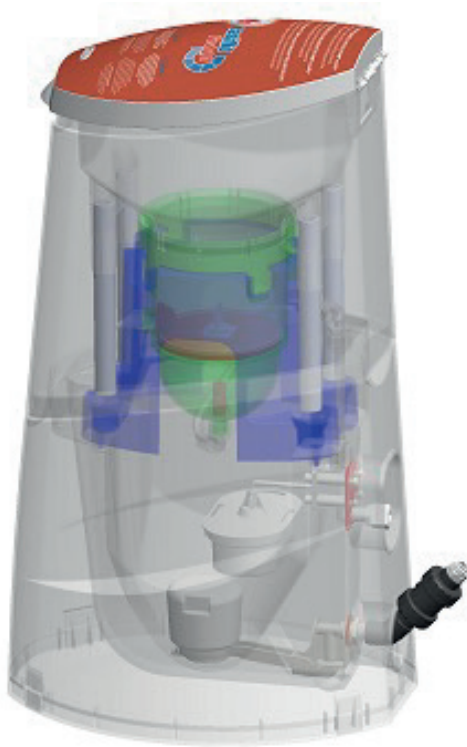


Expert since 1928



# **hth<sup>®</sup> easiflo<sup>®</sup> 10 First** feeder system for commercial pools and spas (Part 1)



## **hth<sup>®</sup> easiflo<sup>®</sup> 10 First** Installation Manual

Rev :22.1

# Documentation

► Part 1 : Installation manual

Part 2 : Operation manual, start-up and maintenance

Part 3 : Spare parts catalogue

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# 1. Use of the document

Please read this manual carefully before commencing installation of the feeder, to ensure the safety of users and bathers in both installation and operational conditions.

The information contained within this document must be followed precisely. Innovative Water Care Limited and Innovative Water Care Europe SAS cannot be held responsible for any incident if the instructions contained within this manual are not followed.

To help with the installation the following symbols are used throughout:

- Information
- ▶ Actions to be taken
- ⇒ List items



Risk of injury or accident



Electrical risk



Risk of malfunction or damage to the feeder



Remarks



Recyclable elements



PPE: Personal Protective Equipment

## 1.1 Storage and Transport



It is necessary to store and transport your **hth® easiflo® 10 First** in its original packaging to prevent any damage.

Ambient temperature and humidity for storage must be within the following parameters:

- ⇒ Temperature: -10°C – 70°C
- ⇒ Humidity: Maximum 90% without condensation

## 1.2 Warranty

The guarantee is provided in accordance with our general terms and conditions of sale and delivery, provided that the following conditions are met:

- ⇒ Use the equipment in accordance with the instructions in this manual
- ⇒ No modification of the equipment or handling that could compromise the conformity of the device,
- ⇒ Compliance with electrical safety requirements
- ⇒ **hth® easiflo®** Briquette 7g must be used within the feeder for optimal use

## 1.3 Water Chemistry

- ⇒ Total Alkalinity: CaCO<sub>3</sub> of 60 to 80 ppm or between 6 and 8°F
- ⇒ Calcium Hardness: CaCO<sub>3</sub> of < 200ppm or < 20°F

## 1.4 Hydraulic requirements and characteristics of the feeder **hth® easiflo® 10 First**

- ⇒ Ideal inlet pressure: 0,5 to 1 bar
- ⇒ Maximum input rate: 1,25gpm / 4,75lpm (see flow indicator)

## 2. Safety and Environmental Advice



The use and operation of this unit may change the chemical composition of your pool. Therefore, it is necessary to read these instructions carefully and ensure that ALL staff are properly trained and familiar with the use of the **hth**<sup>®</sup> easiflo<sup>®</sup> feeders and chemicals.

You will need to:

- ⇒ Read the manual before unpacking, installing or servicing the feeder.
- ⇒ Complete a full site risk assessment before installation is carried out.

Non-compliance with the instructions held within this document could lead to seriously injury or the feeder failing.

### 2.1 Equipment Use

The **hth**<sup>®</sup> easiflo<sup>®</sup> feeder is based on the exclusive use of calcium hypochlorite **hth**<sup>®</sup> easiflo<sup>®</sup> Briquette 7g



Any use other than in accordance with this manual or with a different chemical product is considered to be non-compliant and must be avoided. Innovative Water Care Ltd will not assume any liability or resulting damage caused by non compliance with this manual.

