

PREMIX HR GAS WARM AIR HEATER CONDENSING TECHNOLOGY



Decentralized modulating gas warm air heater
with condensing technology



EFFICIENCY AND ECONOMY

The innovative burner and heat exchanger technology combined with the modern control technology realizes optimum comfort with efficient use of energy.

The direct heated gas-fired condensing warm air heater works with particularly low emissions and in the high control performance. These warm air heaters provide the perfect solution for economic and efficient heating of industrial and commercial premises.

Best climate for your buildings – that principle motivates GoGaS. This is achieved through the latest technology such as the PREMIX burner technology with a modulation range of 30 up to 100 %. The efficient supply air fan works silent and adapts to the heat output. The stainless steel combustion chamber, the housing and the individually adjustable blowout lamellas are designed for longevity and comfort.

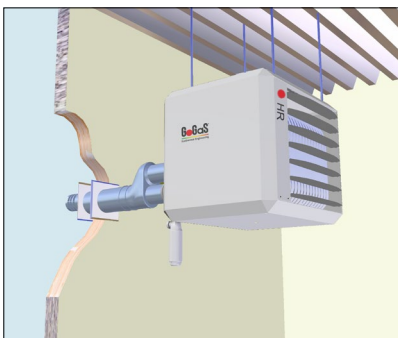
Expect more: The series HR is equipped with a destratification circuit to reduce the temperature gradient in the building. The so far unused heat cushions of the solar radiation and the production



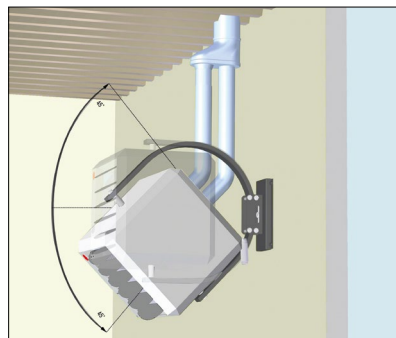
related heat emissions can be used to heat the building without starting the burner. High-quality technology in the roof area can be protected effectively against excessive temperature and it will last significantly longer.

Burner and system fan operate stepless modulation and allow additional comfort and an increase of efficiency. Energy savings up to 25 % compared to standard systems are possible.

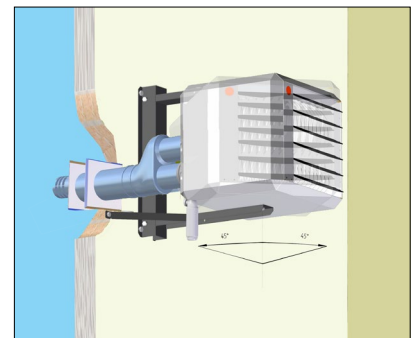
Variable mounting options



Horizontal, exhaust gas discharge through the wall



Vertical 45°, exhaust gas discharge through the roof



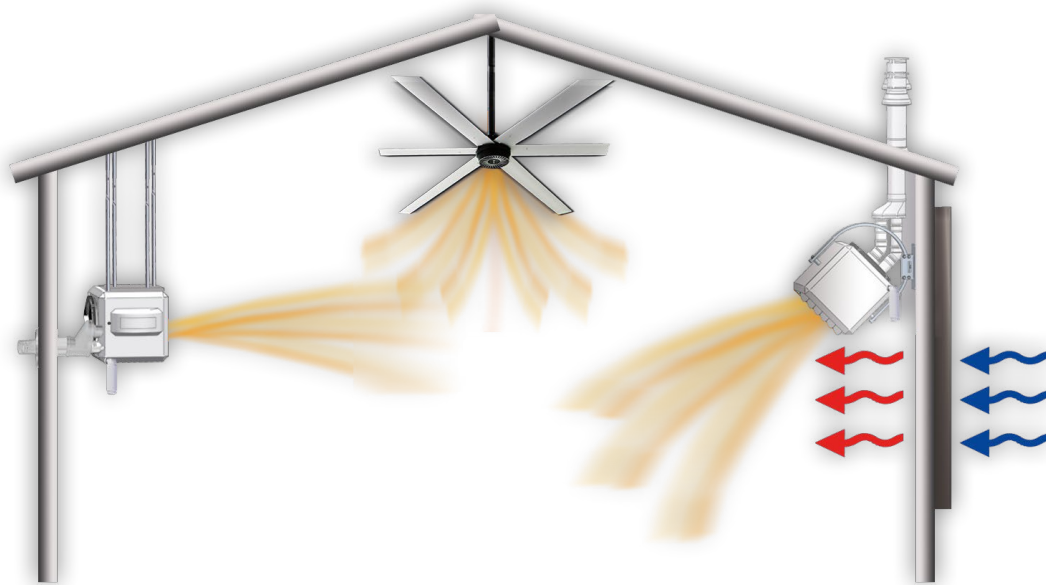
Horizontal flexible, exhaust gas discharge through the wall

