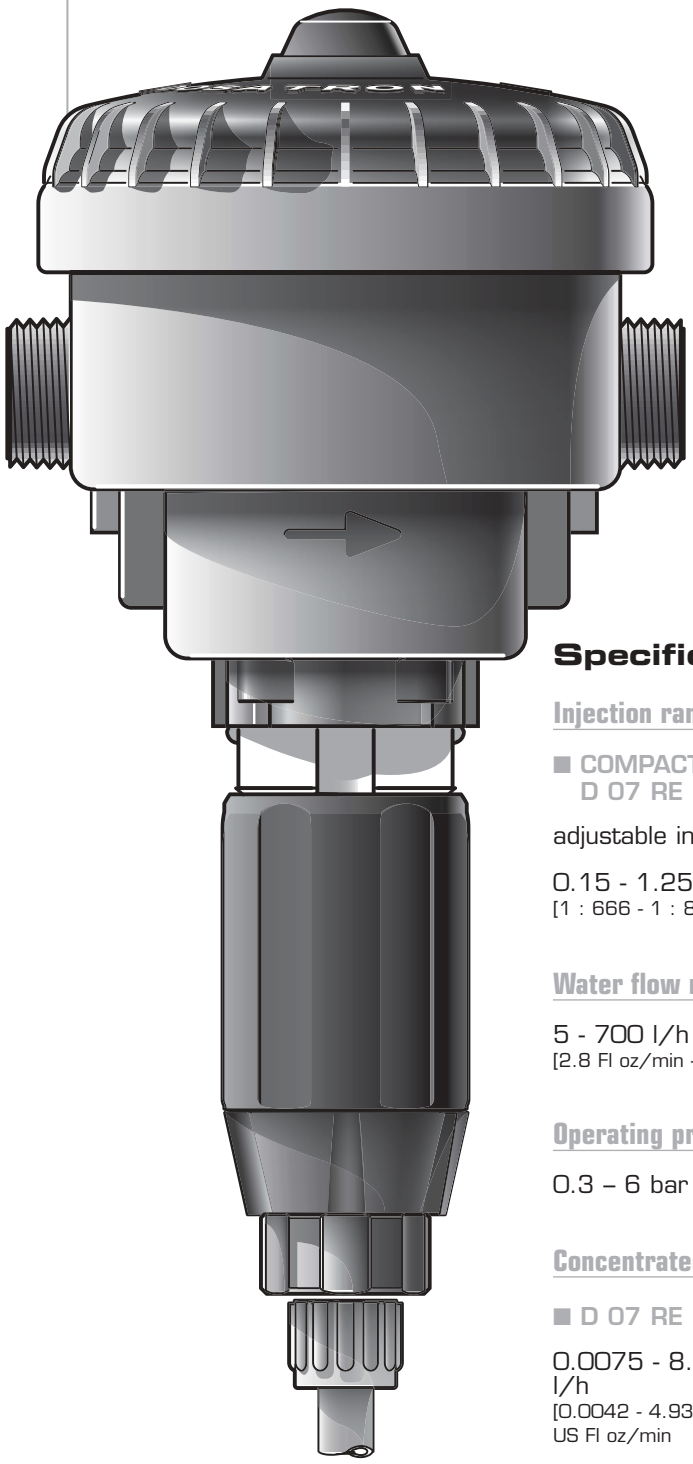
# DOSATRON®

*WATER POWERED DOSING TECHNOLOGY*

0.7 m³/h

# compact



## Specifications

### Injection range > 2 models

| ■ COMPACT D 07 RE 125 | ■ COMPACT D 07 RE 5 |
|---|---|
| adjustable injection | |
| 0.15 - 1.25 % [1 : 666 - 1 : 80] | 0.8 - 5.5 % [1 : 128 - 1 : 18] |

### Water flow range*

5 - 700 l/h
[2.8 Fl oz/min - 3 US GPM]

### Operating pressure

0.3 – 6 bar [4.3 – 85 PSI]

### Concentrated additive injection

| ■ D 07 RE 125 | ■ D 07 RE 5 |
|---|---|
| 0.0075 - 8.75 l/h [0.0042 - 4.93] US Fl oz/min | 0.04 - 38.5 l/h [0.0225 - 21.8] US Fl oz/min |

*For operating unit with other fluids than water, please contact us.

