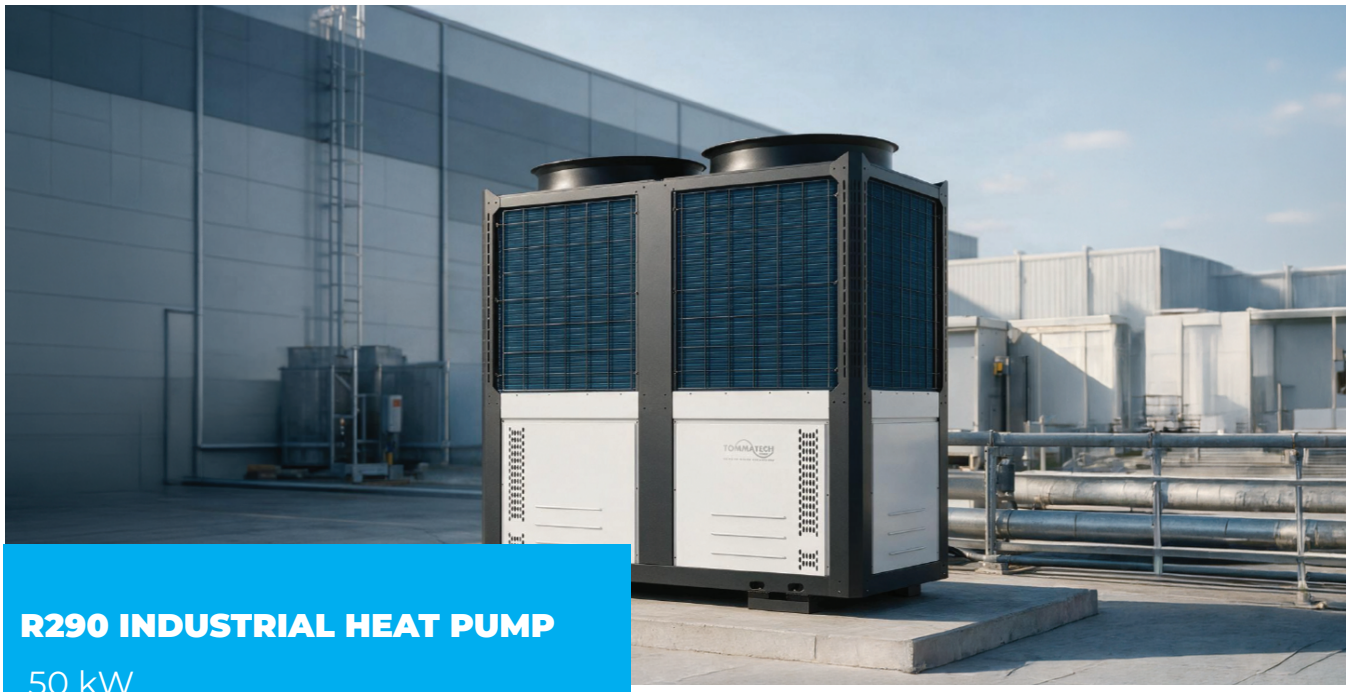
TOMMATECH R290 INDUSTRIAL HEAT PUMP

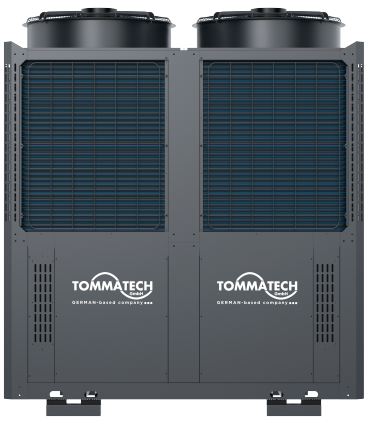
TOMMATECH GmbH
GERMAN-based company



R290 INDUSTRIAL HEAT PUMP

50 kW

- Energy Efficiency Class
- Refrigerant: R290
- Remote Control
- All-in-One Solution
- SG-READY
- All-in-One Device
- High Efficiency
- Full DC Inverter Technology: DC
- Automatic Outlet Water Temperature Control
- Low Noise Level
- Cascade System (16 Units)



TommaTech R290 Industrial Heat Pump

TommaTech R290 Industrial Heat Pumps are designed to efficiently meet the heating, cooling, and domestic hot water demands of hotels, hospitals, shopping malls, factories, commercial facilities, and large-scale projects.

