

GAS RELEASE SYSTEM

The oil testing laboratories environment presents a number of risks inherent to the type of sample. The devices for the analysis of samples should **ensure minimal risk conditions** at work, critical premise in the development of devices for this application in Ortoalresa.

Centrifugation processes for the determination of water and sediment in oil, require an organic solvent which, reacting with the sample and heating of the equipment, generates aerosols. In order to remove this gas from the centrifuge and take it to a safe area, Ortoalresa has designed **GRS (Gas Release System)** as an accessory for all of the Digtor 21 C series centrifuges. This accessory creates inside the centrifuge chamber, on its top when it is locked, through a pressure intake, allowing suction from atmosphere high in aerosols. This atmosphere is piped through the GRS up to its exit, where it can be treated in isolation. The whole circuit is continuously monitored by the equipment, which will lead the right moment to operate the system. Moreover, it is only required the presence of a compressed air supply of 2 bar pressure, in order to create a 10l/min suction, sufficient to perform the suction of the centrifuge inside chamber volume every 5 min.

GRS **main functions** are:

- Decreasing gas concentration during operation, and therefore the risk of explosion.
- Eliminating the user's health risk by inhalation of produced vapors.
- Avoiding gas dispersion into laboratory environment.

User friendliness

- It only requires a compressed air supply.
- It has 4 connections: A compressed air inlet, an air inlet for air removed from the equipment, an atmosphere outlet to a safe area, and the control input from the equipment.
- Operation pilot light.
- Air inlet pressure regulator.
- Inlet pressure gauge.
- Operation controlled by core equipment.

Features

- Setting up at a 2 bar pressure, creates a 10 l/min suction.
- 0.2 bar gauge accuracy.
- Max 8 bar inlet pressure.
- Fast inlet and outlet connections.
- Suction capacity: minimum twice total chamber volume in 10 min.

Safety

- **Hazardous gases input is not required.**
- Low noise level <40 dB.
- Powered only by rotor in motion and lid blocked.
- Low power.

Versions

Code	Dimensions (mm)(w x d x h)			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Consumption (W)
CP 001	139	214	125	3	220-240	50-60	20
CP 004	139	214	125	3	110-120	50-60	20

* The GRS must be fitted only on those centrifuges provided of pre-installation