► PREMIX Serie HR

Compact dimensions, low weight and different fastening systems allow space-saving and easy installation.

For an optimum air distribution a special version of the HR with an inclination of 45 ° can be mounted.

Smart accessories and multiple ways of mounting are the fundamentals for an efficient operation.



Combine your PREMIX-system with other GoGaS components such as the solar air system LUBI Wall or with the HVLS-fans of the series AirVolution for even more comfort and energy efficiency.

Example: warm air heater mounted at the roof with an optional ceiling fan and LUBI Wall

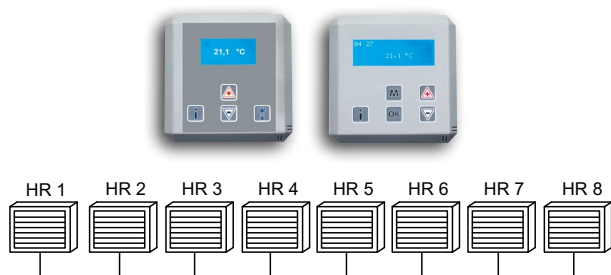
▶ The water contained in the exhaust condenses in the heat exchanger. The heat that is released at this process can be used in the area. Gas-condensing technology makes warm air heater up to 11 % more efficient.

Benefits for higher efficiency

- low-loss heat transmission from the flame to the heat exchanger to the ambient air
- exploitation of condensation heat contained in flue gases
- wide modulation range of 30 to 100%
- automatic destratification

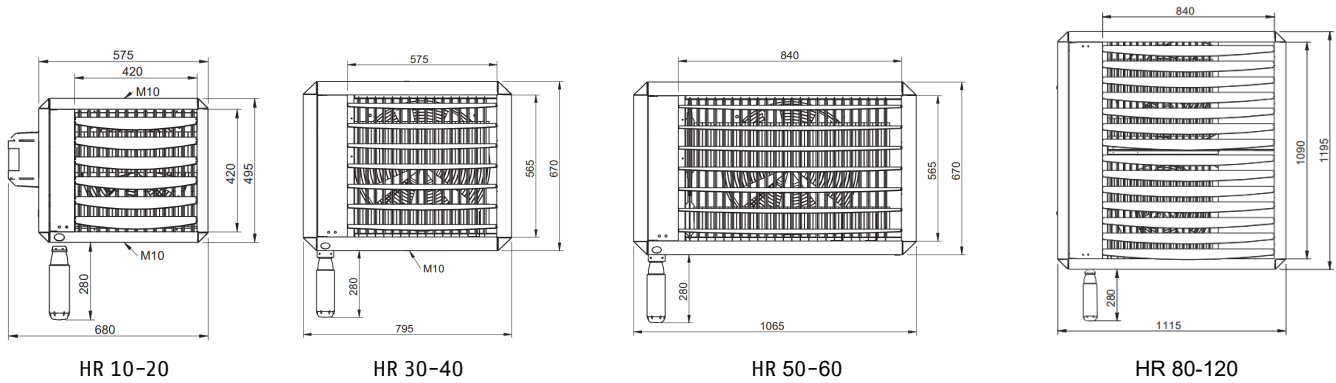
Thermostat MultiTherm

Everything is under control: Group switching of various warm air heaters, summer ventilation, destratification and the optional GLT-connection leave nothing to be desired.



