

# nexus<sup>TM</sup>

200 / 300 Overflow / By-Pass Kits

Installation and instruction manual for:

## Nexus Overflow / Universal By-Pass Kits

(Adds an Overflow / By-Pass to  
Nexus Eazy 200 and 300 Models)



Or Nexus models fitted  
with an "The Answer"



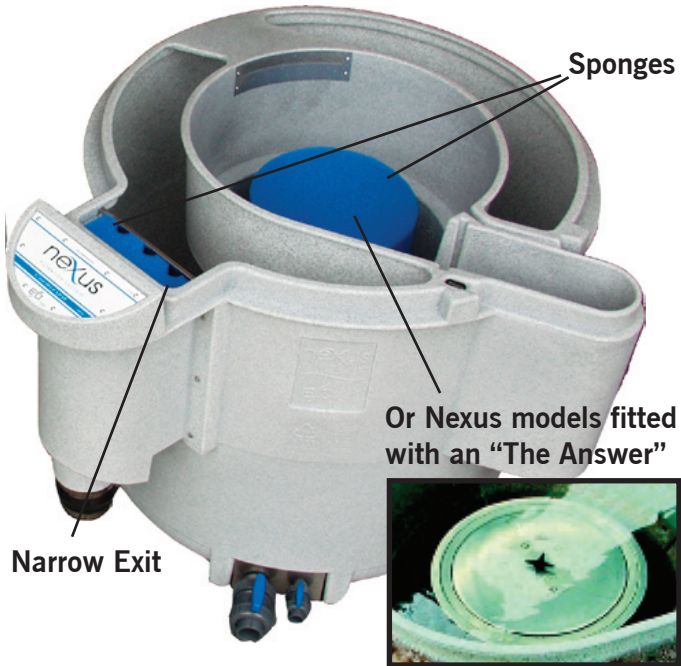
**Nexus 200 / 300**  
Manufactured before 2006



**Nexus 200 / 300**  
Manufactured between 2006 and 2009  
With a Pre-2009 Eazy Filter

## Which type of Nexus do you have?

**Nexus 200 / 300 Manufactured before 2006**



**Nexus 200 / 300**  
Manufactured before 2006  
Without an Eazy Filter

If you have this type of Nexus filter you are able to upgrade the inner chamber to allow you to install the Eazy filter.

You will need:

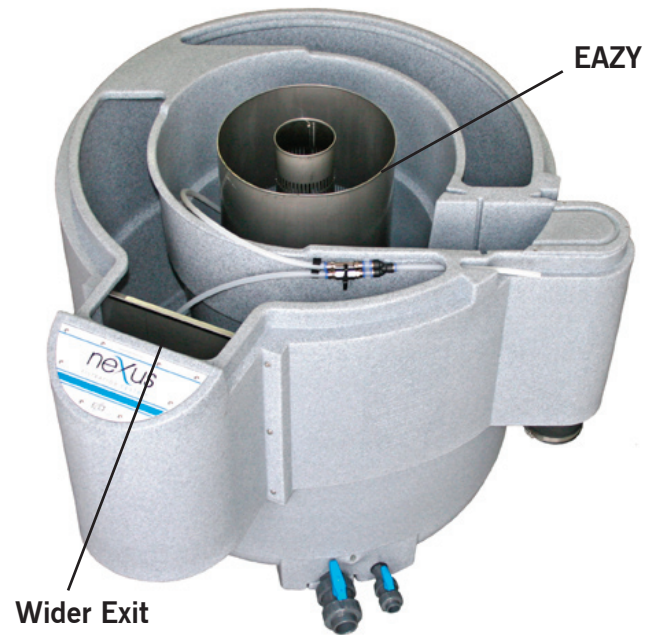
**Type 1 - Nexus Upgrade Kit (Eazy Retro Kit)**

Additionally, you can install an overflow / by-pass kit on this model of Nexus 200 or 300.

For this you will need:

**Type 1 - Nexus Overflow / Universal By-Pass Kit**

**Nexus 200 / 300 Manufactured 2006 to 2009**



**Nexus 200 / 300**  
Manufactured between 2006 and 2009  
With a Pre-2009 Eazy Filter

If you have this type of Nexus filters you are able to upgrade the Eazy Filter to a Post 2009 Eazy filter as used in the Nexus 210 or 310.

