTRUCTIONS



- **WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- Take care when handling any metal parts as they may have sharp edges.
- Always isolate the unit from mains electricity and turn off any water supply before carrying out any maintenance.
- Always disconnect all pond appliances from the mains supply before putting your hands into the water.
- Young children should always be supervised near water.
- Dispose the product according to local waste recycling directives.

INTRODUCING THE CETUS SIEVE

The Cetus Sieve is a bow screen pre-filter, made using rotational molding technology. It is designed to efficiently and effectively remove large amounts of mechanical waste from a pond and can be installed on a gravity fed set-up or a pump fed set-up.

PLEASE NOTE: This Cetus Sieve has been supplied to you to be installed on either a gravity fed set-up or a pump fed set-up.

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OVERVIEW

The Cetus Sieve is a self-adjusting sieve which can be installed either gravity fed or pump fed. The Cetus Sieve enables your pond water to be filtered of large amounts of waste and debris before the water enters your current filter system. This process is commonly referred to as “pre-filtering”. *(See figure 2)*

The Cetus Sieve can also be used as a stand-alone unit to remove leaves and other floating debris from your pond via a surface skimmer.

The Cetus Sieve will efficiently and effectively remove large amounts of mechanical waste from your pond.

The Cetus Sieve is compatible with all filtration systems, however it is the perfect pre-filter for the Evolution Aqua Nexus filter range.

For gravity fed systems the Cetus Sieve has a weir which will automatically adjust to the flow rate of your pump. (Max flow rate 18,000 litres/hr or 4,755 US Gallons/hr)

When the Cetus Sieve is used in front of any other biological/mechanical filter the period in between cleaning will be extended. The biological process is improved by the removal of organic matter which would consume oxygen and leach ammonia and other compounds into the water.

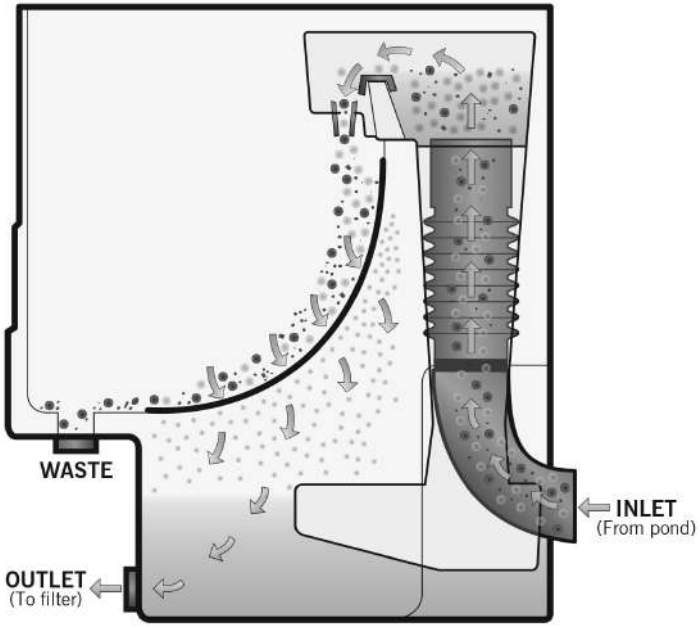


Figure 2.

SPECIFICATIONS

CETUS SIEVE	PUMP FED SET UP	GRAVITY FED SET UP
Max Flow	18,000 litres per hour 4,755 US Gallons per hour	18,000 litres per hour 4,755 US Gallons per hour
Inlet Connection	4" on Cetus with additional 4" - 1½" eazy connector*	4" (110mm) eazy connector
Outlet Connection	3" (90mm) on Cetus factory fitted with 4" eazy connector	3" (90mm) on Cetus with additional 4" - 1½" eazy connector*
Waste Outlet	3" (90mm) eazy connector	3" (90mm) eazy connector
Height	945 mm (37")	945 mm (37")
Length	850 mm (33.5")	850 mm (33.5")
Width	570 mm (22.4")	570 mm (22.4")
Screen Size	300 micron	300 micron

* Use a 4" to 2" eazy connector (FE113-059), available separately, if 2" pipe is required for the installation.

