

The Cumulus® CI-2 air assisted nozzle

Function

The CI-2 air assisted nozzle atomizes water or other water based fluids into a very fine spray. The mixing of the air and water is realized inside the nozzle and therefore very small droplets are possible. This fine spray evaporates quickly in the air, increasing the relative humidity. The CI-2 features self cleaning needles. Because the nozzle is air assisted, a compressor with sufficient capacity is required.



Main features

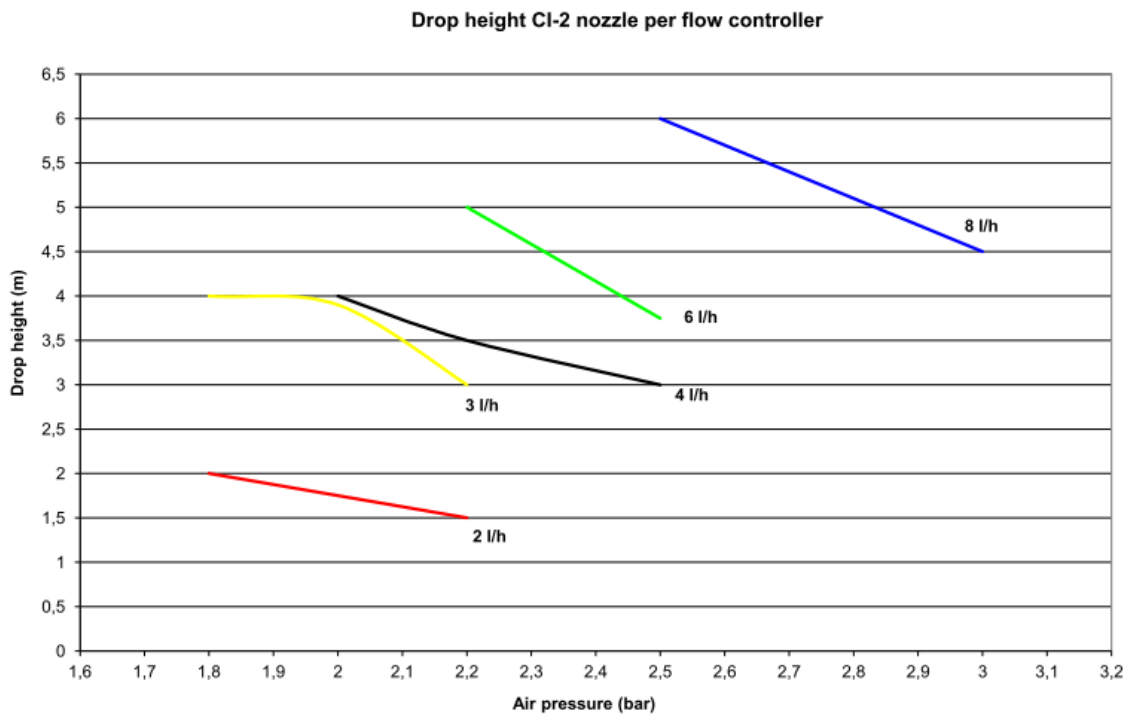
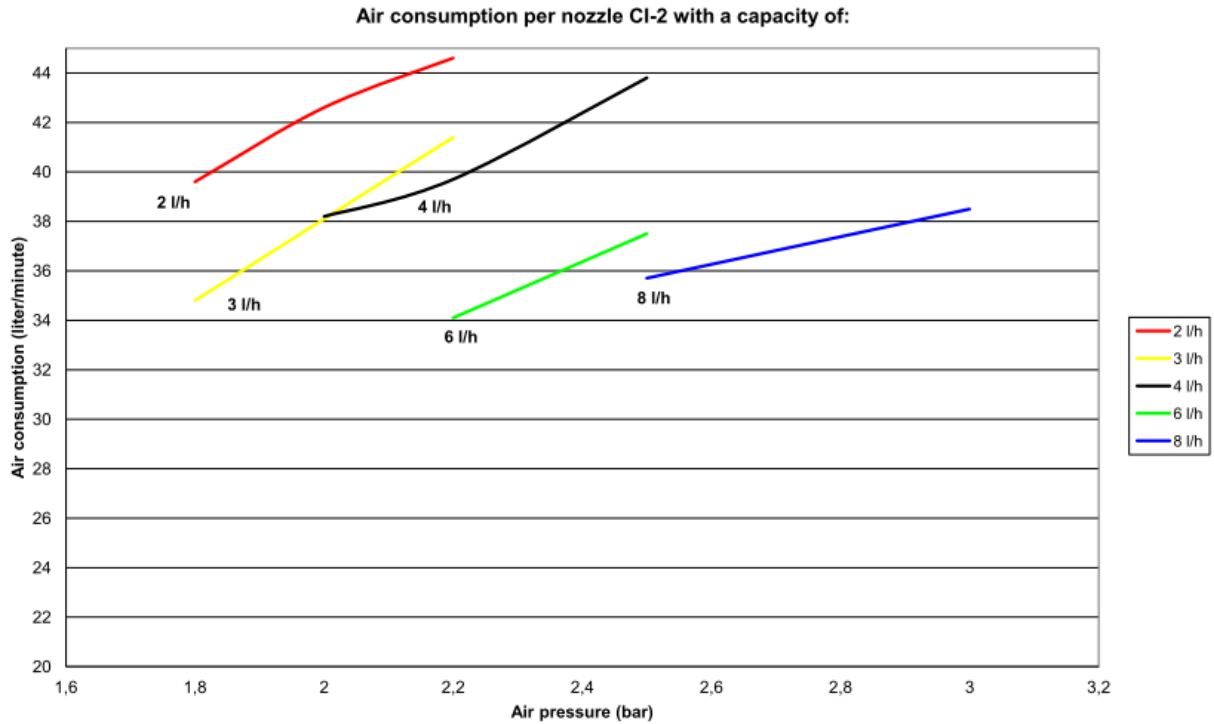
- Self cleaning patented concept
- Fully stainless steel
- Both water and air tube are closed off automatically
- Very reliable
- Low maintenance
- Long lifespan
- Water treatment not required
- Adjustable capacity (by flow controllers)
- Fast evaporation (small droplets)
- Low air consumption
- Easy to install without regard to relative installation heights
- Air assisted

Technical specifications

	CI-2 air assisted nozzle
Humidification capacity [l/hr]	0,5 - 12
Part number	3148
Dimensions [cm]	L 10,4, Ø 3,0
Weight [g]	410
Material	SST 304 (also SST 316 available)
Sound level [dB(A)]	79 dB(A)
Maximum Hardness water [German hardness]	approx. 12° dH
Minimum compressed air pressure [bar]	2.0
Minimum water pressure [bar]	2.3*
Maximum water pressure [bar]	4.0
Water inlet	1/8" BSP
Air inlet	1/8" BSP
Quality of compressed air	Oil free rest value 3 mg/m ³ Moist free rest value 0.5mg/m ³
Compressed air consumption [liter/minute]	42 (at 2 bar)
Expected Lifespan [years]	20
Can be refurbished	Yes
Compressor with enough capacity needed	Yes
Self cleaning	Yes
Connectable with control system	JetControl and LegioSafe
Non drip valve	Included



* The water pressure should always be 0.3 - 0.5 bar higher than the compressed air pressure to a maximum of 4.0 bar.



2 examples of process diagrams of a compressed air assisted humidification installation.