To do this you will need:

**Type 2 - Nexus Eazy Upgrade Kit**

Additionally, you can install an overflow / by-pass kit on this model of Nexus to give you all the benefits of a Nexus 210 and Nexus 310.

To do this you need:

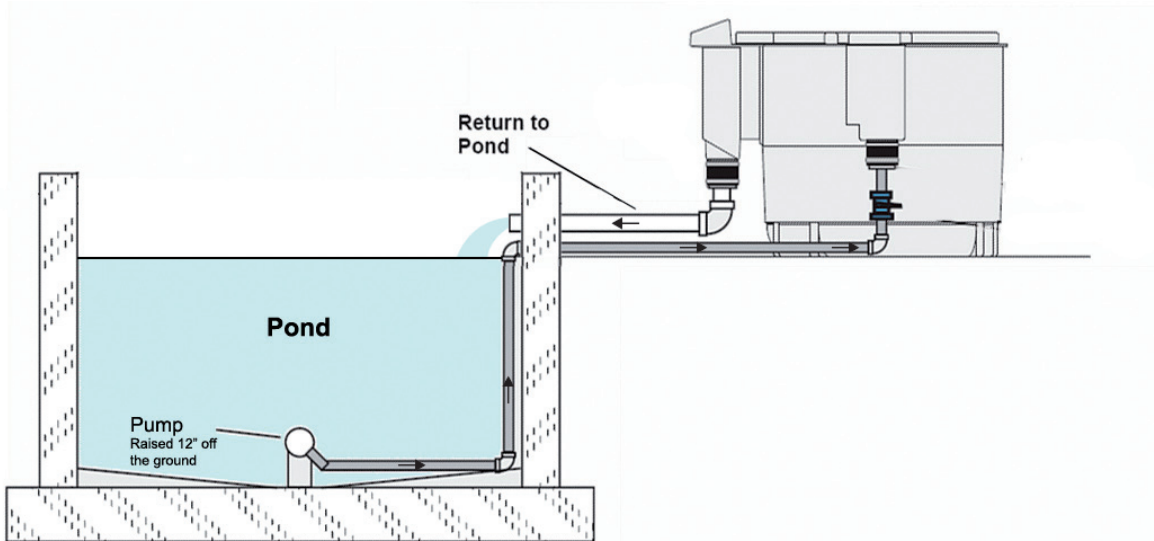
**Type 2 - Nexus Overflow / Universal By-Pass Kit**

NEXUS UPGRADE KITS

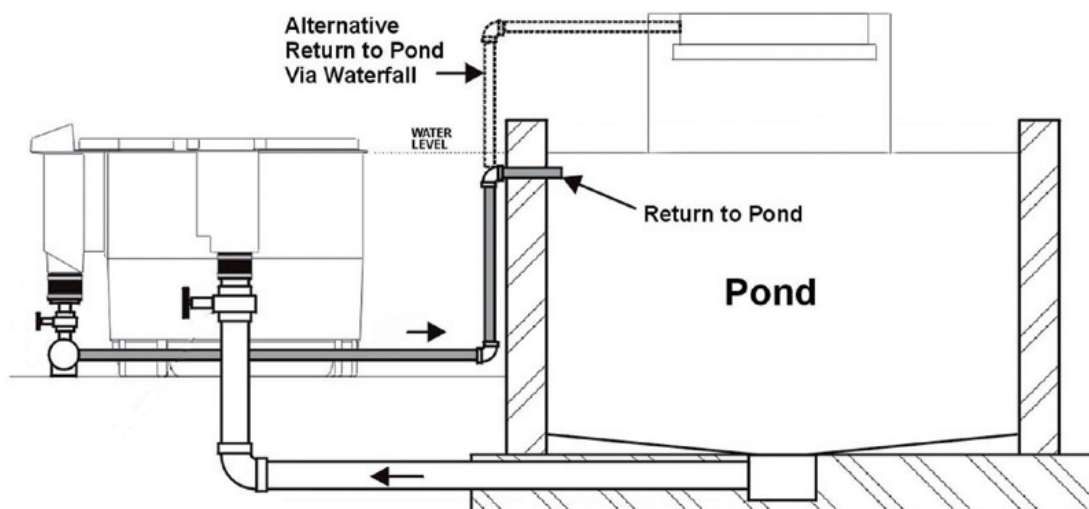
**IMPORTANT PLEASE READ BEFORE CONTINUING WITH INSTALLATION**

This manual will give you all the information needed to upgrade your existing Nexus 200 or 300 to a Nexus 210 or 310. First step is to establish which of the two methods of installation you intend to use. Your Nexus units could be installed in the following configurations:-

**ARE YOU PUMP FED?** By this we mean that if your pump is going to be used to supply the water to the filter, and the filtered water then returns back into your pond via gravity, i.e. down a waterfall, or through a large diameter pipe, this is referred to as PUMP FED (i.e. the water is fed to the filter using a pump).