DIMENSIONS

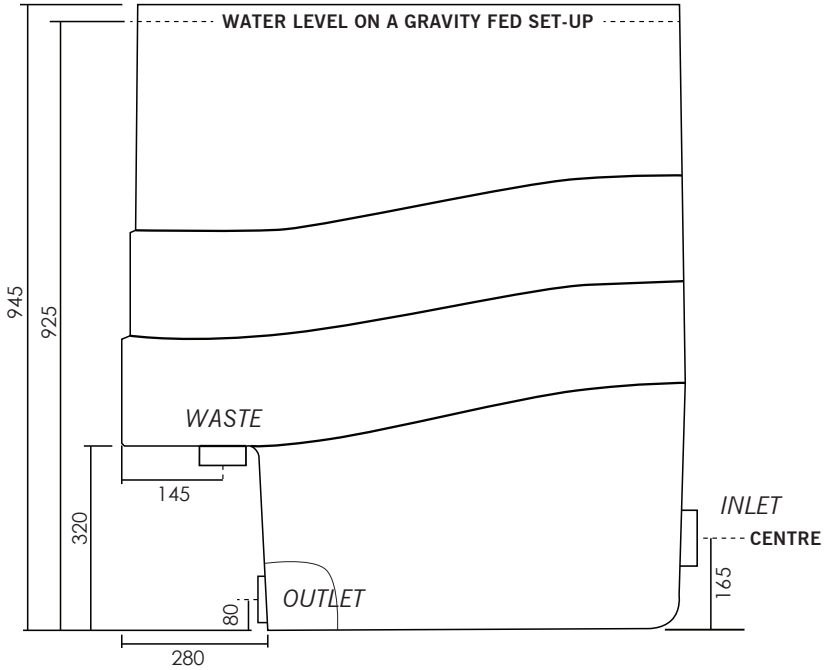


Figure 3a. Cetus Sieve Dimensions (Side View)

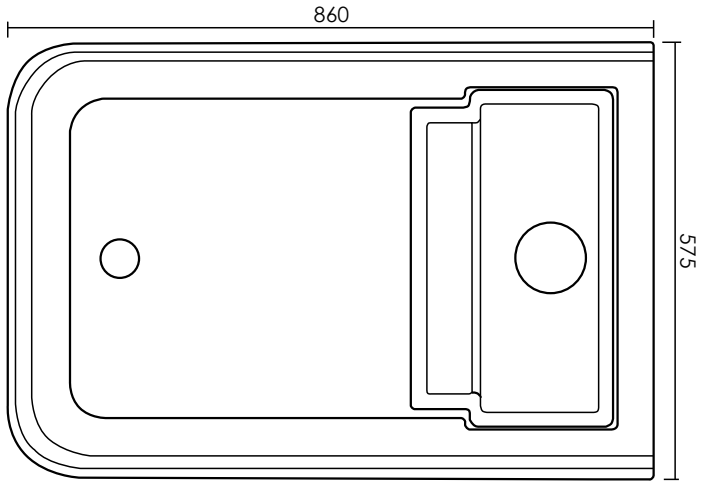


Figure 3b. Cetus Sieve Dimensions (Overhead View)

COMPONENTS

The Cetus Sieve is supplied with eazy connectors fitted to the inlet and outlet for an easier initial set-up:



Outlet fitted with 4” straight eazy connector.



Inlet fitted with 4” 90° elbow eazy connector.

Also supplied (to be fitted by user):



3” WASTE CONNECTOR
3” 90° elbow eazy connector.
EA CODE: FE85L



4” to 1½” REDUCING ASSEMBLY
4” to 1½” reducer eazy connector fitted with 4” pipe.
EA CODE: FE111-049 (eazy connector only)



300 MICRON SCREEN
EA CODE: CETUSSCREEN300

INITIAL SET-UP

FIT WASTE CONNECTION

Fit the 3” 90° eazy connector to the waste outlet of the Cetus Sieve.

