TOMMATECH GmbH

GERMAN-based company

Heat Pumps Catalogue

Garching - Munich Manufacturing Facility / Germany

Antalya Manufacturing Facility / Türkiye

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TOMMATECH GmbH

GERMAN-based company

In an increasingly complex world, we continuously adapt to changes and actively encourage all our partners to embrace our long-term goals and values through goal-oriented communication and a deep mutual understanding of our mission. In this way, we aim to provide a valuable contribution for future generations.

Technology

Vision:

Our vision is to be a leader in the development of advanced solar energy technologies that maximize energy efficiency, protect the ecological balance, restore harmony between humans and nature, and accelerate the global transition to renewable energy in order to achieve the set climate goals.

Mission:

We focus on continuous innovation and research to develop modern solar technology and integrate it efficiently into smart home systems, enabling our customers to benefit from connected and sustainable energy use.

Today:

Many customers are already benefiting from our modern installations, which we have seamlessly integrated into their homes. This optimizes energy consumption, allowing customers to save money immediately and reduce their carbon footprint.

Optimization

"Through intelligent optimization solutions, we achieve the most efficient use of solar energy worldwide, actively supporting the achievement of climate neutralty."

"We are committed to developing and implementing advanced automation and control technologies to optimize energy consumption in households and businesses while significantly reducing operating costs."

Our customers' current energy optimization systems have already achieved significant improvements in emissions.

Manufacturing

We aim to be a leading manufacturer of solar technologies, setting industry standards for quality and sustainability.

We are committed to producing high-quality and innovative solar products that meet the needs of the present while addressing future challenges. Through continuous improvements and investments in our production processes, we strive to maximize efficiency and minimize environmental impact.

Our customers are already benefiting from the advanced solar products manufactured in our state-of-the-art facilities. These products are not only efficient and reliable but also leading in terms of sustainability and environmental protection. The continuous optimization of our production processes guarantees products that are both economically and ecologically advantageous.

Milestones

We are pioneering solar techno- logy that plays a crucial role in contributing to energy indepenence and climate resilience.

We drive transformative change in the global use of solar energy. By developing technologies that enable significant improvements in performance and ease of use, we are setting new standards.

Customers worldwide are using our technology, and together we are accelerating the transition to renewable energy while achieving both economic and ecological benefits.

Automation

To drive the integration of intelligent automation solutions that make the interaction between solar technologies and end users seamless and intuitive.

To develop automation systems that not only operate smoothly but also adapt to consumer needs. These systems aim to optimize energy consumption, enhance operational efficiency, and accelerate the adoption of renewable technologies.

Our customers are enjoying the convenience and efficiency that our intelligent automation solutions bring to their daily lives. These technologies simplify the control of their energy supply, reduce costs, and support the transition to a more environmentally friendly future.

CE ISO SOMPO

TOMMATECH GmbH

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2014

60+

2

Transparency

Vision:

We aim to create an atmosphere of openness where everyone from our customers to our employees feels secure and well-informed.

Mission:

Clear information, no secrets that's our motto. Whether it's about the production of our products or how they function, we keep you constantly updated. We believe that well informed people make better decisions.

Today:

Our customers and partners benefit from our transparent business management. We ensure complete openness at every stage of our processes, from development to product delivery. This practice of open communication allows our stakeholders to make informed decisions and strengthens trust in long-term collaboration with our company.

Experience

We want every interaction with our company to be a positive experience for customers and partners. Our products and services should not only be reliable and innovative but also inspire enthusiasm.

Our goal is to provide each customer and partner with a personalized and valuable experience. With our extensive experience in solar technology, we know what works and we use that knowledge to exceed your expectations and make the transition to sustainable energy easier for you.

Our customers benefit directly from our many years of experience in solar technology. We deliver tailored solutions that are reliable and efficient, supporting every step of the journey toward sustainable energy. Our team ensures a seamless experience through professional advice and assistance.

Commitment

Our vision is to be a leader in the solar industry through our unwavering commitment to quality and sustainability. We strive to improve in every aspect every day from product development to our services.

Our primary goal is to consistently exceed our customers' expectations. We are committed to the highest quality and continuous improvement of our products and services. Our dedication to sustainability and ethical business practices is unwavering and guides all our actions.

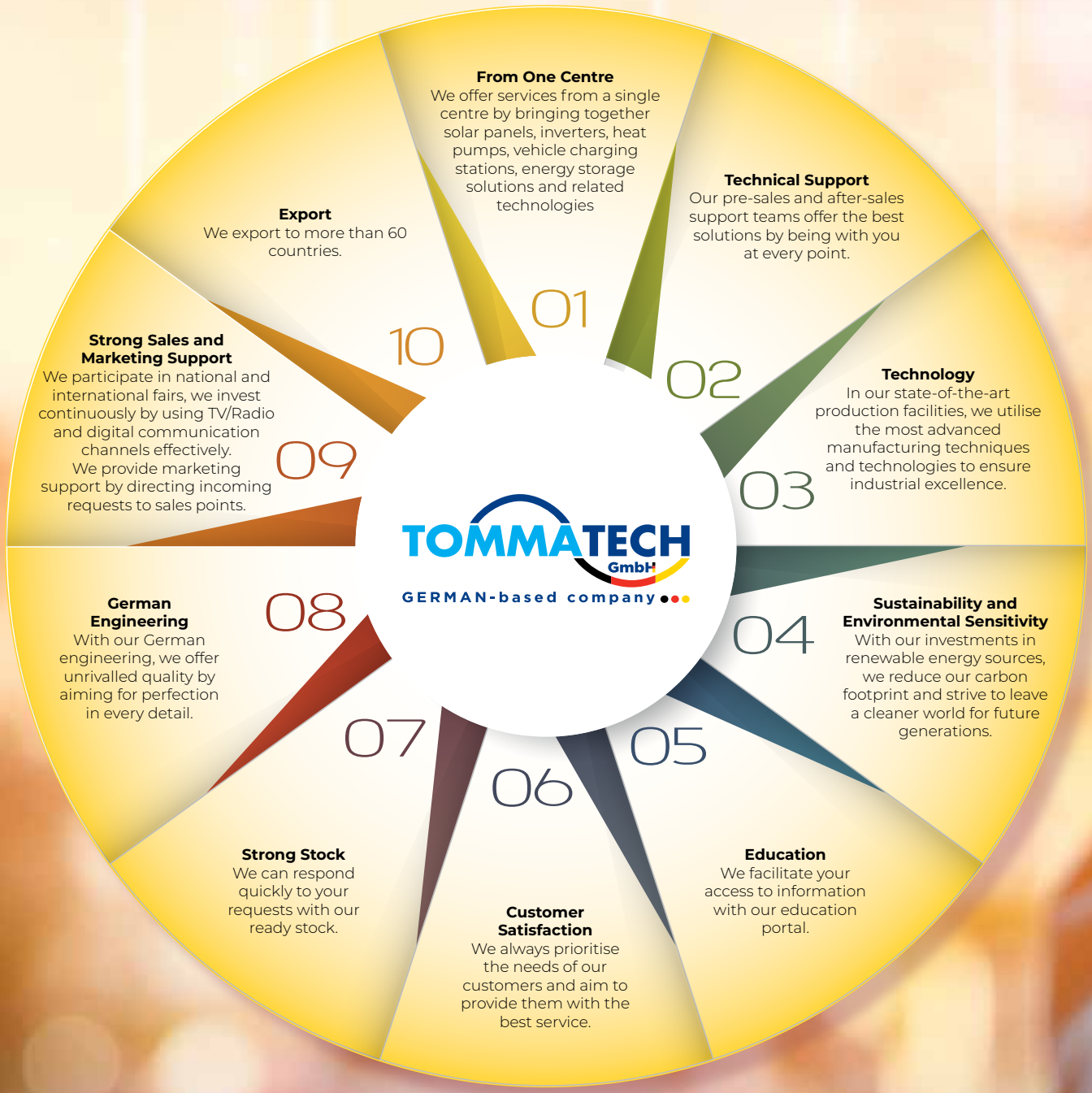
Our customers and partners can rely on our strong commitment. We employ innovative and sustainable technologies to ensure that our solutions are not only efficient but also environmentally friendly. Every project is executed with the highest standards of quality and a focus on long-term customer satisfaction.

Home Solution

We aim to transform every home into an eco-friendly energy source. Our vision is to offer advanced solar solutions that are easy to integrate and optimize household energy consumption while contributing to global sustainability.

