



AN AIR HUMIDIFICATION SYSTEM THAT ALSO HEATS!

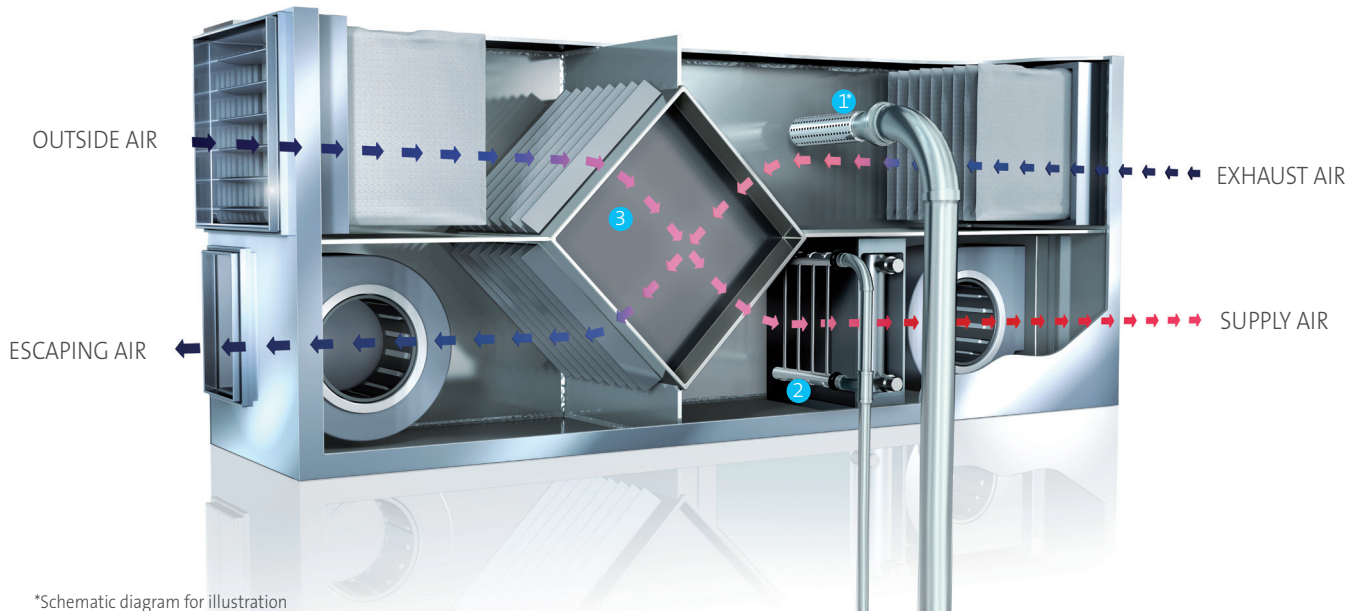
High efficiency using natural gas

CONDAIR GS



ISOTHERMAL HUMIDIFICATION
ADIABATIC HUMIDIFICATION
EVAPORATIVE COOLING
STEAM GENERATION
WATER TREATMENT





- ① Exhaust gas discharged through HVAC exhaust air
- ② Steam distribution through HVAC supply air
- ③ Recovery of exhaust gas heat directly in HVAC unit
- ④ Water tank and furnace chamber
- ⑤ Control panel with LCD display
- ⑥ Condair GS steam humidifier
- ⑦ e-LINKS for optional BMS connection



High efficiency made easy!

DVGW-certified technology makes chimneys obsolete

Condair GS units are the standard in high-efficiency air humidification. Exhaust gas can be discharged directly through HVAC exhaust air. Exhaust gas heat is recovered to a great extent through heat recovery in the HVAC unit. Condair GS is the first choice when it comes to top efficiency and easy installation.

Efficiency, reliability and performance — these are the qualities that set steam

humidifiers apart. Not only that, these units can be easily added to existing systems.