Tighten the jubilee clip with a nut runner.



Figure 4a

INSTALL SCREEN

Install the 300 micron screen inside the Cetus Sieve.

Take care as some edges on the metal may be sharp.



Figure 4b

INSTALLATION ADVICE

The Cetus Sieve needs to be installed on a solid level base so that it doesn't deflect under its own weight. It is recommended to use a 100mm (4") thick concrete plinth, although decking or paving slabs can be used.

During installation a spirit level should be used across the metal plate on the weir to make sure the Cetus Sieve is level as shown in Figure 5. This will ensure that the water flows evenly across the screen.



Figure 5.

Pipe Sizes

Pipe diameter determines the pressure loss within the pipe, so for flows where gravity is the driving force, large bore pipe (4" / 110mm) needs to be used. Therefore in a gravity fed system, the inlet (the line from the bottom drain or skimmer) needs to be 4" (110mm) and also in a pump fed system the return line from the Cetus Sieve to your pond or filter needs to be 4" (110mm). When flows are under 10,000 litres per hour it is possible to use 3" (90mm) pipe instead.

Circulating Pump Installation

When installing your pump on a gravity fed system, the pump must be installed lower than the level of the outlet to prevent airlocks within the pump.

Also if there is any chance of back siphoning, a one way valve must be installed after the pump to prevent the Cetus filling with water.

PLEASE NOTE: For any maintenance needed underneath the screen, you may need to cut off the plastic fastening clip that is holding the screen in place for transport. This clip can be seen at the bottom of the screen near to the outlet. Simply use a small pair of cutters to snip this off.

PUMP FED INSTALLATION

To set up the Cetus Sieve so it is ready for a Pump Fed installation you will need to fit the 4" to 1½" eazy connector and pipe assembly to the inlet. Use a nut runner to tighten up the jubilee clips to ensure a tight fit.



Figure 6a



Figure 6b

The pump fed Cetus will look like this:



Figure 6c



Figure 6d

The **inlet** on pump-fed is now reduced from **4"** to take **1½" pipe.**

The **outlet** on pump-fed is ready to take **4" pipe** as factory fitted.

The **waste** connection is ready to connect to **3" pipe**

Cetus Sieve INSTALLATION ADVICE

For optimum results we recommend installing the Cetus Sieve in line before a Nexus 210, 220 or 310, 320 filtration system. The diagrams below show these types of set up.

CETUS SIEVE AND NEXUS FILTRATION SYSTEM
ON A GRAVITY-FED SET-UP

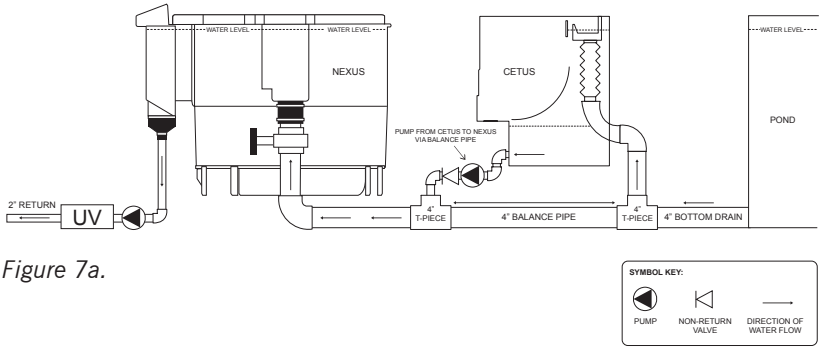


Figure 7a.