**ARE YOU GRAVITY FED?** By this we mean that your pump is going to be used to return the filtered water to the pond and therefore your filter will be supplied by gravity via a larger diameter pipe. In this situation the water level in the filter will be at the same level as the pond.



**ENSURE THAT ONCE YOU HAVE ESTABLISHED WHICH SET UP YOU WANT TO USE, REFER ONLY TO THE CORRECT SECTION IN THIS MANUAL.**

**Type 1 - Nexus Overflow / Universal By-Pass Kits checklist:  
(For Nexus Models made before 2006)**



Exit Screen to Upgrade Pre 2006 Model Nexus + Fixing Screws



Elbow & Overflow Pipe



Holesaw Arbor



Overflow adapter for use in gravity-fed set-ups



Holesaw



Eazy Centre Lid

**Type 2 - Nexus Overflow / Universal By-Pass Kits checklist:  
(For Nexus Models made 2006 - 2009)**



Exit Screen to Upgrade 2006 to 2009 Model Nexus + Fixing Screws



Elbow & Overflow Pipe



Holesaw Arbor



Overflow adapter for use in gravity-fed set-ups



Holesaw



Eazy Centre Lid

## Installing the Nexus Overflow / By-Pass Kit

Read the following instructions to enable you to install the Nexus Overflow / By-Pass Kit. (Please note: To avoid confusion the Nexus model shown in the pictures is a post 2006 Nexus model. However, these instructions cover both models.)

1. Empty your Nexus and remove the K1 and place to one side ready to re-use.

2. Remove your current steel exit screen from your Nexus.



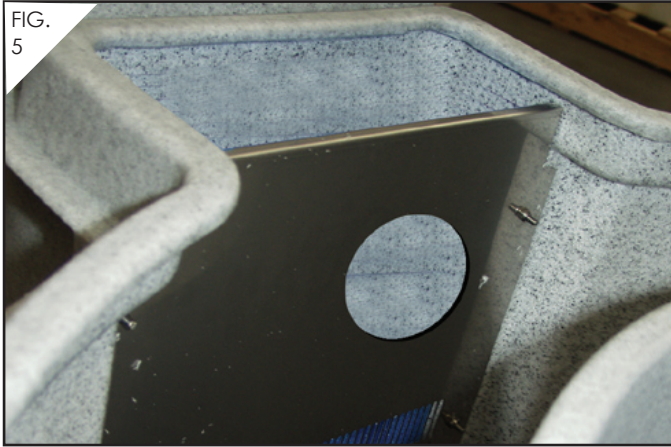
3. Install the new exit screen using the screws provided.



## INSTALLING THE NEXUS OVERFLOW / UNIVERSAL BY-PASS KIT

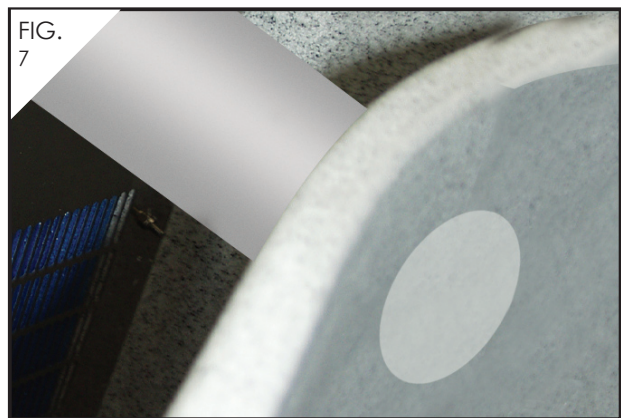
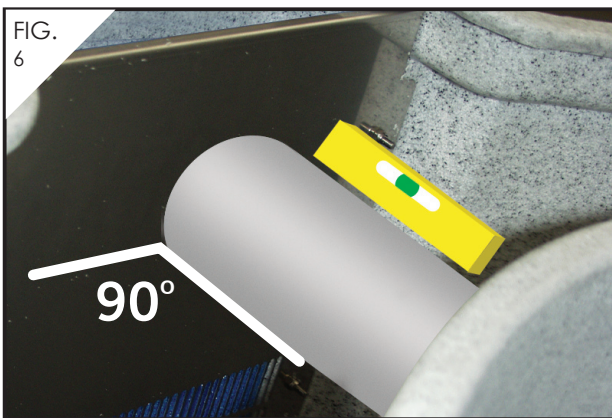
FOR A NEXUS 200 AND 300 MANUFACTURED BEFORE 2006 FOLLOW STEPS 4a to 6a.