No chimney
required



Recovery of
exhaust gas heat

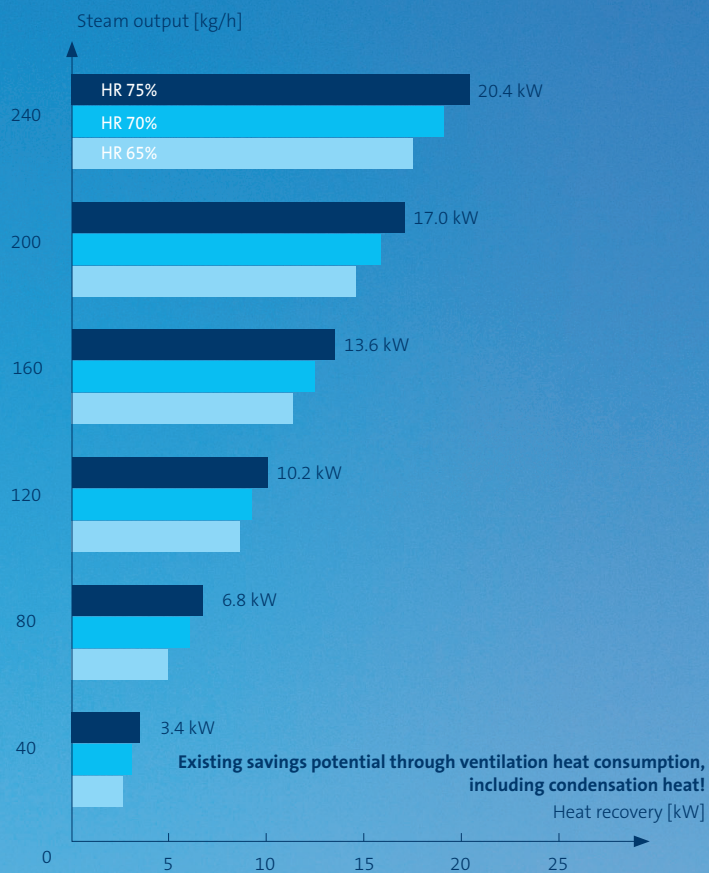


DVGW-
certified



Efficient technology pays off!

