

SPRAY ▶ STREAM
DUST SUPPRESSION TECHNOLOGY



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Spraystream by Savic Group

Spraystream is developed by the Belgian machine manufacturer Savic Group.

We all like to reside in a healthy, dust-free environment. However, the spread of dust cannot be avoided in some sectors and is harmful to the environment and your health. Health and environmental regulations continue to become increasingly stringent in this respect. In other words: dust control is essential. Spraystream offers cutting-edge atomizer technologies that reduce the spread of dust by about 90%. This allows you to not only create a dust-free and safe work environment for your employees, as well as for the entire neighbourhood.

Spraystream only uses the most reliable technologies of the highest quality in its fight against dust. This means that we only deliver the most efficient solutions with excellent service. Our ecological dust prevention systems also contribute to a more sustainable world thanks to their limited water and energy consumption. The use of water atomisation covers the largest possible surface area.

In addition, our innovative technologies help to suppress unpleasant odours and allow for the cooling and decontamination of the space. Always tailored to the extent of your issue and in compliance with the latest industrial standards.

Product range



Spraystream cannonsp5

Our advanced fog cannons suppress industrial dust and odour, and control heat.



Modular systems for shreddersp17

Our cutting-edge modular systems for crushers and shredders in order to control dust issues at the source.



Fixed nozzle systems and customisationp21

A dust or odour issue sometimes requires a more decisive approach. Our fixed nozzle systems are tailored to your issue.

“Our job is to create a healthy and safe environment.”



Spraystream cannons

The Spraystream range includes a variety of sizes and different component options for indoor and outdoor applications. The product range offers as well, pole, wall mount, portable and self-supporting units. The self-supporting trailer units are having the electric generator, water tank and the Spraystream turbine dust suppression machine mounted on a road worthy or heavy duty off road trailer.

General concept

NOZZLE TECHNOLOGY

- Quick change multi piece nozzle system
- Last chance filter
- Low water consumption and tiny droplets
- Nozzles in stainless steel
- No need for Teflon* or Loctite*
- Selection of interchangeable nozzles

AIRFLOW

- Straightened stable laminar airflow

CENTRAL NOZZLE

- For more directed water droplets

WATER FLOW

- Low water flow for dust suppression
- Water saving options available

BOOSTER PUMP

- Spraystream uses the highest quality pumps with worldwide support

GALVANIZED STRUCTURE

- Hot dipped galvanized undercarriage

FORKLIFT LOOPS

- Easy to transport the machine with forklift
- 2 way pocketholes

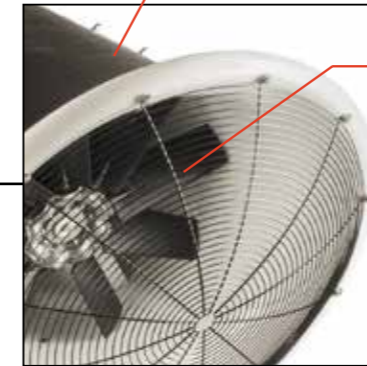


CONE

- Noise dampening composite material
- Aerodynamic LAVAL shaped lightweight cones
- Extremely corrosion resistant
- Mechanical very strong

MOTOR FAN

- High efficiency motors
- 2 speed motors available for noise and throw reduction
- Maintenance free



FAN TECHNOLOGY

- Low noise
- High efficiency fan
- Softstarted fan
- Composite blades
- Slowspeed concept
- Spraystream is using large diameters

WATER FILTER

- 2 level filtration system
- Protect the whole machine
- Pressure monitoring
- Washable filter
- Filter is good visible and protected



