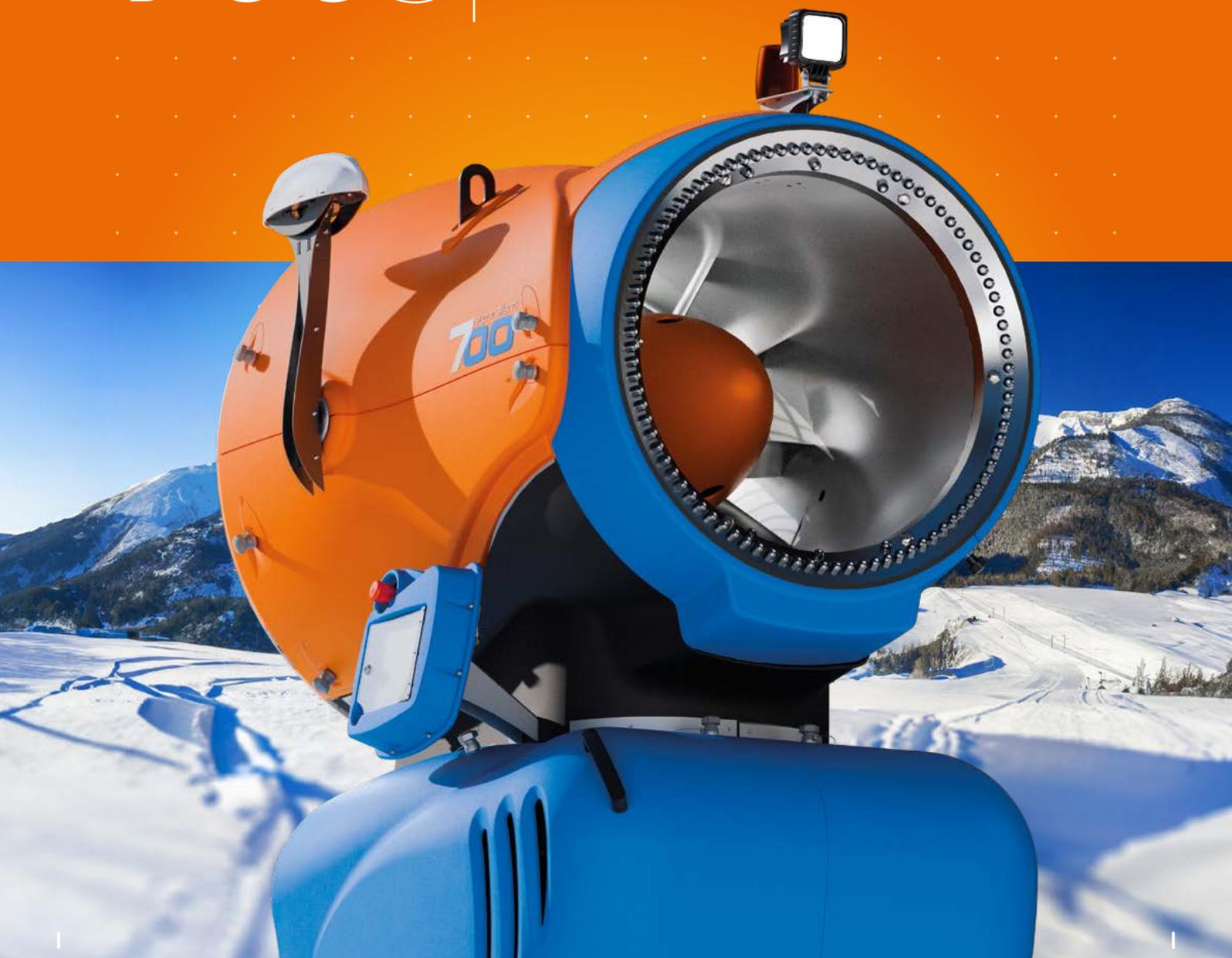


# 700S | Quiet and efficient



 **91,8 dB**

Acoustic power emitted by the device in silent mode

 **85 m<sup>3</sup>/h**

Maximum snow production

 **10,5 kW/h**

Nominal power consumption in silent mode

# 700S

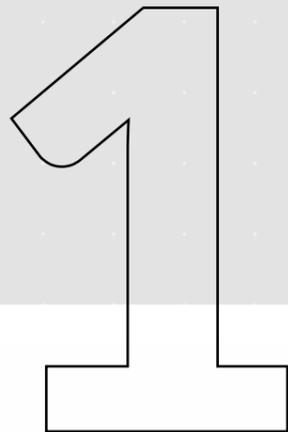
## Quiet and efficient

The 700S model offers two operating modes: standard and SUPERSILENT, which significantly reduces noise levels. It's the ideal solution wherever acoustics matter – e.g. near parks or residential areas. Additionally, the 700S stands out for very low energy consumption.