**4a** Your exit screen should be sat in position as shown below. The next step is to fit the overflow pipe so that it is level as it goes through the wall of the inner chamber. (Figure 5)



**TYPE 1 EXIT SCREEN**

**5a** For positioning, place the overflow pipe through the hole in your exit grill. Using a spirit level, make a mark on the inner chamber wall that shows you where to position the hole cutter ready for drilling. The overflow pipe must be level and at a right angle to the exit screen. (Figures 6 and 7)



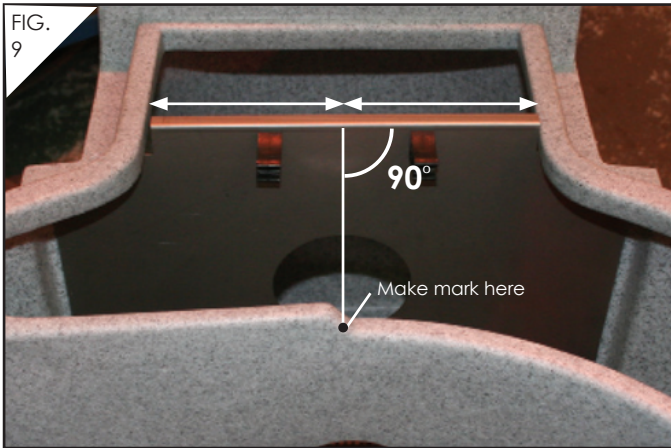
**6a** Remove the pipe and carefully drill the hole with the hole cutter provided. (Figure 8)



# INSTALLING THE NEXUS OVERFLOW / UNIVERSAL BY-PASS KIT

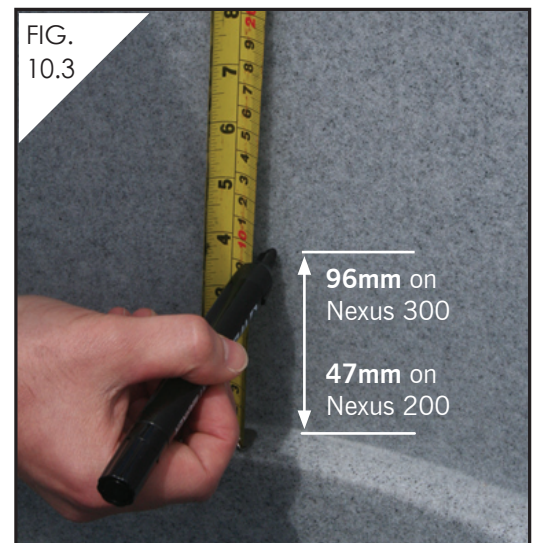
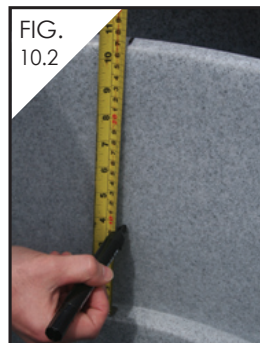
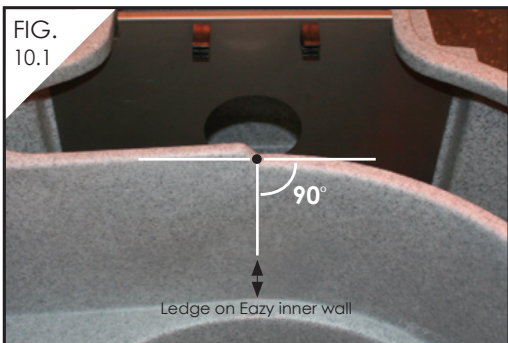
FOR A NEXUS 200 AND 300 MANUFACTURED BETWEEN 2006 AND 2009 FOLLOW STEPS 4b to 6b.