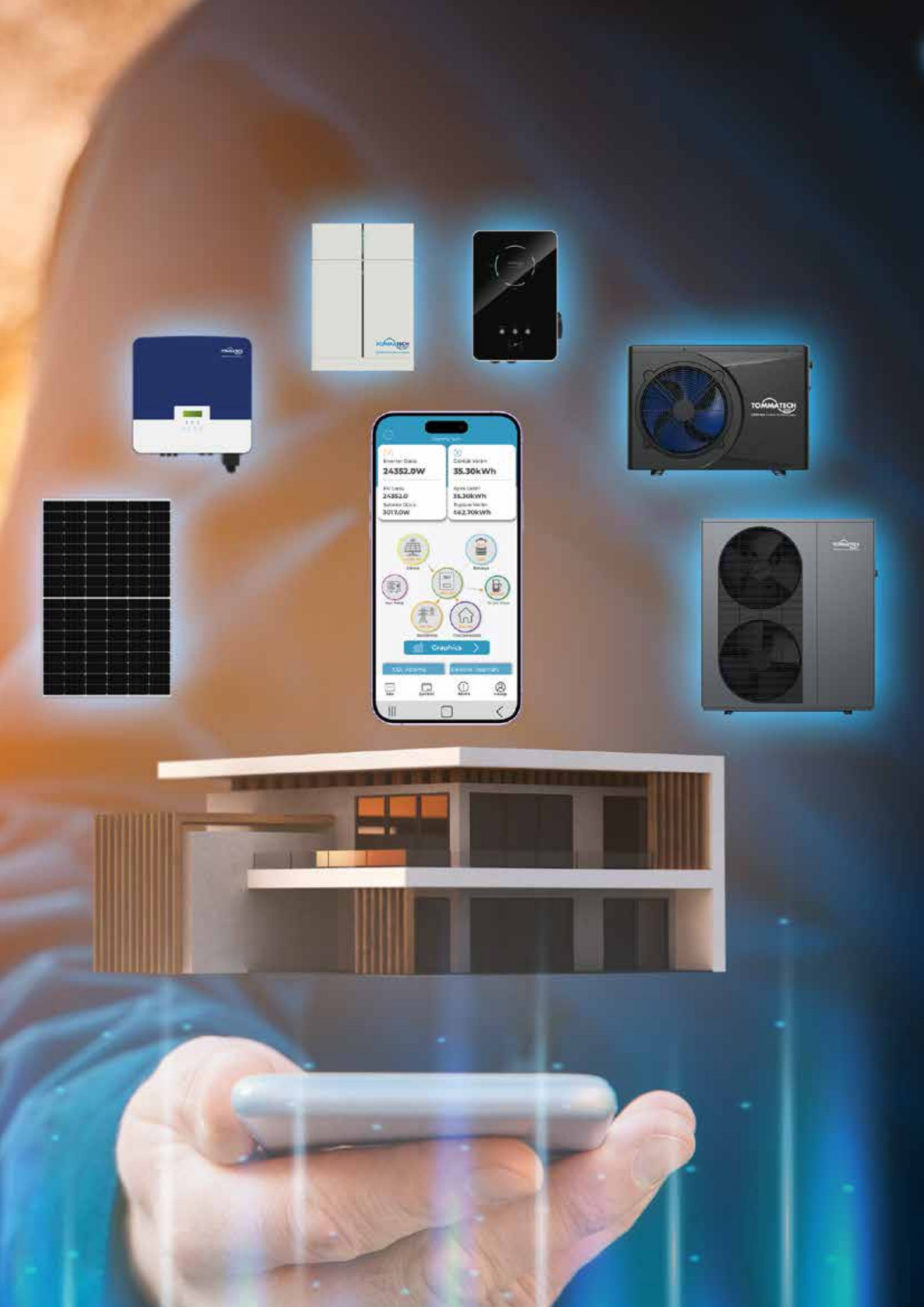
Our goal is to develop customized solar solutions tailored to the specific needs and conditions of each household. We are committed to providing our custmers with the best combination of efficiency, ease of use, and economic benefit, making the transition to renewable energy simple and appealing.

Our Home Solution products enable customers to meet their energy needs sustainably while saving costs. Homes equipped with our technology benefit from intelligent energy management and a reduced carbon footprint. Our solutions are not only environmentally friendly but also user-friendly, allowing every household to fully harness the advantages of modern solar technology.



with TommaTech

You are in control!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35.30kWh
Graphics

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DOMESTIC HEAT PUMPS

HP-RST-MF-006-N-M1

HP-RST-MF-009-N-M1

HP-RST-MF-013-N-M1

HP-RST-MF-016-N-M1

HP-RST-TF-016-N-M1

HP-RST-TF-020-N-M1

HP-RST-TF-026-N-M1

POOL HEAT PUMPS

HP-POL-MF-R32-21-N-M1

HP-POL-TF-R32-28-N-M1

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INDUSTRIAL HEAT PUMPS

HP-EVI-TT-IND-45-R410A

HP-EVI-TT-IND-86-R410A

HP-EVI-TT-IND-168-R410

SPLIT HOUSE DC INVERTER HEAT PUMPS

HP-TT-12-R32-MF-DIS

HP-TT-12-R32-MF-DIS

HP-TT-12-R32-TF-DIS

HP-TT-22-R32-TF-DIS

HP-TT-8/12-R32-MF-IC

HP-TT-18/22-R32-MF-IC

WHY CHOOSE A HEAT PUMP?

Heat pumps today offer many advantages in terms of both comfort and energy efficiency. Here are some important reasons to choose heat pumps

1. Energy Efficiency

Heat pumps are much more energy efficient than conventional heating and cooling systems. Instead of converting electricity into heat, they move the available heat from one place to another. In this way, they provide 4.5 units of heating and 3.5 units of cooling for *1 unit of electrical energy.

2. Environmentally Friendly

Buildings that generate their own electricity from the sun can meet their heating, cooling and hot water needs free of charge

3. All-Season Comfort

Heat pumps provide year-round comfort by functioning both for heating and cooling. They heat your home in winter and cool it in summer. Some models can also provide hot water.

4. Low Operating Costs

In the long term, heat pumps offer significant savings in energy costs. Thanks to their efficiency, you will experience lower energy bills.

5. Long Lifespan and Low Maintenance

Heat pumps are durable and long-lasting devices. With regular maintenance, they can operate smoothly for many years. They require less maintenance compared to traditional heating systems. Heat pumps offer many advantages both economically and environmentally. Thanks to their energy efficiency, eco-friendliness, low operating costs, and long lifespan, heat pumps provide a comfortable and sustainable heating and cooling solution for your home. By choosing a heat pump, you can both protect the environment and reduce your energy bills.

WORKING PRINCIPLE

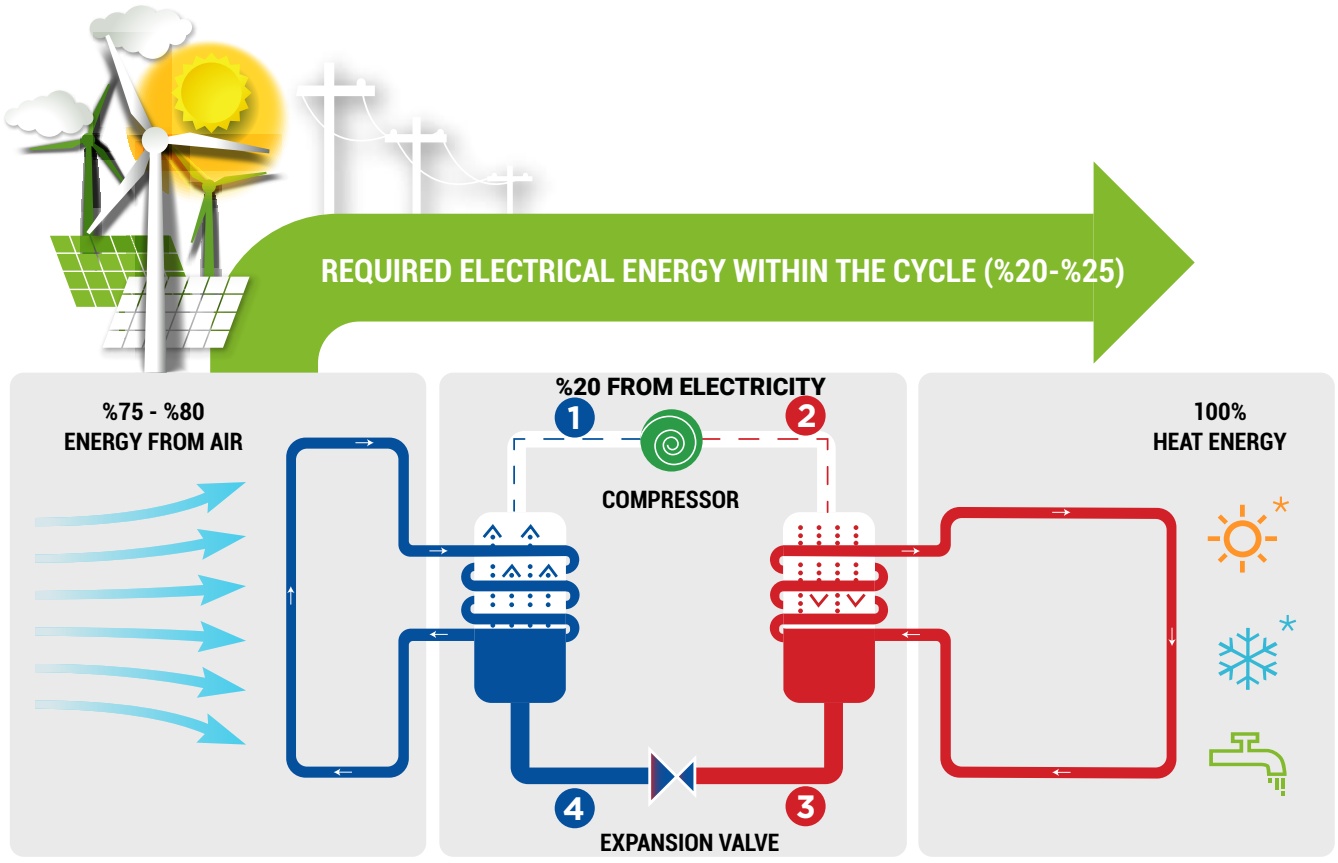
Heat pumps are machines that transfer heat energy from a low-temperature environment to a high-temperature environment. The working principle occurs in four stages as follows:

1- (1-2) Compression stage: The fluid, which has absorbed heat energy in the evaporator and is in a saturated vapor phase, enters the compressor. Here, the pressure and temperature are increased to transfer the energy to the water, and the fluid is then sent to the condenser in a superheated vapor phase.