The search for quiet devices by the owners of a Slovak resort resulted in choosing SUPERSNOW. In their conditions, this was an environmental requirement met by the 700S model. It was the only one on the market that met the noise reduction standards while maintaining full resort efficiency.

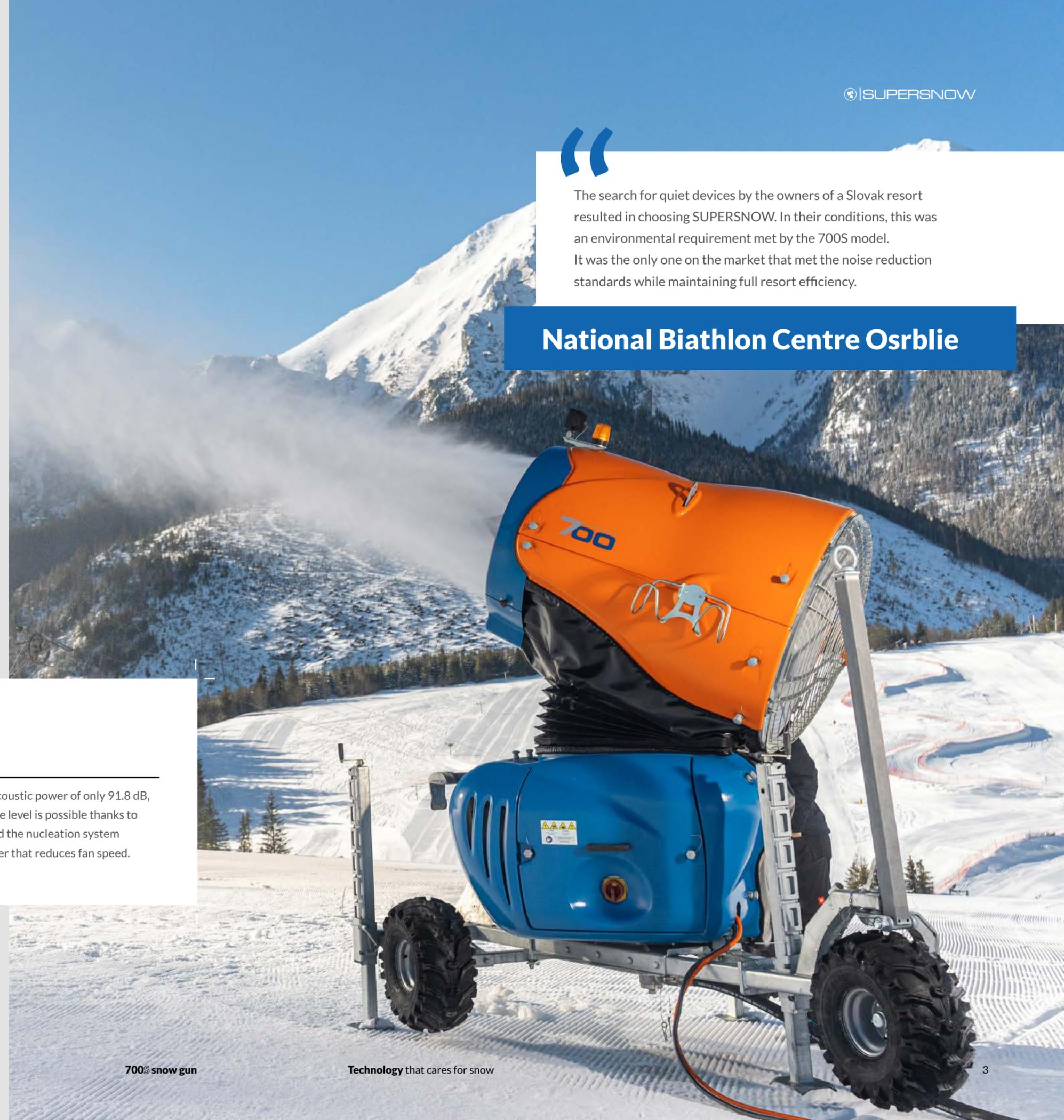
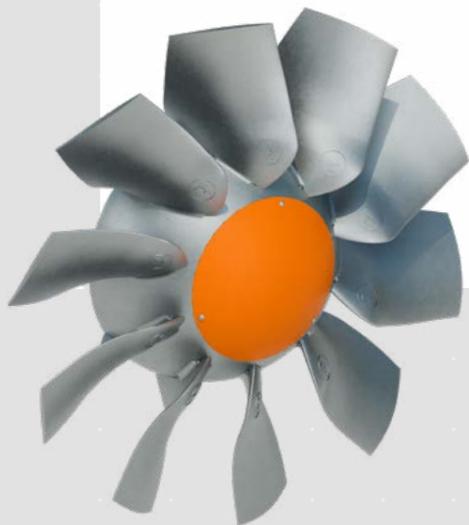
## National Biathlon Centre Osrblic



