

HIGH TEMPERATURE AIR HEAT PUMPS

Series HTA

The new generation of high temperature heat pumps opens new applications for industrial use.

It is possible to heat industrial processing fluids to high temperatures using waste heat from a refrigeration circuit: the global energy efficiency of the new technology becomes unbeatable.

The new heat pumps can reach a temperature of the processing fluid higher than 100°C. Electrical consumption is 5-7 times lower compared to electrical heaters.

The energy advantage is also valid comparing the new high temperature heat pumps to gas boilers; the new solution lower the energy consumption between 30% and 40%.

Refrigerant fluids used in the high temperature heat pumps are naturals with the following advantages:

- no restrictions for their use
- no toxic
- no flammable
- no explosive
- no contribution to the greenhouse effect (global warming potential GPW=1)
- no damages to the ozone layer (ozone depletion potential ODP =1)
- lower CO₂ emissions (up to 40%-50% lower) compared to current solutions

The high temperature air heat pumps HEATWER are used whenever heating and cooling are required simultaneously.

Some possible industrial applications are:

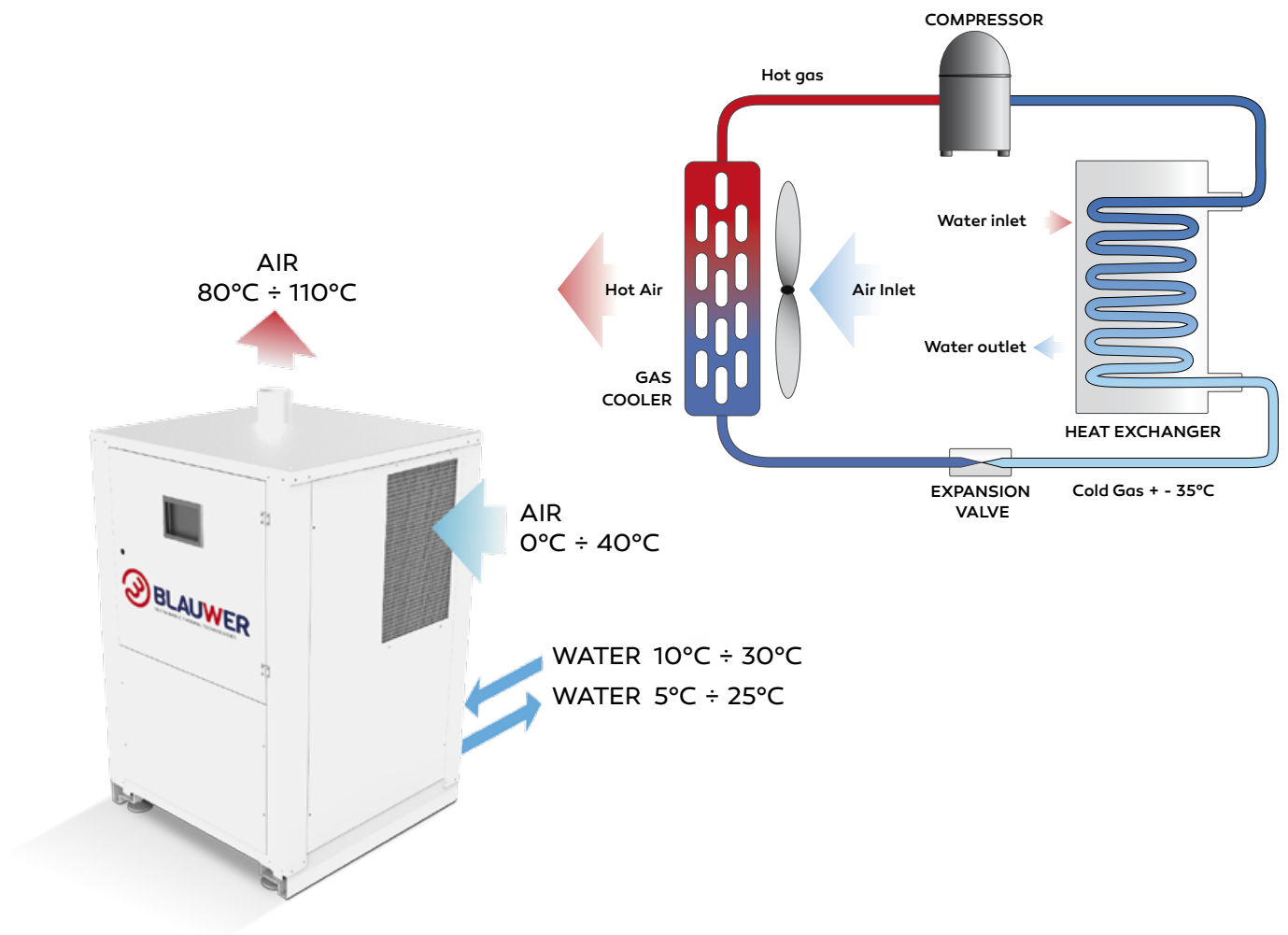
- material drying
- plastic processing
- food processing
- paper production
- chemicals
- pharmaceutical



HEATWER

HTA		Model	HTA 200	HTA 270	HTA 340	HTA 430	HTA 540	HTA 780	HTA 850	HTA 1000	HTA 1250	HTA 1600	HTA 1700	HTA 2100	HTA 2500	HTA 2800	HTA 3200	HTA 3700	HTA 4200	HTA 4800	
Heating capacity (1)	kW		5,8	7,5	9,7	12,0	15,0	22,5	24,4	28,4	34,6	46,2	48,1	58,4	72,1	78,6	92,4	104,8	117,1	132,8	
Cooling capacity (1)	kW		4,3	5,5	7,2	8,8	10,9	16,6	18,0	20,9	25,3	34,2	35,3	42,7	53,6	57,4	68,4	77,7	85,7	97,0	
Compressors total running power (1)	kW		1,8	2,4	3,0	3,9	4,8	7,0	7,7	9,1	11,2	14,4	15,3	18,9	22,3	25,4	28,8	32,7	37,5	42,9	
COP (1)			3,21	3,19	3,21	3,12	3,10	3,21	3,19	3,14	3,10	3,21	3,14	3,10	3,23	3,10	3,21	3,21	3,12	3,10	
EER (1)			2,38	2,35	2,38	2,28	2,26	2,38	2,35	2,31	2,26	2,38	2,31	2,26	2,40	2,26	2,38	2,38	2,28	2,26	
Semiermetic Compressors																					
Compressors	n°		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Refrigeration circuits	n°		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Cooling capacity steps	n°		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Air flow																					
Total air flow	m3/h		201	262	337	429	538	778	850	1006	1241	1600	1700	2096	2482	2819	3199	3631	4169	4765	
Pressure drop	Pa		77	80	103	93	117	73	80	95	88	85	90	111	93	105	90	102	84	96	

(1) Environmental air temperature 25°C and leaving water temperature 15°C
Given data refer to 400 V/3 phases/50 Hz



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Manufacturer reserve the right to change specifications without notice.