2- (2-3) Condensation stage: In the condenser (plate heat exchanger), the energy transferred to the water causes the fluid to change phase and become a saturated liquid. The fluid is then sent to the expansion valve.

3- (3-4) Expansion stage: The liquid refrigerant, in order to increase its ability to absorb energy, is made into a vaporized state in the expansion valve according to the compressor's return temperature and pressure. The pressure and temperature are reduced, and the refrigerant is then sent to the evaporator.

4- (4-1) Evaporation stage: The refrigerant, in its vaporized state, enters the evaporator at a temperature lower than the outside air temperature and begins to absorb energy, evaporating in the process. It absorbs heat energy and is then sent to the compressor in a fully gaseous, saturated vapor phase.
The cycle then continues from this point, starting again at stage (1) in a closed loop.



MONOBLOCK HEAT PUMP (Single-Phase)

HP-RST-MF-006-N-M1 HP-RST-MF-013-N-M1
HP-RST-MF-009-N-M1 HP-RST-MF-016-N-M1

The device with a monoblock design does not require an indoor unit and therefore takes up no space inside the house. It is easy to install. Heat pumps for residential buildings are available in single-phase variants with 6 kW, 9 kW, 13 kW, and 16 kW.

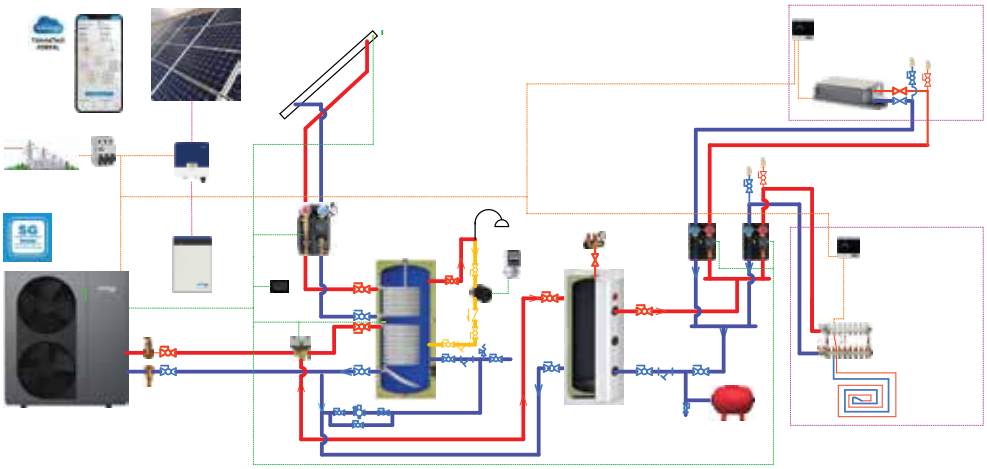
This device, which can meet the need for heating, cooling, and hot water, operates with Full DC Inverter technology and has an A+++ energy efficiency rating according to ErP standards. Thanks to EVI technology, it delivers effective performance even at low temperatures from -25°C to +43°C, offering high efficiency.

Equipped with a Mitsubishi compressor, eco-friendly R32 refrigerant, an LCD touchscreen, and Wi-Fi control for remote on/off switching, mode change, water temperature adjustment, programming, fault diagnosis, and the option for PV panel integration, the device operates at a low noise level of 42 dB.

Product Features

- Energy Class
- Refrigerant
- Economical
- WI-FI
- SG-READY
- All-in-one Device
- High Efficiency
- Full DC Inverter Technology
- Smart Water Temperature Adjustment
- EVI Technology
- Low Noise Level
- Cascade System

Connection Diagram



Model	HP-RST-MF-006-N-M1	HP-RST-MF-009-N-M1	HP-RST-MF-013-N-M1	HP-RST-MF-016-N-M1
Power Supply (V/Ph/Hz)	220-240V~/50Hz			
Refrigerant Type	R32			
(Space Heating) Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet): 30°C/35°C.				
Max. Heating Capacity	1.73~6.06	2.32~9.13	4.32~13.15	4.81~15.88
Power Input (kW)	0.28~1.31	0.38~2.04	0.71~2.90	0.81~3.91
COP	6.18~4.63	6.11~4.48	6.08~4.53	5.94~4.06
(Space Cooling) Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet): 50°C/55°C.				
Max. Cooling Capacity (kW)	1.12~5.29	1.81~8.35	3.63~11.91	3.90~15.99
Power Input (kW)	0.26~2.03	0.43~2.92	0.87~4.26	1.03~5.92
COP	4.31~2.61	4.21~2.86	4.17~2.80	3.79~2.70
(Space Cooling) Ambient Temperature (DB/WB): 35°C/ -, Water Temperature (Inlet/Outlet): 12°C/7°C.				
Max. Cooling Capacity (kW)	0.97~4.86	1.43~7.93	4.06~9.52	2.63~13.66
Power Input (kW)	0.21~1.76	0.32~2.48	1.05~3.62	0.59~4.81
EER	4.62~2.76	4.47~3.20	3.87~2.63	4.46~2.84
(Hot Water) Ambient Temperature (DB/WB): 20°C/15°C, Water Temperature 15°C to 55°C.				
Max. Heating Capacity	7,32	10,31	12.86	16.81
Power Input (kW)	1,73	2,43	3.01	3.94
COP	4,22	4,25	4.27	4.27
ErP-Level (35°C)	A+++			
ErP-Level (55°C)	A++			
Air Side Heat Exchanger	3			
Max. Power Input (kW)	5.1(2.1+3)	6.8(3.8+3)	7.4(4.4+3)	9.6(6.6+3)
Max. Operating Current (A)	23.2(9.5+13.7)	31(17.3+13.7)	33.7(20+13.7)	42.4(28.7+13.7)
Circulation Pump	Built-in			
Fan Motor Type	DC-Motor			
Water Side Heat Exchanger	Plate Heat Exchanger			
Water Pipe Connection	7 inch Color Touch Screen7-Zoll-Farb-Touchscreen			
Expansion Tank Volume (L)	2	2	Yes 2	5
Screen				
Wi-Fi Function				
Nominal Water Flow Rate (m^3/h)	1,00	1,60	2.1	2.7
Water Pressure Drop (kPa)	17,00	20,00	22	24
Water Pipe Connection	1"	1 1/4"	1 1/4"	1 1/4"
Sound Pressure Level at 1m dB (A)	38~46	43~55	43~55	44~55
Operating Range (°C)	-25~43 °C			
Max. Outlet Water Temperature (°C)	60			
Waterproof Class	IPX4			
Electric Shock Resistance	I			
Net Dimensions (W/D/H) (mm)	1180x440x715	1263x440x875	1263x440x875	1263x440x1377
Net Weight (kg)	82	107	111	120

MONOBLOCK HEAT PUMP (Three-Phase)

HP-RST-TF-016-N-M1 HP-RST-TF-026-N-M1
HP-RST-TF-020-N-M1

This monoblock-design device contains no indoor unit. Therefore, it is easy to install and takes up no space inside the home. Residential heat pumps have been developed in three variants: three-phase with 16 kW, 20 kW, and 26 kW.

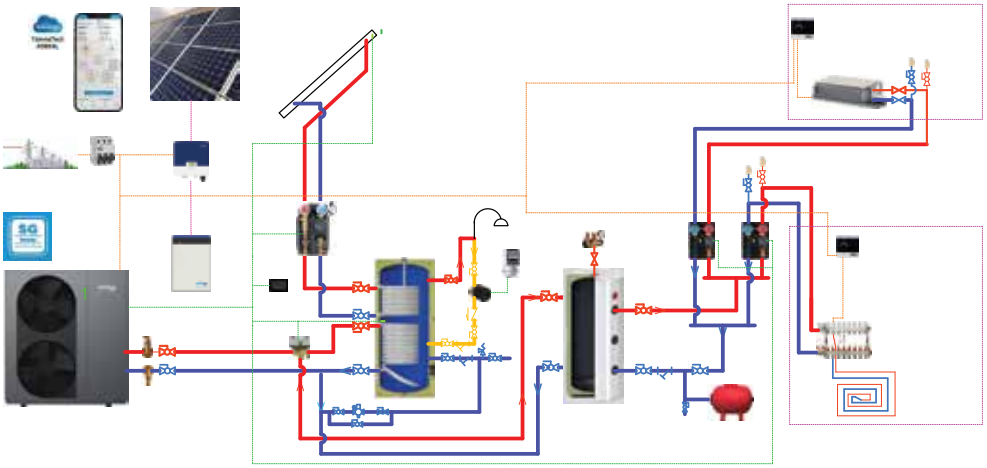
Meets the complete demand for heating, cooling, and hot water. Energy efficiency class of A+++ according to EU standards. EVI technology enables high performance at temperatures between -25°C and +43°C.

