

# MobyDick Cannon 3090 M

Art. no. DCC-3090-0-000

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



Illustrations may differ from the actual scope of delivery

## Cannon 3090 M – a Cannon Line series model

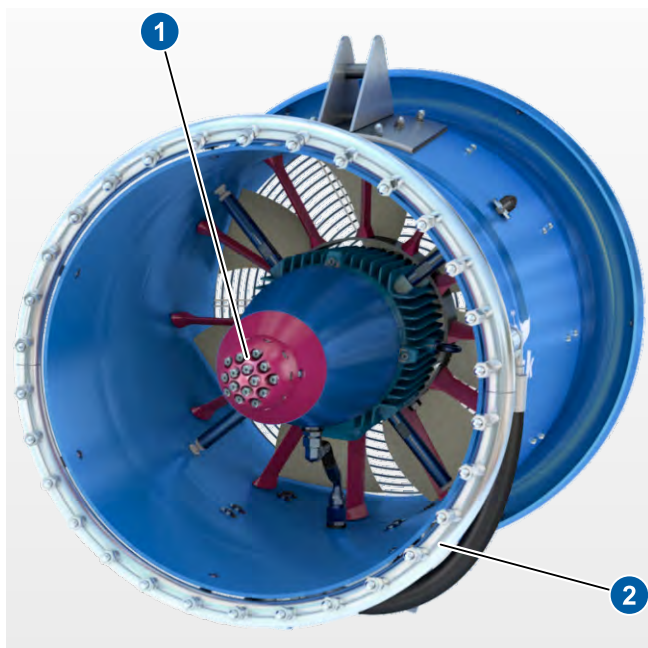
Cannon Line – Clean air for workers and the environment

The Cannon Line is a product group consisting of high-quality systems for dust control. 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, which ensures an outstanding range of action with minimal noise emissions.

On top of the basic functions, the Cannon M (Multi) models provide the option of seamlessly adjusting the thrust, power consumption, radius of action and water consumption at any time based on changing conditions.

## Function description

MobyDick Dust Control systems operate on the principle of binding dust using tiny water droplets. A modern medium-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 can be directed at the dust source by the nozzle ring (wide spread), the nozzle head (concentrated spread) or the combination of both methods. There, they bind with flying dust particles and cause them to quickly fall to the ground, resulting in a marked dust reduction that benefits the workers and the environment.

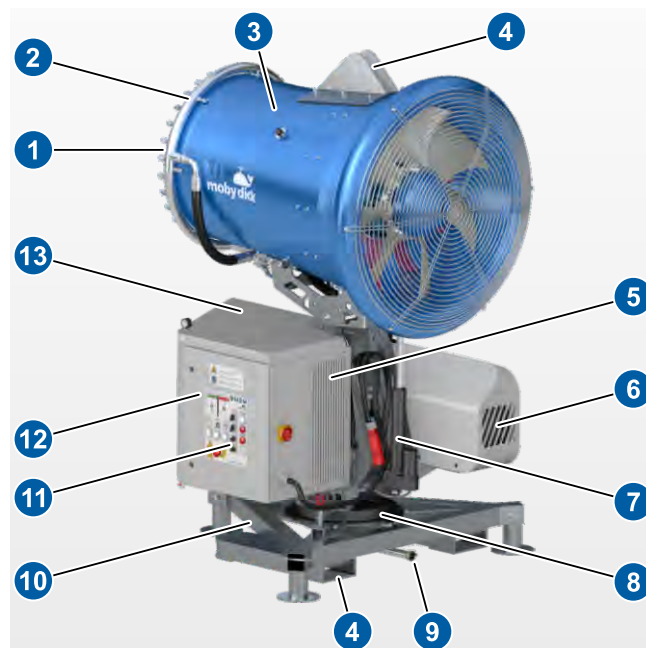


### High-performance cone

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) and the nozzle head (15 special nozzles) allow five different spray spreads with different water volumes to be generated. Combined with the seamlessly adjustable thrust, this provides exceptional flexibility for combating dust.

### Specifications (without options)

• Spray distance (weather-dependent)	30 to 90 m
• Sound pressure level (spray distance 30 m)	56 dB (A) <sup>1)</sup>
• Sound pressure level (spray distance 90 m)	73 dB (A) <sup>1)</sup>
• Water through-put	30 to 90 l/min
• of which nozzle ring	30 to 60 l/min
• of which nozzle head	30 l/min
• Number of special nozzles	45
• Swivel range	360°
• Inclination angle	-14 to +33°
• Ventilator power	18.5 kW
• Pump power	(max. 22 bar) 4 kW
• Power supply	400 V/50 Hz/63 A <sup>2)</sup>
• Electrical connection values	23.5 kW/45 A
• Water connection (GEKA®)	2 to 5 bar
• Weight (ready to ship)	815 kg
• Dimensions (H×W×L)	220×145×150 cm



### Detailed description/scope of supply

1. Nozzle head with 15 special nozzles in stainless steel
2. Nozzle ring with 30 special nozzles in stainless steel
3. High-performance cone of fibre-reinforced plastic
4. Integrated lifting system for forklift and crane
5. Integrated two-level filter system
6. High-quality MobyDick pump
7. Automatic vertical inclination device
8. Automatic horizontal swivel system
9. Rotary coupling for water supply
10. Robust, hot-dip galvanised steel frame
11. Frequency converter
12. Control cabinet with Siemens Logo® with intuitive operation
13. Solid sheet steel cowling

### 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: 20 m

<sup>2)</sup> Switchable 32 A (with plug adapter)