### SUPERquiet

#### Fan

In silent mode, the 700S snow gun emits acoustic power of only 91.8 dB, comparable to a hair dryer. Such a low noise level is possible thanks to a new nucleator nozzle design that lowered the nucleation system pressure by 2 bar and a frequency converter that reduces fan speed.



# 700S

Quiet and efficient



2

## High-quality components

### TwinC® nozzle

The innovative ceramic insert used in TwinC® SUPERSNOW nozzles is highly resistant to abrasion caused by contaminated water flow. It ensures proper fluid direction, maintaining the correct spray angle and optimal droplet size, resulting in optimal snow gun performance for years.



3

## Reliability and durability

### Frequency converter

The 700S model is based on proven, high-quality components. The key element of the SUPERSILENT version – the frequency converter – can operate at temperatures as low as -40°C, and its IP66 protection class confirms high resistance to water and dirt. This ensures reliable performance in harsh conditions, maintaining efficient snow production with low noise.



# 700S

Quiet and efficient

## High performance

### Water ring

The water ring in the 700S model includes 96 water nozzles and 6 nucleator nozzles, providing a snow output of 88 m<sup>3</sup> per hour. Its design also helps save energy, making the model an ideal combination of performance and efficiency.



## Low energy consumption

### Nucleator nozzle

The nominal power consumption in silent mode is only 10.5 kW. Engineers achieved this low value by using a frequency converter that optimizes energy usage and a redesigned nucleation system requiring a smaller air compressor. The hybrid water unit further supports energy saving by using heat and water pressure supplied to the gun.



## Faster maintenance

### Mesh filter

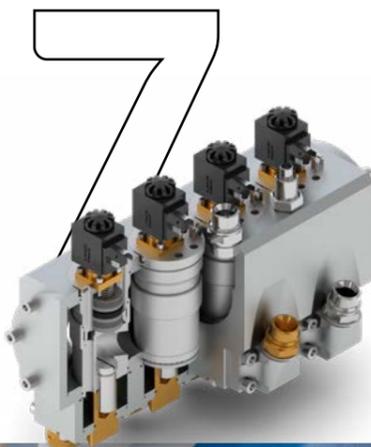
We design our devices to be simple and intuitive. Cleaning the mesh filter is extremely easy – just rinse it under running water. Installing and removing ceramic nozzles is equally simple. These are examples of simplified maintenance tasks that save time.



## Smart design

### Hybrid water unit

The hybrid water unit design reduces energy consumption by using thermal energy and water pressure to operate the valves. This ensures efficient and eco-friendly operation while meeting the highest energy standards.



# 700S

## Quiet and efficient



**91,8 dB**

### Quiet operation

Very low acoustic energy emitted by the device



**10,5 kW**

### Savings

Nominal power consumption in silent mode



**85 m<sup>3</sup>/h**

### Performance

Max. snow production



**330-870 kg/m<sup>3</sup>**

### High snow quality

Range of produced snow density



**7**

### Precision

Number of snow quality levels



**510 l/min**

### Efficiency

Max. water consumption

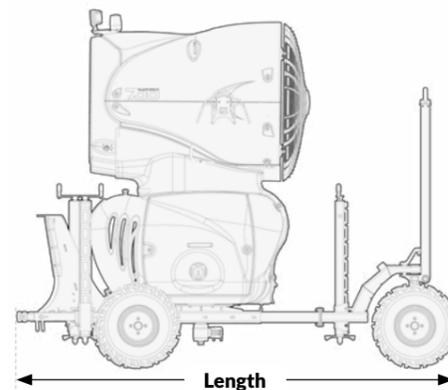
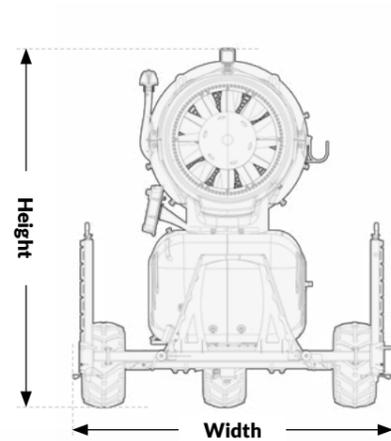