TRANSPORT LOCK

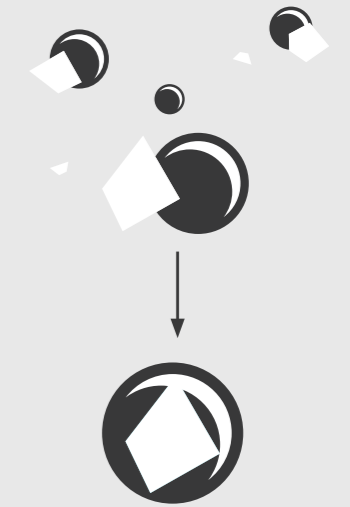
ELECTRICAL CABINET

- A simple 5 button operable machine
- Logic controller included
- All protectors and safeties included
- Customized control programs possible
- Standard WW components
- Multi voltage cabinets available

ROTATION 360°

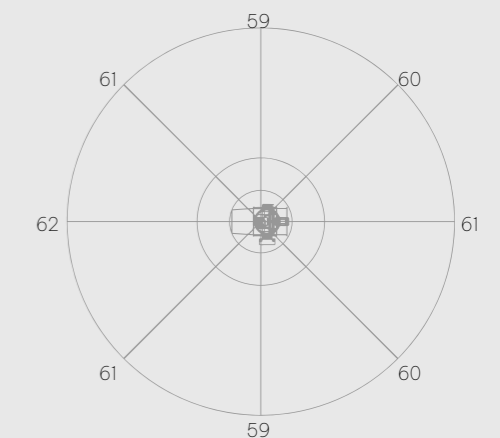
The Spraystream technology

If small dust particles come into contact with mist particles, the 2 substances merge and fall down as a single object. This is not the case when using large water droplets, where the dust particles move around the droplets. This is how we control dust using as little water as possible, addressing your dust issues in a very efficient manner.



Noise emission

Through the years Savic Group kept developing into more silenced fans and other techniques in order to reduce the noise emissions. We achieved to reduce noise levels to 60 dB(A) within a radius of 20 meters for our most sold models.



Standard machines



TYPE: SPRAYSTREAM Mini

THROW: 10 M
 MAX. PRESS.: 80 BAR
 WATER FLOW*: 40 L/H
 DIMENSION: 500x360x630 mm
 WEIGHT: 16 kg



TYPE: SPRAYSTREAM Mini trolley

THROW: 15 M
 MAX. PRESS.: 80 BAR
 WATER FLOW*: 10-80 L/H
 DIMENSION: 1350x600x900 mm
 WEIGHT: 65-75 kg



TYPE: SPRAYSTREAM TROLLEY S2.2 (GR)

THROW: 25 M
 MAX. PRESS.: 80 (50) BAR
 WATER FLOW*: 400 (700) L/H
 DIMENSION: 1350x1100x1550 mm
 WEIGHT: 210 kg



TYPE: SPRAYSTREAM PLATFORM S2.2 (HP)

THROW: 30 M
 MAX. PRESS.: 20 (80) BAR
 WATER FLOW*: 900 (400) L/H
 DIMENSION: 1250x1100x2700 mm
 WEIGHT: 400 kg



TYPE: SPRAYSTREAM S4.0 (HP)

THROW: 35 M
 MAX. PRESS.: 20 (80) BAR
 WATER FLOW*: 1200 (800) L/H
 DIMENSION: 1450x1600x2000 mm
 WEIGHT: 350 kg



TYPE: SPRAYSTREAM S7.5-S11.0-S15.0-S18.5 (HP)

THROW: 50-80 M
 MAX. PRESS.: 20 (80) BAR
 WATER FLOW*: 2700-4500 (1400) L/H
 DIMENSION: 1550-1800x1400-1600
 x2150-2250 mm
 WEIGHT: 525-675 kg



TYPE: SPRAYSTREAM S30.0

THROW: 100 M
 MAX. PRESS.: 20 BAR
 WATER FLOW*: 5400 L/H
 DIMENSION: 1800x1600x2300 mm
 WEIGHT: 650 kg



TYPE: SPRAYSTREAM S75.0

THROW: 150 M
 MAX. PRESS.: 20 BAR
 WATER FLOW*: 12000 L/H
 DIMENSION: 2877x2916x2685 mm
 WEIGHT: 2500 kg

Options

There is a wide variety of options available in order to personalise your Spraystream dust suppression machine.