Equipped with a Mitsubishi compressor, eco-friendly R32 refrigerant, easy control through a user-friendly LCD touchscreen, remote access via Wi-Fi control, and a low noise level (42 dB).

Product Features

- Energy Class
- Refrigerant
- Economical
- WI-FI
- SG-READY
- All-in-one Device
- High Efficiency
- Full DC Inverter Technology
- Smart Water Temperature Adjustment
- EVI Technology
- Low Noise Level
- Cascade System

Connection Diagram



Model	HP-RST-TF-016-N-M1	HP-RST-TF-020-N-M1	HP-RST-TF-026-N-M1
Power Supply (V/Ph/Hz)	380-415V/3N~/ 50Hz		
Refrigerant Type	R32		
(Space Heating) Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet): Max. Heating			
Capacity	4.81~15.88	6.36~20.44	8.54~25.93
Power Input (kW)	0.81~3.91	1.08~4.61	1.46~6.08
COP	5.94~4.06	5.87~4.33	5.82~4.26
(Space Heating) Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet): 50°C/55°C.			
Max. Heating Capacity	3.90~15.99	3.41~17.69	4.67~22.27
Power Input (kW)	1.03~5.92	0.89~7.04	1.04~8.66
COP	3.79~2.70	4.32~2.51	4.28~2.57
(Space Heating) Ambient Temperature (DB/WB): 35°C/ -, Water Temperature (Inlet/Outlet): 12°C/7°C.Max.			
Cooling Capacity (kW)	2.63~13.66	3.31~16.82	4.37~21.85
Power Input (kW)	0.59~4.81	0.76~6.44	1.02~8.40
EER	4.46~2.84	4.32~2.61	4.25~2.60
(Hot Water) Ambient Temperature (DB/WB): 20°C/15°C, Water Temperature 15°C to 55°C.			
Max. Heating Capacity	16.81	23.95	31.07
Power Input (kW)	3.94	5.05	6.52
COP	4.27	4.74	4.76
ErP Level (35°C)	A+++		
ErP Level (55°C)	A++		
Electric Heater Nominal Input (kW)	3		
Max. Power Input (kW)	9.6(6.6+3)	10.2(7.2+3)	12.7(9.7+3)
Max. Operating Current (A)	42.4(28.7+13.7)	26(12.3+13.7)	30.4(16.7+13.7)
Circulation Pump	Built-in		
Fan Motor Type	DC Motor		
Water Side Heat Exchanger	Plate Heat Exchanger		
Air Side Heat Exchanger	Fin Heat Exchanger		
Expansion Tank Volume (L)	5		
Screen	7 inch Color Touch Screen		
Wi-Fi Function	Yes		
Nominal Water Flow Rate (m^3/h)	2.7	3.4	4.4
Water Pressure Drop (kPa)	24	28	31
Water Pipe Connection	1 1/4”	1 1/4”	1 1/2”
Sound Pressure Level at 1m dB (A)	44~55	45~58	46~59
Operating Range (°C)	-25~43 °C		
Max. Outlet Water Temperature (°C)	60		
Waterproof Class	IPX4		
Electric Shock Resistance	I		
Net Dimensions (W/D/H) (mm)	1263 x 440 x 1377		
Net Weight (kg)	130	135	140

Extra Large Screen
Easy to Use
Enjoyable User Experience

7-inch color touch screen

- Multilingual menu with 15 languages and support for up to 30 languages
- Scenario-based user interface for intuitive use
- Clear display of energy consumption parameters

TommaTech Heat Pumps

Offer Superior Performance with Natural Energy!

POOL HEAT PUMPS

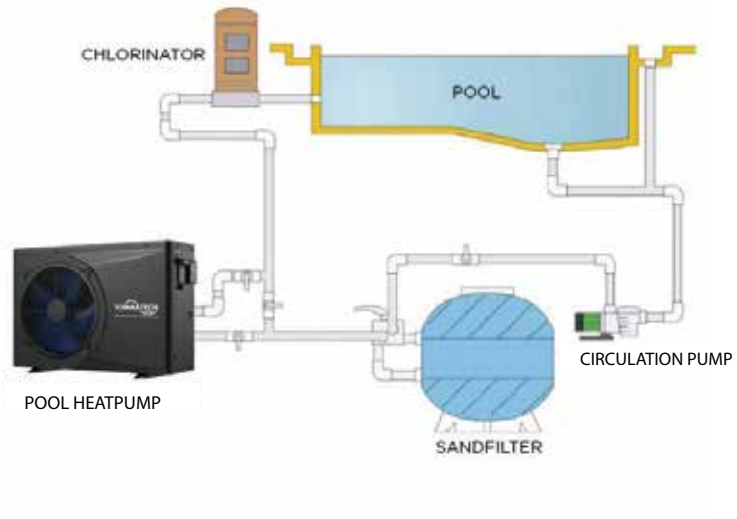
HP-POL-TF-R32-28-N-M1 HP-POL-MF-R32-21-N-M1

The TommaTech pool heat pump with a DC Twin Rotary Inverter compressor starts at 20% capacity and adjusts capacity up to 100% based on the water temperature. This design requires three times less starting current compared to traditional ON/OFF heat pumps, enabling more efficient use and lower energy consumption while protecting the household electrical system. The DC inverter compressor is equipped with a special vibration-damping design and a sound-insulating cover, allowing it to operate at a very low noise level of only 32 dB(A). This ensures comfortable conditions in your pool without compromising acoustic comfort.

Product Features

- **R32** — Refrigerant
- Economical
- WI-FI
- High Efficiency
- Low Noise Level
- **DC** — Full DC Inverter Technology

Connection Diagram



Model		HP-POL-MF-R32-21-N-M1	HP-POL-TF-R32-28-N-M1
Ambient Temperature: (DB/WB) 27°C/24.3°C; Water Inlet/Outlet Temperature:26°C/28°C.			
Heating Capacity (kW)		4.72~21.2	4.95~28.1
Power Input (kW)		0.33~3.59	0.35~5.1
COP		14.3~5.91	14~5.51
Boost Mode	Heating Capacity (kW)	21.2	28.1
	COP	5.91	6.15
Smart Mode	Heating Capacity (kW)	17	22.61
	COP	7.85	7.42
Silent Mode	Heating Capacity (kW)	10.2	13.91
	COP	10.1	11.8
Ambient Temperature: (DB/WB) 15°C/12°C; Water Inlet Temperature: 26°C / 28 °C			
Heating Capacity (kW)		3.5~14.2	4.05~18.5
Power Input (kW)		0.47~2.88	0.537~3.737
COP		7.45~4.93	7.54~4.95
Boost Mode	Heating Capacity (kW)	14.2	18.5
	COP	4.93	4.95
Smart Mode	Heating Capacity (kW)	11.2	14.63
	COP	5.8	5.72
Silent Mode	Heating Capacity (kW)	7.5	9.31
	COP	6.5	6.51
Power Supply (V/Ph/Hz)		220-240V / 1Ph / 50Hz	380-415V / 3Ph / 50Hz
Max. Power Input (kW)		4.1	5.4
Max. Current (A)		18.8	10.2
Operating Temperature Range (°C)		-10~+43 °C	
Heating Temperature Range (°C)		+15~+40 °C	
Refrigerant Type		R32	
Compressor Brand		Mitsubishi	
Sound Pressure at 1m dB(A)		35~52	36~55
Water Flow (m^3/h)		9.1	12
Water Pressure Drop (kPa)		32	38
Net Dimensions (L*W*H)(mm)		1130 x 445 x 775	
Net Weight (kg)		75	90
Water Pipe Connection (mm)		50	

