



UV-C & O3 combined disinfection system

DATA SHEET COMVAT DUO₃

UV-C ULTRAVIOLET GENERATOR

UV TUBES POWER	825W
EFFECTIVE POWER ON THE UV-C SPECTRUM (254nm)	>250W
MAIN WAVELENGTH	254nm
NUMBER OF EMMITERS	15 high quality tubes (European manufacturing)
ACTION RADIUS	4,5m (distance that guarantees a power density >50uW/cm ² with tubes at the end of life)
MAXIMUM SIZE OF STAY TO DISINFECT	50-60m ² approximately. Bigger sizes can be done in partial cycles.
DISINFECTION TIMING	6 to 12min (depending on room's size)
UV-C TUBES LIFESPAN	15.000 hours
DEFINITION OF LIFESPAN:	When real emission has decreased by 20% compared to the nominal

OZONE GENERATION

CONVERSION of O ₃ :	Up to 15gr/hour
REACTOR TYPE:	Tubular, capacitive
DISINFECTION TIMING:	15 to 60min (depending on room's volume)
REACTOR LIFESPAN	2 to 3 Years, depending on the use

SECURITY

SECURITY SYSTEMS

Delayed activation.
Presence sensors with immediate stop of the process in progress and acoustic alarm (siren).
O₃ environmental concentration meter.
Light meter of the status of the tubes.
Light signals of the process stage:
Red: UVC or O₃ under work.
Amber: UVC or O₃ deactivated but concentration of O₃ in the environment is higher than 0.1ppm
Green: Entry allowed.
Emergency Stop

OPERATING MODES

UV-C Mode: Light disinfection.
O₃ Mode: Ozone disinfection. O₃ recombination will take around 45 minutes.
"Shadow Less" Mode: UVC disinfection followed by an O₃ cycle.

CONTROL

PRIMARY CONTROL Via Tablet using a very intuitive software (no requiring any special training for its use)
MANUAL CONTROL From the panel's device (in case of dead battery, broken or lost tablet)

GENERAL FEATURES

COOLING SYSTEM By air
POWER SUPPLY 220-240 Vac, 50/60 Hz (115V on demand)
CONSUMPTION 1.000W
GENERAL FUSES 6.3A 250V (220-240 Vac)
OPERATING TEMPERATURE RANGE 20-25°C
ENVIRONMENTAL HUMIDITY 45-90%
OPTIMAL DISINFECTION HUMIDITY Higher than 55%
OPERATING ENVIRONMENTAL PRESSURE 800 a 1.050 (mbar)
STORAGE / TRANSPORT TEMPERATURE 5-45°C
APPROXIMATE MEASURES 50x50x160cm (width, depth, height)
APPROXIMATE WEIGTH 50 kg
CABLE LENGTH 5m

USE : Disinfection of rooms **without presence of people.**

EQUIPMENT IN ACCORDANCE WITH the provisions contained in:

- Machinery **Directive 2006/42 / CE** (R.D. 1644/2008)
- RED **Directive 2014/53 / EU** on the commercialization of radio equipment
- **Directive 2011/65 / EU RoHS**, on restrictions on the use of certain dangerous substances in electrical and electronic equipment
- **Directive 2002/96 / CE WEEE** on Waste Electrical and Electronic Equipment.

Manufactured in accordance with the provisions and requirements of the following European Standards:

- **EN61000-6-1, EN61000-6-3** for electromagnetic compatibility.
- **EN60204-1** for the safety of electrical equipment
- **EN12100** for risk assessment
Spanish standard **UNE 400201: 1994**. Safety recommendations in ozone generators for air treatment.
- **EN 301 489-1** and **EN 301 489-173** for electromagnetic compatibility.
- **EN62368-1** for safety

MANUFACTURING IN ACCORDANCE WITH STANDARDS EN61000-6-1, EN61000-6-3 AND EN6024-1
ALLOWS THEIR USE IN MEDICAL AND HOSPITAL ENVIRONMENTS