

System Brochure

HiT

High Temperature
Heat Pump



High Temperature Heat Pump

SYSTEM INFORMATION

HiT is a highly efficient electrical heat pump that reaches top performance in conditions where other heat pumps fail. It is characterized by low consumption of electricity and is able to deliver hot water up to 80°C. It is suitable for heating of large buildings and industries.

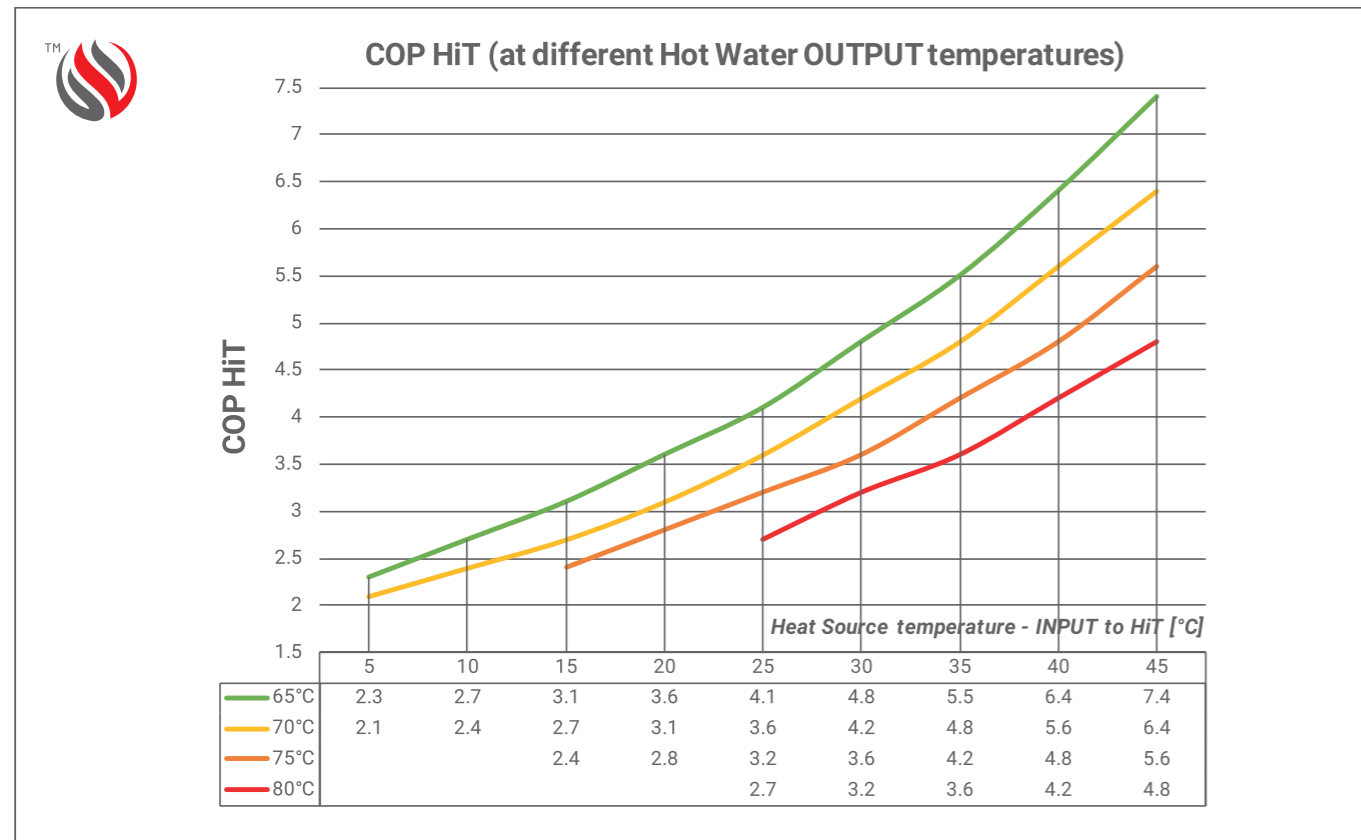
All system components are selected with the goal of utmost efficiency and quality.

