



HIGH TEMPERATURE (R134A) HEAT PUMPS

High-temperature HEAT PUMPS (HTHPs) are designed to provide heat at temperatures significantly higher than standard heat pumps. These systems have diverse applications across various industries, typically where high-temperature heat is required for heating, drying, industrial processes or space heating. High-temperature heat pumps can provide the necessary heat for such processes at energy-efficient levels.

HTHPs can be used to recover waste heat from various processes and upgrade it to a higher temperature for reuse within the same system or for heating purposes. This application is particularly useful in reducing energy consumption in energy-intensive industries like steel, glass manufacturing, or power plants. Thus these are increasingly being recognized as a crucial technology for energy efficiency improvements and decarbonisation across many sectors.

APPLICATIONS

Food Industry



Pharmaceutical Industry



Textile Industry



HIGH TEMPERATURE HEAT PUMPS						
Rated heating capacity (Kw)	10 KW	15 KW	30 KW	45 KW	60 KW	90 KW
Input power* (Kw)	3.03 to 3.92	4.41 to 5.85	8.67 to 11.7	12.96 to 17.55	16.9 to 23.4	25.01 to 35.1
Max input power (Kw)	4.9	7.35	14.7	22.05	29.4	44.1
Rated current (A)	6.9	10.35	21.6	32.2	43	64.6
Max current (A)	9.6	14.6	29.2	43.5	58.1	87.2
COP* (Coefficient of Performance)	2.52 - 3.30	2.56 - 3.4	2.56 - 3.45	2.57 - 3.47	2.56 - 3.55	2.56 - 3.6
Power supply	380V/50Hz/3PH					
Refrigerant	R134A					
Rated heated water output (L/H)	125 - 130	225 - 230	440 - 450	640 - 650	880 - 900	1300 - 1350
Rated outlet hot water temperature (°C)	75					
Max outlet hot water temperature (°C)	80					
Working ambient temperature	(-) 15 °C to (+) 43 °C					
IP grade (Level of protection)	IPX4					
Anti-electric shock rate	I					
Noise (dB(A))	≤55	≤58	≤66	≤68	≤68	≤75
Water circulation (m³/H)	3	5	10	15	20	30
Diameter of pipe (mm)	DN25	DN25	DN32	DN50	DN50	DN65
Compressor	Copeland EVI					
Condenser	Efficient tank tube-in-shell					
EVI heat exchanger	Plate Heat Exchanger					
Smart Controller	Single System (Motorola Chip)		Dual system (Motorola Chip)			Four system (Motorola Chip)
Power line connect with unit	3*2.5mm2+2*1.5mm2	3*4mm2+2*2.5mm2	3*6mm2+2*2.5mm2	3*10mm2+2*4mm2	3*10mm2+2*4mm2	3*16mm2+2*6mm2
Body size (W*D*H) (mm)	1110*490*1260	1110*490*1410	1580*800*1600	1580*800*1600	1850*1000*1950	2300*1100*2300
Packing size (W*D*H) (mm)	1180*540*1390	1180*540*1540	1680*900*1800	1680*900*1800	1950*1100*2050	2400*1200*2500
Net weight/Gross weight (kg)	105/111	150/160	310/330	372/412	482/532	612/675
*The Above Specifications are subject to change without prior notice for product Improvement.						

FEATURES OF **HIGH TEMPERATURE HEAT PUMPS**



HIGH TEMPERATURE APPLICATION

Capable of Heating Fluids/Water Upto 80 Degrees C which can be used for industrial Applications and Room Heating.



PLATE HEAT EXCHANGER

Specially Designed Plate Heat Exchanger ensure maximum heat exchanging efficiency and aids in high temperature application.



SMART MOTOROLA CHIP CONTROLLERS

Use of Smart Motorola Chip aids in self diagnose and trouble free running with advanced errors notifications and long hours continuously running.



REPLACES DIESEL OR FOSSIL BASED BOILERS

These heat pumps can eliminate use of Fossil Fuel based boilers and ensure minimum carbon footprint.



EVI COMPRESSORS

Enhanced Vapor Injection Technology based Compressors ensure High COP and High Temperature Outputs in Low ambient Temperatures.



BEST IN CLASS COP

We offer best in class COP of Upto 3.6 in low ambient temperature and High Temperature Outputs.