DVS Filtertechniek
Aan de Fremme 53 B
6269BK Margraten

www.dvs-filtertechniek.com
info@dvs-filtertechniek.com

QUICK GUIDE

v1.4

DVS FILTERSYSTEMS

Index

1 Basic requirements

Basic requirements every filter system must meet:

- The filter system should be placed on a ground surface with sufficient carrying capacity, for instance:
  - a well-vibrated sand bed of 10 cm, possibly with concrete tiles
  - a concrete floor

  In the event of subsidence, the filter may not function properly!
- The filter system should be placed fully level.
- Leave sufficient space around the filter, to perform cleaning and maintenance work.
- The filter control should be in a dry area, preferably indoors.
- The drive motor must be protected against weather influences.

The filter system can be used as gravity-system or pump fed system.

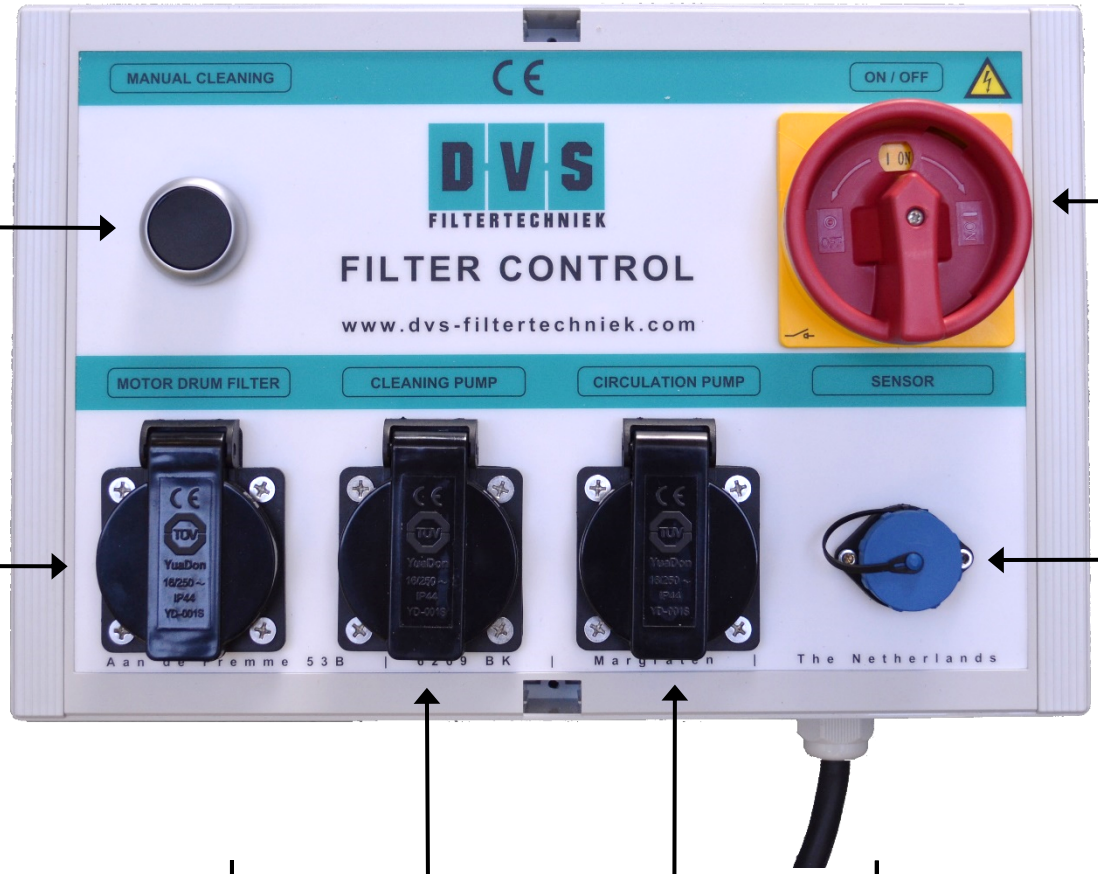
IMPORTANT!