**360°**

### Functionality

Rotation range

## Dimensions



	transport	with legged chassis	with wheels
<b>Width</b>	1270 mm	2139 mm	2139 mm
<b>Height</b>	2395 mm	2330 mm	2449 mm
<b>Length</b>	1530 mm	2289 mm	3016 mm

## Technical data

Number of water sections	<b>5</b>
Number of nucleation rings	<b>1</b>
Number of water nozzles	<b>96</b>
Number of nucleator nozzles	<b>6</b>
Operating water pressure	<b>8-40 bar</b>
Water consumption up to	<b>510 l/min</b>
Max. snow production	<b>88 m<sup>3</sup>/h</b>

### Weight

Snow gun without chassis	<b>610 kg</b>
Snow gun on technology base	<b>630 kg</b>
Complete legged chassis	<b>160 kg</b>
Wheeled chassis	<b>270 kg</b>

### Other

Fan rotation speed trybie cichym	<b>1150 rpm</b>
Fan rotation speed	<b>1450 rpm</b>
Range of produced snow density	<b>330-870 g/l</b>
Number of snow quality levels	<b>7</b>
Tube tilt angle adjustment range	<b>0°-45°</b>
Automatic oscillation with angle adjustment	<b>15°-120°</b>
Rotation range	<b>360°</b>

### Electrical

Nominal power consumption in silent mode	<b>10,5 kW</b>
Nominal power consumption	<b>14,3 kW</b>
Water ring heating on average	<b>1,8 kW</b>
Oil-free compressor	<b>1,5 kW</b>
Fan motor	<b>11 kW</b>

## Standard equipment

LED work light, 12/24 V, 30 W

Warning light

Oil-free compressor 1,5 kW

Angled rotary connector with horizontal inlet with 2" female camlock

Rubber water hose for mobile snow gun, 1.9 m

Integrated operator panel

Power cable 5x6 mm<sup>2</sup>, 22 m

Hydrant drive cable, 22 m

Operator panel cable, 1.8 m

### Optional equipment

SUPERWIRE or SUPERWAVE communication

DV7 hydrant drive

DV7 hydrant drive mount

SNOWFLEX hose with 2" camlock ends, 20 m

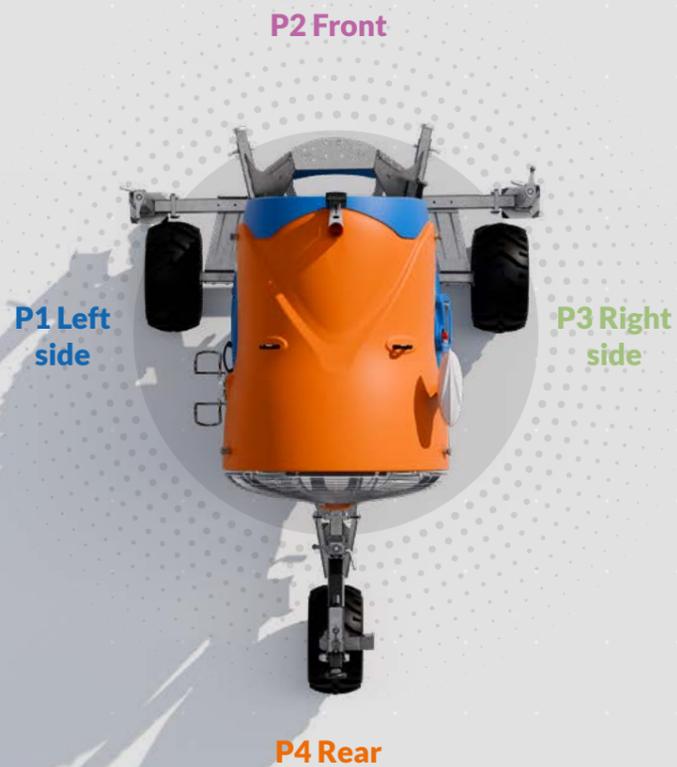
Legged or wheeled chassis

# 700S

## Quiet and efficient

Machine parameters during measurement:

- machine operating with water emission at full load
- power supply: 400 V / 50 Hz



## Noise level

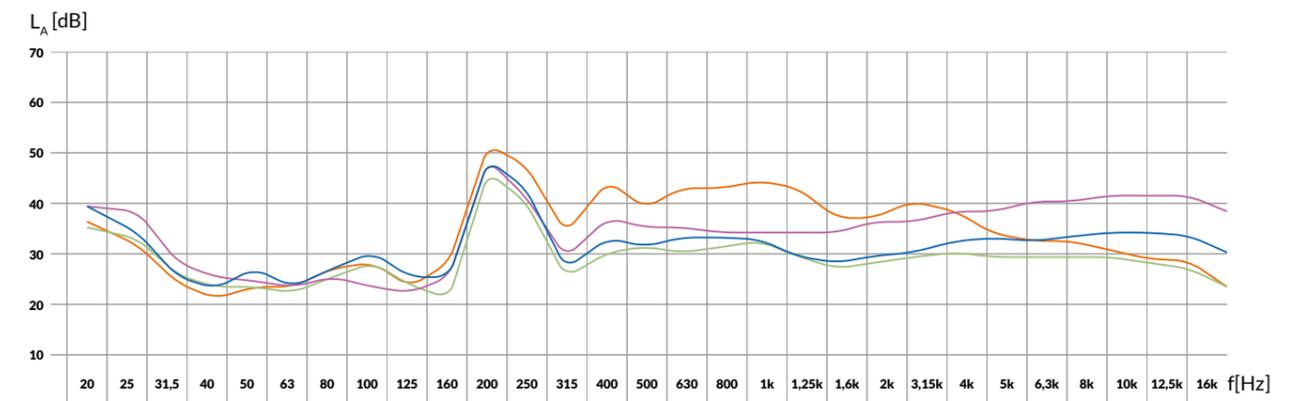
-  **100 dB** Bulldozer
-  **94 dB** Mower
-  **91,8 dB** **700S snow gun**
-  **90 dB** Hair dryer
-  **80 dB** Truck
-  **70 dB** Car
-  **60 dB** Conversation
-  **50 dB** Rain
-  **40 dB** Refrigerator
-  **30 dB** Whisper
-  **20 dB** Rustling leaves

## Noise emission certificate

### Silent mode

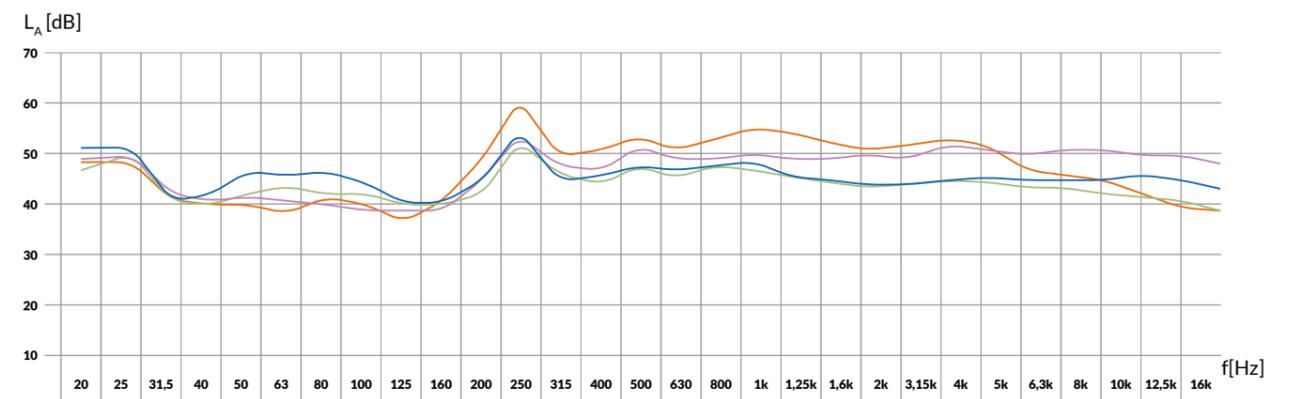
Distance	$L_{WA} = 91,8 \text{ dB}$			
	P1 Left side	P2 Front	P3 Right side	P4 Rear
20 m	56 dB	60 dB	54 dB	61 dB
25 m	54 dB	58 dB	52 dB	59 dB
50 m	48 dB	52 dB	46 dB	53 dB
100 m	42 dB	46 dB	40 dB	47 dB
200 m	36 dB	40 dB	34 dB	41 dB
300 m	32 dB	37 dB	30 dB	38 dB