1 REMOTE CONTROL

With this option the cannon can be controlled from a distance up to 300m.



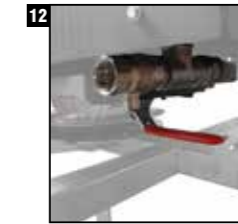
2 LIFTING BRACKET

The lifting bracket allows easy handling of the cannon with an excavator or crane.



11 AUTO WATERDRAIN VALVE

Auto drainkit to empty the pump automatically. The filter is drained by a manual valve.



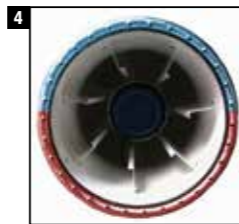
12 MANUAL WATERDRAIN VALVE

A manual ball valve kit in order to drain the pump and filter.



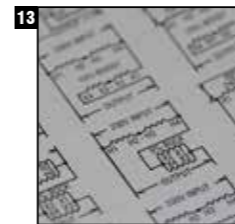
3 WATER CUTOFF VALVE

The valve cuts the water supply when the pump is not activated.



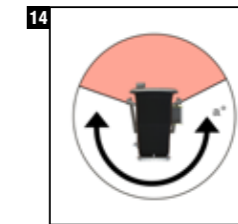
4 SEGMENTED NOZZLE RING

This option allows you to close one segment of the nozzle ring manually. This reduces water consumption by 50%.



13 PHASE CONTROL

This device protects the machine against lot phase, non-symetric voltages and wrong field rotation.



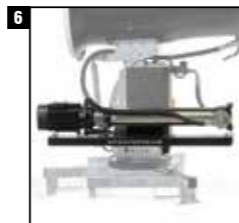
14 ANGLE SENSOR

With the angle sensor the machine can turn in a predefined angle.



5 WHEELSET

Easy on-site mobility.



6 PUMP

A bigger pump gives you more water flow or more pressure.



15 WINTER PACKAGE

A package which heats the pump, nozzle ring and filter. Not for HP models.



16 CENTRAL NOZZLE

For more directed water droplets.



7 ELECTRICAL VERTICAL MOVEMENT

The machine comes standard with a manual jack in order to change the angle. This movement can be automated with an electric motorized jack.



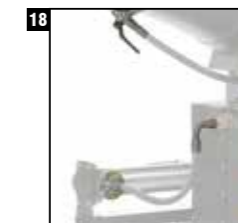
8 PRESSURE SWITCH (WATER DETECTION)

The switch detects the delivered water pressure. This in order to prevent the pump from dry running.



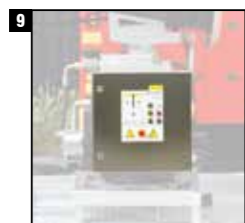
17 DOSAGE PACKAGE

An inline dosage circuit in order to mix odour suppressant or water surfactant products.



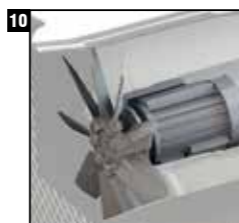
18 SALTWATER PACKAGE

Stainless steel connector set for the complete machine. This is used for aggressive liquids.



9 STAINLESS STEEL CABINET

Stainless steel IP66/NEMA4.



10 2-SPEED FAN MOTOR

A two-speed motor in order to reduce the throw and noise levels.



19 ADDITIONAL EPOXY COATING

An extra epoxy coating for the structural components in order to protect the machine against aggressive liquids.



20 WALLMOUNT FOR CANNONS

Wallmounts in order to fix a Spraystream to a wall (up to Spraystream 70i).

Self-supporting machines

The Spraystream range is providing self-supporting solutions which provides truly portable use and can operate up to 8 hours without the need for separate water or external power supply. These systems are containing a water tank, pump installation, Spraystream machine, and generator mounted on a skid or trailer. The self-supporting unit can be road-legal.



