

Chlorine Dioxide Generator



LOTUS AIR 10



LOTUS AIR 30/60



“LOTUS AIR”

The LOTUS AIR system produces, doses and controls Chlorine Dioxide for water disinfection. Chlorine Dioxide is produced from diluted base chemicals: acid-chlorite process by Hydrochloric Acid (HCl 9%) and Sodium Chlorite (NaClO₂ 7,5%). Chlorine dioxide produced by LOTUS AIR is stocked into a tank and then dosed proportionally to the request. Injection is **multi-point** and dosing is **proportional** to the volumetric flow rate.

Chlorine dioxide is produced in a **BATCH process**.
The reaction process takes place at **ATMOSPHERIC PRESSURE**.

An active carbon filter prevents from potential exhalations.

LOTUS AIR is designed so that the reaction to produce chlorine dioxide takes place in a reaction chamber.

A **multifunction valve** guarantees the safety of the process.

LOTUS AIR system has got:

- LOTUS AIR control instrument;
- reaction chamber at 4 filling levels;
- storage tank at 2 filling levels;
- HCl (red) and NaClO₂ (blue) metering pumps;
- pump for Chlorine Dioxide;
- Chlorine Dioxide solenoid valve;
- water solenoid valve;
- carbon filter;
- 2 LASP4 (LASP4/V40) suction lances with level probe and coloured nuts. For 30 litres tanks;
- 1/2" injection valve;
- MFKT/V multifunction valve.

GAS SENSOR OPTION

LOTUS AIR with gas sensor detection.

ADVANTAGES

- › Reaction at ambient pressure
- › Injection multi-point
- › No emission
- › Diluted chemicals

FUNCTIONS

- › BATCH chlorine dioxide production
- › Multi-point and proportional dosing
- › Alarms: products, water, emptying
- › Water meter input
- › Stand-by input
- › Real time production data
- › Service due date
- › ERMES communication
- › ClO₂ concentration in water measurement and control
- › mA output

CARATTERISTICHE

- › ClO₂ concentration: 2 gr/l (2%)
- › HCl (red), NaClO₂ (blue) and ClO₂ (grey) metering pumps
- › MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed
- › Double chamber: reaction and storage enclosure or fiberglass (Lotus Air 30/60)
- › IP65 protection (NEMA4x) of LOTUS control instrument and pumps
- › Wheel control for easy programming
- › Working temperature: 0/45°C (32/110°F)

Chlorine Dioxide Generator

| | LOTUS AIR 10 | LOTUS AIR 30 | LOTUS AIR 60 |
|--|--|--|--|
| ClO ₂ max capacity (g/h) | 10 g/h | 30 g/h | 60 g/h |
| ClO ₂ max capacity (g/day)* | 240 g/day | 720 g/day | 1440 g/day |
| Max chemicals consumption (l/h) | 0,250 l/h (HCl) 0,250 l/h (NaClO ₂) | 0,750 l/h (HCl) 0,750 l/h (NaClO ₂) | 1,5 l/h (HCl) 1,5 l/h (NaClO ₂) |
| Dilution water consumption (l/h) | 5 l/h | 15 l/h | 30 l/h |
| Max pressure (feed water) | 2 bar | 3 bar | 3 bar |
| Max pressure ClO ₂ pump (bar) | 8 bar | 5 bar | 5 bar |
| Concentration (g/l) | 2 g/l | | |
| Power supply | 230 VAC (190-265 VAC) 115 VAC (90-135 VAC) | | |
| Maximum power consumption (W) | 60 | | |

* Max capacity (gr/day) is referred to a 100% capacity / 24h.

