

## Water management system WMS40 / WMS90



### Instruction manual

Manufacturer : **Dehaco B.V.**  
Description : **Water management 40/90L**  
Type-No. : **ENV-006**  
Serial-No. : \_\_\_\_\_

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## 1. Basic safety advice

The handling of the appliance technology is only allowed for instructed staff. The exact knowledge of the guide book is an important condition for the staff before operate or use the device.

Please keep the instruction manual available for the user. Dehaco B.V. has to engage you as the user to follow the guide book and to employ this engineered technology only in accordance with the regulations and not in a inappropriate way! In the event of nonobservance, Envi Int. assumes no liability.

To ensure safety during operation of the unit, the following must be strictly observed:

- Do not use in potentially explosive areas.
- Necessary repairs and maintenance may only be performed by authorized staff.
- For all repair and maintenance work, the device is to be completely disconnected from power supply
- The safety and protective equipment is to be kept in perfect condition.
- Attached safety guidelines are to be kept in a readable state and are to be followed.
- Generally applicable legal and other binding regulations for accident prevention and handling of hazardous substances must be observed.

In order not to restrict safety, any changes on the machine are prohibited.

## 2. Transport and storage

### 2.1 Delivery

The unit is delivered on a pallet. To prevent effects of weather or damages, the unit is wrapped in a plastic film.

Transport damages have to be documented at once during the handing over of the carrier or another supplier. Please note the possible damages additionally on the way bill.

### 2.2 Transport

The Transport has to be handled with care to avoid damages due to faulty handling or imprudence.

In winter and at risk of frost, you have to empty the whole device (pumps, filter housings, tank.) preliminary to the transport.

**Attention:** Transport of the machine (also change of location) only with a drained device.

### 2.3 Storage

In order to avoid damages, the installation has to be kept in a dry area with no access for unauthorized persons.

**Because of risk of frost in winter you have to observe the following:**

- Empty water pipes, filter housing and tank
- Place the water treatment system in a place protected against frost.

**Advice for the draining of the tank:**

In order to drain, turn the red handle in up/ down position.





### 3. Volume of delivery

The volume of delivery of a water treatment boiler system, unless no other agreements have been made, consists of:

- Water management system 90L.
- Filter set
- Water hoses
- Power supply cable/ connector
- Instruction manual

#### **Return delivery after termination of rental period**

We have to insist on following conditions for the return delivery in order to protect our clients and in accordance with the rules for hazardous materials transportation:

- As listed above
- Well cleaned (ready for use)
- Without pollution remains
- Without damages
- Without filter

### 4. Technical description

#### **4.1 Use according to regulations**

During asbestos sanitation works within closed rooms, you have to exclude that the asbestos fibers leave the sanitation area uncontrolled and endanger the human health and the environment. For this reason, personnel must leave the sanitation area through a lock system and take a shower while leaving.

The Dehaco water management assumes the heating of the shower water and takes care for the filtering of the contaminated sewage water.

#### **4.2 Unit description**

This is an electric warm water storage for the heating of shower water. The tank can be filled automatically over a connected fresh water hose. The water is heated to shower temperature ( up to 40°C ) by an electric heating element. The shower water is pumped to the showerhead via an internal pump and waste water is filtered by 2 filters.

## 5. Technical Data

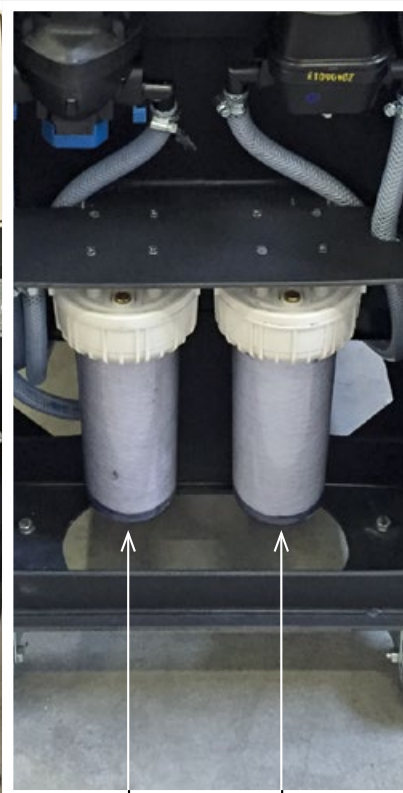
Power connection:	CEE male 3P 4H 32A IP44 23V
Tank capacity:	<b>WMS40:</b> 40 Liter   <b>WMS90:</b> 90 Liter
Heating:	230V / 3000Watt
Heatup phase (37°C) with full tank:	<b>WMS40:</b> ± 20 min.   <b>WMS90:</b> ± 45 min.
Pumps:	24 V / 5A Self-priming and dry run safe (dry run not advised)
Flow rate max.:	7 l/min
Fresh water supply:	Automatic via fresh water connection
Hose connection:	Quick coupling
Filter system:	10" Pre- and fine filter
Dimensions (LxWxH):	<b>WMS40:</b> 690 x 400 x 750 mm   <b>WMS90:</b> 945 x 500 x 711 mm
Weight:	<b>WMS40:</b> 25 kg (empty)   <b>WMS90:</b> 27,5 kg (empty)
Pre filter:	25 µ
Fine filter:	5 µ
Circuit breaker:	32A/ 0,03A
Pump glass fuses:	5A slowblow

