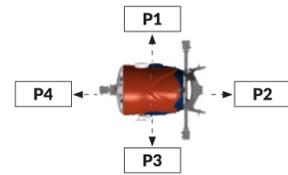


# Noise emission certificate

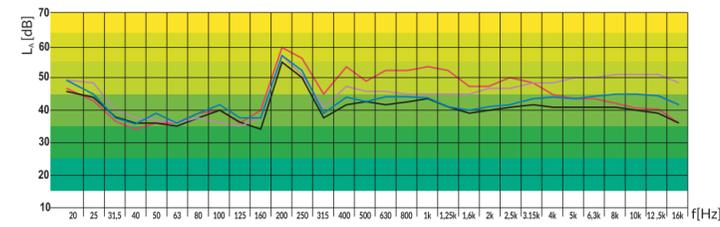


Assumptions that the machine met during the measurement:

- working machine with full load of water emissions,
- power parameters: 400 V/50 Hz,
- compressor on.

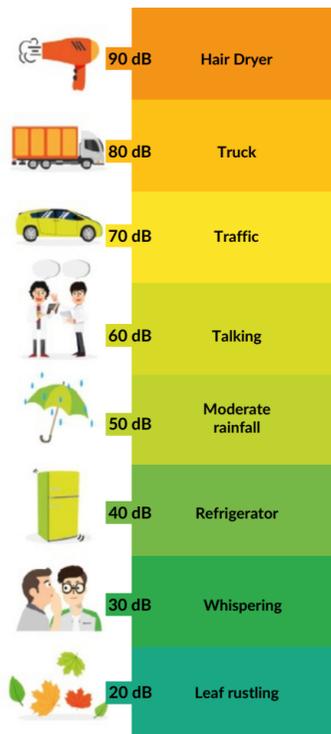
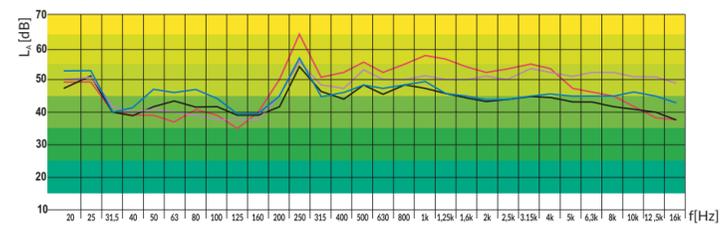
**SUPERSILENT mode**  $L_{WA}=91,8$  dB

Distance [m]	P1 Left [dB]	P4 Rear [dB]	P3 Right [dB]	P2 Front [dB]
20	56	61	54	60
25	54	59	52	58
50	48	53	46	52
100	42	47	40	46
200	36	41	34	40
300	32	38	30	37



**Normal mode**  $L_{WA}=95$  dB

Distance [m]	P1 Left [dB]	P4 Rear [dB]	P3 3 Right [dB]	P2 Front [dB]
20	58	66	57	63
25	56	64	55	61
50	50	58	49	55
100	44	52	43	49
200	38	46	37	43
300	35	42	33	39



# 700s

Also on offer:



SUPERSNOW

**SUPERSNOW SA**  
 ul. Ks. A. Study 11 | 34-436 Maniowy | POLAND  
 +48 18 265 35 55  
 biuro@supersnow.com  
 facebook.com/careforsnow

[supersnow.com](http://supersnow.com)

Technology that cares for snow

EN

## 700S - BEST IN CLASS IN TERMS OF ENERGY CONSUMPTION AND NOISE EMISSIONS

The 700S, with its innovative technological solutions, is characterized by reduced noise emissions. This was achieved primarily by optimizing the air flow through the fan channel and implementing new nucleation nozzles. Their unique design allowed to reduce the amount of air required to produce the nucleation mixture and lower the pressure of the compressed air.

New nucleation nozzles, the design of which allowed to reduce the amount of air required to produce the mixture nucleation and reduction of compressed air pressure.

The above features, combined with reliability and performance, make the 700S the best choice for those who appreciate quality products created with the environment in mind.



TwinC® SUPERSNOW Ceramic nozzles

### Ceramic nozzles TwinC® SUPERSNOW

The abrasion-resistant, ceramic TwinC® SUPERSNOW nozzles significantly increase the snow gun's performance. This is possible thanks to the innovative ceramic insert, which is characterized by high resistance to abrasion caused by the flow of water contaminated with sand particles and other precipitates, which have not been retained in the filter. The ceramic insert allows the proper flow of water, which guarantees the maintenance of the correct angle of its atomization and ensures optimal droplet size for years.

The incredible ease of nozzle installation and removal means that maintenance requires minimal work.



Slotted filter

### A new dimension of work - the slotted filter

The 700S is equipped with a slotted filter characterized by greater durability compared to conventional mesh filters. The filter cartridge is cleaned by rinsing it under running water. In addition, the special design and easy access make it impossible to damage the filter during cleaning.