TYPE: SPRAYSTREAM SELF-SUPPORTING S2.2

THROW: 30 M
 MAX. PRESS. : 20 BAR
 WATER FLOW*: 100-500 L/H
 TANK: 2500 L
 GENERATOR: INCL



TYPE: SPRAYSTREAM S7.5-S15.0 SELF-SUPPORTING

THROW: 50-70 M
 MAX. PRESS. : 20 BAR
 WATER FLOW*: 1200-2700 L/H
 TANK: 2000 L
 GENERATOR: INCL



TYPE: SPRAYSTREAM S7.5-S30.0 SELF-SUPPORTING-SLEDGE

THROW: 50-100 M
 MAX. PRESS. : 20 BAR
 WATER FLOW*: 2700-5400 L/H
 TANK: 12000 L
 GENERATOR: INCL



TYPE: SPRAYSTREAM SELF-SUPPORTING S4.0

THROW: 35 M
 MAX. PRESS. : 20 BAR
 WATER FLOW*: 100-1200 L/H
 TANK: 1250 L
 GENERATOR: NOT INCL



TYPE: SPRAYSTREAM S7.5-S30.0 SELF-SUPPORTING

THROW: 50-100 M
 MAX. PRESS. : 20 BAR
 WATER FLOW*: 2700-5400 L/H
 TANK: 12000 L
 GENERATOR: INCL

Kit machines

We provide kits in order to facilitate the installation of semi tailor-made solutions.



TYPE: SPRAYSTREAM WALL - MOUNT VERSION

THROW: 25-70 M
MAX. PRESS. : 20-80 BAR
WATER FLOW*: 400-3600 L/H

This kit includes a wall-mounted version of a Spraystream cannon with a separated electrical cabinet, filter and pump. The technical unit can be installed up to 100m away from the cannon. This gives you the possibility to integrate the Spraystream technical unit into your heated and closed building. The electrical cabinet can be controlled by the existing factory supervision control system.



TYPE: SPRAYSTREAM VERTICAL TANK

THROW: 55 M
MAX. PRESS. : 20 BAR
WATER FLOW*: 2700 L/H
TANK: 3000L

TYPE: SPRAYSTREAM TOWER S4.0-S30.0

THROW: 45-100 M
MAX. PRESS. : 20 BAR
WATER FLOW*: 2700-5400 L/H
HEIGHT: 6M

This kit includes a tower version of a Spraystream cannon with an electrical cabinet, filter and pump at the base of the tower. The tower needs to be fixed onto a concrete base.



Fixation of stockpiles



TYPE: FIXATION

THROW: 50-80 M
MAX. PRESS. : 15 BAR
WATER FLOW*: UPON DEMAND





Modular systems for shredders

The use of crushers and shredders emits lots of dust. That is why we developed an innovative technology to control the dust at the source. We insert micro-droplets in the machine's breaker chamber under high pressure, ensuring that the mist controls the dust in the machine itself. The dust can be eliminated permanently by injecting an additive, even when the water evaporates.

Dust suppression at the source for shredders

Inject microdroplets into your breaker housing under high pressure to reduce dust by a spectacular amount over your entire breaker line.



Benefits

- Excellent dust suppression
- Low water consumption
- Connect and go
- Compact mobile unit
- Maintenance-free injectors
- Suitable for pressure washing
- Everything needed for installation

Technical specifications

- High pressure water pump assembly
- Intelligent feed/self-priming pump
- 1" BSP hose connector
- 150 micron industrial water filter
- Dry-run protection system
- Maximum working pressure 130 bar
- Flow control from 3 to 19 L/min
- 3x400V + G - 5-pin 16A connector
- Phase control



Injectors on shredders

1. Two misting injectors in breaker housing. The injectors can withstand the harsh shredder environment and will not become plugged.

2. Optional injector on feed hopper.



Fixed nozzle systems and customisation

Not every dust or odour problem can be solved in the most efficient way with standard machines. That is why we also provide customised systems. This can range from minor adjustments to standard machines, or completely customised installations. This way we can perfectly meet the customer's needs and budget.