The correct placement and constant water level in the pond are important conditions for optimal and problem-free operation of the filter system.

IMPORTANT!

The use of salt in the pond can cause stainless steel components of the filter to oxidize.

1.1 Control unit



Manual Cleaning

Power Switch

Plug
Motor Drumfilter

Plug Sensor

Plug
Cleaning Pump

Plug
Circulation Pump

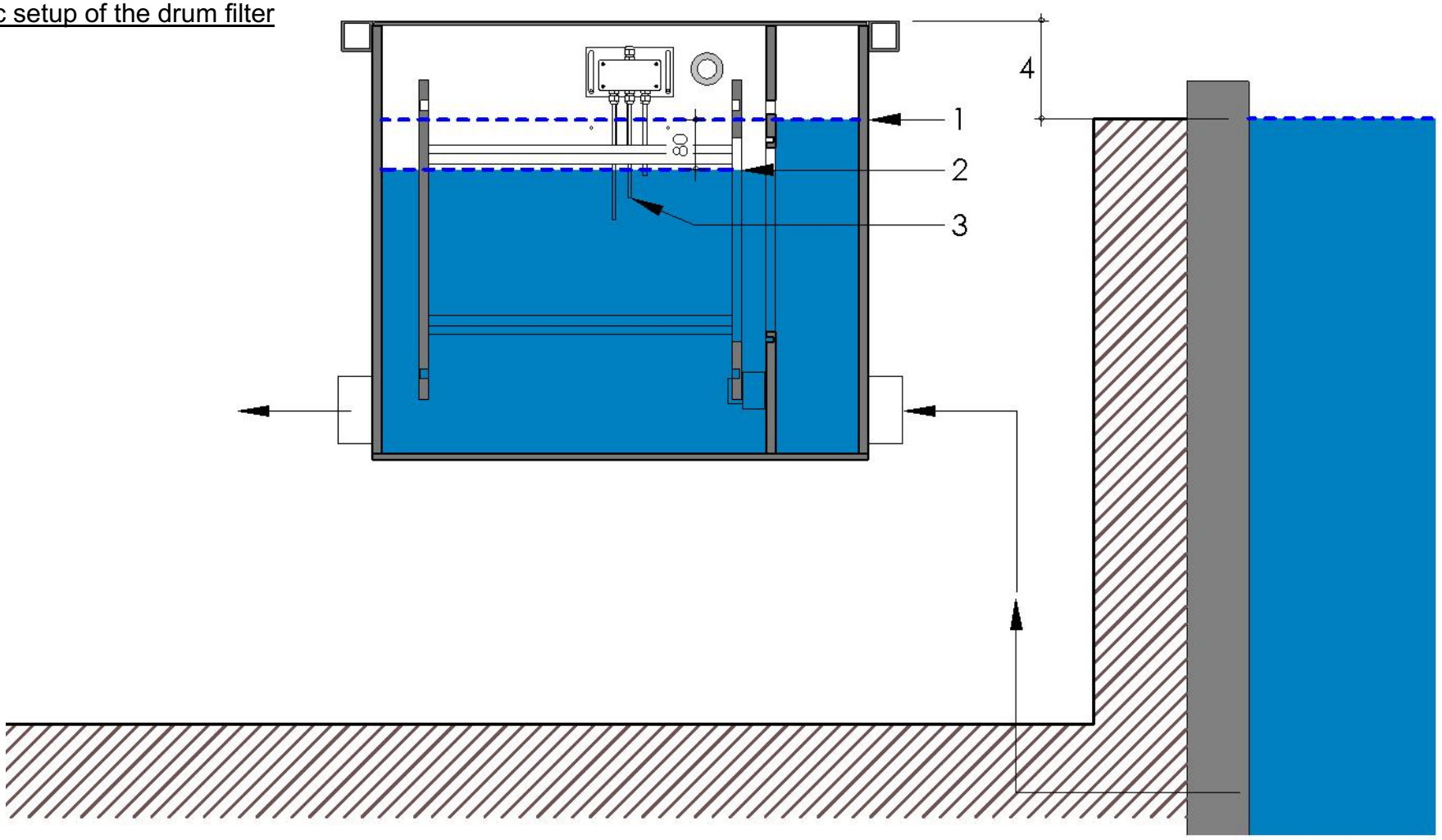
2 A. Gravity-system

2.1 Placing the filter system

- Determine the maximum water level of the pond.
- Align the base plate horizontally (the filter should be placed fully level).
- The filter should be placed the height of the installation height (fig. 2.1) above water level.
  (installation height is the distance from maximum water level to top of filter).

Type filter	Installation height [cm]
ENTRY25	16
ECO15	16
ECO22	16
PP22	17
PP35	17
PP50	17
PP65	17
PP100	18
PP100n	18
D22	17
D50	12
C22	14
CL15	14
CL22	14
CL35	14
CL50	14
CL65	14