### Snowmaking calculation in $L_A$ Supersilent mode



### Normal mode

Distance	$L_{WA} = 95 \text{ dB}$			
	P1 Left side	P2 Front	P3 Right side	P4 Rear
20 m	58 dB	63 dB	57 dB	66 dB
25 m	56 dB	61 dB	55 dB	64 dB
50 m	50 dB	55 dB	49 dB	58 dB
100 m	44 dB	49 dB	43 dB	52 dB
200 m	38 dB	43 dB	37 dB	46 dB
300 m	35 dB	39 dB	33 dB	42 dB



## Snowmaking equipment

Lances: 1V, 2V, 3V, 3V+

Snow guns: 900T, 900H, 900A, 900MN, 700S, 700H, 700ASE, 600M

All Weather Snow

## Booms and poles

H800

ST170

T400 / T600

## Infrastructure

Retention tanks

Pipelines

Pump stations

Mobile pump stations MP200 and MP500

Cooling towers

Filtration systems

Electrical networks on slopes

Central air systems

## Services and software

Snowline24

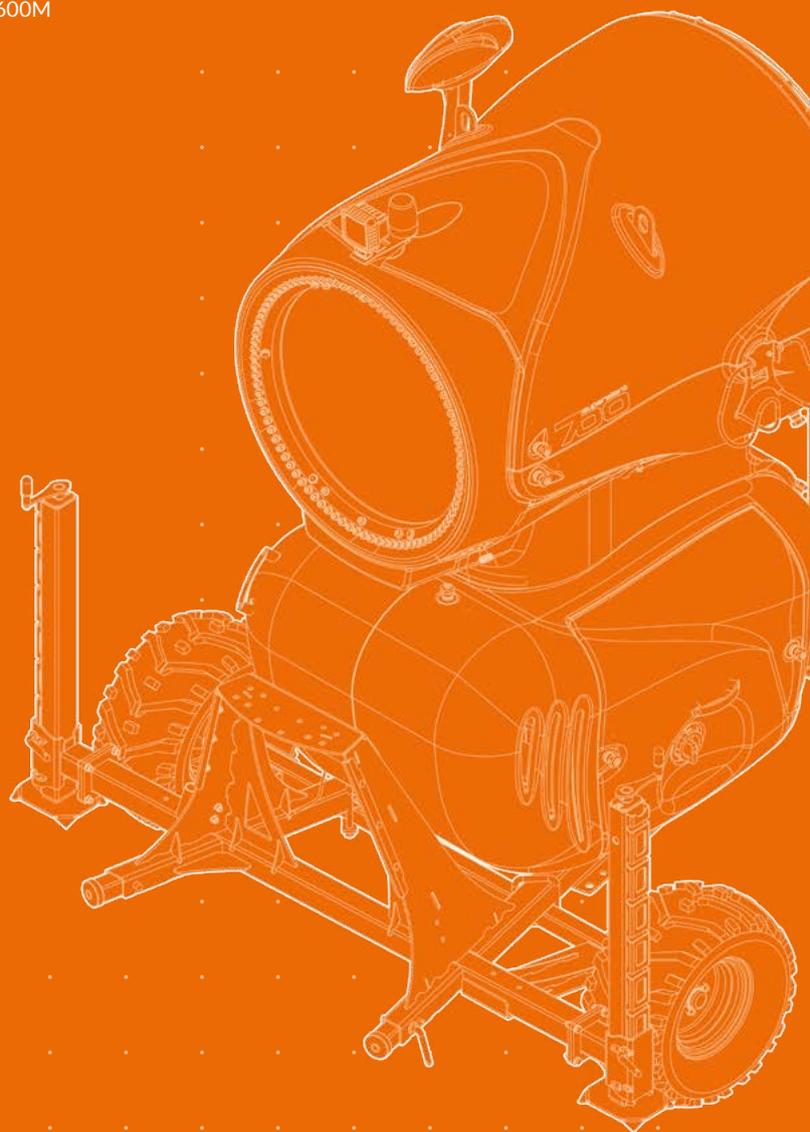
Quick on-site service

SNOWMATIC

Mobile app

Snowmaking systems design

Slope profiles design



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**Technology** that cares for snow