Optional accessories

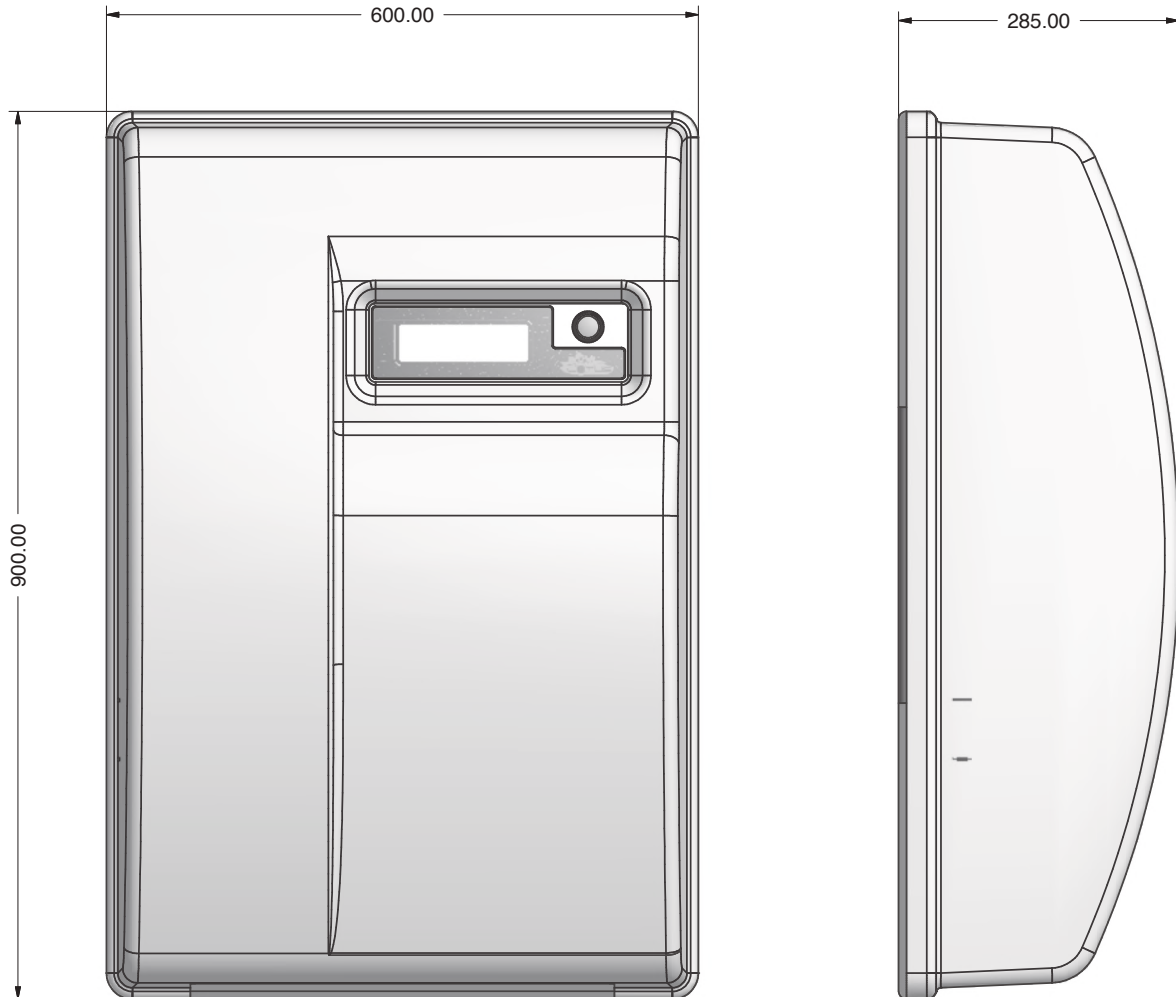
- Gas sensor
- Static mixer

Chlorine Dioxide Generator

LOTUS AIR10 Dimensions

[mm].