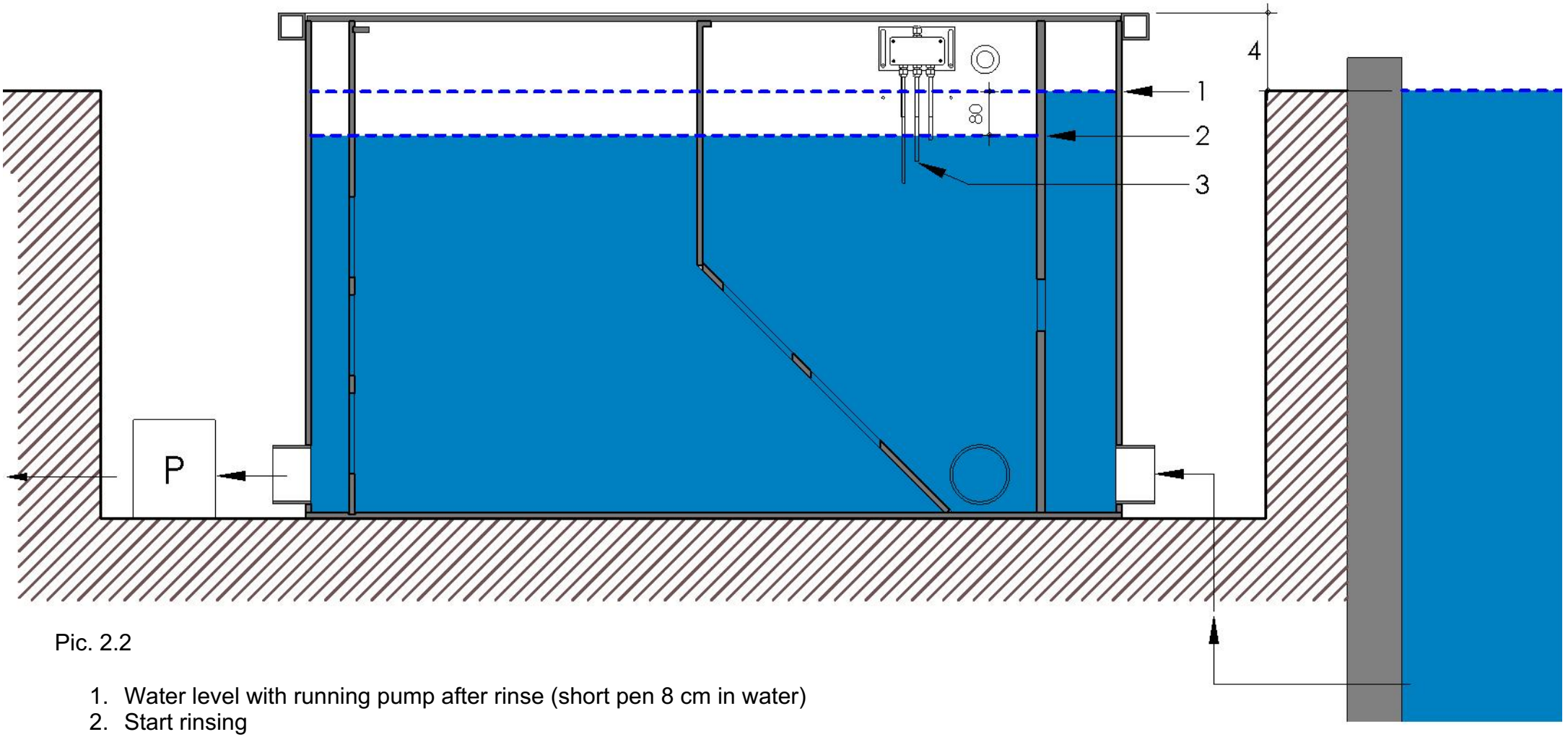
Schematic setup of the drum filter



Pic. 2.1

1. Water level with running pump after rinse (short pen 8 cm in water)
2. Start rinsing
3. Pond pump switches off
4. Installation height PP is 17 cm

Schematic setup of the combi drum filter

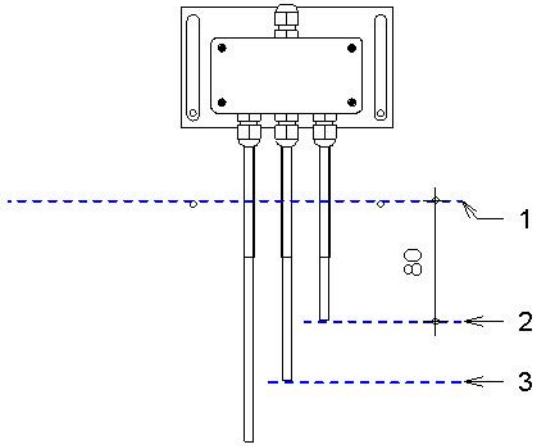


Pic. 2.2

1. Water level with running pump after rinse (short pen 8 cm in water)
2. Start rinsing
3. Pond pump switches off
4. Installation height CL is 14 cm

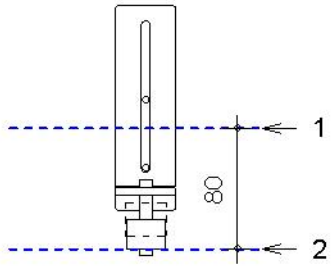
2.2 Set level control:

- For the operation of the gravity system a constant water level in the pond is necessary.
  A tolerance of up to 20 mm below maximum water level is allowed.
- Should the maximum water level in the pond exceed this, the water excess water will be disposed of via the waste water drain, until the maximum water level has been reached



Pic. 2.3 Sensor

1. Water level with running pump after rinse (short pen 8 cm in water)
2. Start rinsing
3. Pondpump switches off



Pic. 2.4 Float switch (ECO models / models With PLC controller)

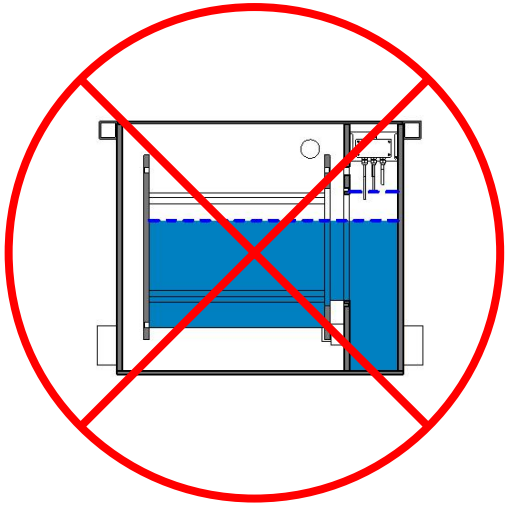
1. Water level with running pump after rinse
2. Start rinsing