**4b** Using a straight edge as a guide make a mark on the wall of the inner chamber at 90 degrees to the centre of the hole in the exit screen. (Figure 9)

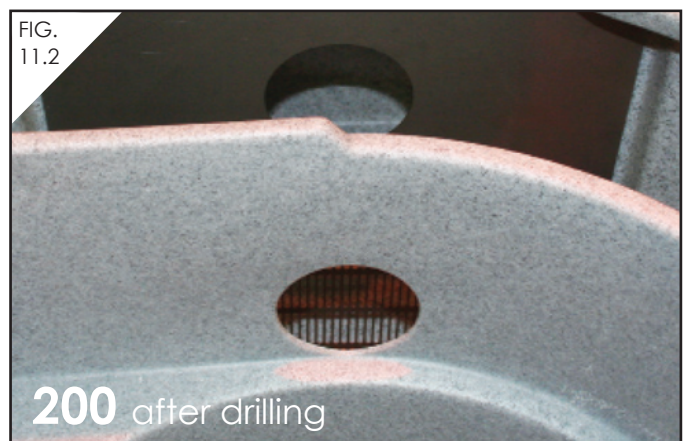


## TYPE 2 EXIT SCREEN

**5b** Using a straight edge as a guide from the mark you have just made, measure upwards from the ledge on the Eazy inner wall as shown (Figures 10.1 - 10.3). You need to measure **96mm** for the **Nexus 300** or **47mm** for the **Nexus 200**. Then mark the position for the centre of the hole.



**6b** Carefully drill the hole with the hole cutter provided. (Figure 11.1 - 11.2)



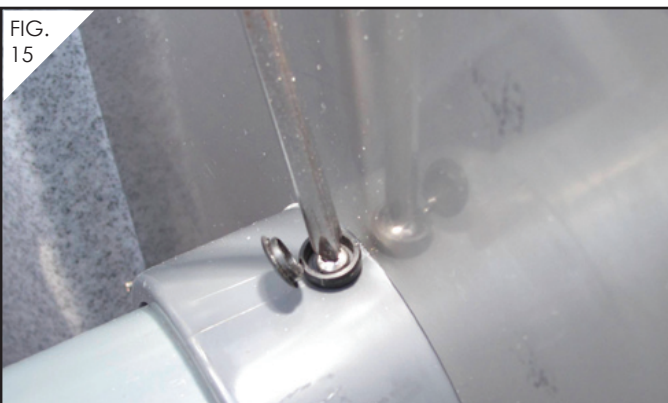
**7** Remove screw in new elbow, push the elbow into the exit grill. N.B. On a pump fed model you may need to drop standpipe to accommodate the elbow and then re-set. (Figure 12)



**8** Using a rubber mallet gently tap the overflow pipe through the wall of the inner chamber and into the elbow. (Figures 13 and 14)



**9** Using the self tapping screw with the black cap, secure the pipe to the elbow. (Figure 15)







**INSTALLING THE  
NEXUS OVERFLOW / UNIVERSAL BY-PASS KIT**





Fig 3.1 Normal operation



Fig 3.2 Needs cleaning

### CLEANING YOUR NEXUS PUMP FED

The central 'Eazy' section of the Nexus will collect all the debris and suspended solids that come into the filter. In time you will find out how often you need to clean this, and probably get into a routine to keep the filter working at its optimum. Each pond is different, and the regularity of cleaning is affected by stocking levels and feeding rates along with other factors such as algae in the pond.

**WHEN TO CLEAN?.** The indication that your filter requires cleaning is when you see water flowing out of the overflow as in Fig 3.2. Normally we would not recommend leaving the filter uncleaned more than 3 weeks. The filter can be left longer if absolutely necessary but this would not be best practice.



Fig 3.3

### Cleaning procedure

1. Close the valve at the Nexus inlet and immediately switch off your pump.
2. Close the inlet to the inner chamber by inserting inlet slide-plate supplied with your Nexus. Your Eazy is now isolated from the rest of the system
3. Turn the air valve to divert the air into the Eazy, close the air valve to the bio stage.
4. The K1 media in the Eazy will now be agitated vigorously, or 'boil'. As this happens, all the debris trapped in the K1 will be released into the vortex area of the central chamber.
5. After about 5 minutes, open the waste valve, allowing the waste to drain out with the water Fig 3.3.
6. Take out the inlet slide plate.
7. Open the valve on the inlet, switch on your circulating pump.
8. Close the waste valve.
9. Close the air valve, to the inner chamber and open the air valve to the outer chamber.
10. We would recommend that you perform the cleaning process twice wherever possible to ensure best results.