Function	MultiTherm S	MultiTherm C
room temperature-sensitive modulation	●	●
summer ventilation	●	●
offset temperature setting	●	●
frost protection	●	●
failure diagnosis and reset	●	●
weekly program		●
10 programmable time blocks		●
overtime program		●
summer/winter time adjustment		●
intelligent, self-learning control system		●
password protected		●
optional remote control		●

Gas warm air heater condensing technology



HR 10-20

HR 30-40

HR 50-60

HR 80-120

Technical specification	Unit	Typ HR-5.1 (ERP2021)								
		HR10	HR20	HR30	HR40	HR50	HR60	HR80	HR100	HR120
Nominal heat load net (max.)	kW	12,5	20,0	30,0	40,0	50,0	60,0	72,0	91,0	111,0
Nominal heat load net (min.)	kW	4,0	6,0	9,0	12,0	15,0	18,0	24,0	25,0	32,0
Heat output (max.)	kW	12,0	19,2	29,0	38,8	48,3	58,0	69,8	88,3	107,7
Heat output (min.)	kW	4,2	6,4	9,5	12,8	15,9	19,1	25,4	26,5	33,9
Efficiency at full load	%	96,0	96,0	96,5	97,0	96,5	96,6	97,0	96,3	96,9
Efficiency at part load	%	106,0	106,0	106,0	106,5	106,0	106,0	106,0	106,0	106,0
Air volume flow (max.)	m ³ /h	2000	2600	3000	4500	6400	6800	11000	12900	14600
Air volume flow EC Version (max.)	m ³ /h	2200	2650	3150	4500	6700	6700	12400	13500	15400
Air volume flow EC Version (min.)	m ³ /h	1600	1700	1900	2500	4000	4000	10500	13200	11100
Horizontal casting distance (max.)	m	15	20	23	26	28	30	42	48	49
Gas connection	G"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Power supply (50 Hz)	V	230	230	230	230	230	230	230	230	230
Electrical power consumption AC (max.)	kW	0,250	0,250	0,250	0,450	0,450	0,600	0,780	0,790	1,240
Electrical power consumption AC (min.)	kW	0,250	0,250	0,250	0,450	0,450	0,600	0,630	0,620	0,790
Electrical power consumption EC (max.)	kW	0,160	0,160	0,175	0,260	0,475	0,500	0,750	0,830	1,100
Electrical power consumption EC (min.)	kW	0,044	0,044	0,046	0,060	0,100	0,100	0,390	0,620	0,800
Electrical power consumption (Standby)	kW	0,004	0,004	0,004	0,004	0,004	0,004	0,006	0,006	0,006
Nominal current AC Version (max.)	A	1,1	1,1	1,2	2,0	2,6	2,6	3,5	3,5	3,5
Nominal current EC Version (max.)	A	1,3	1,3	1,6	1,2	2,3	2,5	3,4	3,8	5,1
Nominal current EC Version (min.)	A	0,4	0,4	0,5	0,3	0,6	0,6	2,8	3	4
Protection class	-	IP 20B								
Emission efficiency (η_s , flowrate)	%	97,6	96,4	94,6	95,0	94,8	94,6	97,1	97,2	96,8
Annual efficiency	%	90,4	90,1	88,7	89,9	89,2	89,4	90,8	91,0	90,7
NOx-emission (GCV)	mg/kWh	30	21	33	40	31	44	27	21	25
NOx-class	-	5	5	5	5	5	5	5	5	5
Exhaustflowrate (max.)	kg/h	19,4	31,1	48,3	64,2	80,2	96,2	115,4	145,9	178,0
thermostat connenction	-	2-wire low voltage bus								
Chimney-exhaust pressure (max.)	Pa	90	90	90	120	120	120	150	150	150
sound pressure level in 4 m distance AC	dB(A)	56 - 58	56 - 58	56 - 58	57 - 61	61 - 64	61 - 64	56 - 61	56 - 61	56 - 62
sound pressure level in 4 m distance EC	dB(A)	42 - 54	42 - 54	43 - 55	47 - 62	48 - 64	48 - 64	50 - 60	50 - 60	50 - 61
Minimum mounting height (horizontal casting distance)	m	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7
Max. length of the exhaust system	m	9	9	9	9	9	9	9	9	9
Weight	kg	45	50	75	85	105	110	190	200	225

If you have any questions, please contact the GoGas Goch GmbH & Co. KG