For more detailed information you are referred to the complete manual.
This can be found at www.dvs-filtertechniek.com

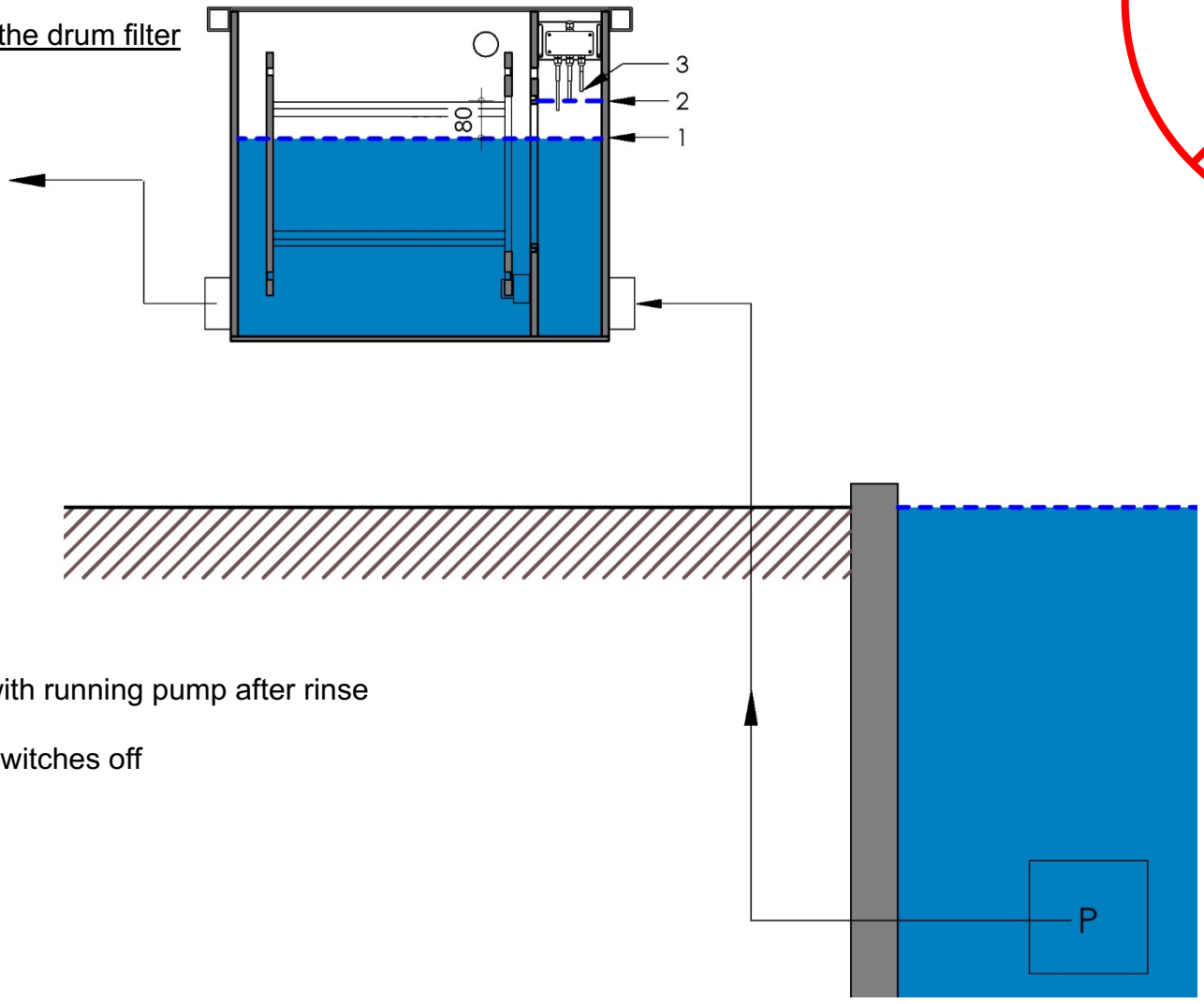
3 B. Pump fed system

3.1 Placing filter system

- Determine the maximum water level of the pond
- Align the base plate horizontally (the filter should be completely level).
- The drumfilter must be placed 30cm higher than the biochamber.
  (the distance from top of the drumfilter, to the top of the biochamber is 30cm)



