

Dust Control Systems



WATER MANAGEMENT EXPERTS

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Overview

Aqua Energy Group has developed a strategic alliance with Frutiger Company AG to offer a high-performance vehicle wash system to the Australian market. Frutiger Company AG has over 30 years' experience and more than 6000 successful installations in over 72 countries.

The MobyDick Dust Control range covers two product lines. The Cannon Line offers a series of proven standard solutions with spray distances from 10 to 90 metres. The TailorMade Line offers customised solutions.

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. The corepiece is the unique high-performance cone (turbine) of fibre-reinforced plastic, whose aerodynamic form ensures an outstanding range of action with minimal noise emissions.

Aqua Energy Group offer a turnkey solution to our customers, however should they choose to complete a specific portion of works this can be accommodated as well. Our team of project managers, multi-disciplined engineers and site installation and commissioning technicians are here to support a mutually beneficial outcome.

Features

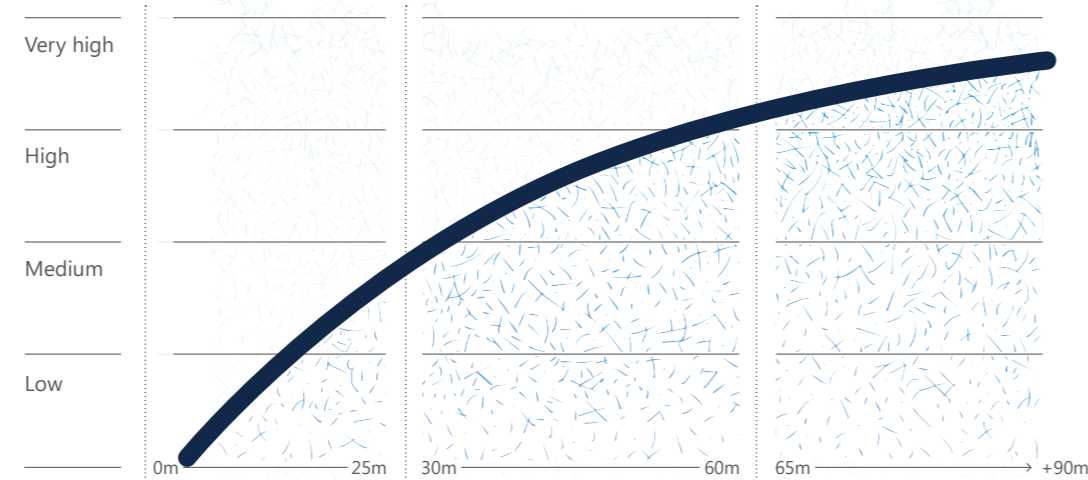
- High-performance stainless steel cone made of composite fiber.
- Aerodynamic stators
- Adjustable throw (multi models)
- Adjustable spray patterns and water volumes (Single and Multi models)

 **Clean air for people**
and the environment

Performance diagram



Dust-binding capacity



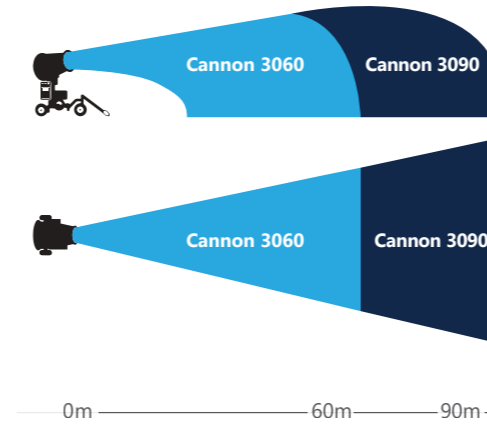
Throw distance

Models

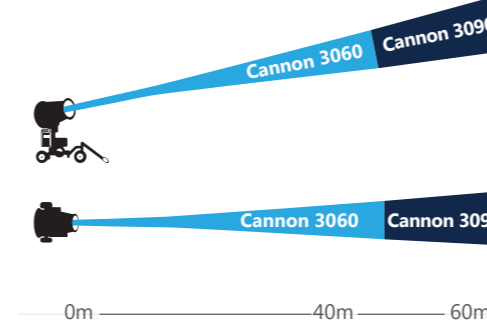


Functionality

Spray pattern with nozzle ring



Spray pattern with nozzle head



MobyDick's Cannon Line 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 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 reduction in dust that benefits the workers and the environment.



