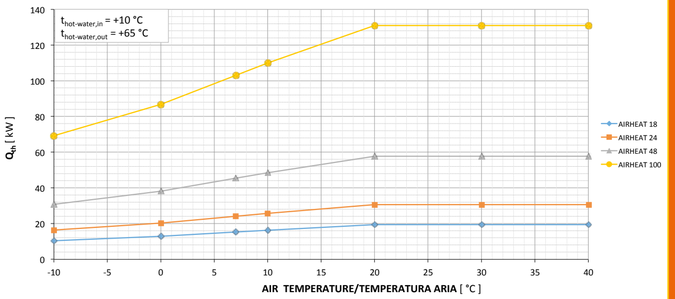
AIRHEAT PERFORMANCES AND OPTIONS

AIRHEAT PERFORMANCE

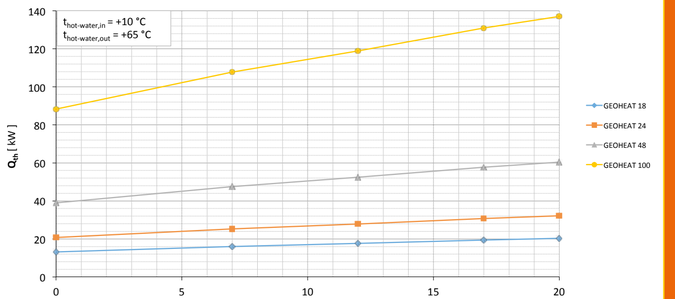


MODELS MODELLI	Water temperature Temperatura acqua in/out [°C]	AIRHEAT PERFORMANCE – Air temperature/Temperatura aria [°C]									
		-10		0		+7		+10		+20	
		COP	Qth [kW]	COP	Qth [kW]	COP	Qth [kW]	COP	Qth [kW]	COP	Qth [kW
AIRHEAT 18	+10/+55	3,20	10,40	3,70	12,80	4,20	15,10	4,50	16,00	5,40	19,10
	+10/+65	3,00	10,40	3,40	12,90	3,90	15,30	4,10	16,30	4,80	19,40
	+10/+75	2,90	10,30	3,30	13,10	3,60	15,30	3,80	16,20	4,30	19,90
AIRHEAT 24	+10/+55	3,20	16,40	3,70	20,30	4,30	23,80	4,50	25,30	5,40	30,20
	+10/+65	3,10	16,40	3,50	20,30	3,90	24,10	4,10	25,80	4,80	30,70
	+10/+75	2,90	16,20	3,30	20,80	3,70	24,10	3,80	25,70	4,40	31,40
AIRHEAT 48	+10/+55	3,30	30,80	3,80	20,30	4,30	44,80	4,60	47,70	5,50	56,80
	+10/+65	3,10	30,80	3,50	38,20	3,90	45,40	4,20	48,50	4,90	57,70
	+10/+75	2,90	30,50	3,40	39,10	3,70	45,40	3,80	48,30	4,40	59,20
AIRHEAT 100	+10/+55	3,30	69,90	3,80	86,70	4,30	101,70	4,60	108,20	5,50	128,90
	+10/+65	3,10	70,00	3,50	86,80	4,00	103,00	4,20	110,00	4,90	131,00
	+10/+75	2,90	69,30	3,40	88,70	3,70	103,00	3,90	109,60	4,40	134,30

- EVAPORATOR WITH ANTICORROSIVE CLADDING
- STRATIFIED WATER TANK
- MANOMETERS PANEL
- WEB SERVER INCLUDED FOR REMOTE MONITORING
- ELECTRONIC SOFT STARTER
- METALLIC NET TO SUPPORT THE FINNED BATTERY
- COMBINED HOT/COLD PRODUCTION (AC)

GEOHEAT PERFORMANCES AND OPTIONS

GEOHEAT PERFORMANCE



MODELS MODELLI	Water temperature Temperatura acqua in/out [°C]	GEOHEAT PERFORMANCE – Brine temperature/Temperatura acqua glicolata in/out [°C]									
		0/-3		+7/+3		+12/+7		+17/+12		+20/+14	
		COP	Qth [kW]	COP	Qth [kW]	COP	Qth [kW]	COP	Qth [kW]	COP	Qth [kW
GEOHEAT 18	+10/+55	3,70	13,10	4,40	15,70	4,90	17,20	5,40	19,10	5,70	20,20
	+10/+65	3,50	13,10	4,00	16,00	4,40	17,60	4,80	19,40	5,00	20,30
	+10/+75	3,40	13,50	3,70	15,80	4,00	17,70	4,30	19,90	4,50	21,00
GEOHEAT 24	+10/+55	3,80	20,70	4,40	24,90	4,90	27,20	5,40	30,20	5,70	31,90
	+10/+65	3,50	20,70	4,00	25,20	4,40	27,80	4,80	30,70	5,00	32,10
	+10/+75	3,40	21,30	3,70	25,00	4,00	27,90	4,40	31,40	4,50	33,20
GEOHEAT 48	+10/+55	3,80	38,90	4,50	46,80	4,90	51,10	5,50	56,80	5,80	60,10
	+10/+65	3,50	38,90	4,10	47,50	4,50	52,40	4,90	57,70	5,10	60,40
	+10/+75	3,40	40,00	3,80	47,00	4,10	52,60	4,40	31,40	4,60	62,50
GEOHEAT 100	+10/+55	3,80	88,40	4,50	106,20	5,00	116,00	5,50	128,90	5,80	136,50
	+10/+65	3,50	88,30	4,10	107,80	4,50	118,90	4,90	130,90	5,10	137,00
	+10/+75	3,40	90,80	3,80	106,70	4,10	119,30	4,40	134,10	4,60	141,90