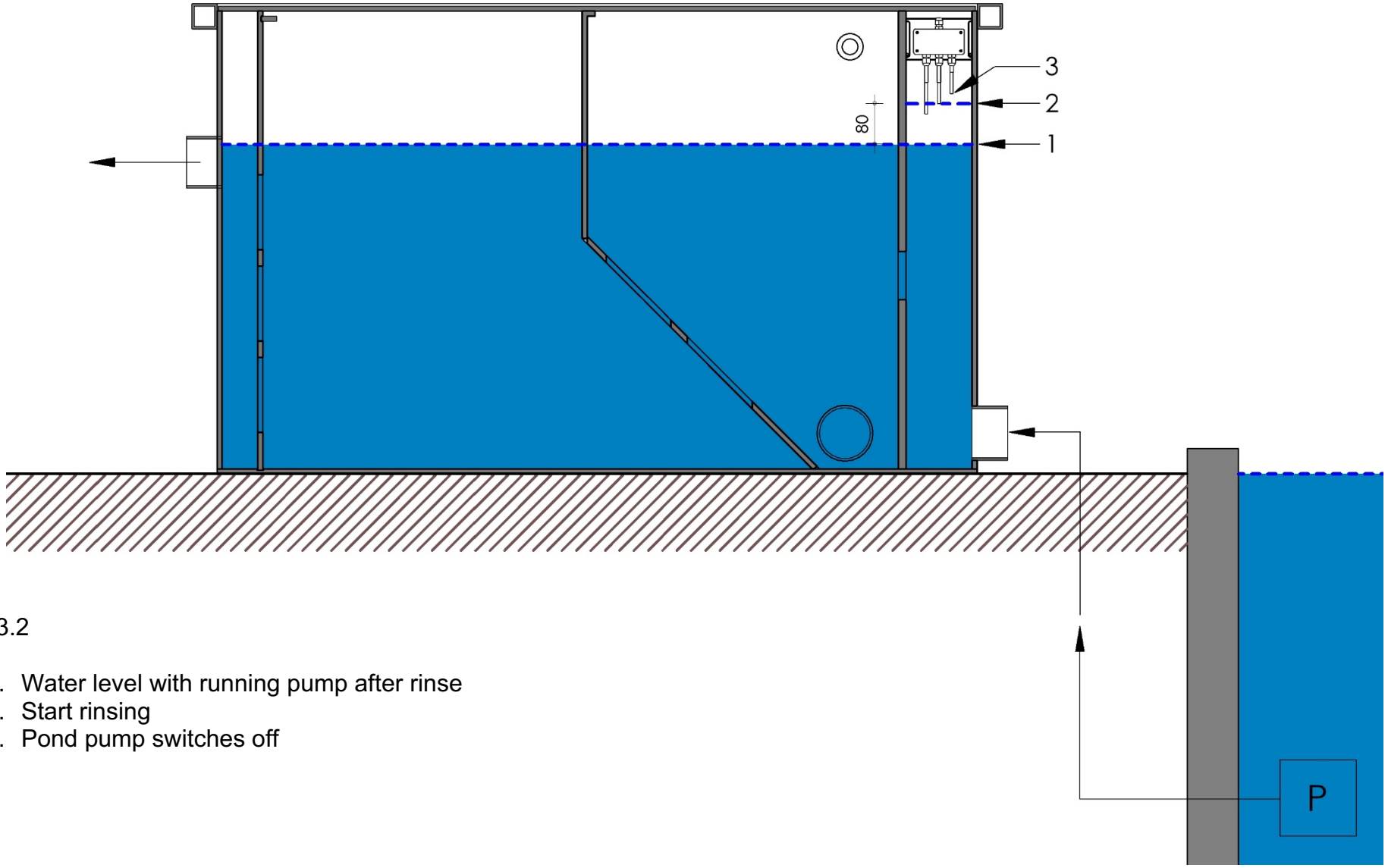
Schematic setup of the drum filter



Pic. 3.1

1. Water level with running pump after rinse
2. Start rinsing
3. Pond pump switches off

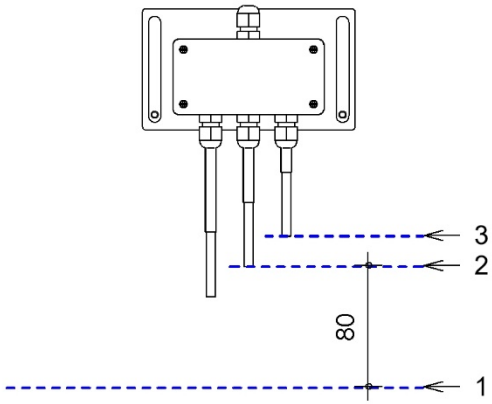
Schematic setup of the combi drum filter



Pic. 3.2

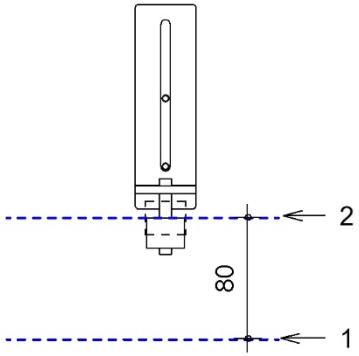
1. Water level with running pump after rinse
2. Start rinsing
3. Pond pump switches off

3.2 Set level control:



Pic. 3.3 Sensor