CETUS SIEVE AND NEXUS FILTRATION SYSTEM
ON A PUMP-FED SET-UP

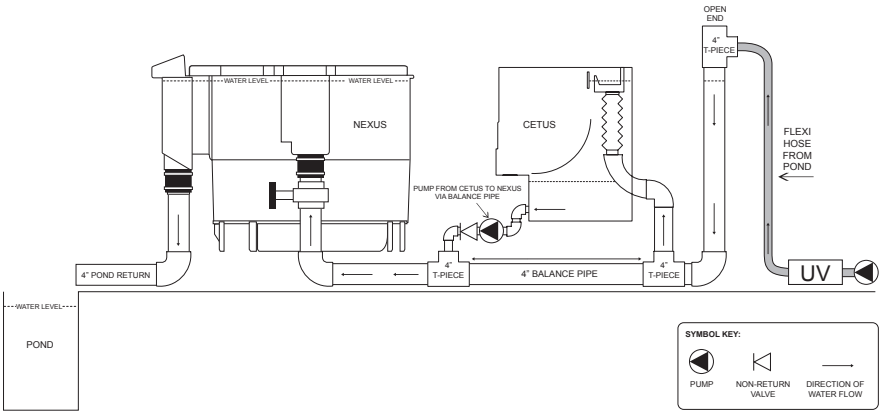


Figure 7b.

PUMP FED INSTALLATION

The Cetus Sieve when installed as a pump fed unit, needs to be set up as shown on page 9. This will enable a 1½" (50mm) hard pipe or hosetail for flexible pipe to be fitted, connecting your pump to the Cetus Sieve. When pump fed, the Cetus Sieve needs to be installed above water level as shown in figure 8a below.

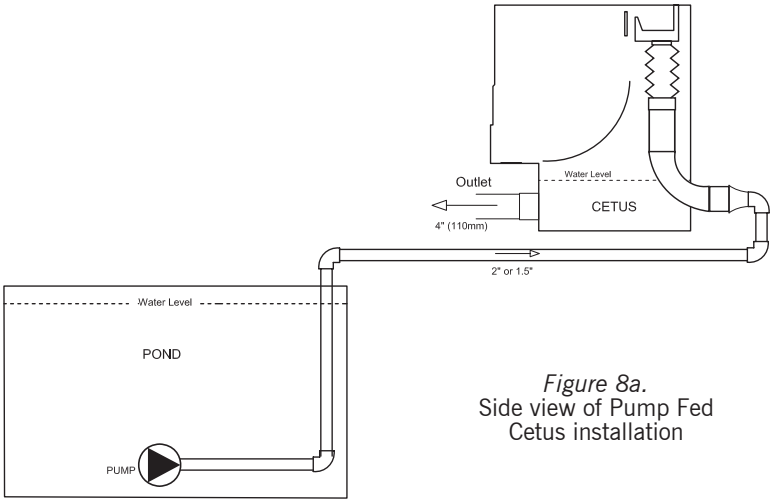


Figure 8a.
Side view of Pump Fed
Cetus installation

Figure 8a shows the standard way of installing a pump fed Cetus Sieve. While figure 8b shows the way of installing a pump fed Cetus Sieve on a skimmer line.

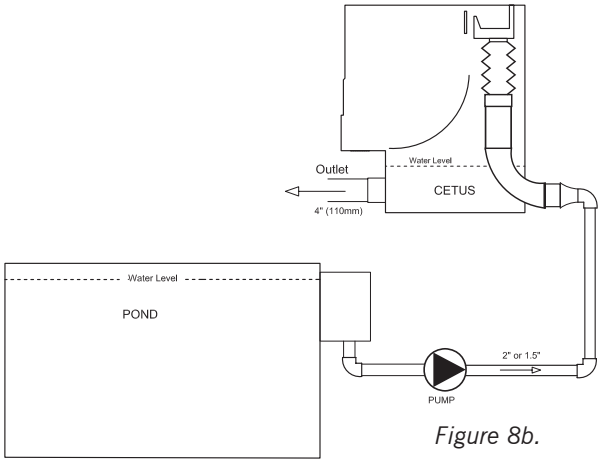


Figure 8b.

GRAVITY FED INSTALLATION

To set up the Cetus Sieve so it is ready for a Gravity Fed installation you will need to fit the 4" to 1½" eazy connector and pipe assembly to the outlet. Use a nut runner to tighten up the jubilee clips to ensure a tight fit.