A unique technology
associating all dosing functions

### Dosing Technique

Non-electric proportional

### Energy Source

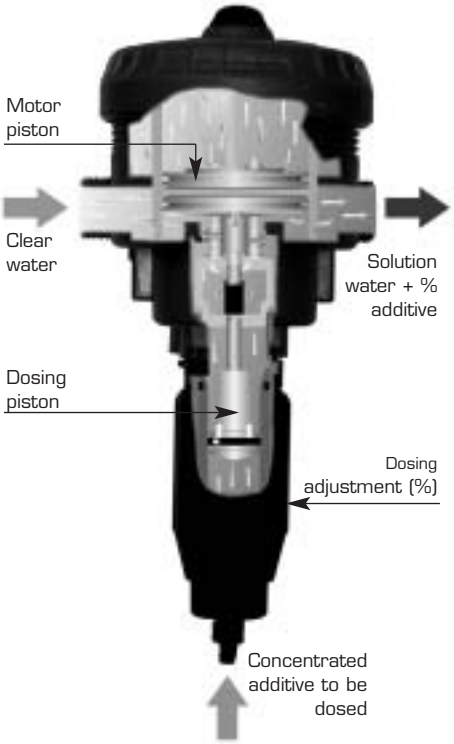
Water flow and pressure

### Package contents

- 1 Compact Dosatron
- 1 wall bracket
- 1 transparent suction tube
  175 cm long [69"],
  ø 6 x 9 mm [1/4"id x 3/8" od]
- 1 owner's manual

## Operating principle

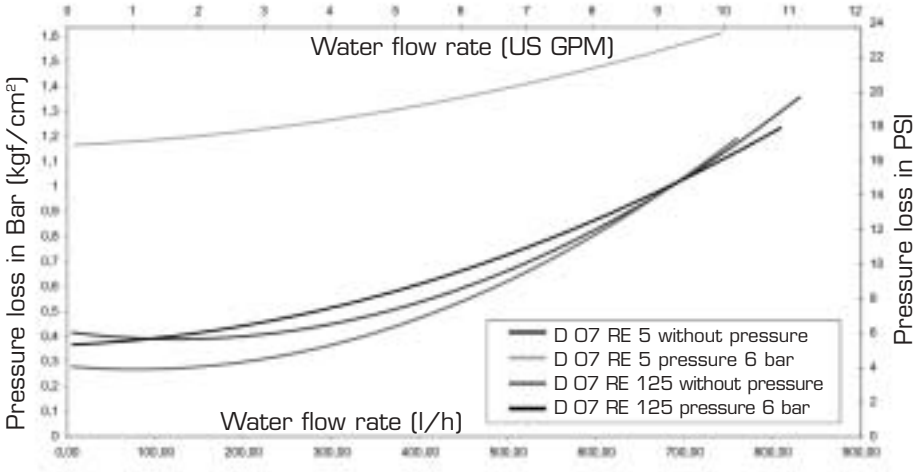
Installed directly in the water supply line, the Dosatron operates by using the flow of water as the power source. The water activates the Dosatron, which takes up the required percentage of concentrate directly from the container and injects it into the water. Inside the Dosatron, the concentrate is mixed with the water, and the water pressure forces the solution downstream. The dose of concentrate will be directly proportional to the volume of water entering the Dosatron, regardless of variations in flow or pressure, which may occur in the main line.