The compressors we use for the HiT system are specially adapted for optimum results in heat re-

covery and high-temperature water generation. The use of stainless steel plate heat exchangers on both the user side and source side ensure a greater energy efficiency rating. This also makes maintenance much easier and reduces the amount of refrigerant fluid circulating in the system.

Just like the rest of our advanced energy systems, HiT is equipped with a remote monitoring and control software.

MAIN ADVANTAGES



The graph shows the optimal energy efficiency rate (EER) achieved by HiT with different temperatures of OUTLET hot water, as a function of the temperature of the available hot water source.

TECHNICAL DATA

MODEL		HiT-15/60-1C	HiT-25/120-2C	HiT-35/180-3C	HiT-50/240-4C
HEAT CAPACITY (1)	kW	27,2	54,3	81,5	108,6
Power input (1)	kW	6,7	13,3	20,0	26,6
Heat capacity (2)	kW	32,7	65,4	98,1	130,8
Power input (2)	kW	9,0	18,0	27,0	36,0
Number of compressors	n.	1	2	3	4
Type of compressor	--	Scroll	Scroll	Scroll	Scroll
Dimensions (LxWxH)	m	0,7x0,8x1,4	1,2x0,8x1,4	1,5x1,0x1,6	2,0x1,2x1,6
Weight	kg	320	620	900	1200

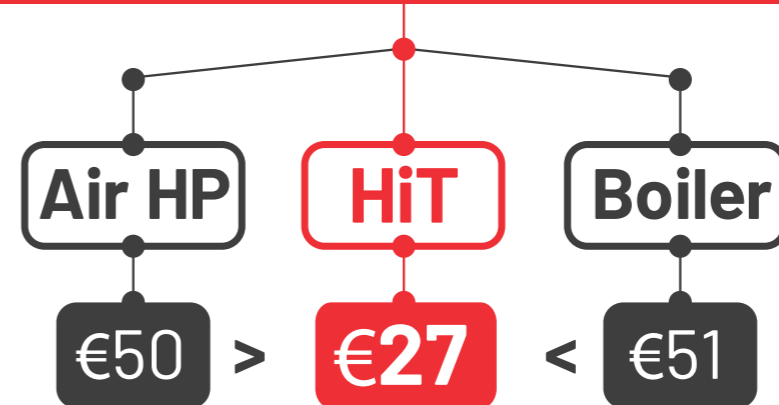
(1) - Hot water OUT temperature = 60°C; Heat source IN temperature = 20°C

(2) - Hot water OUT temperature = 75°C; Heat source IN temperature = 30°C

Technical data are indicative and could be subject to change

PARAMETER	EQUIPMENT			
	Gas fired boiler	Air-water heat pump	Water-water heat pump STD	HiT
Heating	✓	✓	✓	✓
Cooling	X	✓	✓	X
High temperature heating	✓	X	X	✓
Heat recovery	X	X	✓	✓
Heating in cold climates	✓	X	✓	✓

1MWh
Production cost per thermal MWh*



*Natural GAS - 0,5 €/m³
Electricity - 0,11 €/kWh

HiT can be easily combined with any other air-water or water-water heat pump.

In addition to the STD models of HiT presented in the brochure, we can construct customized sizes above 200 kW.

FAQs

1) WHERE IS THE PRODUCT APPLIED BEST?

The product is applicable in:

- ✔ Industrial processes where waste water is present.
- ✔ Commercial buildings such as hotels, swimming pools, etc., and residential buildings.
- ✔ Locations with available geothermal water sources.

2) WHAT ARE THE BRANDS OF THE COMPONENTS USED IN THE MACHINE?

We only use components manufactured by leading European companies in the refrigeration sector.

3) WHAT IS THE PRICE OF THE MACHINE?

The machine is usually designed and manufactured according to the particular needs of the client. We provide a tailor made solution, which is still comparable to the average industry price for a similar product.

4) WHAT ARE THE ADVANTAGES COMPARED TO SIMILAR PRODUCTS?

The **HiT** system offers:

- ✔ Higher outlet temperature.
- ✔ Higher coefficient of performance.
- ✔ It can use a higher source temperature, up to 40°C.

CONTACTS



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