### 2.2 Conditions of Sale

Operators of the **hth**<sup>®</sup> easiflo<sup>®</sup> 10 First feeder must accept and adhere to the following conditions:

- ⇒ Proper training and supervision is carried out for any employee servicing or using the **hth**<sup>®</sup> easiflo<sup>®</sup> First feeder
- ⇒ A total understanding of the functions of the feeder is required
- ⇒ Any pool operator must have read and understood this manual before any work is carried out on the feeder

## 2.3 Risk Management



The installation and commissioning of the **hth**<sup>®</sup> easiflo<sup>®</sup> First feeder must be completed by a fully qualified technician, this includes electrical qualifications relevant to the location of the installation. The installation must adhere to all electrical requirements within the country of operation.



Before adjusting or working with any electronic valves, timing units and sensors the unit must be totally isolated from the mains electrical connection. Repairs and maintenance must only be carried out by an authorised, fully qualified and trained technician.



Make sure you choose the right place to install the equipment according to the environment! The **hth**<sup>®</sup> easiflo<sup>®</sup> electronic box must not be installed in a hazardous environment and must be protected from splashing water or chemicals. It should be installed in a dry and ventilated area, isolated from corrosive fumes.

## 2.4 Environmental Compliance

Any parts of the packaging or equipment that can be recycled must be disposed of within your local regulations.



Items such as cardboard, paper and plastic packaging can be recycled within your local environment recycling guidelines.



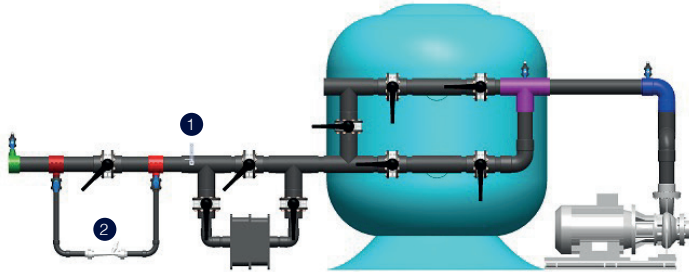
In accordance with the European Directive 2002/96/EC, this symbol indicates that from 12th August 2005 electrical appliances cannot be disposed of in household or industrial waste containers. Consumers within the European Union are required from that date, to dispose of electrical items marked with this symbol via the appropriate methods.



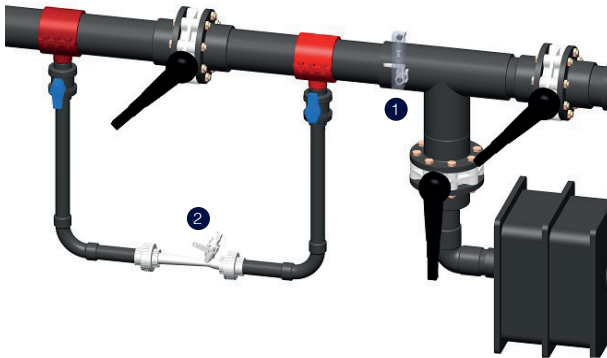
In accordance with the European Directive 2002/95/EC, this symbol indicates that the **hth**<sup>®</sup> easiflo<sup>®</sup> First feeder has been designed in compliance with the Restriction of Hazardous Substances.

**CE** In accordance with the Low Voltage Directive (2006/95/EC) and the Electromagnetic Compatibility Directive (2004/108/EC), this symbol indicates that the unit has been designed in compliance with this regulation.

## 3. Hydraulic installation



### 3.1 Inlet kit and venturi kit



The ideal installation of the inlet kit is **1** with a 1/2" tap after the filter and heater. The entire inlet kit: fittings, isolation valve and flow meter are supplied with the dosing unit.

The ideal installation of the venturi kit **2** is on a Ø50 by-pass loop, after the filter and heater, but before the pH injection tap point. The ideal minimum distance between the pH injection point and the chlorine return point is 10 x the Ø of the main pipe.