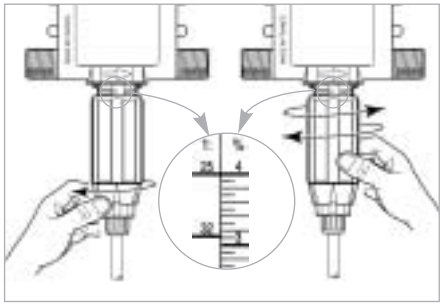

## Specifications

| | |
|---|---|
| **General** | |
| - Maximum operating water temperature | 40°C [104°F] |
| - Minimum operating water temperature | 5°C [41°F] |
| - Dosing rate | i.e. Adjustment at 1% = 1 : 100 = 1 V concentrate into 100 V water |
| - Average dosing accuracy | +/- 5% (Charts on demand) |
| - Repeatability | +/- 3% (API Standard) |
| - Pressure loss | 0.3 – 1.4 bar [4.35 – 23.3 PSI] |
| **Other integrated functions** | |
| - By-pass | yes |
| - Inlet/outlet connections | 3/4" M : BSP-NPT ø 20 x 27 mm |
| - Built-in airbleeder | yes |
| **Motor** | |
| - Motor | hydraulic piston |
| - Hydraulic motor capacity | 0.225 l [0.060 US Gallons] (1 cycle) |
| **Dosing** | |
| - Injection | internal |
| - Dosing plunger | simple effect, injection on the upstream |
| - Injection check valve | spring-loaded cone |
| **Suction** | |
| - Self-priming | yes |
| - Maximum viscosity of concentrate | 400 cSt at 20°C [68°F] |
| - Max. vertical or horizontal suction of the concentrate | 4 m [13ft] |
| - Strainer | yes – foot strainer with weight |

## Pressure loss curves




## Adjusting the injection rate



## Standard material

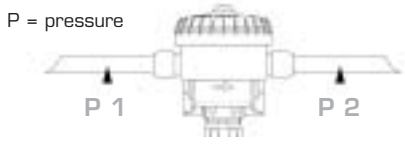
Housing: polypropylene, EPDM

Motor piston : polypropylene, peek, stainless steel, teflon, EPDM HT

Injection area: polypropylene, polyethylene, hastelloy (check valve spring)

Injection hose: PVC

**Note:** the Dosatron Compact is equipped with a security valve which will open and let the water flow through in case of inopportune stop of the motor. This security-"bypass" needs a differential pressure of 1.5 bar in order to engage.




P 1 - P 2 ≥ 1.5 bar [21 PSI]

## Installation

Refer to local water regulations, prior to installing your Dosatron.

To optimize your Dosatron, we advise to:

- Install a filter (300 mesh - 60 microns) upstream, depending on your water quality.
- Change the dosing seals at least once a year, depending on its use.
- Install the Dosatron Compact taking into consideration the direction of the water flow (arrow on the pump body), otherwise the security valve might move and damage the dosing unit.
- Rinse as often as possible with clear water.
- Turn off the water supply and allow the pressure to drop to zero before adjusting the injection rate.
- Install necessary protections for excess flow, excess pressure and water hammer (anti-hammer flow/pressure and anti-siphon device).
- Install a flow reducer upstream of the dosing unit, as the flow from a water supply is in general higher than 700 l/h.

For all further installation advice, please contact us.

These options allow adapting your Dosatron to your needs. Contact our technical service to help determine what option you may need.

## Available options

■ : option ● : standard ★ : not available for this model

### Optimized compatibility

- ■ AF: Recommended seals for alkaline concentrate
- ■ VF: Recommended seals for acid concentrate
- ■ Injection hose: Special material hose and foot strainer available