Heat recovery of exhaust gas heat output in the HVAC system





Leading-edge technology through the regenerative use of exhaust air heat

Air humidification which also heats

Exhaust gas heat recovery via your HVAC unit

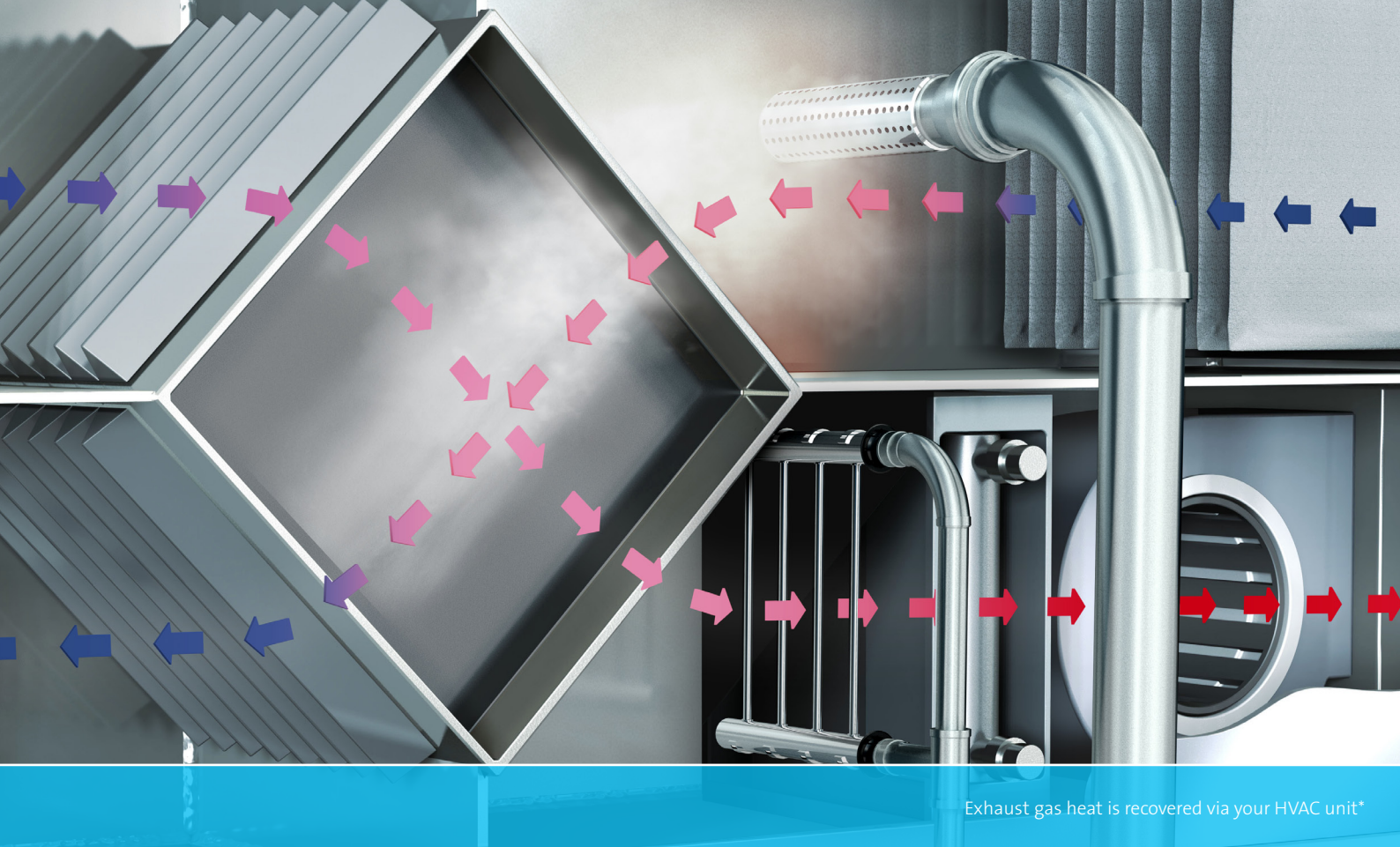
Heating via exhaust gas

Using HVAC exhaust air to discharge exhaust gas provides some significant advantages. Firstly, installation is significantly easier, as a chimney is no longer required. Exhaust gas heat is used regeneratively through heat recovery in the HVAC unit, and the quality of exhaust air does not decrease in the process.

The energy in the exhaust gas is made available for free, and the savings achieved

can be accounted for in ventilation heat consumption.

A range of power levels let you select the right unit for your needs, for use in a wide area of applications. In addition, the heat output achieved in the HVAC unit increases along with the volume of steam.



Exhaust gas heat is recovered via your HVAC unit*

*Schematic diagram for illustration

Sustainable quality!

Regenerative use of exhaust gas heat

Total usable exhaust gas heat output

Steam output	Exhaust gas heat	HR 65%		HR 70%		HR 75%	
40 kg/h	4.5 kW	2.9 kW	(1.5)	3.2 kW	(1.6)	3.4 kW	(1.7)
80 kg/h	9.0 kW	5.8 kW	(3.1)	6.4 kW	(3.3)	6.8 kW	(3.5)
120 kg/h	13.5 kW	8.7 kW	(4.6)	9.6 kW	(4.9)	10.2 kW	(5.2)
160 kg/h	18.0 kW	11.6 kW	(6.1)	12.8 kW	(6.6)	13.6 kW	(7.0)
200 kg/h	22.5 kW	14.5 kW	(7.6)	16.0 kW	(8.2)	17.0 kW	(8.7)
240 kg/h	27.0 kW	17.4 kW	(9.2)	19.2 kW	(9.9)	20.4 kW	(10.5)

Total usable exhaust gas heat output is the result of sensible heat, achieved through the high exhaust gas temperature, and latent heat, in the form of steam. The values in parentheses represent sensible heat gain without condensation heat.



The innovative e-LINKS interface controls BACnet/IP and LonWorks

Perfect BMS connection

Remote monitoring and control with e-LINKS.

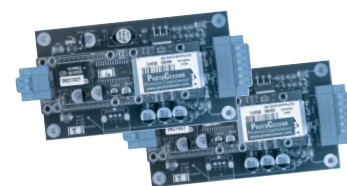
Connect to your building management system

The optionally available e-LINKS lets you link your steam humidifier to your building management system. You can then control and monitor the unit right from your PC.

The e-LINKS card can be inserted in no time at all. Different units can then be individually addressed, monitored and controlled. The interface is compatible with BACnet/IP and LonWorks, while Modbus functionality is already provided in the basic version of the device.

Transparency and operational reliability

e-LINKS always indicates the current operational state and pending maintenance operations, and also sends alerts in the event of malfunctions. e-LINKS provides you with a clear overview of units, especially in complex systems with a number of different humidifiers, and allows for extremely rapid and early responses during continuous system operation.



e-LINKS

To connect to BMS



Three versions means exactly the right solution for any project

The perfect match!

The right unit for every application

Variable plant situations require custom solutions. The range of Condair GS variants makes it possible for you to select a unit that precisely matches your planning requirements and the design of your HVAC system.

Existing limitations are overcome through the exhaust gas discharge system and the highly efficient steam humidification process provided for a wide range of applications.