Featuring the environmentally friendly natural refrigerant R290, a Full DC Inverter compressor, variable-speed fan technology, and a 7-inch touchscreen control panel, the system adapts to varying load conditions to ensure efficient, stable, and reliable operation.

With an A+++ energy efficiency rating, advanced defrost technology, and outlet water temperatures of up to 75°C, these heat pumps provide an effective solution for both new installations and the modernization of existing heating systems.

The intelligent cascade system, expandable to up to 32 units, enables centralized management of multiple heat pumps through an external 10-inch touchscreen control panel. Features such as intelligent capacity distribution, alternating operation, coordinated defrost cycles, and runtime balancing ensure efficient, stable, and balanced system performance.

www.tommatech.de
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MODEL	HP-TT-IND-50-R290	HP-TT-IND-100-R290
Refrigerant	R290	
Heating Capacity Range (kW)	13.62~50.00	27.24~104.00
Heating Power Input Range (kW)	2.34~11.68	4.68~24.53
COP Range	5.82~4.28	5.82~4.24
Domestic Hot Water (DHW) Conditions – Ambient Temperature (Dry Bulb/Wet Bulb): 7/6°C, Water Temperature (Inlet/Outlet): 50/55°C		
Heating Capacity Range (kW)	12.26~46.00	24.52~98.00
Heating Power Input Range (kW)	2.99~15.43	5.98~33.11
COP Range	4.10~2.98	4.10~2.86
Cooling Conditions – Ambient Temperature (Dry Bulb/Wet Bulb): 35/24°C, Water Temperature (Inlet/Outlet): 12/7°C		
Cooling Capacity Range (kW)	7.60~35.00	15.20~80.00
Cooling Power Input Range (kW)	1.76~12.36	
ErP Energy Efficiency Class (35°C)	A+++	
ErP Energy Efficiency Class (55°C)	A+++	
Sound Pressure Level at 1 m (dB(A))	58	60
Power Supply	380V/3Ph/50-60Hz	
Maximum Power Input (kW)	17,2	34,4
Maximum Current (A)	28	56
Rated Electric Heater Power (kW)	/	
Fuse or Circuit Breaker Rating (A)	32A	63A
Cable Cross-Section (mm²)	10	16
Pipe Diameter (mm)	2'	2 1/2"
Water Flow Rate (m³/h)	8,6	17,9
Maximum Water Pressure Drop (kPa)	255	28
Net Weight (kg)	490	958
Unit Dimensions (W × D × H) (mm)	1095×1315×2435	2190×1315×2435
Packaging Dimensions (W × D × H) (mm)	1100×1350×2535	2200×1350×2535
IP Protection Rating	IP X4	
Electrical Protection Class	/	
Compressor	Rotary Compressor	
Air-Side Heat Exchanger	Finned Heat Exchanger	
Water-Side Heat Exchanger	Plate Heat Exchanger	
Circulation Pump	/	
Fan Motor	DC Fan Motor	
Expansion Vessel Capacity (L)	/	
Built-in Domestic Hot Water Tank	/	
Built-in 3-Way Valve	/	
Control Panel	7-inch Color Touchscreen	
Operating Ambient Temperature Range (°C)	-23 ~ +43	
Maximum Outlet Water Temperature (°C)	75	
Heating Water Temperature Range (°C)	20 ~70	
Cooling Water Temperature Range (°C)	12 ~25	
Domestic Hot Water Temperature Range (°C)	30 ~70	