

WISECO Airtherm

Atomizer air heater



Optimum painting results with heated atomizer air

Most coating materials can be processed more effectively when heated than when cold. The solution is heated atomizer air. The various benefits of heated atomizer air have a positive effect on the painting process with improved painting results and lower operating costs.

Our application system, which heats the atomizer air, optimally processes the most diverse range of paint materials. Compressor air can cool the nozzle of the spray gun to below the dew point. Consequently, the material becomes more viscous making it difficult to atomize. Heated atomizer air has an advantageous effect on the viscosity, the spray pattern becomes more even and softer, thus achieving greater layer stability. It also significantly reduces the risk of the paint running.

As heated material has a finer viscosity and is therefore easier to spray less atomizer pressure is required. This also has a positive effect on the working environment, as less paint mist is produced and noise levels are reduced.

The reduced spraying pressure means there is less overspray, air consumption is lower and distinct savings can be made in terms of material. The improved viscosity also means that less solvent is required. An added advantage of the lower spray losses is that the load on the intake filter is reduced so that it needs to be changed less often.

A further significant benefit is the shorter drying times. The drying times are reduced on the one hand by the heated and finer atomizer air and on the other hand by the fact that there is less solvent in the paint. The savings made on solvents has a positive impact on VOC emissions.

The use of the heater is also permitted in EX-protected areas.



Compact dimensions make the spraying with the System as handy as the spraying with other sprayguns

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Applications

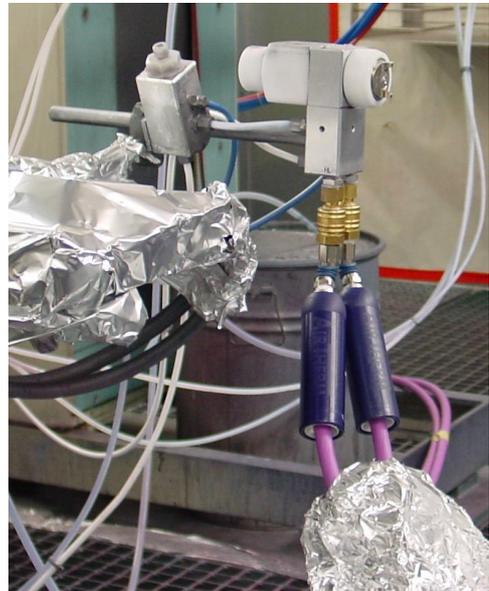
All that needs to be done to use the Airtherm atomizer air heater is to simply replace the air hose of the existing spray gun by the Airtherm air hose.

The heater is suitable for use in

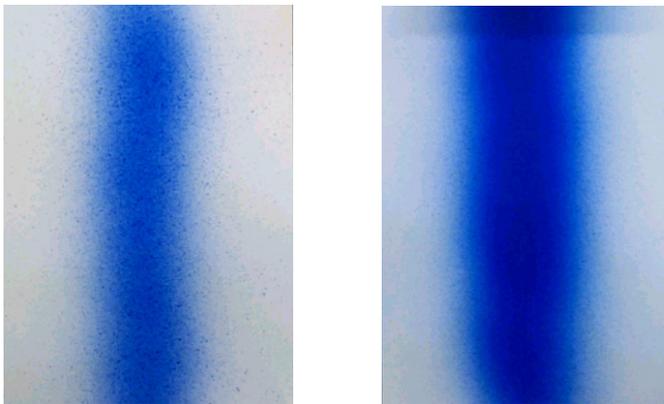
- existing systems such as automatic surface spraying machines or spraying robots
- manual spraying applications
- Airmix systems
- EX-protected areas

Advantages

- Increased layer stability per spraying cycle
- Significantly reduced risk of paint running
- Lower atomizer pressure, air consumption reduced by up to 180 l/m
- Material savings of up to 30%
- Noise level reduce by up to 8 dB
- Finer atomization for shorter drying times
- Lower solvent emissions
- Use of paint materials with higher solids content



Two Airtherm units on one spray gun with separate atomizer and fan air connections.



The spray pattern when using heated air (right) is softer and more uniform.

Technical data

Temperature control range	20 - 100 °C
Air pressure range	1 - 8 bar
Voltage	230 VAC
Rated output	500 VA
Connection thread	G 1/4"
Protection class	IP 65
EX approval	PTB 03 1051 X

As at: Oktober 2018



The hot spraying system: Airtherm together with heated material hose and double diaphragm pump.