1. Water level with running pump after rinse
2. Start rinsing
3. Pond pump switches off



Pic. 3.4 Float switch (ECO models / models With PLC controller)

1. Water level with running pump after rinse
2. Start rinsing

For more detailed information you are referred to the complete manual.
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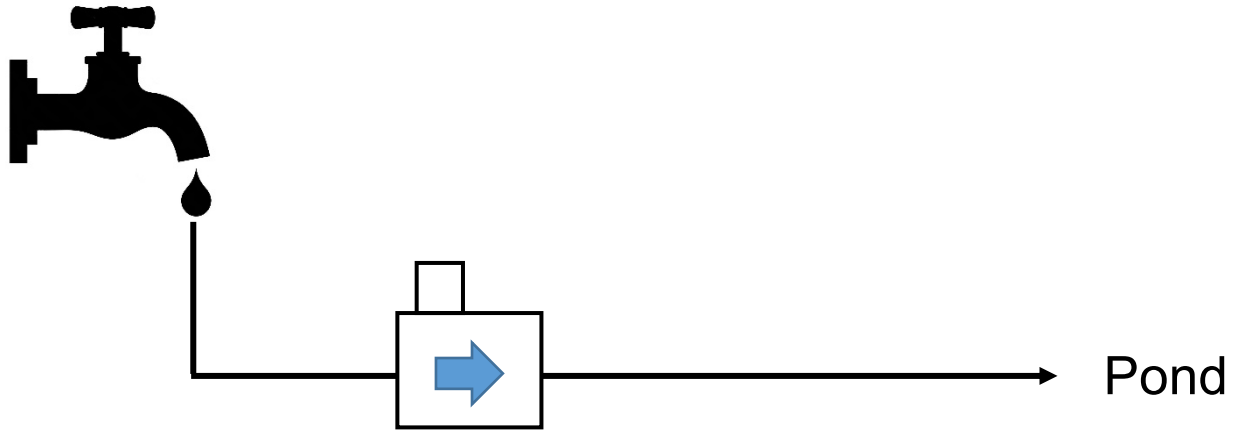
4 Water Valve (PLC)

Automatic refill



Waste cleaning