

HUMIDIFICATION  
THE LIFE STEAM HUMIDIFIER FOR  
SHORT HUMIDIFYING DISTANCES.  
LOW MAINTENANCE. PRECISE CONTROL.  
AND FREE OF CONDENSATION.

CONDAIR ESCO



# Condair Esco

HUMIDIFICATION



## Tailored steam output

The ceramic rotary disk valve is one of the most reliable of its kind. It can be uniformly opened from 0 to 100% and is completely leakproof when closed. This means that no steam enters the humidifying zone when the system is deactivated, condensation formation is prevented and humidifying is clean and efficient in the long run

The rotary disk valve is available in four sizes for steam outputs ranging from 5 to 1000 kg/h..



## Effective prevention of condensation

The steam flows over a couple of de-tours from the point of entry to the distributor pipe. Steam and condensation are separated in this steam relief zone, and water is automatically drained from the steam connection unit. This ensures that only dry steam is distributed.

The patented steam nozzles draw the dry steam from the core zone of the distributor pipe and blow it out free of droplets. Condensation occurring in this phase flows along the pipe walls to the drainage pipe and is conveyed away in its entirety.

This technology allows the Condair Esco to operate without jacket heating and saves a considerable amount of energy.



## As individual as your application

The Condair Esco is available in a variety of designs with different drives, depending on the existing installation. It can be obtained as a non-corrosive stainless steel (AISI 304 quality) or spheroidal cast iron version. Standard features include an electric rotary drive and safety shutoff element, or a pneumatic drive is available on request.



### Why Condair Esco?

#### Flexible.

5 to 1000 kg/h – that's the amount of steam distributed by the Condair Esco with only a single valve. Up to 2000 kg/h can be achieved if two valves are linked together.

#### Adaptable.

The Condair Esco meets your specific requirements. This enables rapid installation of the humidifier, which means that the short operational interruption of the ventilation system required during installation goes unnoticed.

#### Reliable.

Users, contractors and planners have placed their trust in Condair Esco for many years now, and developers at Walter Meier work untiringly to improve the technology involved. This means that you profit from both years of experience and the latest research findings.

#### All necessary pipes are in place

Standardised flange connections enable the simple and safe connection of the Condair Esco to your steam network. On-site pipework and sealing tasks are dispensed with. You save time and money. Installation in the air cross section is also realised simply in no time at all – without tedious screw fitting work.

### Key benefits

#### Guaranteed sterile steam

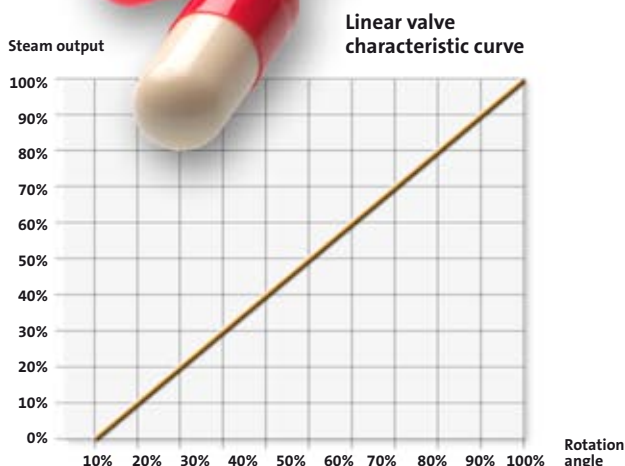
The Condair Esco ensures that steam is free of condensation. The system can therefore be utilised without any qualms in air ventilating systems. Humidifying is at all times hygienic, safe and, thanks to the leakproof sealing valve, perfect controlled.

#### Valuable energy used well

The steam connection unit separates dry steam from condensation and conveys it through the valve directly into the distributor pipe. The system can therefore be employed with immediate effect after installation, without jacket heating and undesired condensation emissions.

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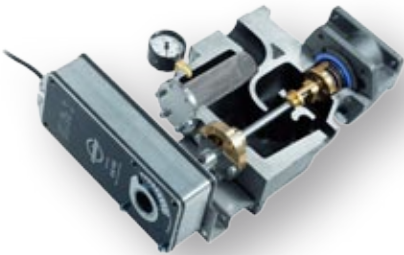


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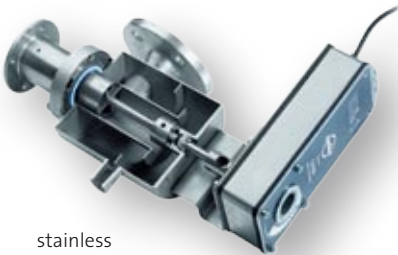
## STEAM DISTRIBUTION TO SUIT YOUR NEEDS

The DL 40 steam distribution system ensures consistent humidifying free of droplet formation where low air cross sections or long single, double or triple pipe humidifying zones are involved.

You should choose the DR73 register pipe system for high air cross sections or short humidifying zones. The DR73 is designed up to the performance limitations of the system to suit your specific application and manufactured specially for your plant.



Spheroidal cast



stainless

### Components and accessories

	Esco DL40		Esco DR73	
	Standard	Accessories	Standard	Accessories
Spheroidal cast iron steam connection unit with integrated dirt trap and automatic steam drying through multiple redirection.	•		•	
Absolutely leakproof sealing ceramic rotary slide valve with linear valve characteristic curve from 0 – 100%	•		•	
1 – 3 horizontal steam distribution pipes with 100% stainless steel steam nozzles	•			
Horizontal main distributor with vertical nozzle pipes and special 100% stainless steel steam nozzles			•	
Primary condensation drainage line and secondary thermal condensation drainage line	•		•	
Fully mounted CA 150 electric rotary drive, 24V operating voltage, for 0...10V control signal, continuous position feedback 2...10V		•		•
Fully mounted CA 150S electric rotary drive, 24V operating voltage, for 0...10V control signal, including floating contacts for position indication and continuous position feedback 2...10V		•		•
Fully-mounted P10 pneumatic drive, control pressure 0...1.2 bar (without XSP31 position controller)		•		•
XSP31 position controller for P0 pneumatic drive, control range 0.2...1.0 bar (100%), supply pressure 1.3 bar + 0.1		•		•
Pressure gauge 0...2.5 bar		•		•
Pressure gauge 0...6 bar		•		•

Solutions for Indoor Climate

HEATING  
VENTILATION  
COOLING  
HUMIDIFICATION  
DEHUMIDIFICATION

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