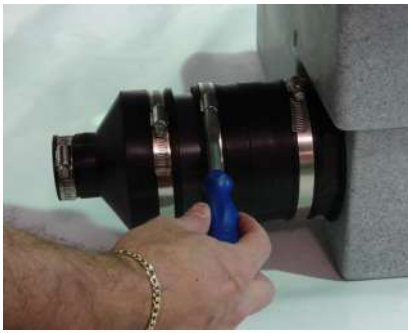


Figure 9a



Figure 9b

The gravity fed Cetus will look like this:



Figure 9c



Figure 9d

The **inlet** on gravity-fed is factory supplied to take **4" pipe**

The **outlet** on gravity-fed is now ready to connect to **1½" pipe**

The **waste** connection is ready to connect to **3" pipe**

GRAVITY FED INSTALLATION

PLEASE NOTE: When installing your pump on a gravity fed system, the pump must be installed lower than the level of the outlet to prevent airlocks within the pump. Also if there is any chance of back siphoning, a one way valve must be installed after the pump to prevent the Cetus Sieve filling with water.

With gravity fed installations, the Cetus Sieve needs to be installed so that the maximum water level in the Cetus Sieve is the same height as the maximum water level in the pond. To do this, the top of the Cetus Sieve needs to be installed 20mm above the pond water level as shown in figure 10a below.

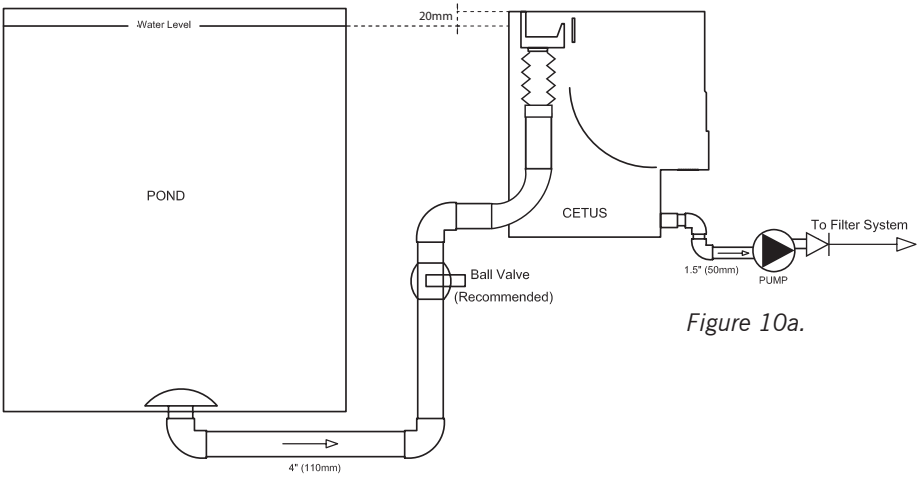


Figure 10a.

Figure 10a shows the standard way of installing a gravity fed Cetus Sieve.
Figure 10b shows a gravity fed installation on a skimmer line.

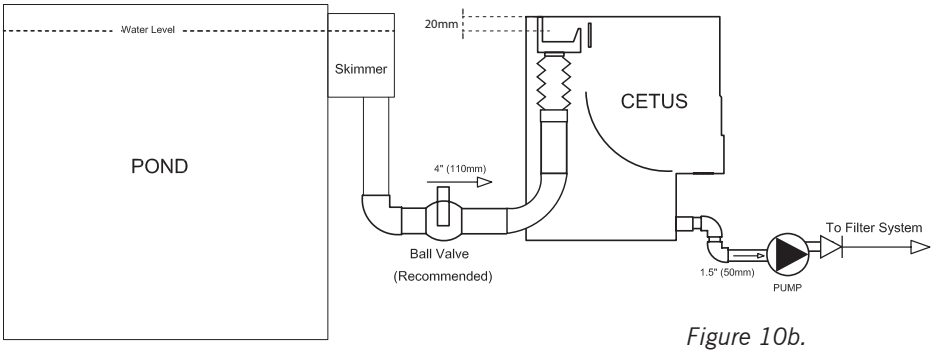


Figure 10b.

