

acp CO₂-Cleaning

Environmental conditions & connections

>> Required compressed air quality

To operate **one nozzle**, the CO₂ cleaning system requires a compressed air supply with application-specific process parameters, e.g. at **6 bar working pressure, a withdrawal capacity of approx. 300 l/min**

Compressed air quality:

- Oil-free with a pressure dew point of -20 °C
- Ideal quality: [1:3:1:] according to ISO 8573:2010

Transfer point: Ball valve

>> Required CO₂ quality

Carbon dioxide (CO₂) technical grade liquid supply. The CO₂ supply must be suitable for the withdrawal of the liquid phase (e.g., through a dip tube bottle)

Medium conditions for CO₂ liquid supply:

- With a tank supply: 55 bar - 60 bar at +10 °C
- If bottles are supplied, they must have the same temperature as the system (no installation outside the building when dispensing)

Transfer point: Ball valve

Extensions (optionally available)

External suction

Centrifugal fan continuously adjustable between 0 and approx. 4 m³/min

- Integrated filter (pocket filter ISO ePM 2.5 60%)
- Width x depth x height = 60 x 35 x 83 cm (incl. wheels)
- Supply and exhaust air sockets with an outside diameter of 100 mm

Compressed Air dehumidifier

- Oil-free with a pressure dew point of -20 °C
- Ideal quality: [1:3:1:] according to ISO 8573:2010

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CO₂ snow blasting is the preferred method of removing contamination at the contacts of battery cells. It is gentle to the surface of the cell contacts and can be carried out quickly and easily before each bonding step.

The system itself consists of a jet nozzle, the JetBox itself and high-pressure CO₂ gas from a conventional gas tank.