TOMMATECH GmbH

PORTAL

experience the

COMFORT OF THE FUTURE

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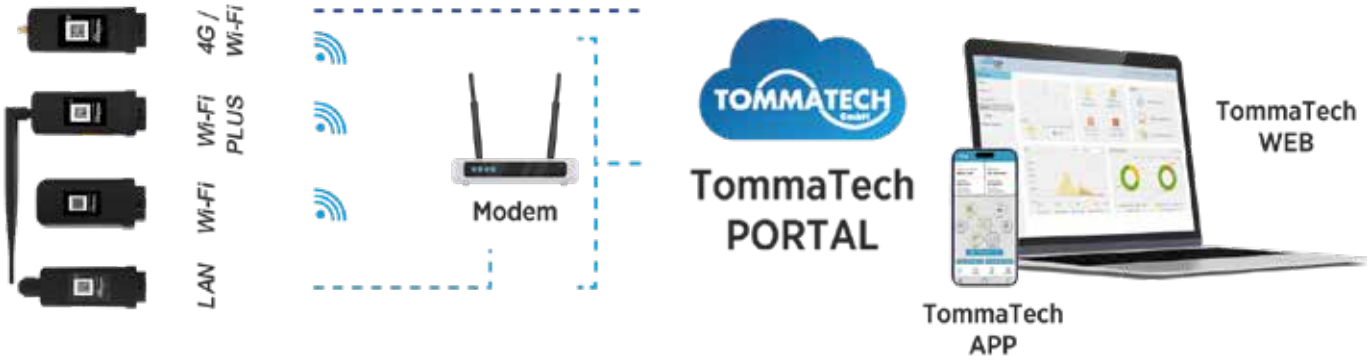
"One Brand, One Application"

Easy Use

With TommaTech Portal, you can easily provide remote monitoring and control of all your devices through a single application. You can make many setting changes and remote monitoring from the voltage and current values you receive from the panels to the occupancy rate of your high voltage battery, from the instantaneous power requirement of your home to the instantaneous consumption of the EV Charger, from the operating mode selection of the hybrid inverter to the water temperature change via the heat pump.

Easy Access

Thanks to various remote monitoring accessories, it offers the option of remote monitoring either wired or wirelessly depending on the installation location.
You can easily log in from anywhere at any time via WEB or APP. By logging in via WEB, you can access the detailed data of your system and create reports on a daily, monthly or annual scale.



1 PV Panel

2 BIPV Panel

5 Lithium Battery

6 EV Charging Unit

TOMMATECH

PORTAL

"Experience the comfort of the future."

With TommaTech Portal,
control of your home is at your fingertips.

9 Residential Heat Pump

10 Fan Coil Heating & Cooling

13 Hot Water

14 Solar Th

3 Waterproof Panel

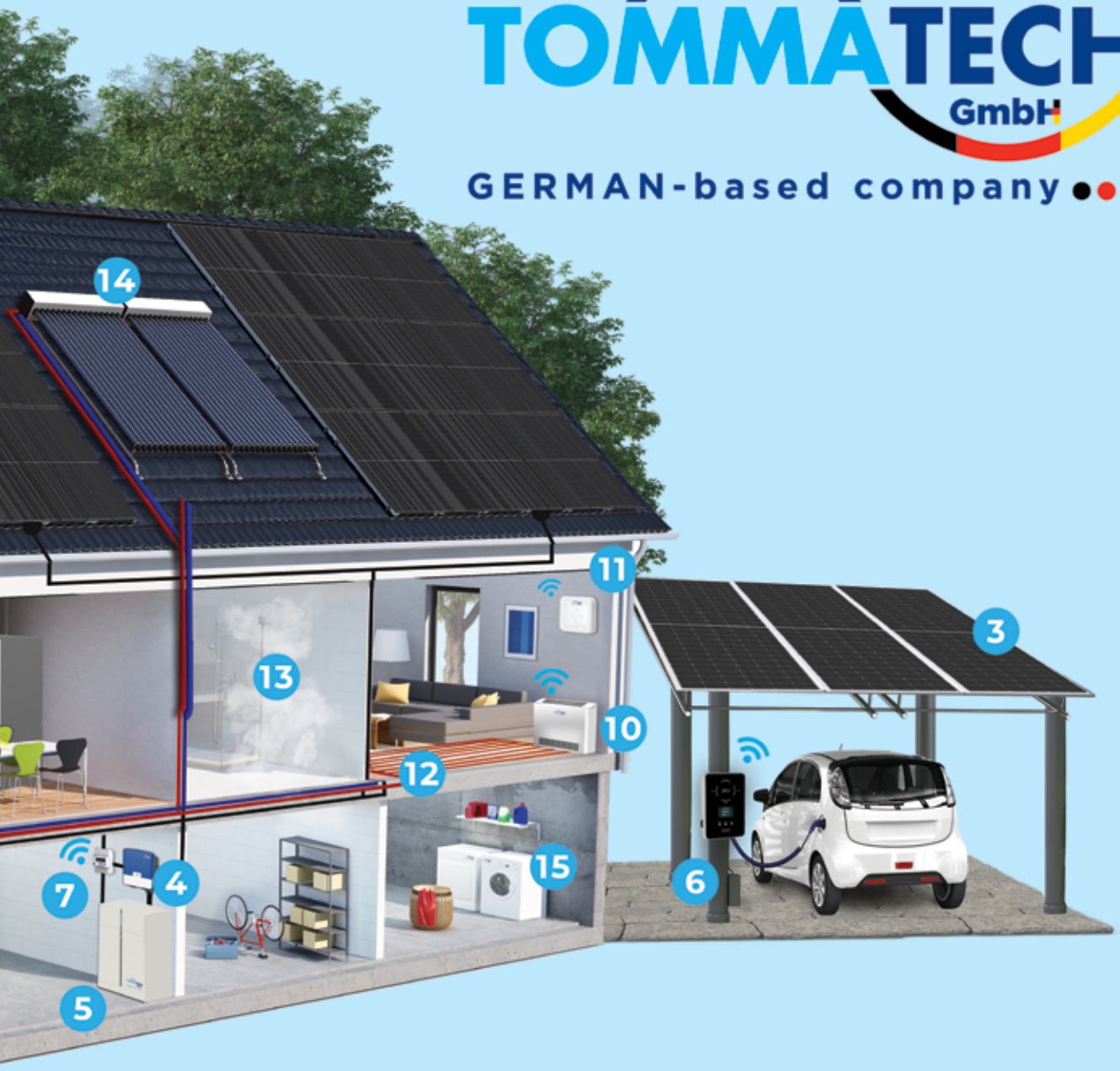
4 Inverter

7 Smart Meter

8 Pool Heat Pump

TOMMATECH GmbH

GERMAN-based company



11 Room Termostat

12 Underfloor Heating

ermal Panel

15 Household Appliances

FAN COIL HEATING & COOLING

Cassette · Without Cassette · High Wall · Cassette Upholstery

Experience the Comfort of the Future

· Experience the comfort of a heat pump with a fan coil in your home every season.

· In summer, it is used for cooling, and in winter, for heating.

· First, the air in the environment is drawn in through the filters in the fan coil units.

· The air is then directed through pipes to the main source, the coil.

· The air in the coil is conditioned to either hot or cold, depending on the room temperature and demand.

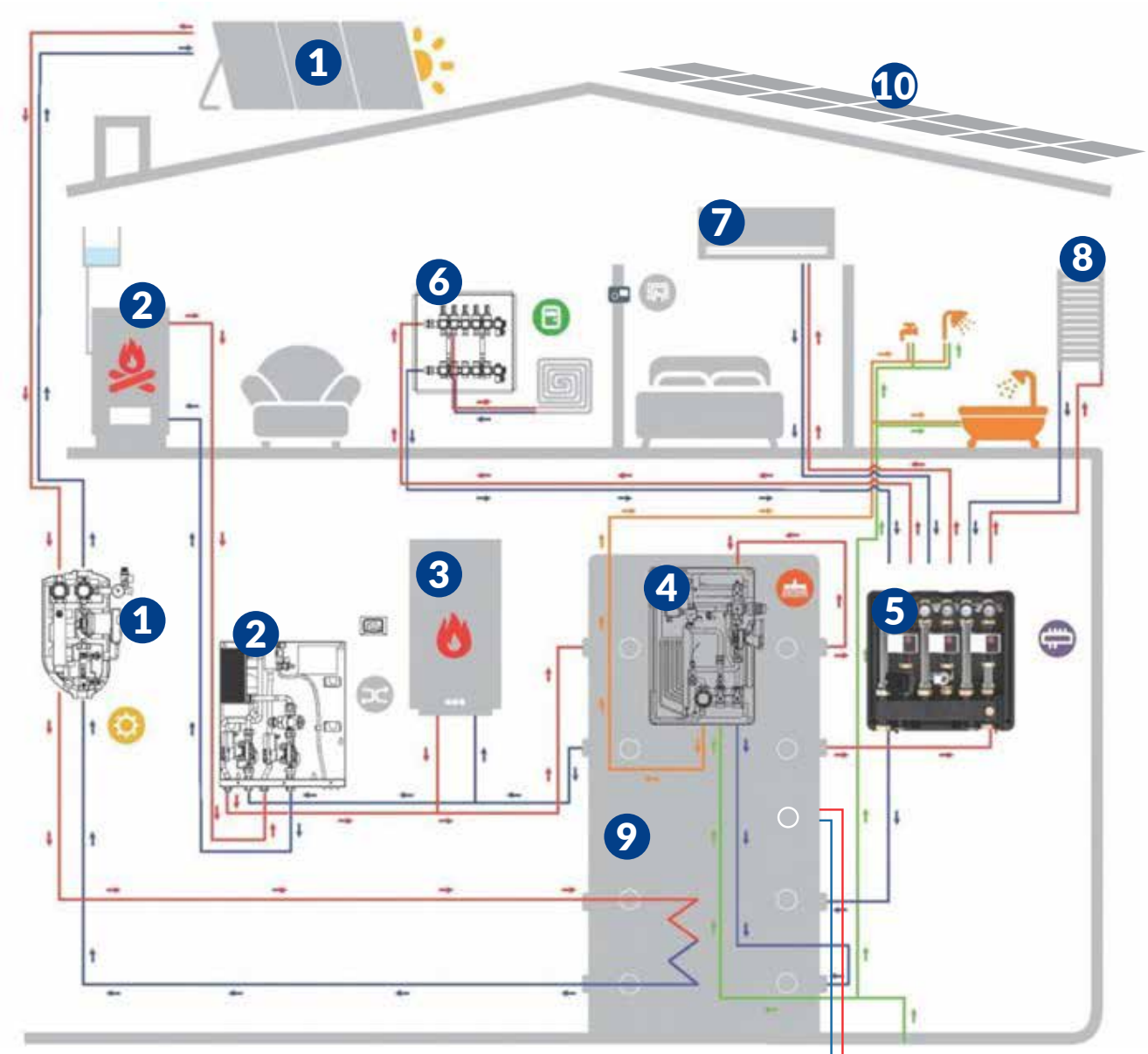
· After the air is adjusted to the desired temperature, it is blown back into the indoor environment through the channels in the fan coil.