DUAL GRAVITY FED INSTALLATION

Figure 11 below shows how this system can be installed with a balance pipe to allow the flow difference in pumps to equalize.

The 4" (110mm) pipe between the Cetus Sieve and the filter will allow water to pass in the direction of the higher demanding unit (it is recommended that the pump from the Cetus Sieve has a higher flow rate than the pump from the filter.)

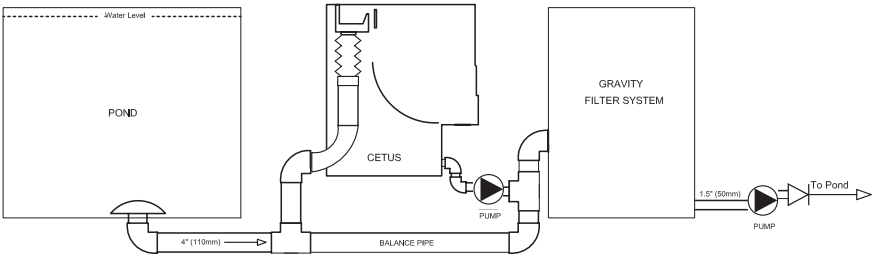


Figure 11.

1) Water leaves the pond via a 4" bottom drain and travels to the first T-piece
2) Water then travels to the Cetus Sieve
3) Water is pumped from the Cetus Sieve to the filter
4) Water is pumped from the filter back to the pond
5) Excess water flows through the balance pipe back to the Cetus Sieve

There are huge benefits to be gained by utilising this new evolution in pond filtration. Running these units in this configuration maximises the interval between cleans. Either unit can be switched off to carry out maintenance without affecting the other.

Both the Cetus Sieve and the filter can run independently of the other unit.

OUR GUARANTEE

This product comes with a 2 year warranty, which is valid from date of purchase. Proof of purchase will be required. Any unauthorised repairs, modifications or alterations to this unit will invalidate the warranty.

1. Your Cetus sieve is covered by your warranty for 2 years from the date of purchase provided that:
   a. It is installed, operated and regularly maintained in accordance with the instruction manual.
   b. Any warranty repairs to the Cetus must be undertaken by Evolution Aqua Ltd or its authorised representatives.

2. Though the warranty period may not have expired, payment for repairs must be made in the following cases:
   a. When the fault is due to misuse or unauthorised repairs have been attempted.
   b. When the fault is due to cold weather, fire, natural disaster, act of God etc.
   c. If the warranty has been lost, incorrectly completed or details fraudulently changed.

Evolution Aqua Ltd. accepts no responsibility or liability for any consequential loss caused by or arising from the use of any Evolution Aqua products. Therefore, any dispute arising from the provisions of the warranty will be dealt with under the laws of England and Wales subject to the exclusive jurisdiction of the English Courts.

Evolution Aqua reserve the right to change this product specification without prior notice.

cetussieve

QUALITY ASSURANCE CHECK

EVOLUTION AQUA
INNOVATION IN WATER

Moulded By: _____

Inlet has been properly trimmed (no plastic edges)	
Waste outlet has been properly trimmed	
Weir inlet has been properly trimmed	
Tank connector is tightened	
All edges have been trimmed	
No plastic has been left inside unit (debris from hole saw)	
All 3 stainless plates are firmly attached	
Check that screws do not have sharp edges	
Check weir moves freely	
Check that bellow is firmly attached top and bottom	
Check screws have been fitted for the Cetus brackets	
Check plastic inlet and waste pipes are installed	

Checked By: _____ **Date:** _____

DESCRIPTION	CHECKED
Cetus Screen and handle	
4” to 4” 90 Elbow	
3” to 3” 90 Elbow	
3” Tank Connector	
4” Pipe Length	
4” to 1½” Reducing Boot	
4” Boot	

Checked By: _____ **Date:** _____