Fixed line systems

Our team of engineers has the knowledge and experience to develop custom-designed misting systems. This is applicable for dust control, odour control, cooling and all other projects where misting is applicable. Our assembly and maintenance teams ensure perfect installation and after-sales service over the whole world through our dealer network.



TYPE: Injection points

Dust can be controlled by separate misting points on fixed installations and closed processing lines. A wide variety of nebulisers and high pressure pump systems makes it easy to adjust the flow rate. The atomising points can be incorporated into the existing housing, while the nozzle remains easily accessible for inspection.



TYPE: Nozzle bar

With the custom-made stainless steel nozzle bars, fixed nozzles can be installed quickly and easily and creating an efficient spray pattern. The quantity and type of nebulisers are adapted to the need in order to obtain a perfect integration without your products becoming soaking wet.



TYPE: Ring solution

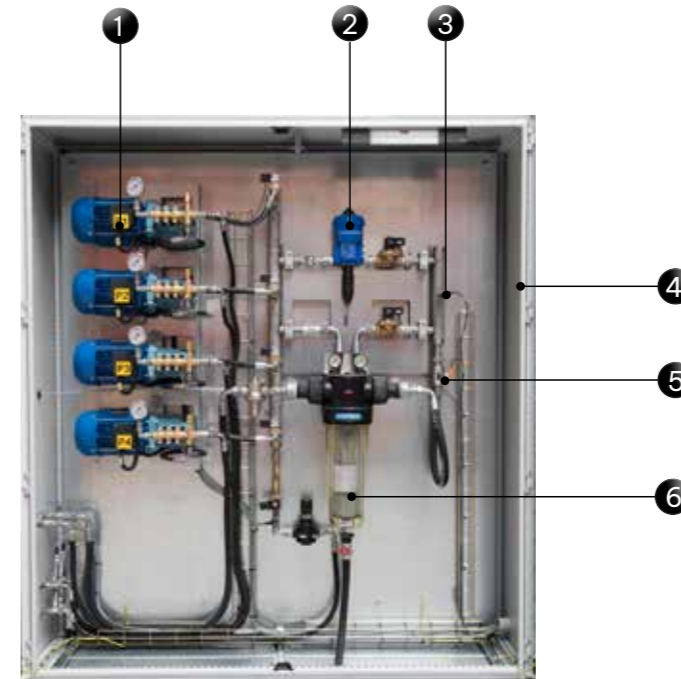
A stainless steel atomising ring with high pressure nozzles can be used at transfer points. The nozzle ring is supplied by the mains or even better by a Spraystream pump unit. The dusty material falls through a mist curtain which ensures that the dust is under control. The rings are made according to the beltwidth in order to obtain perfect dust control.

Grapple solutions

During shifting raw material, there is often dust. The grapple atomisation is a great solution because water droplets are sprayed close to the dust source. Therefore less water and energy is required. Depending on the design of the crane, the control can be automated in order to relieve the operator by operating the dust suppression system.



Technical cabinet



Thanks to our many years of experience and technical knowledge, we can offer a tailor-made solution for every customer. This is accompanied by the pumping installation, a unit that meets the highest requirements. This varies from basic solutions to high-end systems, with integration into the current systems through internal programming and in close communication with the customer.

- 1 > HP pump
- 2 > Dosage pump
- 3 > Pressure Switch
- 4 > Quality cabinet
- 5 > Adjustable flow
- 6 > Water filter