Condair GS
Indoor installation
(room air-**dependent**)
Combustion air is drawn in from the installation area



Condair GS RS
Indoor installation
(room air-**independent**)
Combustion air is fed in separately



Condair GS OC
Outdoor installation in an all-weather protective housing

Regional Center — **South Headquarters Germany**
 Carl-von-Linde-Strasse 25
 D-85748 Garching-Hochbrück, Germany
 Tel. +49 (0) 89 326 70 0
 Fax +49 (0) 89 326 70 140

Regional Center — **Southwest**
 Waldburgstrasse 17-19
 D-70563 Stuttgart, Germany
 Tel. +49 (0) 711 78 87 94 3
 Fax +49 (0) 711 78 87 94 48

Regional Center — **Central**
 Nordendstrasse 2
 D-64546 Mörfelden-Walldorf, Germany
 Tel. +49 (0) 6105 943 52 0
 Fax +49 (0) 6105 943 52 40

Regional Center — **West**
 Wiesenstrasse 70A
 D-40549 Düsseldorf, Germany
 Tel. +49 (0) 211 69 07 57 0
 Fax +49 (0) 211 69 07 57 50

Regional Center — **North**
 Karl-Wiechert-Allee 1c
 D-30625 Hannover, Germany
 Tel. +49 (0) 511 56 35 97 70
 Fax +49 (0) 511 56 34 01

Regional Center — **East**
 Lindenstrasse 66
 D-10969 Berlin, Germany
 Tel. +49 (0) 30 55 67 09 0
 Fax +49 (0) 30 55 67 09 11

Walter Meier (Klima Österreich) GmbH
 Perfektastrasse 45
 A-1230 Wien, Austria
 Tel. +43 (0) 1 60 33 111 0
 Fax +43 (0) 1 60 33 111 399

STANDARD MODEL

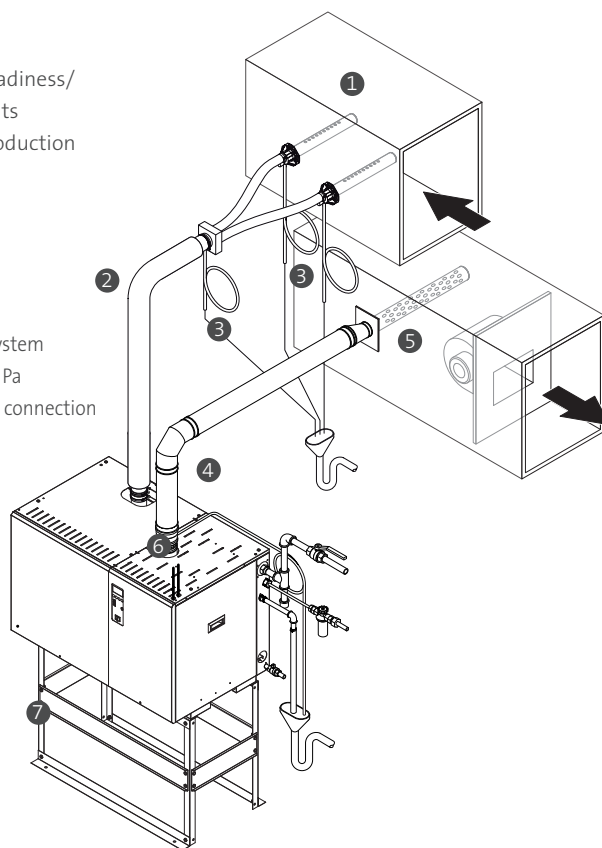
- Stainless steel steam generator/heat exchanger
- 360° full-circle burner technology
- Internal PI humidity controller
- Remote signaling of operational readiness/operating mode/maintenance/faults
- Analog signal for current steam production
- Control panel with LCD display
- Self-diagnostic system
- Modbus function

OPTIONS

- Condair OptiSorp steam distribution system
- Pressure equalization set, up to 10,000 Pa
- e-LINKS for BACnet/IP and LonWorks connection
- Humidity sensors and hygrometers

ACCESSORIES

- Steam distributor [1]
- Steam hose [2]
- Condensate hose [3]
- DVGW-certified Exhaust gas installation [4]
- Exhaust gas distributor [5]
- Condensate trap [6]
- Base frame [7]



TECHNICAL DATA

Max. steam output	kg/h	40	80	120	160	200	240
Thermal output	kW	36.5	73.0	109.5	146.0	182.5	219.0
Exhaust gas heat output* (HR 75%)	kW	3.4	6.8	10.2	13.6	17.0	20.4
Minimum escaping air flow	m³/h	1,825	3,650	5,475	7,300	9,125	10,950
Escaping air negative pressure	Pa	-300..-1200 and -400..-1500 (other ranges available by request)					
Control voltage	230 V/1PH/50..60Hz						

Condair GS (room air-dependent), Condair GS-RS (room air-independent)

Width/height	mm	1140/810					
Depth	mm	530	690	1090	1090	1490	1490

Condair GS-OC (outdoor installation)

Width/height	mm	1262/1380					
Depth	mm	545	708	1104	1104	1500	1500
Conformity	DVGW, CE, VDE						
Patents	PATENT PENDING						

* Heat recovery (HR 75%) additional, available heat output (sensible and latent).