## NEXUS CLEANING INSTRUCTIONS - GRAVITY FED

### CLEANING YOUR NEXUS GRAVITY FED

The central 'Eazy' section of the Nexus will collect all the debris and suspended solids that come into the filter. In time you will find out how often you need to clean this, and probably get into a routine to keep the filter working at its optimum. Each pond is different, and the regularity of cleaning is affected by stocking levels and feeding rates along with other factors such as algae in the pond.

**WHEN TO CLEAN?** You may also notice that the water level in the outer chamber – the Biological stage – lowers as water is prevented from getting through the Eazy as quickly as it is being pumped back into the pond. When this water level falls beneath the level of the bypass pipe, this is the indication that you should clean the Eazy. Normally we would not recommend leaving the filter uncleaned more than 3 weeks. The filter can be left longer if absolutely necessary but this would not be best practice.

### Cleaning procedure

1. Switch off your circulation pump.
2. Close the inlet to the Nexus by inserting inlet slide-plate supplied with your Nexus. Your Eazy is now isolated from the rest of the system
3. Turn the air valve to divert the air into the Eazy, close the air valve to the bio stage.
4. The K1 media in the Eazy will now be agitated vigorously, or 'boil'. As this happens, all the debris trapped in the K1 will be released into the vortex area of the central chamber.
5. After about 5 minutes, open the waste valve, allowing the waste to drain out with the water.
6. Close the waste valve.
7. Take out the slide plate
8. We would recommend that you perform the cleaning process twice wherever possible to ensure best results.
9. Close the air valve, to the inner chamber and open the air valve to the outer chamber.
10. Switch on your circulation pump.

### LONGER PERIOD OF TIME BETWEEN CLEANING

Regular cleaning of the Eazy is essential to maintain your pond at its best. Build up of detritus in any pond filter can harbour pathogens, and other pollutants which may harm your fish. At times, you may want to leave your filter for longer than you would normally want between cleaning, perhaps if you go on holiday. In these instances, your Nexus incorporates a Bypass, which will prevent the bio stage from emptying, and therefore potentially starving your pump of water, should your Eazy become full of debris. The filter bypass should be turned 90 degree as per figs. 7.1-7.3, when you need to leave your filter for longer periods of time such as holidays etc. this will allow the water to bypass the eazy should it become blocked. On return from your holidays - turn the bypass back to 12.00 o'clock see Fig 7.1. Normally we would not recommend leaving the filter uncleaned more than 3 weeks. The filter can be left longer if absolutely necessary but this would not be best practice.



Fig 7.1



Fig 7.2



Fig 7.3

HOW TO GET THE BEST FROM YOUR NEXUS FILTER

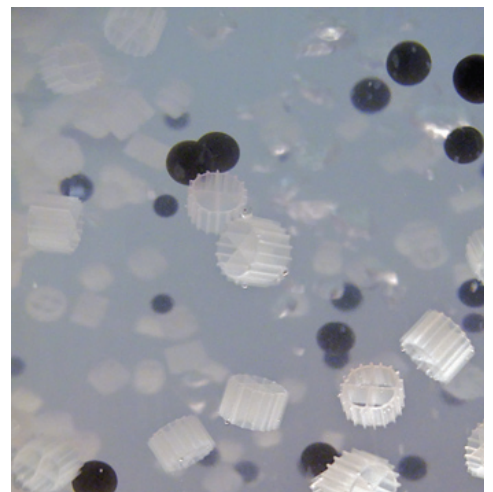
# PURE POND

Take a look of our new Pure Pond bacteria gel balls. With over 8 billion bacteria per Litre of Pure Pond Balls, your pond will shine, especially if you add them monthly into the Kaldnes Moving bed. The Pure Pond balls are made from a biodegradable polymer, and crammed full of bacteria that are slowly released when they are needed most. When you introduce the Pure Pond balls into the biological chamber of your Nexus, they become one with moving bed, agitating alongside the K1 media, just waiting to smooth out the peaks and troughs of the Ammonia/Nitrite cycle.

Getting the most from your Nexus has never been easier. Contact your Nexus dealer to find out more.



Pure Pond bio balls.



Pure Pond bacteria gel balls in the Kaldnes moving bed filter.