Weight: 55 kg



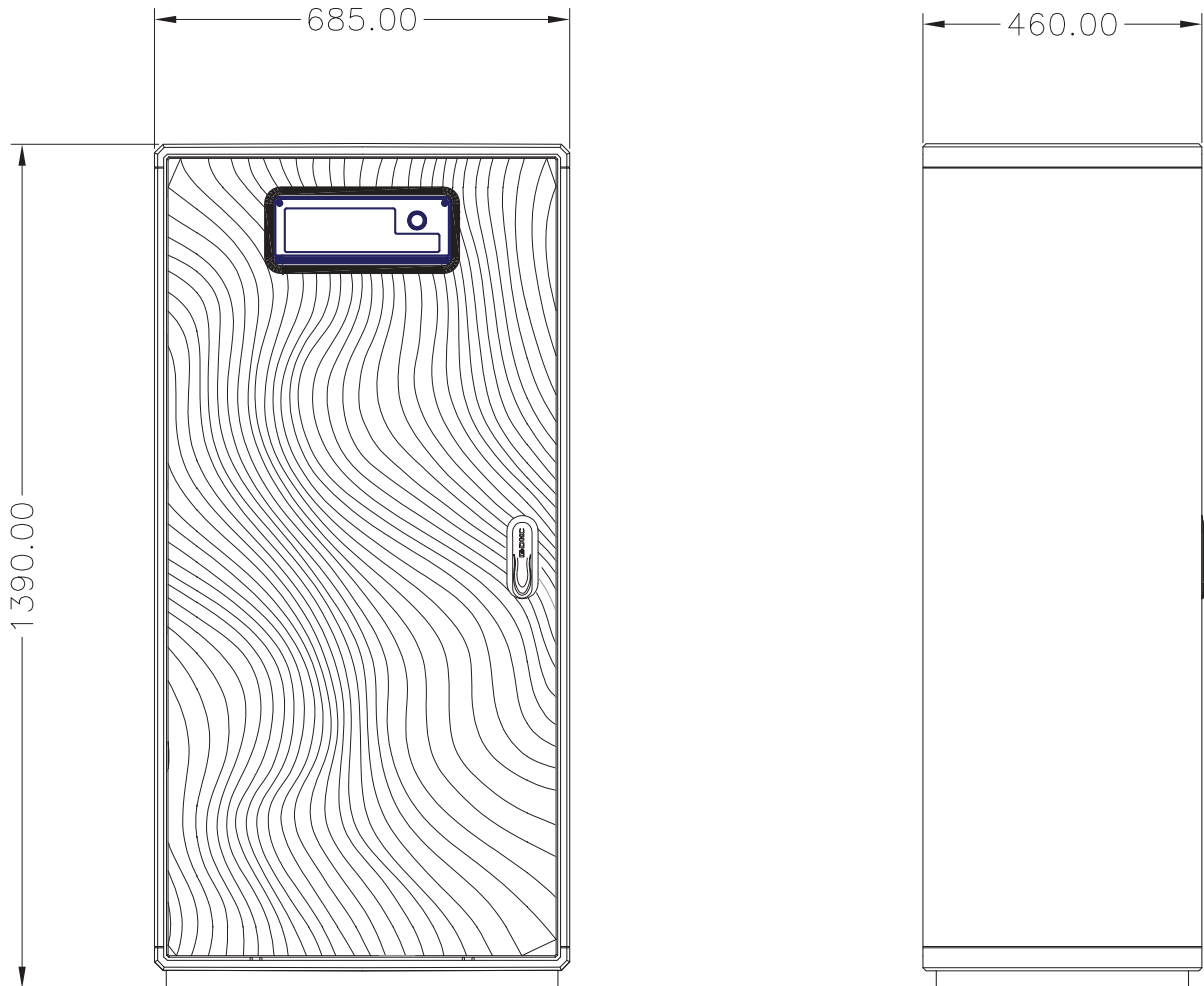
LOTUS AIR

Chlorine Dioxide Generator

Dimensions LOTUS AIR 30/60

[mm].

Weight: 85 kg



Chlorine Dioxide Generator



“LOTUS AIR” with probe measure

The LOTUS AIR with probe measure system produces, doses and controls Chlorine Dioxide for water disinfection.

It is equipped with a ClO₂ probe (SCL17 or SCL2) or an ORP probe (ERH), a probe holder and a filter.

Chlorine Dioxide is produced from diluted base chemicals: acid-chlorite process by Hydrochloric Acid (HCl 9%) and Sodium Chlorite (NaClO₂ 7,5%). Chlorine dioxide produced by LOTUS AIR is stocked into a tank and then dosed proportionally to the request.

Injection is **multi-point** and dosing is **proportional** to the volumetric flow rate.

Chlorine dioxide is produced in a **BATCH process**.

The reaction process takes place at **ATMOSPHERIC PRESSURE**.

An active carbon filter prevents from potential exhalations.

LOTUS AIR is designed so that the reaction to produce chlorine dioxide takes place in a reaction chamber.

A **multifunction valve** guarantees the safety of the process.

LOTUS AIR with probe measure system has got:

- LOTUS AIR control instrument;
- reaction chamber at 4 filling levels;
- storage tank at 2 filling levels;
- HCl (red) and NaClO₂ (blue) metering pumps;
- pump for Chlorine Dioxide;
- Chlorine Dioxide solenoid valve;
- water solenoid valve;
- carbon filter;
- 2 LASP4 (LASP4/V40) suction lances with level probe and coloured nuts. For 30 litres tanks;
- 1/2" injection valve;
- MFKT/V multifunction valve.
- stainless steel filter
- measuring probe (ERH or SCL17 or SCL2) with probe holder

GAS SENSOR OPTION

LOTUS AIR with gas sensor detection.

ADVANTAGES

- › Reaction at ambient pressure
- › Injection multi-point
- › No emission
- › Diluted chemicals

FUNCTIONS

- › BATCH chlorine dioxide production
- › Multi-point and proportional dosing
- › Alarms: products, water, emptying
- › Water meter input
- › Stand-by input
- › ClO₂ probe reading (Lotus AIR SCL2 - Lotus AIR SCL17)
- › Temperature probe reading (probe and accessories not included)
- › mV probe reading (Lotus AIR ERH)
- › Real time production data
- › Service due date
- › ERMES communication
- › ClO₂ concentration in water

measurement and control

- › mA output

FEATURES

- › ClO₂ concentration: 2 gr/l (2%)
- › HCl (red), NaClO₂ (blue) and ClO₂ (grey) metering pumps
- › MFKT/V multifunction valve as pressure, safety, anti-syphon and bleed
- › Double chamber: reaction and storage
- › ASA (Acrylonitrile Styrene Acrylate) enclosure or fiberglass (Lotus Air 30/60)
- › IP65 protection (NEMA4x) of LOTUS control instrument and pumps
- › Wheel control for easy programming
- › Working temperature: 0/45°C (32/110°F)



LOTUS AIR 10 with probe measure



LOTUS AIR 30/60 with probe measure



Chlorine Dioxide Generator

Lotus AIR ERH

With ORP probe "ERH".