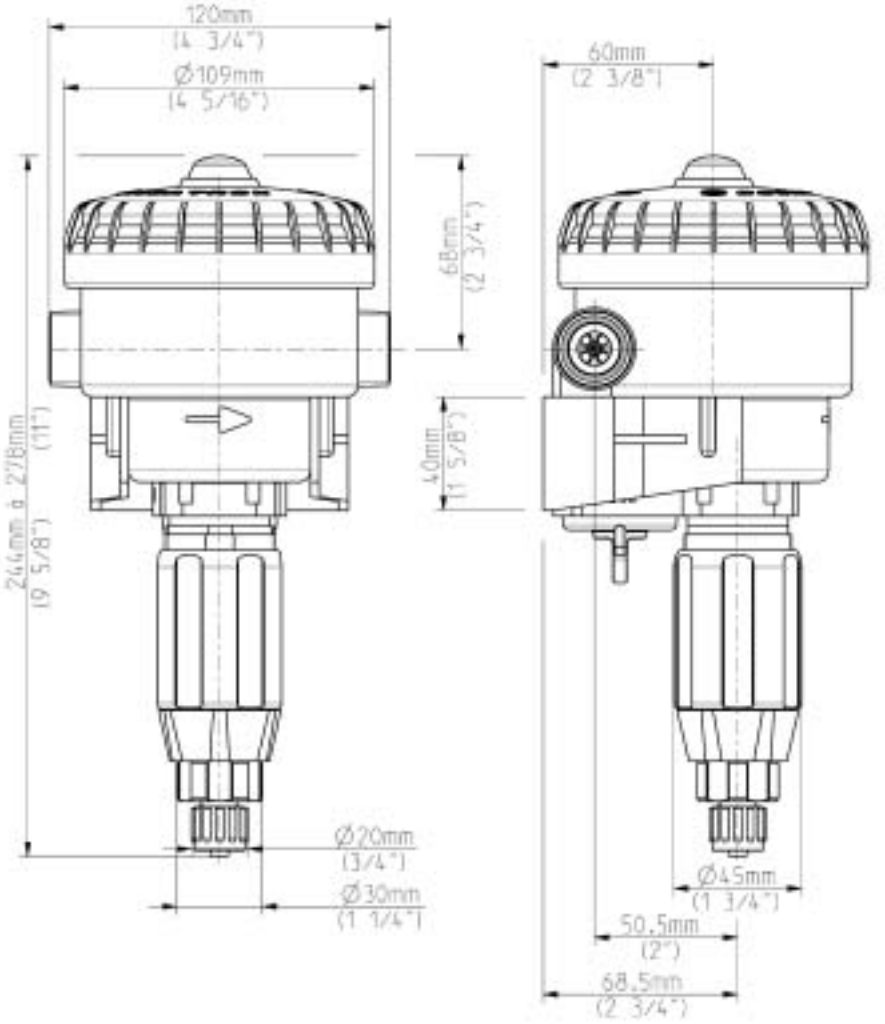
### Optimized installation

- ■ BP : integrated by-pass

- ■ Other: please contact us

Each Dosatron unit is factory tested.