Cassette-Free Concealed Ceiling Fan Coil Unit

Cassette 4-Way Airflow Fan Coil Unit

High Wall Fan Coil Unit

Cassette Floor-Wall Fan Coil Unit



1. Hot Water & Radiator Heating with Solar Thermal Support
2. Fireplace Integration
3. Backup from Gas Boiler or Heat Pump
4. Instant Domestic Hot Water Supply
5. Radiator Heating Pump Groups
6. Underfloor Heating Manifold
7. Fan Coil
8. Towel Radiator
9. Buffer (Thermal Storage) Tank
10. Solar Panel (PV or Solar Thermal depending on context)

INDUSTRIAL HEAT PUMP

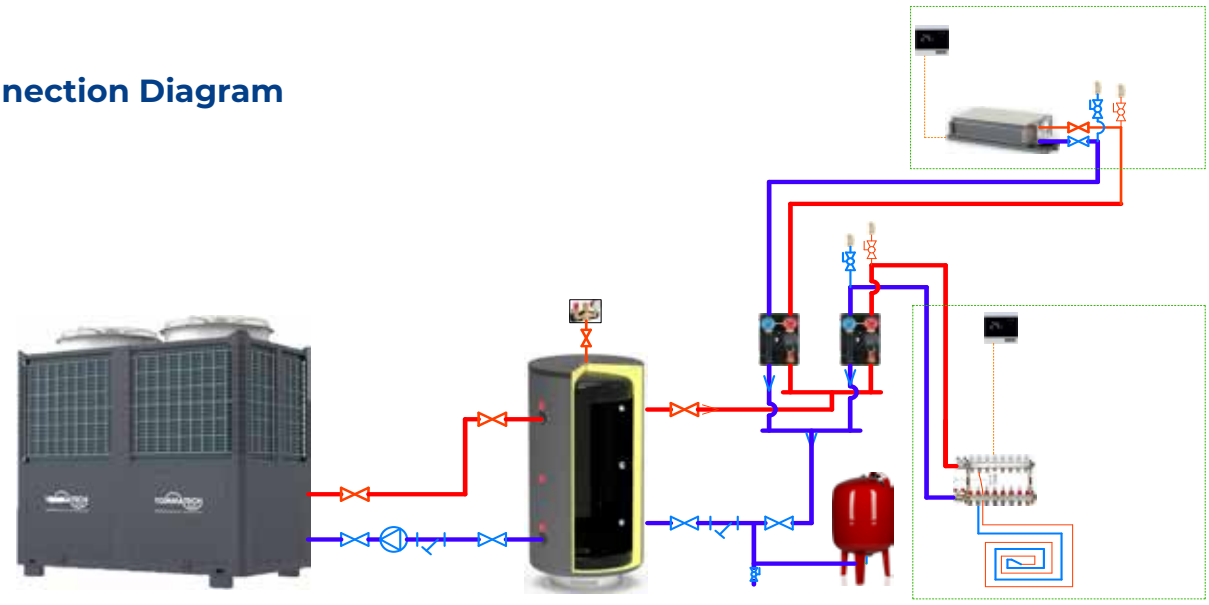
HP-EVI-TT-IND-45-R410A HP-EVI-TT-IND-86-R410A HP-EVI-TT-IND-168-R410

The TommaTech Industrial Heat Pump offers an ideal solution for heating and cooling needs in large-scale hotels, shopping malls, hospitals, public spaces, and small-scale business facilities, particularly in cold climate regions. It maintains its efficiency even at ultra-low temperatures, working stably down to -25°C. With its central air conditioning-driven multi-coils, it provides cooling during summer months, and in winter, it heats the room by blowing warm air, offering a comfortable heating experience similar to underfloor heating. This presents an affordable alternative to water-based underfloor heating systems. Thanks to EVI technology, it continues to operate without losing performance even under the most challenging conditions, and even delivers superior performance in temperatures below -25°C.

Product Features

- R410A — **Refrigerant**
- -25°C — **Outdoor Air Conditioners**
- **Heating & Cooling**
- **High Efficiency**
- **Cascade System**

Connection Diagram



Model	HP-EVI-TT-IND-32-R410A	HP-EVI-TT-IND-45-R410A	HP-EVI-TT-IND-86-R410A	HP-EVI-TT-IND-168-R410A
Power Supply (V/Ph/Hz)	380-415V/3N~/50Hz			
Operating Temperature Range (°C)	-25~43			
[Area Heating] Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet):: 30°C/35°C.				
Heating Capacity	33.68	46.35	88.58	173.04
Power Input (kW)	9.36	13.17	24.07	49.16
COP	3.6	3.52	3.68	3.52
[Area Heating] Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet): 50°C/55°C.				
Heating Capacity (kW)	27.28	37.54	71.75	140.16
Power Input (kW)	11.14	15.14	29.17	56.52
COP	2.45	2.48	2.46	2.48
[Area Cooling] Ambient Temperature (DB/WB): 35°C / -, Water Temperature (Inlet/Outlet): 12°C/7°C.				
Cooling Capacity (kW)	23.2	35	65	130
Power Input (kW)	8.35	12.2	23.8	46.6
EER	2.78	2.65	2.73	2.79
Max. Power Input (kW)	13.5	19	36	71
Max. Operating Current (A)	25	34	65	131
Max. Outlet Water Temperature (°C)	60			
Nominal Water Flow Rate (m^3/h)	5.79	7.97	15.23	29.76
Water Pressure Drop (kPa)	60	40	45	60
Sound Pressure Level at 1m (dB(A))	≤64	≤68	≤69	≤75
Refrigerant Type	R410A			
Water Connection (inch)	G1-1/4" (Male)	G1-1/2" (Male)	2-1/2" (Flange)	2 1/2"(Flange)
Waterproof Class	IPX4			
Net Dimensions (W/D/H) (mm)	1555×870×1322	1500×860×1430	1954×957×2021	2400×1300×2260

TOMMATECH SPLIT EVI DC INVERTER HEAT PUMPS

HP-TT-12-R32-MF-DIS
HP-TT-18-R32-MF-DIS
HP-TT-12-R32-TF-DIS
HP-TT-22-R32-TF-DIS
HP-TT-8/12-R32-MF-IC
HP-TT-18/22-R32-MF-IC

The TOMMATECH Split EVI DC Inverter Heat Pump is specially designed for the European market, addressing the needs of space heating/cooling and hot water supply. This unit can provide space heating through terminal units such as fan coils and ensure the supply of domestic hot water. Compatible with underfloor heating systems and radiators, this device is commonly used in small and medium-sized apartments, as well as large villas.

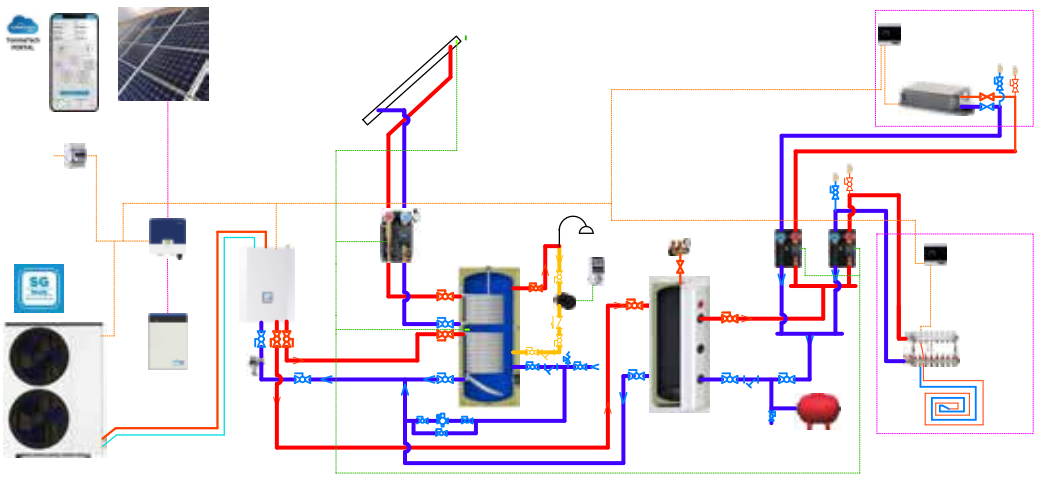
The split design with an indoor unit and outdoor unit offers easy installation, a screwless appearance, and a modern compact structure. The TOMMATECH Split Heat Pump is an ideal choice for homeowners, thanks to its advanced remote diagnostic system.