Lotus AIR SCL2

With Chlorine Dioxide probe "SCL2" (cold water).

Lotus AIR SCL17

With Chlorine Dioxide probe "SCL17" (hot water).

| Features | Models | LOTUS AIR 10 ERH | LOTUS AIR 30 ERH | LOTUS AIR 60 ERH |
|--|--------|--|--|--|
| | | LOTUS AIR 10 SCL2 LOTUS AIR 10 SCL17 | LOTUS AIR 30 SCL2 LOTUS AIR 30 SCL17 | LOTUS AIR 60 SCL2 LOTUS AIR 60 SCL17 |
| ClO ₂ max capacity (g/h) | | 10 g/h | 30 g/h | 60 g/h |
| ClO ₂ max capacity (g/day)* | | 240 g/die | 720 g/die | 1440 g/die |
| Max chemicals consumption (l/h) | | 0,250 l/h (HCl) 0,250 l/h (NaClO ₂) | 0,750 l/h (HCl) 0,750 l/h (NaClO ₂) | 1,5 l/h (HCl) 1,5 l/h (NaClO ₂) |
| Dilution water consumption (l/h) | | 5 l/h | 15 l/h | 30 l/h |
| Max pressure (feed water) | | 2 bar | 3 bar | 3 bar |
| Max pressure ClO ₂ pump (bar) | | 8 bar | 5 bar | 5 bar |
| Concentration (g/l) | | 2 g/l | | |
| Power supply | | 230 VAC (190-265 VAC) 115 VAC (90-135 VAC) | | |
| Maximum power consumption (W) | | 60 | | |

* Max capacity (gr/day) is referred to a 100% capacity / 24h.

Optional accessories

- Gas sensor
- Static mixer

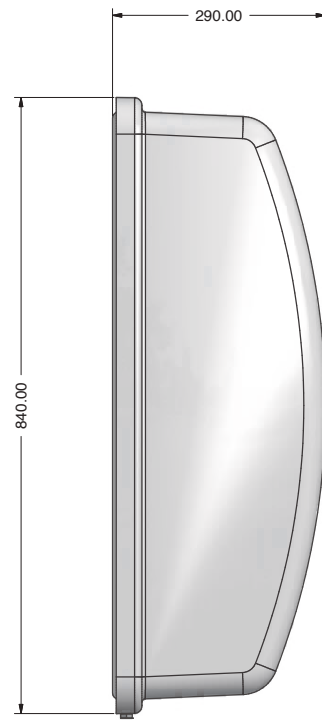
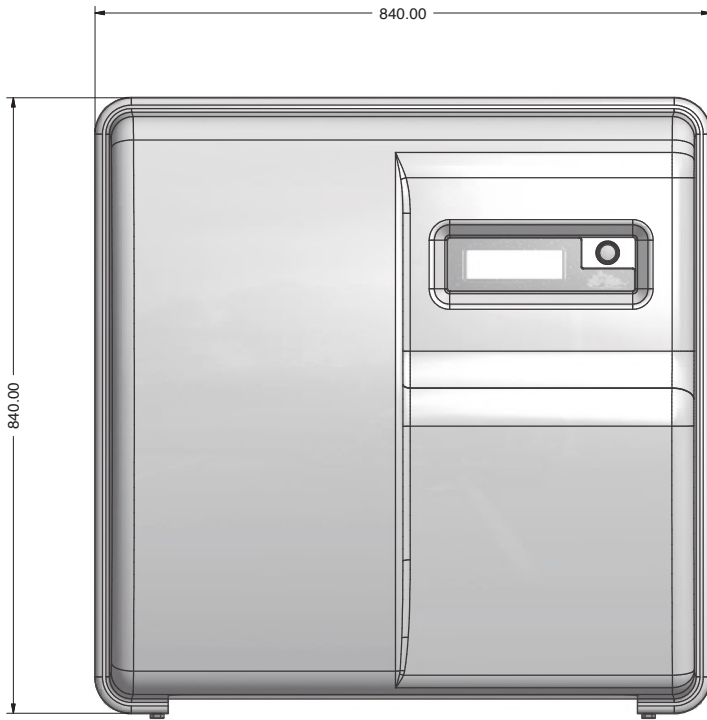
LOTUS AIR

Chlorine Dioxide Generator

Dimensions LOTUS AIR10 WITH PROBE MEASURE

mm.

Weight: 60 kg



LOTUS AIR

Chlorine Dioxide Generator

Dimensions LOTUS AIR30/60 WITH PROBE MEASURE

mm.

Weight: 90 kg

