

HAUG Ionisation – for the removal of electrostatic charges



Illustration 1: Top Air System

Top Air System

The **HAUG Top Air System** supplies suction air and high voltage for systems to de-dust tracks with a combined ionisation system. The extraction air supply is permanently monitored by the **Top Air System** and kept in the optimum working range.

The HAUG discharge power supply unit **EN 9 Sine** supplies the ionisation bars with high voltage and monitors the complete ionisation system.

Operating Principle

The programmable logic controller (PLC) monitors all incoming and outgoing air currents:

- The extraction volume current of the high pressure ventilator is regulated according to the differential pressure measurement.
- The controls determine the degree of contamination in the air filter using sensors in the extraction channel and compensate for the increasing level of contamination to keep the extraction output constant.

Variable air inlets on the suction and pressure side make it easier to integrate into existing (fan) air systems. The input and output for the compressed air supply are fitted with couplings.

The integrated HAUG discharge power supply unit **EN 9 Sine** offer 4 high voltage connections for ionisation bars and integrated functional monitoring.

The operating status of the air supply and the ionisation system can be seen on the **Top Air System** display. Faults can be reported to a machine control system.

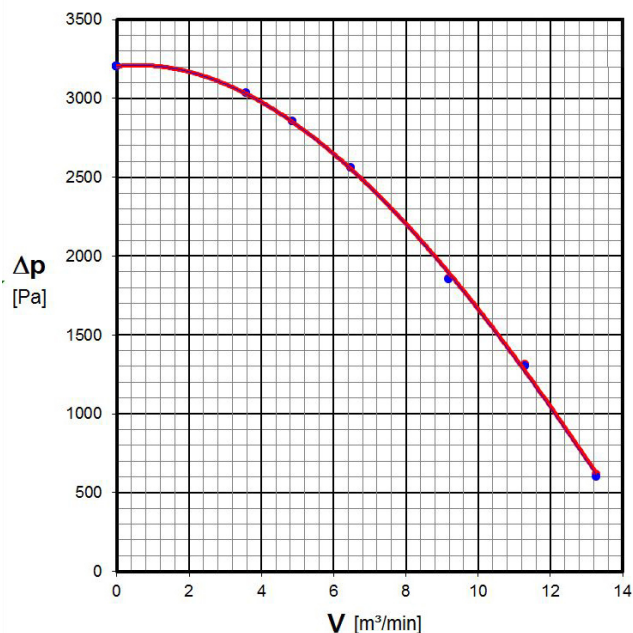


Illustration 2: Air pressure diagram

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Properties

- PLC monitors the incoming and outgoing suction air currents.
- HAUG discharge power supply unit with 4 HV connections and function monitoring
- Integration into machine controls
- System can be moved on rollers
- Various filter classes available
- The customer can change the filter

Technical data ¹⁾

Type:		Top Air System
Order no.:		04.0910.000
Air extraction system	Dimensions: (L x W x H)	855 x 568 x 950 mm
	Operating voltage:	400 V _{AC}
	Power consumption max.:	2.5 kW
	Weight approx.:	116 kg
	Controls:	Siemens Logo
• Extraction ²⁾	Volume current max.:	13 m ³ /min
	Pressure difference max.:	3200 Pa
	Sound pressure level:	74 dB(A)
	Suction connection Ø: <small>2x optionally</small>	50/70/80/100 mm
	Pressure connection Ø:	1x 150 mm
	Pre-filter filter class:	G4
	Fine filter filter class:	F9
• Compressed air	Input: <small>Coupling plugs nominal width</small>	1x 7.2 mm
	Output: <small>Coupling sockets nominal width</small>	3x 7.2 mm
	Compressed air maintenance unit:	3/4"
Ionisation	Discharge power supply unit:	EN 9 Sine
	HV connections:	4
	Power consumption P _{max.} :	80 VA
	Output voltage approx.:	6.7 ± 1 kV _{AC}
	Output short circuit current:	≤ 5 mA
Operating temperature:		+5 — +45 °C
Storage/transport temperature:		-15 — +60 °C

¹⁾ Technical details subject to change! / ²⁾ If required, can also be fitted with other filter classes.

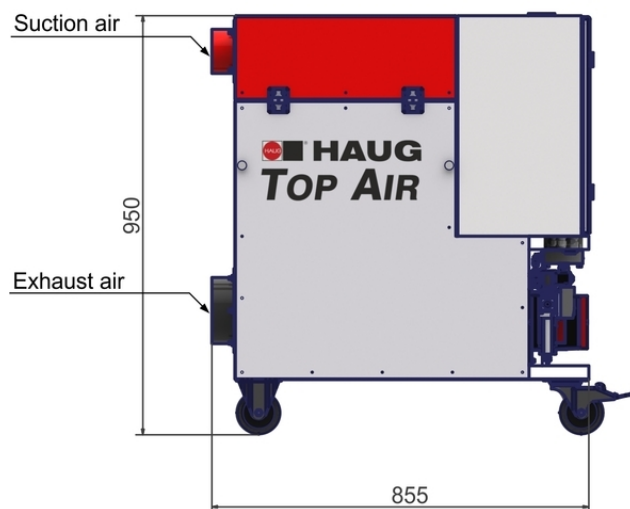


Illustration 3: Top Air System, engineering drawing