TYPE: Pump cabinet

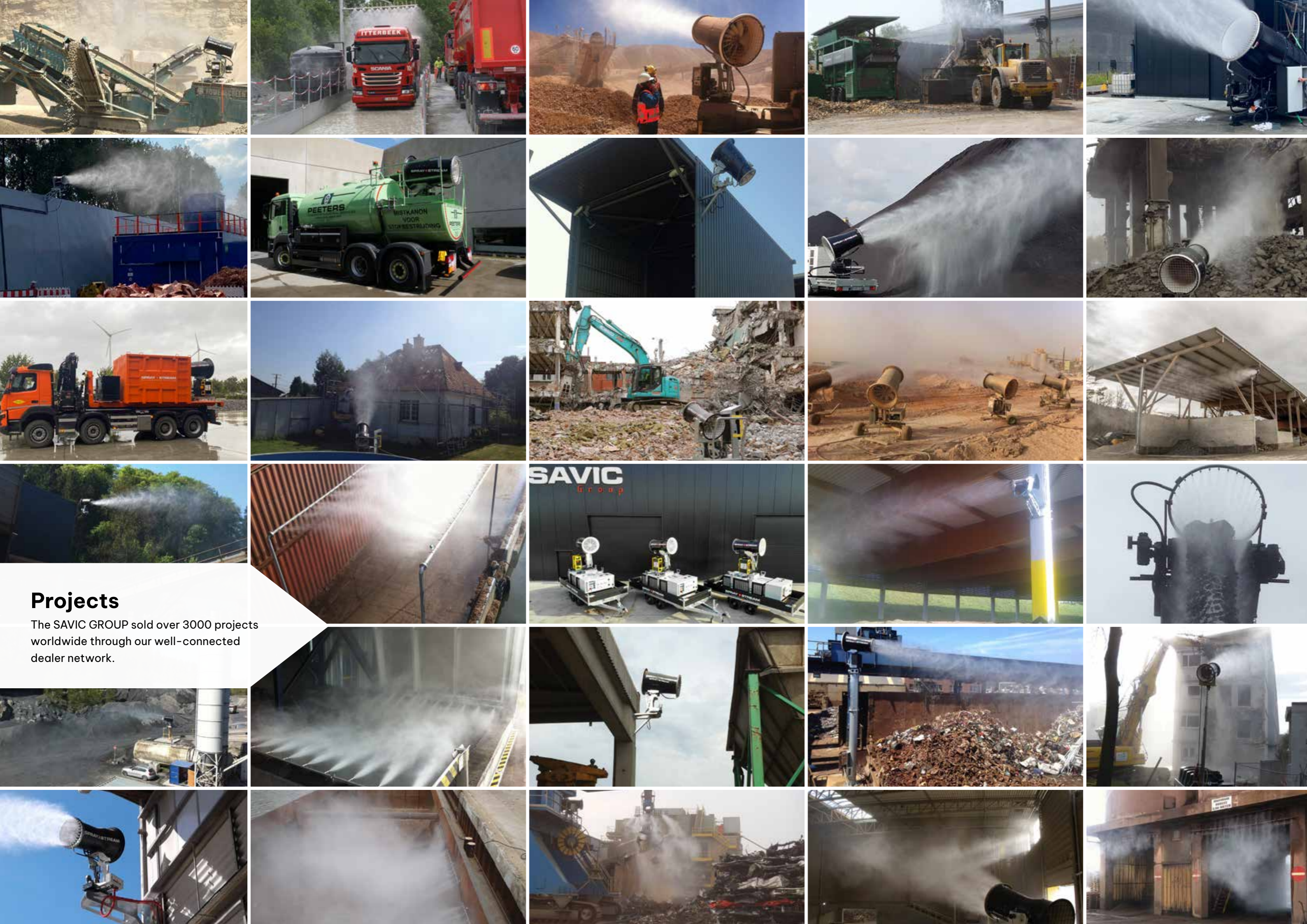
We have our own designed cabinet for smaller projects. This cabinet has a modular construction, so that it can be used for various projects. The cabinet can be used both in- and outdoor. The solution is plug-and-play on site, and only needs to be supplied with water and power.



TYPE: Container solutions

For larger projects, a 8' or 10' container is provided for the technical unit. The necessary pumps, filters, valves and control box are built in here. The plug-and-play principle is also applied here. The containers are always furnished according to the requirements and in close contact with the customer.





Projects

The SAVIC GROUP sold over 3000 projects worldwide through our well-connected dealer network.