High-performance cone

The high-performance cone [turbine] made of robust fiberglass-reinforced plastic, developed together with the Institute for Aerodynamics at the Zurich University of Applied Sciences (ZHAW), is extremely corrosion-resistant, reduces noise and is easy to repair. Thanks to its innovative shape (S-stroke profile) and integrated stators, it achieves excellent efficiency. The generated airflow ensures a powerful cast that transports the water droplets dead on target into the dust source





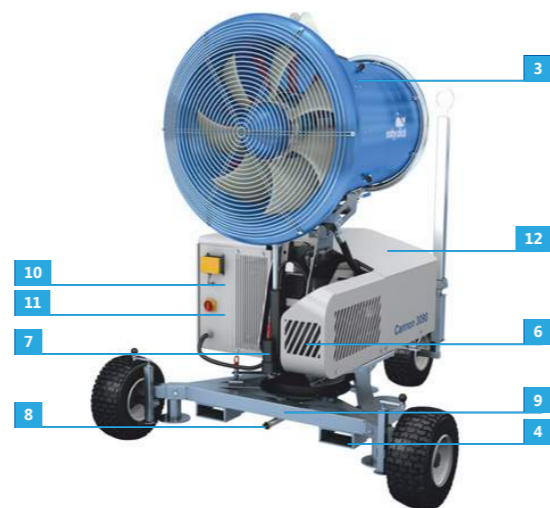
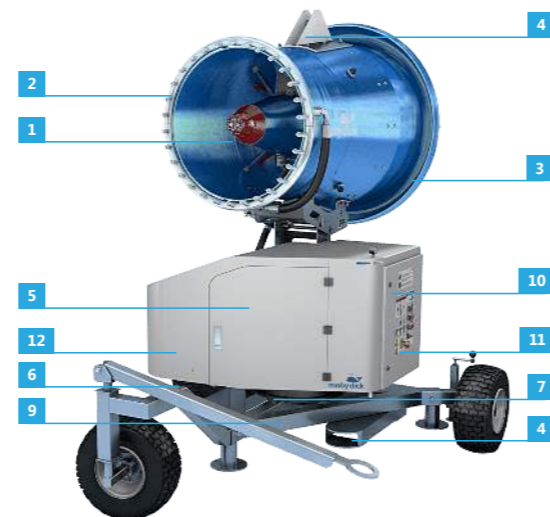
Model - Cannon Line **Multi's**



On top of the basic functions, the Cannon Multi models provide the option of adjusting the thrust, power consumption, radius of action and water consumption at any time based on changing conditions. The segmented nozzle ring (15+15 special nozzles) and the nozzle

head (15 special nozzles) allow five different spray patterns with different water volumes to be generated.

Combined with the seamlessly adjustable thrust, this provides exceptional flexibility for combating dust at distances from 30 to 90 metres.



- 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 horizontal/vertical swivel mechanism
- 8 Rotary coupling for water supply
- 9 Robust, hotdip galvanised steel frame
- 10 Frequency converter
- 11 Siemens control cabinet with intuitive operation
- 12 Solid sheet steel cowling

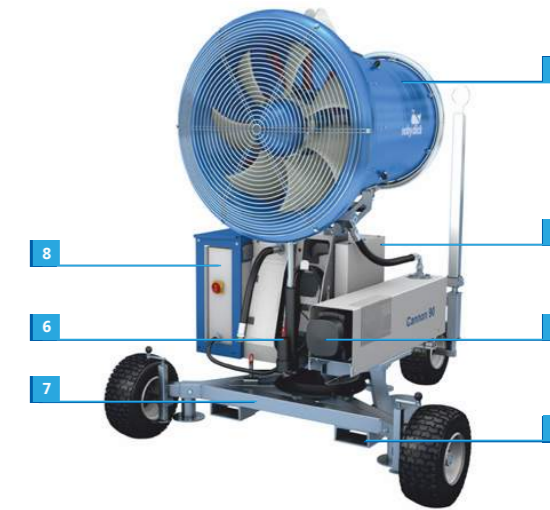
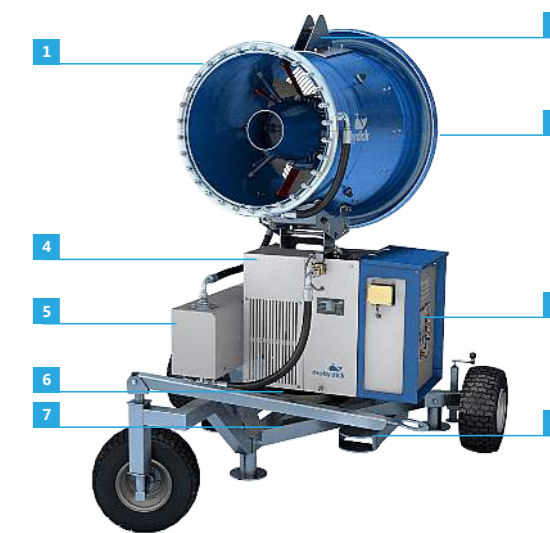


