

merlin

SUPERIOR HUMIDIFICATION **TECHNOLOGIES**



The smart solution for humidification & cooling



Up to 99 %
electrical energy saving¹



Up to 98 %
evaporation efficiency



Low maintenance
and high reliability

ORBIT

in-duct humidification



www.merlin-humidification.com

ORBIT

in-duct humidification

Your superior solution for commercial
and industrial applications.



High energy efficiency

Up to 98% evaporation efficiency.

Up to 99% electrical savings –
thanks to high pressure technology¹.

Fast return on investment.



Easy & fast installation / retrofit

Compact installation length (5 ft) suitable
for limited space thanks to patented
ORBIT WING® technology.

Available in configurations from
5 to 2,850 lbs/h per unit.

Fast and convenient installation
within 1 – 2 days.



Low maintenance & high reliability

All water bearing components from
stainless steel / food grade plastics.

Maintenance free water lubricated high
pressure pump with 10,000 h warranty.



Adiabatic cooling

Very cost-effective and environment
friendly alternative to conventional
cooling systems.



BMS embeddable, intuitive HMI

Easy integration in existing
Building Management System.
Intuitive control via touch screen.



Hygienic operation

The use of food grade materials and
continuous software-based hygiene
cycles allow a maximum of safety.
(additional water treatment options available)



Patented precision control

The unique control of valves and pressure
allows highest accuracy to meet the desired
humidity / cooling power at all times,
while preventing excess water in the duct.

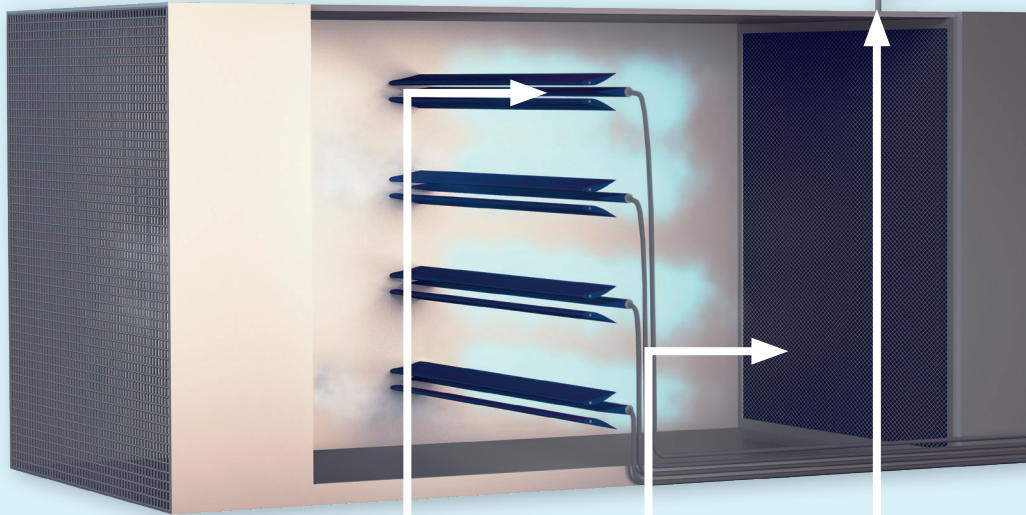
¹Compared to electric steam humidifiers ²Patented (AT, PCT)

HOW IT WORKS



Scan for video

Humidification duct



Control unit



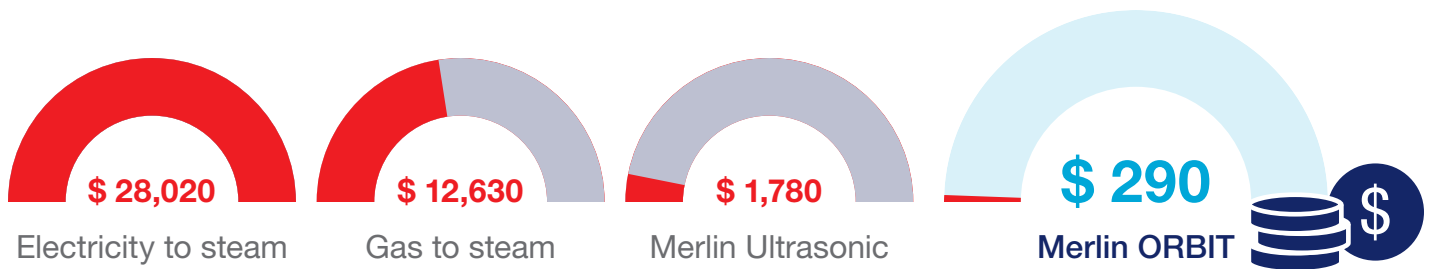
ORBIT WING® humidification module
 Reduced evaporation distance (-50%) thanks to patented wing technology²

Stainless steel droplet separator

Humidity & temperature sensor

ORBIT Box
 Frequency-controlled water hydraulic pump (oil & maintenance free)

ANNUAL OPERATING COSTS



Calculation basis: 300 lbs/h | 3,500 h/p.a. | 0.0753 \$/kWh | 0.95 \$/therm; source: eia.gov.com

Your humidification experts



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*"As a family-owned business with over 25 years of industry leading experience
Merlin is your competent one-stop solution for humidification!"*



**MAKE YOUR
BUSINESS
SMILE!**



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