

# MobyDick Cannon 90 S

Art. no. DCC-090S-0-000

Spraying unit with high-performance cone, MobyDick pump, filter unit, automatic swivel function and controls.



Illustrations may differ from the actual scope of delivery

## Cannon 90 S – a Cannon Line series model

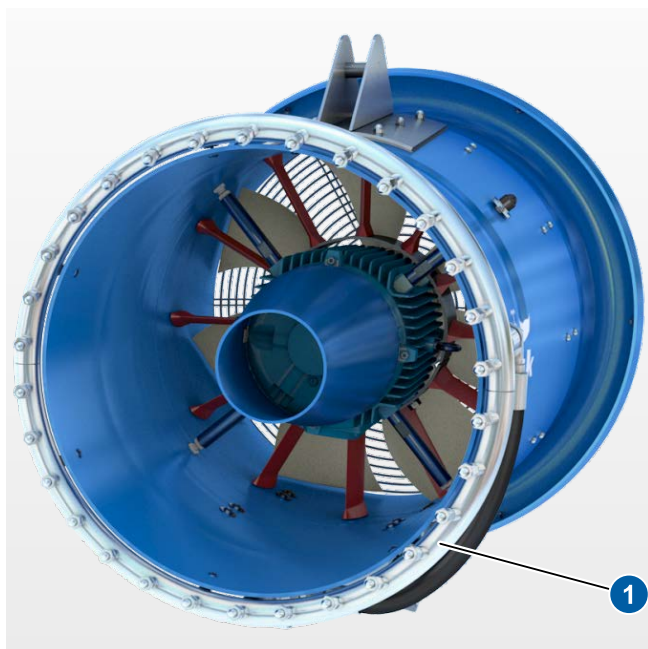
Cannon Line – Clean air for workers and the environment

The Cannon Line is a product group consisting of high-quality systems for dust binding. Based on the traditional MobyDick development highlights, all models provide intuitive operation and require minimal maintenance. At the systems' heart lies the unique high-performance cone (turbine) of fibre-reinforced plastic, whose aerodynamic form ensures an outstanding range of action with minimal noise emissions.

The Cannon S (Single) models all include all important functions for effective dust binding at an appealing price/quality ratio.

### Function description

MobyDick Dust Control systems operate on the principle of binding dust using tiny water droplets. A modern high-pressure pump combined with a powerful filter system, the special nozzles and the aerodynamically shaped high-performance cone (turbine) ensure an optimal droplet size and spread. These are directed at the dust source by the nozzle ring. There, they bind with flying dust particles and cause them to quickly fall to the ground, resulting in a marked reduction in dust that benefits the workers and the environment.

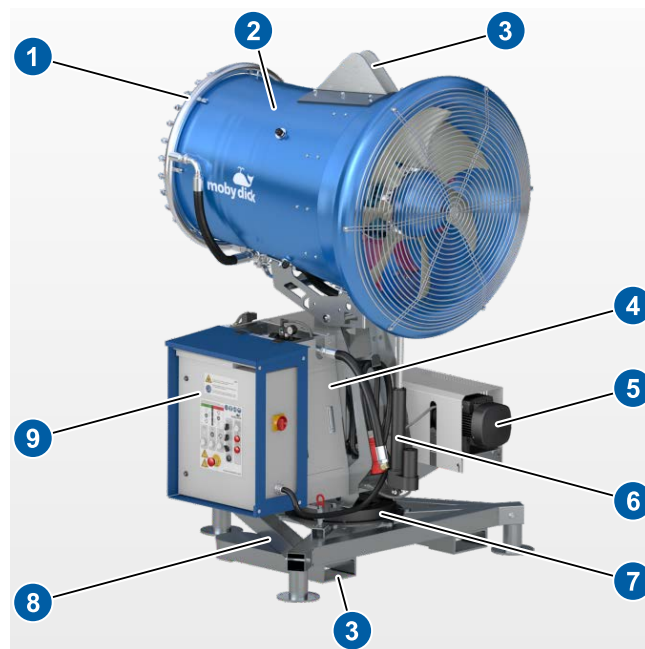


### High-performance cone

The high-performance cone (turbine) made of solid fibre-reinforced plastic was developed jointly with the Institute for Aerodynamics of Zurich University of Applied Sciences and is extremely resistant to corrosion, reduces noise and is easy to repair. Thanks to its innovative shape (reflexed airfoils) and the integrated stators, it achieves an outstanding level of efficiency. The generated air flow provides a powerful thrust that directs the water droplets accurately at the dust source. The segmented nozzle ring (15+15 replaceable special nozzles) allows two different spray spreads with different water volumes to be generated.

### Specifications (without options)

• Spray distance (weather-dependent)	300 ft
• Noise pressure	73 dB (A) <sup>1)</sup>
• Water through-put	12 to 24 gal/min
• Number of special nozzles	30
• Swivel range	360°
• Inclination angle	-22 to +38°
• Ventilator power	24.8 HP
• Pump power	(max. 320 psi) 5.4 HP
• Power supply	460 V/60 Hz/60 A
• Electrical connection values	31.5 HP/45 A
• Water connection (Chicago®)	29 to 73 psi
• Weight (ready to ship)	1,660 lbs
• Dimensions (H×W×L)	87×58×60 in



### Detailed description/scope of supply

1. Nozzle ring with 30 special nozzles in stainless steel
2. High-performance cone of fibre-reinforced plastic
3. Integrated lifting system for forklift and crane
4. Integrated two-level filter system
5. High-quality MobyDick pump
6. Automatic vertical inclination device
7. Automatic horizontal swivel system
8. Robust, hot-dip galvanised steel frame
9. Control cabinet with Siemens Logo® with intuitive operation

### Areas of application

- Demolition
- Construction sites
- Gravel plants and quarries
- Tunnel construction
- Recycling facilities
- Landfills
- Port facilities
- Other areas on request

<sup>1)</sup> Distance to the machine: 65 ft