- STRATIFIED WATER TANK
- MANOMETERS PANEL
- ELECTRONIC SOFT STARTER
- WEB SERVER

AIRHEAT GEOHEAT

ENVIRONMENT FRIENDLY CO_2

HEAT PUMPS

Enex designs and provides heat pumps for the production of hot water up to 90°C, geared towards commercial and industrial applications.

Efficiency, ease of use and application of the natural refrigerant CO_2 are the main characteristics of the two heat pump ranges: Airheat and Geoheat, Which permit a production of hot water from 3.000 to 15.000 liters/day.

Enex conceives AIRHEAT heat pumps for the production of sanitary hot water up to 90°C, using external air as a source. The main characteristics of this range are the use of CO_2 as a refrigerant and the four different capacity models.

Enex GEOHEAT heat pumps are conceived for producing sanitary hot water up to 90°C, using the same water or the ground as sources. As Airheat pumps, their main characteristics are the ease of use and the adoption of CO_2 as a refrigerant. Moreover, there are four capacity models, which allow to satisfy different power levels.

GEOHEAT

AIRHEAT

enex Clima solutions

AIRHEAT - GEOHEAT CHARACTERISTICS

- **EASE OF USE**
- **PLUG AND PLAY UNIT**
- **SOLID AND COMPACT DESIGN**
- **LOW NOISINESS: SPECIAL COMPRESSOR ASSEMBLY AND INSULATING CLADDING**
- **DEDICATED LOGIC CONTROL WITH COP OPTIMIZATION**
- **ASSISTED KEYBOARD SET UP**
- **VARIABLE SPEED FANS**
- **VARIABLE SPEED WATER PUMP**
- **STANDARD DESIGN PRESSURE 80 BAR LP SIDE- 120 BAR HP SIDE**

AIRHEAT MODELS	$Q_{th\ nom}$/COP[a] [kWt] / [-]	Production[a] [l/h]	DESIGN DATA[b]		Weight[b] [Kg]	Dimensions LxWxH[b] [mm]
			Max power in [kW]	Max current in [A]		
AIRHEAT 18	15,3/3,9	240	6,5	18	395	1100x800x1890
AIRHEAT 24	24,1/3,9	380	10	34	680	1405x905x1855
AIRHEAT 48	45,4/3,9	720	17,5	50	730	2230x905x1870
AIRHEAT 100	103,0/4,0	1620	37	90	1300	2900x1250x2415

(a) AIRHEAT nominal capacity $Q_{th\ nom}$: water in/out 10/65°C - ambient 7°C

(b) standard data (detailed data, depending on the options installed, are available on request)

GEOHEAT MODELS	$Q_{th\ nom}$/COP[a] [kWt] / [-]	Production[a] [l/h]	DESIGN DATA[b]		Weight[b] [Kg]	Dimensions LxWxH[b] [mm]
			Max power in [kW]	Max current in [A]		
GEOHEAT 18	17,6/4,4	280	5,5	15	450	1205x1040x1315
GEOHEAT 24	27,8/4,4	440	8	25	495	1205x1040x1315
GEOHEAT 48	52,4/4,5	830	15	42	510	1205x1040x1315
GEOHEAT 100	118,9/4,5	1870	34	85	900	1500x1100x1500

(a) GEOHEAT nominal capacity $Q_{th\ nom}$: water in/out 10/65°C - water source 12°C

(b) standard data (detailed data, depending on the options installed, are available on request)

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AIRHEAT - GEOHEAT APPLICATIONS

WHERE TO USE THEM?

Wherever great quantities of hot water are required and where there are peaks of use

- Restaurants/hotels/canteens
- Laundries/residential complexes/sports centres
- Hospitals/agri-food industries/gyms

HOW DO THEY WORK?

The transcritical cycle operated by CO_2 is ideal for heating water from low to high temperature. The efficiency of this process is due to the high temperature glide of the refrigerant.
High pressure/high temperature CO_2 circulates in a heat exchanger and heats up in a single passage the water main, while a variable speed heat pump monitors the temperature in the most efficient way.
The high temperature of the water makes possible the stratification in special vessels, avoiding the mix of water at different temperatures, which usually occurs with the traditional heat pumps. Moreover, by using this kind of water storage is possible to work the heat pump during night time, with consequent lower energy costs.

1	Compressor
2	Evaporator
3	Gas-cooler
4	Expansion valve
5	High efficiency pump
6	Stratified storage tank