

SGTA 5000 Air generation and treatment section

Made in a soundproof metal cabinet with wheels, it can be moved and installed easily. Powered by 220 V AC, it is able to provide the user with a maximum continuous flow of 5000 L/h with a typical relative humidity below 1.5%.

Air generation:

Air is generated by a 2 CV single-phase motor axially connected to a 4 boxer-cylinder compression unit preceded by a muffler and anti-dust filter and followed by a cooling battery. The rated unit- delivery is 11,000 L/h.

**Drying:**

The air is dried in a first phase by a coalescence filter and then by two self-regenerating columns with molecular sieves that guarantee a relative humidity level well below 5% in all ambient conditions.

Tank:

The air released from the drying unit is stored in a 20L stainless steel tank at a pressure that ranges from 4 to 6 Bars.

Outlet:

The air in the tank is taken to the outlet via a mechanical regulator that stabilises the pressure value.

**Control:**

The section is completely autonomous and piloted by an internal microprocessor that controls its operation via a series of sensors. The measurements taken include: tank pressure, outlet pressure, relative humidity, head temperature etc. etc.

All the operational parameters and measurements are visible on a display on the console. In addition to the display, a series of three-colour LEDs immediately indicates if there are any irregularities.

The section can work both independently or when connected to a control section (SDC) via a serial data-interface. The data interface enables both the reading of operational parameters and measurements and their programming.

**Main features:**

AC power:	220V 15A
DC power	48/60 V 1 A
Size :	600L x 500P x 1100H
Weight	95kg
Outlet pressure	0 - 2000 hPa adjustable
Working delivery	5000 NL
Outlet humidity	<< 5% (typically 1%)
Data interface	RS 485 9600 bit/s