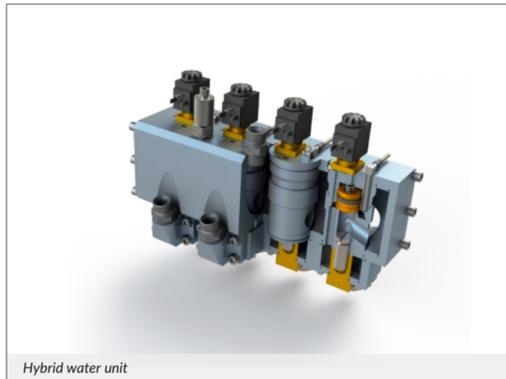
Nucleation nozzle

### Nucleation system

The basic components of the nucleation system are dual-media nucleation nozzles equipped with an individual water filtration system. The new design of the nucleation nozzle made it possible to significantly reduce the volume of air required for atomization of water in the nucleation system.

An additional benefit is that the air pressure in the nucleation system can be lowered by about 2 bars, which has a positive effect on the temperature of the compressed air and lower noise emissions from the nucleation nozzles.

The new design of the nucleation nozzle allowed the use of a much smaller air compressor, which has a much lower noise level and significantly lower electricity consumption.



Hybrid water unit

### Hybrid water unit

The general idea in designing this valve block was to take advantage of the heat and pressure of the water that is supplied to the snow gun.

Advantages of the design:

- Reducing energy consumption - using thermal energy from water,
- Using the energy (pressure) of water to control valves.



Ventilated weather station

### Ventilated weather station

Improved meteo station with an air-insulating layer and a system that forces increased air flow through the humidity and temperature sensor measurement system.



Fan

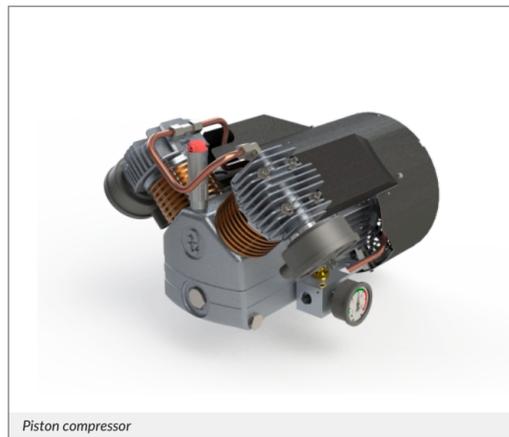


Ring

### Innovative aluminum axial fan with spherical tube

The fan channel geometry, refined to the smallest detail, optimizes the performance of the propeller, minimizing resistance to airflow through the snow gun tube.

The spherical shape of the hub, together with the unique geometry of the blades are responsible for noise reduction and improved fan performance. In addition, the optimization of the shape of the air intake has reduced the air resistance, making its inflow smoother and during operating does not generate excessive noise.



Piston compressor



Inverter

### Axial speed reduction inverter

The special design of the inverter allows it to function at temperatures as low as -40°C, and the IP66 rating confirms its high resistance to water and contamination. All of this qualifies this device to work in the most demanding conditions.

Benefits of the inverter in the 700S:

- Stable rotor speed in accordance with the setting regardless of the load,
- Increasing the life of the electric motor by eliminating dynamic changes in the current supplying the electric motor,
- Optimization of electricity consumption,
- Full diagnostics of the electric motor power system.



### SPECIFICATIONS

Number of water sections	5
Number of nucleation rings	1
Number of water jets	96
Number of nucleators	6
Working pressure of water	8-40 bar
Water intake	up to 510 l/min
Max. snow production	up to 88 m <sup>3</sup> /h

### WEIGHT / DIMENSIONS

Snow gun without chassis	610 kg
Snow gun on a technological base	630 kg
Leg chassis complete (single handle)	160 kg
Wheel chassis (single handle)	270 kg

	transport	with leg chassis	with wheels
Width	1270 mm	2139 mm	2139 mm
Height	2395 mm	2330 mm	2449 mm
Length	1530 mm	2289 mm	3016 mm

### OTHER

Fan speed in silent mode	1150 rpm
Fan speed	1450 rpm
Range of density of snow produced	330 - 870 g/l
Number of degrees of snow quality	7
Adjustment range of tube angle	0° - 45°
Range of rotation	0 - 360°
Ejection range	70 m

### ELECTRICS

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

### STANDARD EQUIPMENT:

- Rubber water hose (1.9 m);
- Hydrant drive cable (22 m);
- Operator panel cable (1.8 m);
- 5x6 mm<sup>2</sup> power cable (22 m);
- Oil-free compressor 1.5 kW;
- LED lamp;
- Warning light;
- Operator panel integrated into the snow gun;
- Leg chassis;
- Weather station;
- Snow groomer single handle;
- Angled swivel connector with horizontal inlet with Camlock 2" female.



### ADDITIONAL EQUIPMENT:

- Wheels for the leg chassis;
- ETH/LTE/other communications;
- DV7 hydrant drive charger (8 outlets);
- Mobile snow gun cover mattress;
- DV7 hydrant drive;
- Snow gun cover;
- Extender for mounting the operator panel on the jib;
- Communication cable extender (20 m);
- DV7 drive cable extender (20 m);
- Extension power cord (20 m);
- Smartphone control via mobile app;
- DV7 drive mount for hydrant;
- Snow groomer double handle;
- SNOWFLEX hose with Camlock 2" ends (20 m);
- H800, ST170, T400, T600 jibs;
- Spare water filter cartridge.