*Technical changes reserved*

## 6. Initial operation

Control panel

Power supply



Hose entrance water

Hose shower water

Hose waste water in

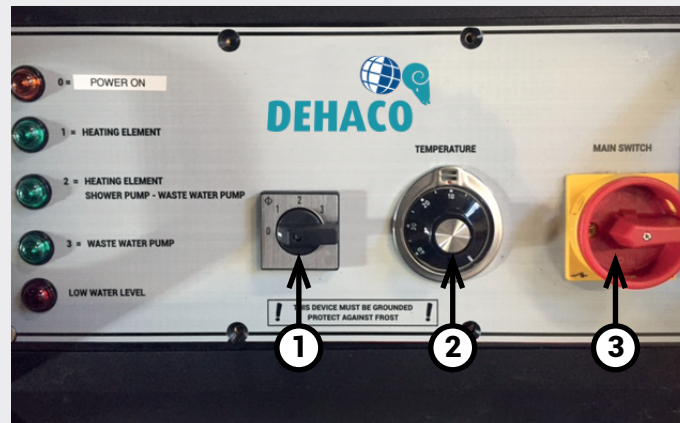
Hose waste water out

Pre filter

Fine filter

- Establish hose connections
- Connect to power supply
- At use of the automatic fresh water supply, the max. fill level is controlled by a float switch
- Turn main switch on
- Turn selector switch to position 1: Heating is on
- Turn selector switch to position 2: Heating is on - pumps are on standby and run when shower is used
- Turn selector switch to position 3: Only the waste waterpump is running

## Switch setting / function switch/ rotary encoder



- Left switch (1):
  - 0: Standby
  - 1: heating element
  - 2: heating/ shower/ drain pump
  - 3: drain pump
- Rotary switch (2): Temperature switch 0 - 40 °C
- Right switch (3): Main switch on/ off

### Safety advice:

During works on the device always disconnect the power plug! Operate the device only with mains which are secured with fault current protection switch!

Never operate the device without water! In case of frost risk, empty the device by opening the drain valve!

**CAUTION! Danger of scalding:**

Do not remove or manipulate the temperature protection sensor.

**CAUTION: Danger of skin burning.**

## 7. Maintenance and care

### 7.1 Maintenance

Only undertake the maintenance works under the observance of all relevant safety precautions, the filter is contaminated!

### 7.2 Daily maintenance

- Check hoses on tightness and continuous flow
- Visual check if pre filters are dirty

### 7.3 Filter change ( Always according to local rules and regulations )

- |                       |  |
|-----------------------|--|
| <b>Attention:</b>     | <ul style="list-style-type: none"><li>• Filter change only if the device is switched off</li><li>• Demount dirty filters only in wet shape to avoid contamination</li><li>• Use only approved filters</li><li>• It is prohibited to use damaged filter housing</li></ul> |
| <b>Filter change:</b> | <ul style="list-style-type: none"><li>• Loose the filter housing</li><li>• Take out the filter and dispose of it</li><li>• Insert the new filter candles</li><li>• Tighten the filter housing</li></ul>  |

**The suction hoses, pumps, filter housings and filter are contaminated after the first use. Repairs and maintenance have to be executed only under the observance of all relevant safety measures. All the filters mentioned have to be disposed of according to the legal terms.**

### 7.3 Electrical

The power supply voltage is protected by an automatic fuse 32A and ground fault circuit breaker 0,03A.

Both pumps ( shower and waste water ) are protected with a glass fuse 20x5

**Caution:**                      **Before opening the elektrical controll box, turn off the main switch and disconnect the power plug.**

**If automatic fuse or glass fuse trips, find cause for the failure. First then reset the automatic fuse or replace glass fuses. If the problem persists, contact a technician or dealer.**

## 8. Declaration of conformity

### Certificate of Conformity product control



Certificate nr. 15052021-ENV-006

Client : Dehaco B.V.  
Address : Kruisbaak 25  
ZIP-code : 2165 AJ  
Residence : Lisserbroek

Number : ENV-006  
Definition : Water management 40/90L  
Standard : EN 292 and EN 60335-1, 2006/42/EG and 2006/95/EG  
Validity : 5 year  
Testing before : 15-05-2021

Date : 15-05-2016

Inspection:  
NOVANORM



Zwartven 1  
5527 AN Hapert  
Inspector: Drs. Ing. P. Leijdekkers Sr.

This Product is:

Approved

**International EN 292 and EN 60335-1,  
2006/42/EG and 2006/95/EG Standard**



For more information, please visit our website: [www.dehaco.nl](http://www.dehaco.nl)