Condair GS

The steam alternative

The gas-powered steam humidifer. Environmentally friendly. Safe. And more efficient than any other system.

Humidification and Evaporative Cooling

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Key benefits

Condair GS humidifiers provide clean steam humidifaction at an economical operating cost.
Select the most efficient or environmentally-friendly system where different sources of energy are available. Gas is efficient and environmentally friendly – the energy source of the future. Global gas reserves are estimated to be adequate for the next 60 years, enabling the development of even less expensive and more environmentally-friendly technologies in the meantime. Emissions which contribute to global warming can be prevented with almost 100% certainty where natural or propane gas are utilised. Gas-powered steam humidifiers are designed for large outputs. They are therefore frequently used in production facilities, large offices and halls.

Why Condair GS?

Clever.
Gas not only offers a unique cost-benefit ratio, but is also one of the best reliable energy sources from an environment point of view. The Condair GS operates with natural or propane gas.

Efficient.
The innovative 360° full-circle burner technology enables the achievement of a thermal efficiency level of over 90%.

Low maintenance requirements.
Modern technology combined with intelligent features. This means a long service life with short installation and maintenance periods, enhanced comfort and high performance.

Maximum steam output in shorter time periods
The Condair GS ensures that optimum air conditioning is achieved in large offices, large factory halls and during sophisticated test and production tasks. It produces enormous volumes of steam: up to 240 kg/h are possible. Up to ten units can be linked where more steam is required.

Amortisation period: two to three years
Gas is one of the cheapest sources of energy and enables average amortisation of a gas humidifying unit within less than 2–3 years. Maintenance costs are also low, because the reliability of the Condair GS is noticeably above average.

Accessible interior
Contractors, service technicians and facility managers have very little to do here, as all Condair GS units are easy to install, regardless of the unit size involved. Large openings allow easy access to all components and control elements which require replacement or maintenance.

All-round safety.
You can rely on your Condair GS – from initial activation onwards. The electronics monitor and control the water level and combustion status and deactivate the system automatically should malfunctions occur. The Condair GS meets the criteria of all European standards and has been officially certified by BSI.

The right temperature at all times
Even if your system is installed outdoors – the all-weather protection housing and anti-freeze package ensure that your Condair GS is ready for operation at all times, water is also cooled during de-scaling to protect the pipe work system.

Building management integration
The Condair GS is the perfect partner. It can be selectively operated with Modbus Standard, BACnet or LonWorks protocols, accepts all common control signal levels and indicates operating status and malfunctions. This saves time and enhances reliability.

Condair GS

HUMIDIFICATION

Condair GS Outdoor

Condair GS Indoor

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Touch and read

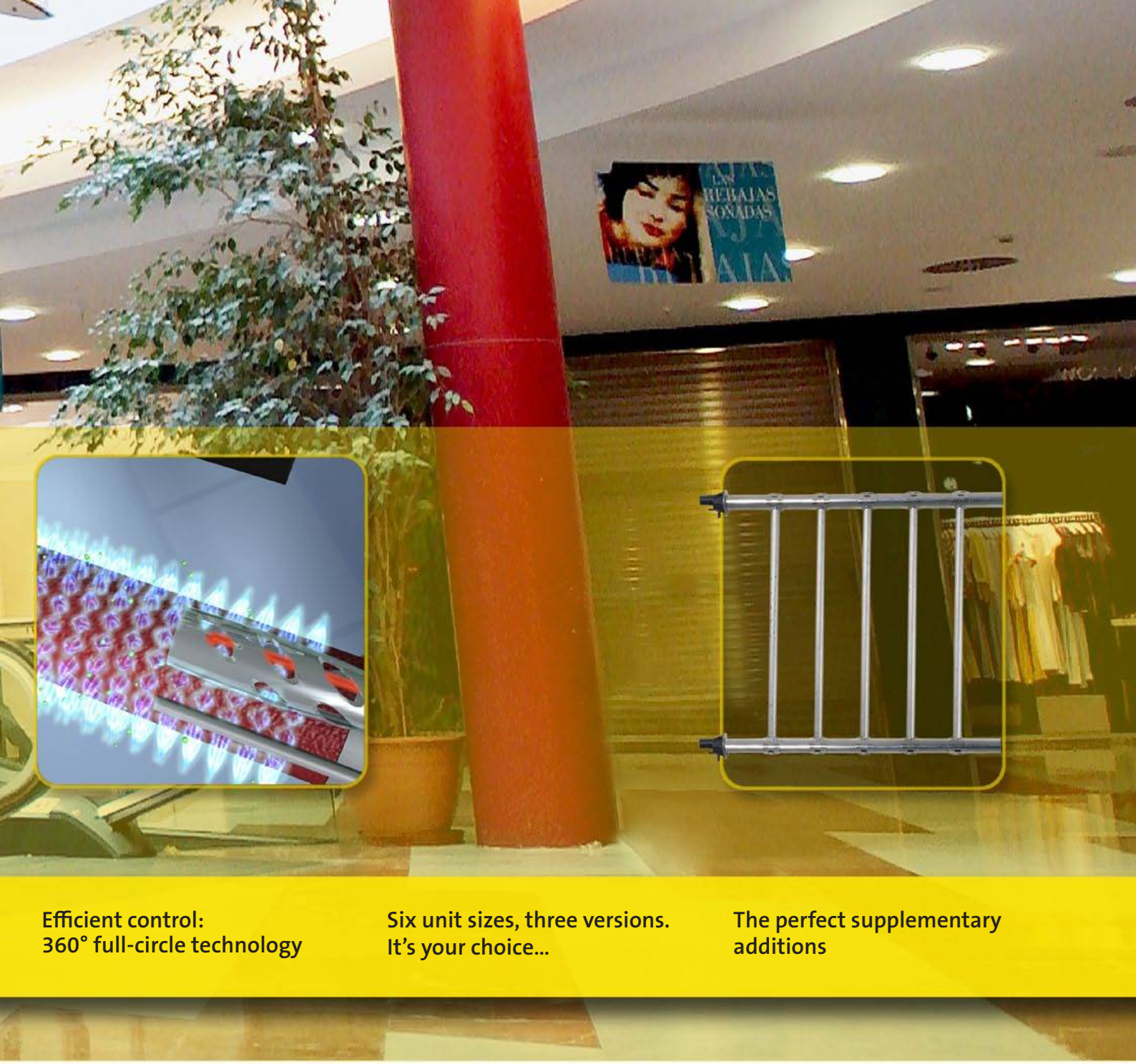
The control unit indicates all operating parameters on a large display, even where lighting conditions are less than ideal. A simple touch, and you can leaf your way through the values. The control unit is also the interface for the information exchange between the Condair GS and the building management.