Product Features

A+++ R32 COP 4.65 -30 °C IoT CS 13

Panasonic DC Inverter
Smart Defrost
WI-FI
Low Noise
5 Operating Modes
Connection Control

Connection Diagram



DC INVERTER HEAT PUMP (R32) FOR COOLING, HEATING, AND HOT WATER - OUTDOOR UNIT

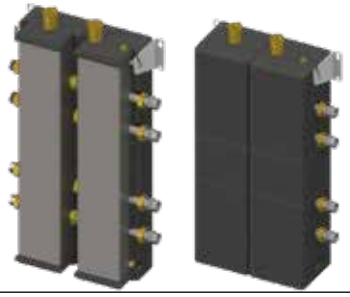
Product Model		HP-TT-12-R32-MF-DIS	HP-TT-18-R32-MF-DIS	HP-TT-12-R32-TF-DIS	HP-TT-22-R32-TF-DIS
Heating	Heating Capacity Range (kW)	6.5~12.6	8.6~18.0	6.5~12.6	10.5~22
	Power Input (Heating) (kW)	1.41~2.99	1.85~4.24	1.41~2.99	2.27~5.2
	COP (Heating)	4.21~4.62	4.25~4.65	4.21~4.62	4.23~4.63
Cooling	Cooling Capacity (kW)	4.2~8.2	6.2~12.3	4.2~8.2	7.2~14.2
	Power Input (Cooling) (kW)	1.30~3.33	1.86~4.80	1.30~3.33	2.17~5.55
	EER (Cooling)	2.46~3.23	2.56~3.33	2.46~3.23	2.56~3.32
Hot Water	Hot Water Heating Capacity (kW)	5.5~10.5	7.3~14.6	5.5~10.5	8.8~17.5
	Heating Input Range (kW)	1.42~3.42	1.85~4.66	1.42~3.42	2.24~5.61
	COP Range	3.07~3.86	3.13~3.95	3.07~3.86	3.12~3.93
	Hot Water Output (L/S)	225	313	225	375
Refrigerant		R32			
Power Supply		230V/1Ph/50- 60Hz		380V/3Ph/50 60Hz	
Operating Temperature Range (°C)		-30~43			
IP Rating (Protection Level)		IPX4	IPX4	IPX4	IPX4
Anti-Electric Shock Rating		I	I	I	I
Sound Level (dB(A))		≤55	≤57	≤55	≤58
Net Weight (kg)		95	135	95	140
Dimensions (W*D*H) (mm)		1030×475×970	1000×480×1380	1030×475×970	1000×480×1380
ErP Rating (35°C)		A+++	A+++	A+++	A+++
ErP Rating (55°C)		A++	A++	A++	A++
Four-Way Valve		Sanhua			
Expansion Valve		Sanhua			
Operating Water Temperature (°C) for Hot Water		20~55			
Operating Water Temperature (°C) for Heating		20~50			
Operating Water Temperature (°C) for Cooling		7~35			

Description:
Heating operating conditions: Inlet water temperature 30°C, Outlet water temperature 35°C, Dry bulb temperature 7°C, Wet bulb temperature 6°C.
Cooling operating conditions: Inlet water temperature 12°C, Outlet water temperature 7°C, Dry bulb temperature 35°C, Wet bulb temperature 24°C.
Hot water operating conditions: Inlet water temperature 15°C, Outlet water temperature 55°C, Dry bulb temperature 7°C, Wet bulb temperature 6°C.

DC INVERTER HEAT PUMP (R32) FOR COOLING, HEATING, AND HOT WATER - INDOOR UNIT

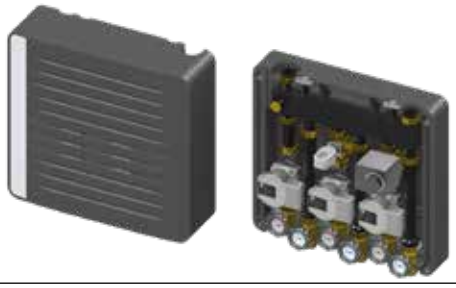
Product Model	HP-TT-8/12-R32-MF-IC	HP-TT-18/22-R32-MF-IC
Power Supply	230V/1Ph/50-60Hz	
Water Pump Type	SHIMGE / Adjustable DC Inverter	
Maximum Water Head (m)	9	12
Backup Electric Heater (kW)	3	3
Expansion Tank (L)	8	5
Safety Valve (MPa)	0.3	0.3
3-Way Valve		ACOL/DN25
2-Way Valve	/	/
Pipe Diameter (mm)	DN25	
Water Pressure Drop (kPa)	25	35
Dimensions (G*D*Y) (mm)	700×520×272	740×520×312
Net Weight (kg)	38	42
Applicable Models	HP-TT-12-R32-MF-DIS	HP-TT-18-R32-MF-DIS
	HP-TT-12-R32-MF-DIS	HP-TT-18-R32-MF-DIS
		HP-TT-22-R32-TF-DIS

BUFFER TANK 40 LT



- It gathers multiple heat sources into a single system, increasing efficiency.
- Compact module (440 x 890 x 220 mm) takes up little space.
- Capacity: 40 liters.
- High insulation with EPP (Expanded Polypropylene Foam).
- Includes automatic air purger, sensor pocket (on top), and temperature sensor holder.

INSULATED DISTRIBUTION PUMP GROUP



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- Includes automatic air purger, sensor pocket (on top), and temperature sensor holder.

ENERGY-EFFICIENT HYGIENIC HOT WATER 100 LT

- The system activates when the temperature exceeds 58°C, ensuring that the domestic hot water is ready for use.
- It prevents the formation of Legionella bacteria, which cause Legionnaires' disease.
- By adjusting the inlet water temperature to the plate heat exchanger, it prevents lime scale buildup.
- The control panel includes two circulation pumps and a 3-way valve.

SOLAR THERMAL SUPPORTED PUMP GROUP

- The control panel adjusts the inlet water temperature for the thermal solar panel. It circulates the heated fluid to the tank for proper circulation.
- The control panel includes two circulation pumps and a two-way valve.
- The temperature of the water from the thermal solar energy is measured with a temperature sensor, and the two-way valve opens/closes to protect the heat exchanger from freezing.
- Suitable for 150 m^2 solar thermal panels.

3-CONNECTION DISTRIBUTION MANIFOLD

- It is available with 2, 3, and 5 connections.
- Pump groups can be connected to different heat emitters to ensure the circulation of fluids.
- Includes union connections and insulation.

BALANCE TANK

- By reducing the temperature difference between the supply and return water, it prevents damage to the heat pump.
- The air purger, insulation, and dirt filter are integrated into the balance tank.

COMPACT PUMP GROUP

- The circulation pump, valve, and thermometers are included.
- It ensures the movement of the fluid against the resistances created to reach the heat emitters.
- It has a low temperature protection function.

THREE-WAY PUMP GROUP

- Supplied complete with circulation pump, insulation, three-way valve, and actuator.
- Ensures fluid movement by overcoming the resistance encountered in reaching the heat emitters.
- In underfloor heating applications, the temperature can be regulated via the pump group to prevent supply temperatures from exceeding 40°C.

SOLAR THERMAL ASSISTED PUMP GROUP

- Connected to the solar thermal panel and transfers the heated fluid to the storage tank, ensuring a continuous supply of hot water in the tank.
- Includes a connection fitting for the expansion tank, a pressure gauge, and an air vent device.
- Supplied complete with circulation pump, insulation, thermometers, and valves.

ELECTRONIC CIRCULATION PUMP

- Used in heating and cooling lines to improve overall system efficiency.
- Features a frequency converter (inverter), enabling energy savings.
- Operates at variable speeds in mechanical installations, helping to reduce noise.

DOMESTIC HOT WATER CIRCULATION PUMP

- Ensures that domestic hot water circulating in the line remains at the desired temperature at all times.
- Prevents the formation of bacteria responsible for Legionnaires' disease.
- Offers easy operation and delivers high efficiency.

CIRCULATION PUMP 25/8/180

- Used in heating and cooling lines to enhance system efficiency.
- Equipped with a frequency converter (inverter), providing energy savings.
- Operates at variable speeds within mechanical installations, reducing noise levels.