Model - Cannon Line **Single**



The four Cannon 50 Single models include all important functions for effective dust control at an appealing price/quality ratio. The segmented nozzle ring (15 special spray

patterns with different water volumes to be generated. The perfect solution for demanding applications at spray distances of 50 to 90 metres.



- 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 horizontal/vertical swivel mechanism
- 7 Robust, hotdip galvanised steel frame
- 8 Siemens Control cabinet with intuitive operation

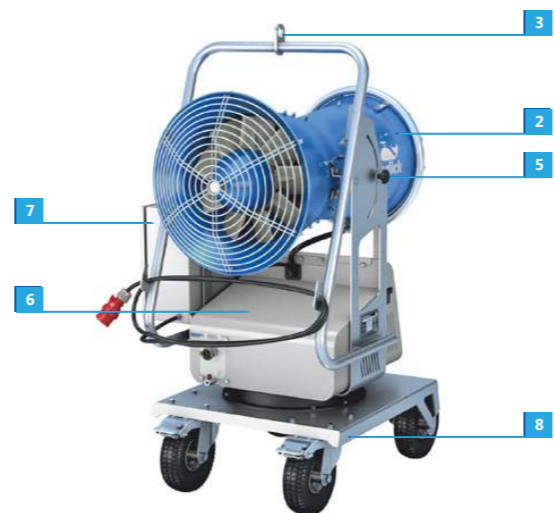
Cannon Single – En
Cannon Single – En



Model - Cannon Line **Cart**

With its compact size and low energy and water consumption, the Cannon Cart is the ideal solution for smaller to medium dust sources that can be handled in close proximity. The spray

pattern generated by the nozzle ring (15 nozzles) ensures an effective reduction of dust. Ideal for applications at spray distances between 10 and 30 metres.



- | | |
|---|--|
| <ul style="list-style-type: none"> 1 Nozzle ring with 15 special nozzles in stainless steel or ceramic 2 High-performance cone of fibre-reinforced plastic 3 Integrated lifting system 4 Integrated two-level filter system | <ul style="list-style-type: none"> 5 Manual horizontal/vertical swivel mechanism 6 High quality MobyDick pump 7 Control cabinet with intuitive operation 8 Robust, hotdip galvanised steel frame |
|---|--|

TailorMade Line

Tailor-made solutions for special applications

After detailed analysis, we also produce customized systems of the Tailor-Made line for customers with special requirements. The customer-specific dust control systems are used for a wide range of applications and

are precisely tailored to individual customer needs. Our specialists worldwide are available for an obligation-free consultation at any time.



FAQ's

In which area can MobyDick dust control equipment be used?

Our dust binding solutions offer wide applicability in various industries with heavy dust generation. They are ideal for demolition and quarrying operations, open pit and mining operations, recycling facilities, ports, tunneling projects and many other sectors where there is an increased release of dust. By using our dust control solutions, emissions can be reduced and the quality of work and life can be improved.

What are the differences between MobyDick dust control systems and other systems?

MobyDick dust control equipment is characterized by its high performance and reliability. Some of the main advantages over other products are:

- High-performance stainless steel cone made of composite fiber.
- Aerodynamic stators
- Adjustable throw (multi models)
- Adjustable spray patterns and water volumes (Single and Multi models)
- Hot-dip galvanized frame
- Global service network
- Extremely low maintenance
- Intuitive operation
- High mobility
- Specially designed and built for the construction industry

Areas of application

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



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