JetModule High Purity
with quattroClean® technology

advanced clean production
acp-systems.com

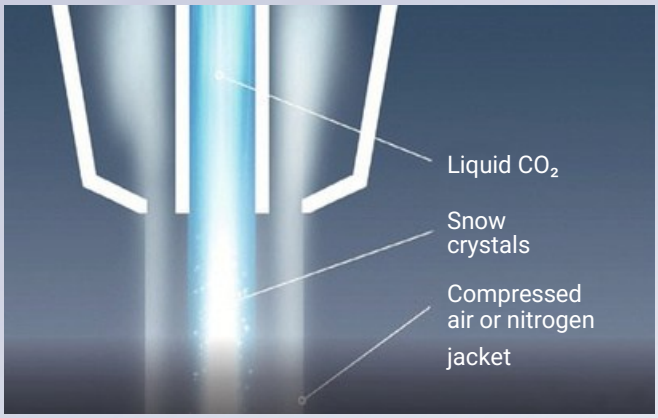
Cleanroom optimized

The JetModule High Purity for integration in production systems is operated with the quattroClean® snow-jet technology based on CO_2.

For a superior cleaning effect using the most efficient, reliable & stable snow-jet technology

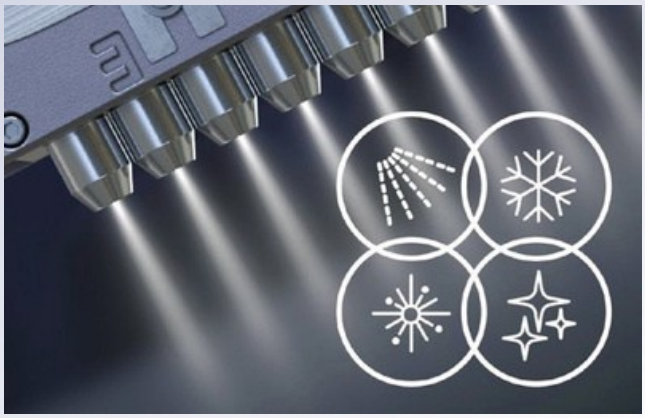
Description and features

- CO_2 snow-jet module to integrate the cleaning process into customer production processes
- Media cabinet for preparation and supply of CDA and CO_2 and application specific nozzle design
- Control of actuators and sensors into higher level system via integrated I/O-terminal in the control cabinet
- Hose package connects the nozzle technology to the media cabinet
- Safe monitoring of the CO_2 concentration in the vicinity and automated shutdown of the CO_2 supply if the limit is exceeded
- Integrated monitoring of the snow-jet cleaning process



Two-component concentric nozzle

acp systems AG's advanced and patented dual media nozzle technology is unique and has significant advantages over alternative systems.



The quattroClean® cleaning process comprises four stages: impulse transmission, rapid cooling, sublimation and solvent rinsing.

For a closer look at how CO_2 snow-jet cleaning works, visit our website acp-systems.com, LinkedIn or YouTube channel.

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CO_2 snow-jet cleaning

Objectives in manufacturing
Dry, particle and film free products

Features & benefits
- Dry, gentle cleaning
- Fast & efficient (no drying cycle required)
- Residue free
- Selective
- No chemicals or wastewater
- Kind on the environment (recaptured CO_2)
- Manual or automated

- Semiconductor
- Micro & Precision Engineering
- Electronics & Microelectronics
- Electromobility
- Medical Technology
- Aerospace

The patented quattroClean® snow-jet nozzle technology from acp systems can clean sensitive surfaces on all kind of materials. The supersonic dual component quattroClean® technology provides precise and repeatable cleaning results with a minimum consumption of CO_2 .

With the direct and continuous supply of high purity liquid CO_2, the process qualifies perfectly for integration into adaptable automated production systems.

High purity benefits

- The process is suitable for highly sensitive surface structures
- Highest specification of media supply technology for XCDA and CO_2
- Removing sub-µm particles and organic impurities
- Media filtration down to the sub-µm range
- Media-supply components in stainless steel and non-outgassing polymers
- Semiconductor industry approved components, e.g. process valves

Technical specification	JetModule High Purity
Nozzles	up to 3 single nozzles
Dimensions (H x W x D)	1.90 m / 0.80 m / 0.50 m
CO_2 supply (liquid)	Cylinder (dip tube) / tank, gas quality 4.5 (99,995%)
CO_2 consumption per nozzle	0.07 to 0.14 kg/min
XCDA	up to 10 bar
XCDA consumption per nozzle	0.2 to 0.5 m³/min
Power connection	400 V / 16 A
Cabinet material	stainless steel

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