MANIFOLD GROUP WITH FLOW INDICATOR

- Flow-adjustable manifolds made of stainless steel.
- The flow rate for each heating circuit can be adjusted in liters per minute (l/min).
- Hydraulic balancing is achieved on the supply line through adjustable flow indicators at each outlet.
- Supplied complete with valves, actuators, thermometers, and drain valves.
- Available with 3 to 12 circuit connections (3, 4, 5, 6, 7, 8, 9, 10, 11, 12).

RUBBER FEET

- Absorbs vibration and noise generated by the heat pump, preventing damage to components.
- Contributes to the extended service life of the heat pump.
- Load capacity: 600 kg per pair
- Dimensions per unit: 600 x 190 x 95 mm
- Aluminum length: 560 mm

Weight per unit: 6 kg

AUTOMATIC AIR VENT

- Automatically releases air trapped in the system, ensuring efficient operation.
- Reduces flow noise, circulation issues, and performance losses.
- Helps prevent corrosion damage.
- Minimizes maintenance requirements.

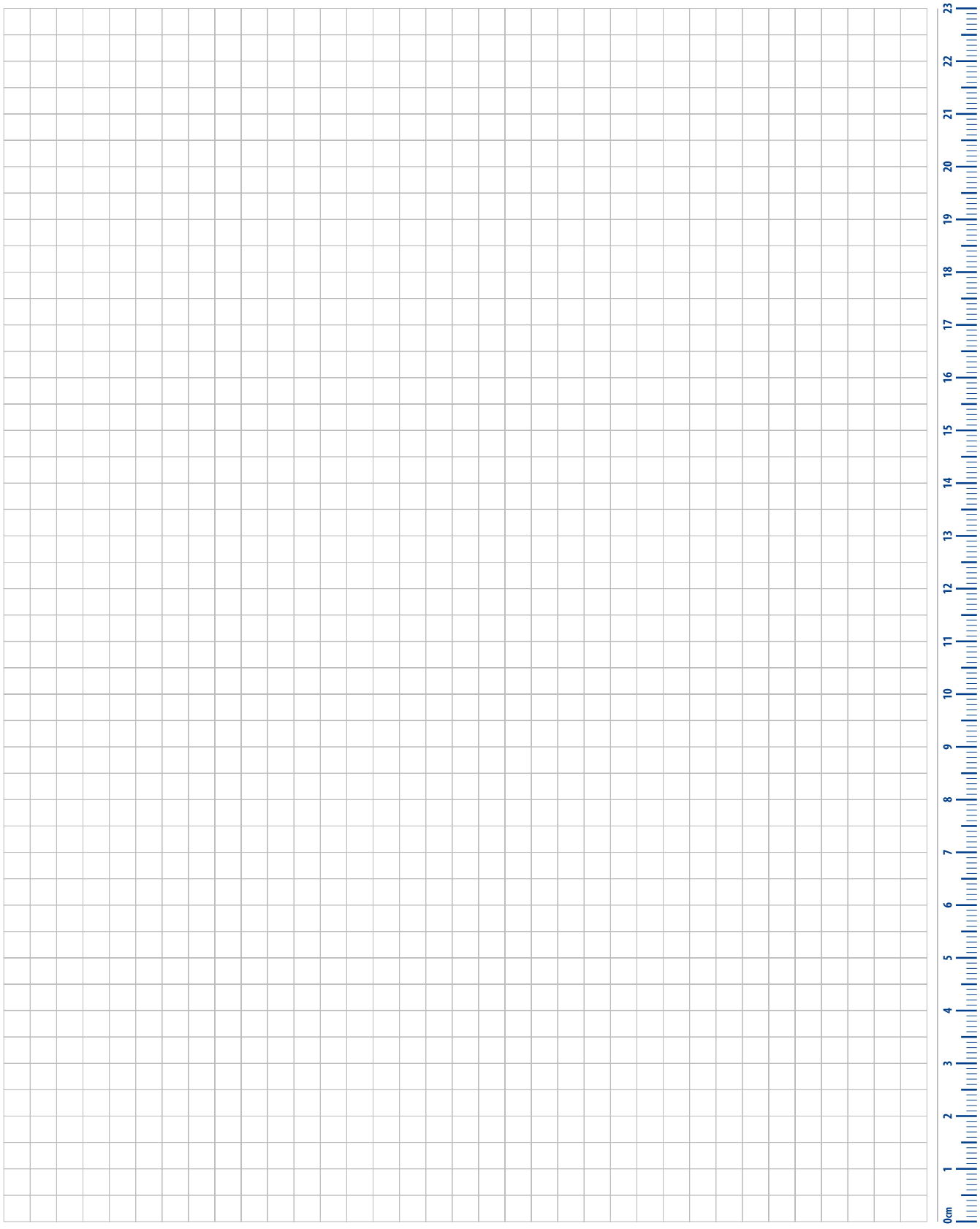
MAGNETIC DIRT SEPARATOR

- Separates harmful particles in the fluid from the system, protecting the heat exchanger and other components from damage, and contributing to the long service life of the heat pump.
- Eliminates flow noise, ensuring silent fluid circulation.
- Reduces pressure losses and increases energy efficiency.
- Minimizes maintenance and repair costs.

TOMMATECH GmbH

GERMAN-based company

Date :.....



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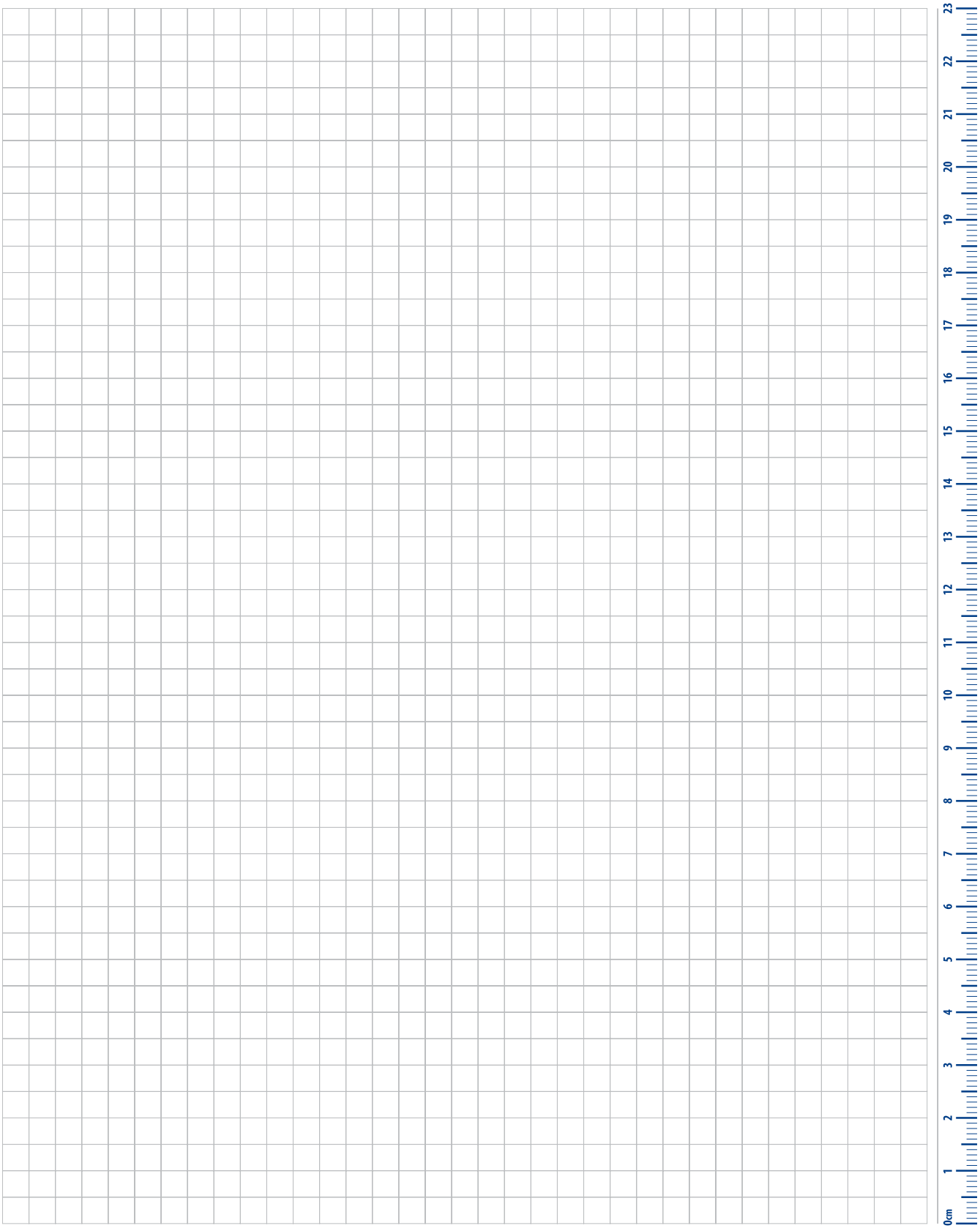

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