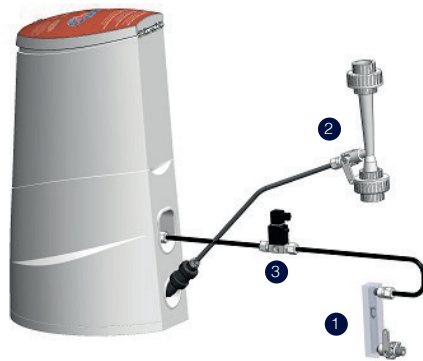


Example: If your main pipe is Ø140, then the ideal distance between the chlorine return and the pH injection point will be 10X140 or 1m40.

**The pipe clamps (in red) and isolation valve for this loop are not supplied with the feeder.**

### 3.2 Tubing connection

 If the 6m length supplied with the feeder is not sufficient, you can order more: **Tubing PE 1/2" (réf 205490)**. Minimum order quantity is 10 m.



It will be necessary to make 3 tube connections:

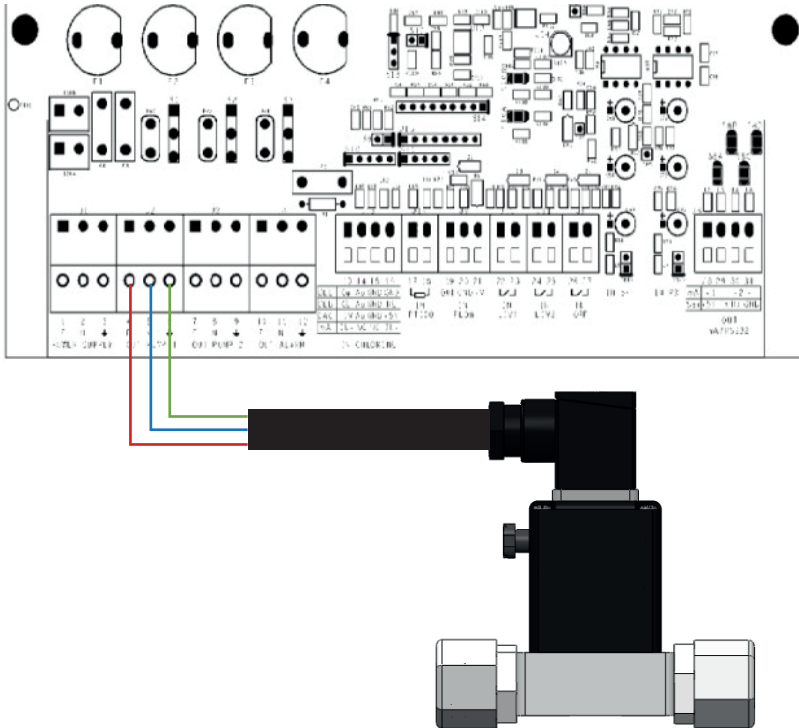
- The 1st connection, will connect the inlet kit ① to the solenoid valve kit ③.
- The second connection, will connect the solenoid valve kit to the inlet of the feeder (top float).
- The 3rd connection, will connect the output of the feeder (bottom float) to the venturi kit ②.

If the installation is at the site of an existing **hth**<sup>®</sup> easiflo<sup>®</sup> feeder (e.g. old **hth**<sup>®</sup> easiflo<sup>®</sup> model), it is possible to keep some electrical/hydraulic lines in place such as the solenoid valve, venturi and/or booster pump, if present.

In the case of a replacement of a model other than **hth**<sup>®</sup> easiflo<sup>®</sup>, it is important to know the hydraulic and technical characteristics of the existing venturi.

# 4. Electrical installation

## 4.1 Controller connection **hth**® Cycl'eau® - **hth**® easiflo® 10 First



### Caution:



If you are using another model of pool controller, make sure that the voltage supplied by your chlorine relay is 230VAC-50hz. If your control system has another voltage output, it will be **necessary to transform it** before connecting it to the terminals of the solenoid valve of the **hth**® easiflo® 10 First feeder.



If your pool control system has a dry contact output, it will be necessary to make the connection via an auxiliary relay and **not directly** to the solenoid terminals of the **hth**® easiflo® 10 First.

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