## Dimensions




## Size

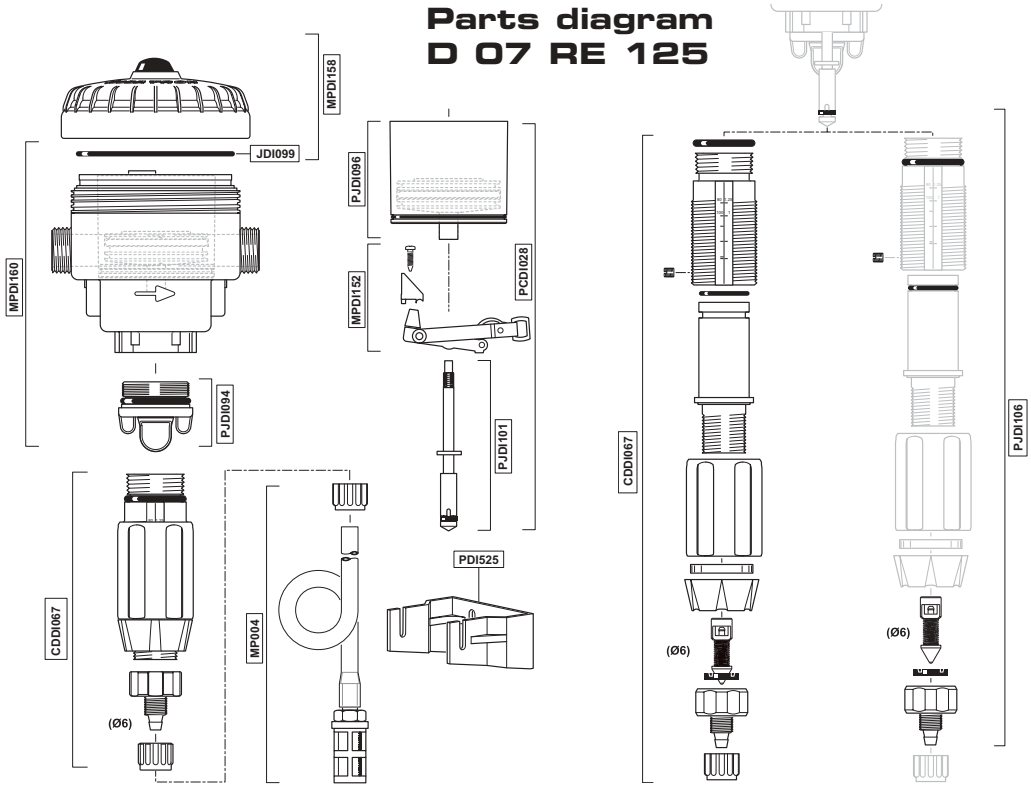
### Package size

16 x 33 x 18.5 cm
(6 5/16" x 13" x 7 1/4"])

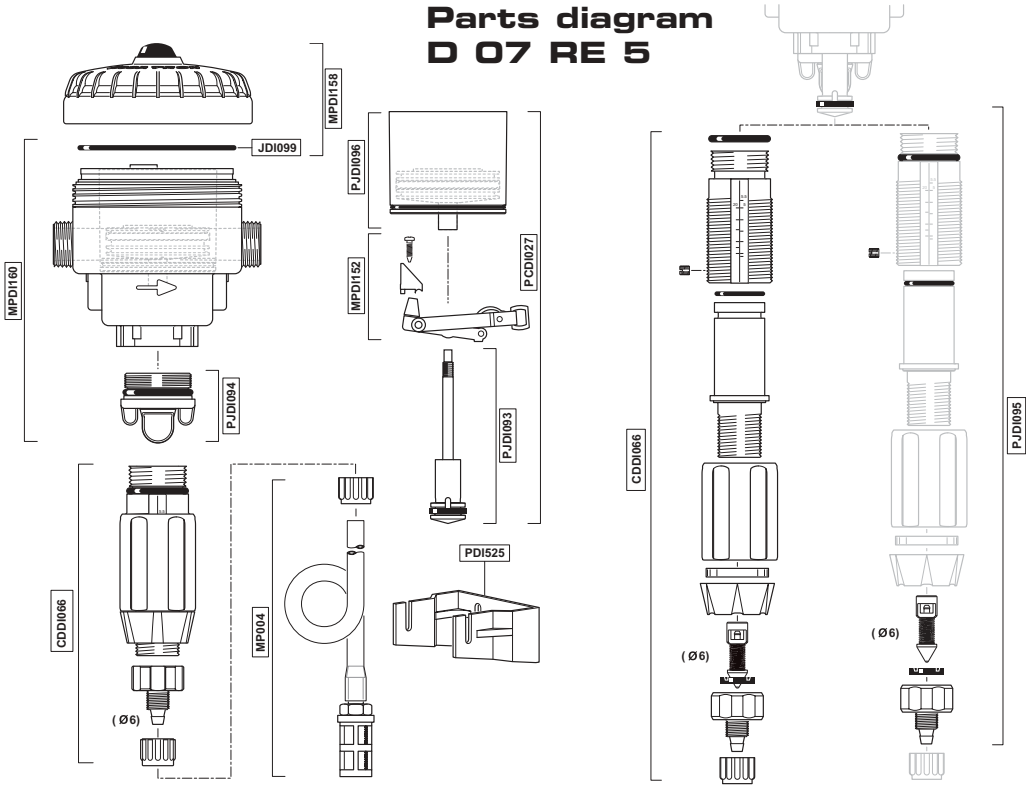
### Package weight

1 kg
[2.2 us lbs]

# Parts diagram
# D 07 RE 125




# Parts diagram
# D 07 RE 5




CUSTOMER SERVICE - SERVICE CLIENTÈLE

FT/COMPACT-GB/11/05

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