Resilient: water tank and heat exchanger

Small, but it packs a powerful punch. The powerful heat exchanger makes the Condair GS a veritable “compact solution” and enables the realisation of thermal efficiency levels of over 90%. Like the water tank, it is constructed of stainless steel, ensuring reliable functionality and a long service life. The large opening facilitates cleaning.

Standard: any water quality can be used

Whether drinking, softened or fully-demineralised water is used: the Condair GS is operating with all water qualities to produce steam hygienically clean. Intelligent water management with level monitoring, a filling valve and de-scaling pump ensures a high degree of operational reliability. The water is cooled during de-scaling to temperatures which minimise stress on pipes.



Efficient control: 360° full-circle technology

Flames emerge uniformly from the burner unit. This enables efficient exploitation of the generated heat, emissions are minimised and steam is produced in next to no time. A particularly practical feature: steam output can be continuously controlled from output levels as low as 10 kg/h.

Six unit sizes, three versions. It's your choice...

The Condair GS is available in six sizes with a maximum steam output of 40, 80, 120, 160, 200 and 240 kg/h. You can increase output by combining up to ten units and thus accurately select the performance level you require for your application. Units are available for outdoor use (including anti-freeze protection and all-weather housing) or indoor applications. For indoor installation choose between:

- The room sealed version which operates independently of room air. It obtains the combustion air via a pipe system from outdoor.
- The room air-dependent model utilises room air to generate the air/gas mixture.

The perfect supplementary additions

OptiSorp: the steam distribution system for short humidifying distances. A non-corrosive, turnkey unit ideal for uniform, precise steam distribution. OptiSorp can handle humidifying distances up to four times shorter than normal steam distributor pipes

Sensors/controllers: optimise your humidifying system with a range of individually-suitable sensors and controllers. For ON/OFF operation or continuous control.

e-LINKS: Building management integration with LON or BACnet.

CONDAIR GS

Feature chart

	Standard	Optional
5-line graphic display and keypad	●	
Total Controller with Modbus host protocol	●	
Transducer signal accepted with keypad set-point adjustment	●	
Display of relative humidity	●	
3 day drain without call for humidity	●	
Keep warm feature	●	
Networking capability up to 10 units	●	
Pre-cleaning sequence	●	
Self diagnostic capabilities	●	
Fault indication including date and time history	●	
On/Off cycling prevention	●	
Full tank blow down capability via timer or external trigger	●	
Remote fault indication	●	
Single or dual control signal acceptance	●	
Accepts all industry standard control signals	●	
Time to next maintenance alarm	●	
Internal drain water cooler with smart function	●	
Precise five level water level indication	●	
Multiple venting options	●	
Large side tank cleaning port	●	
Top access cleaning (120, 160, 200 & 240 kg models)	●	
External connections for supply and drain water, gas and flue gas	●	
Steam Capacity adjustment	●	
Turn-down ratio from maximum output to 10 kg/hr	●	
Time proportioning below 10 kg/hr	●	
Freeze protection (outdoor version only)	●	
Integral enclosure (outdoor version only)	●	
e-LINKS Building Management System capable using BACnet or LonWorks Protocols		●
Sealed combustion (room sealed version only)		●

Technical data

Steam output	kg/h	10...40	10...80	10...120	10...160	10...200	10...240
Main voltage	AC 230V, 50...60Hz						
Control signals	0...5VDC / 1...5VDC / 0...10VDC / 0...20mA / 4...20mA						
Energy consumption (gas)	kW	36.5	73	109.5	146	182.5	219
Gas types	Natural gas G13, G20, G25, G30, G37, G50 or Propane gas G31						
Admissible duct air pressure	Pa	800...+1700					
Water quality	untreated drinking water, softened or fully demineralized water						
Operating weight empty	kg	140	162	238	261	290	314
Operating weight filled	kg	211	273	459	471	610	623
Dimensions height	cm	81 (158 unit on stand)					
Dimensions width	cm	114					
Dimensions depth	cm	53	69	109	109	149	149
Type of protection	IP 20						
Conformity	CE						

Condair Ltd.
Talstrasse 35-37, 8808 Pfäffikon, Switzerland
Ph. +41 55 416 61 11, Fax +41 55 416 62 62
info@condair.com, www.condair.com

1119220 1404