



# RESIDENTIAL

## R32 EVI DC Full Inverter Monoblock Heat Pump

Heating, Cooling & Warm Water Heat Pump

# POOL TYPE

## R32 DC Full Inverter Monoblock Heat Pump

Heating, Cooling Heat Pump



# RESIDENTIAL

## R32 EVI DC FULL INVERTER

Heating, Cooling & Warm Water  
Monoblock Heat Pump

-25°C  
+43°C

R32 - MF / 16kW

R32 - TF / 16kW  
R32 - TF / 20kW  
R32 - TF / 26kW

R32 - MF / 13kW

*Experience the comfort of the future...*



eco-friendly



economic



safe



comfortable

**"Your heating - cooling & hot water needs"**  
are at home with the air source heat pump!



#### ENVIRONMENTAL GAS

Compared to refrigerants such as R-410A and R407C, which are widely used today, R32 has much lower global warming potential, helping to accelerate their popularity in the heat pump industry.



#### HIGH EFFICIENCY

With a maximum COP of 6,15 and an ErP rating of A++++ TommaTech Series EVI DC inverter heat pump operates more efficiently. Consumes less energy and therefore reduces electricity bills for home heating/cooling/hot water.



#### WIDER OPERATING RANGE

Thanks to inverter and EVI technology, the TommaTech Series Heat Pump has a wide operating temperature range to provide space heating, cooling and domestic hot water. It can reach high water temperature in a cold climate and operate stably at ambient temperatures as low as -25°C.



#### WI-FI SMART CONTROL

With the Wi-Fi function, users can remotely control the heat pump anywhere and anytime.



#### FULL DC INVERTER TECHNOLOGY

The TommaTech Series heat pump combines a full DC inverter twin-rotary compressor with an inverter brushless motor, so the unit automatically adjusts the target temperature to provide users with maximum comfort at the lowest costs.



#### TOUCHSCREEN

The 4-inch color LCD display can be mounted on the wall. It is very user-friendly with features such as 0,5°C precise temperature control, water temperature curve display, easy timing, one-button mute, one-button faster heating, etc.



#### SMART WATER TEMPERATURE ADJUSTMENT

The unique control logic enables the TommaTech Series to intelligently adjust the outlet water temperature according to the real-time ambient temperature. Therefore, the heat pump provides heating, cooling and domestic hot water at a constant temperature.



#### LOW SOUND LEVEL

In addition to brushless DC inverter fans, the TommaTech Series EVI heat pump starts with sound levels as low as 42dB(A), the TommaTech DC inverter series heat pump operates quieter than the environmental noise at the library.



#### EVI TEKNOLOJİSİ

EVI stands for "Enhanced Vapor Injection" and is a technology used to achieve higher performance at temperatures as low as -25°C. With EVI technology and an inverter compressor, the TommaTech Series operates stably and maintains high efficiency.



#### ALL NEEDS IN ONE DEVICE

With the above features, TommaTech Series Heat Pumps are used for heating/cooling/hot water needs.



#### SAFETY WARRANTY

2-year system and heat pump product warranty.



#### SMART GRID

Can operate integrated with PV panel (SPP).

4 seasons  
full performance

# POOL TYPE

## R32 DC FULL INVERTER

Heating, Cooling  
Monoblock Heat Pump

-10°C  
+43°C

R32 - POOL - MF  
21kW

R32 - POOL - TF  
28kW



*Experience the comfort of the future...*

✓ eco-friendly

✓ economic

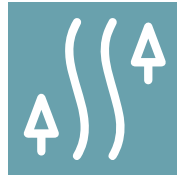
✓ high efficiency

With the air source pool heat pump,  
**"enjoy the pool in 4 seasons at home."**



### HIGH EFFICIENCY

Thanks to the full DC inverter technology, DC compressor and DC fan motor, the TommaTech Series has a much higher efficiency than ON/OFF heat pumps, thus contributing to further energy bill savings for you.



### SOFT START

The TommaTech Series provides a completely smooth transition from 0A to 28A (maximum) during the start-up phase. Normal ON/OFF heat pumps start at a current density three times higher, which greatly affects the ability to draw electrical energy from the grid.



### FAST HEATING

Using brushless DC fan motors and inverter compressors, the TommaTech Series can intelligently adjust the speed of the compressors and fan motors according to air and water temperatures, allowing the heat pumps to heat your pool quickly.



### QUIET OPERATION

Thanks to its careful and noise-reducing design, TommaTech Series Pool Heat Pumps can operate as quiet as 20dB(A) in silent mode.



### SMART WATER TEMPERATURE ADJUSTMENT

The unique control logic allows the TommaTech Series to adjust the outlet water temperature in real time according to the pool water temperature.



### ECO-FRIENDLY

With R32, it provides excellent heating performance especially at low ambient temperature while reducing carbon emissions with less fluid.



### SAFETY WARRANTY

2-year system and heat pump product warranty.



### WIDER OPERATING RANGE

TommaTech pool heat pumps are capable of full performance operation in the air temperature range of -10°C to +43°C.



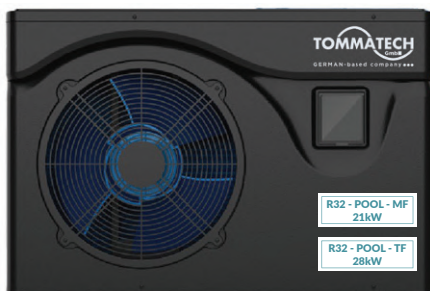
# Residential R32 EVI DC Full Inverter Heating, Cooling & Warm Water Monoblock Heat Pump



Model	HP-EVI-TT-013-MF	HP-EVI-TT-016-MF	HP-EVI-TT-0016-TF	HP-EVI-TT-0020-TF	HP-EVI-TT-0026-TF
Power Supply (V/Ph/Hz)	220-240V~/50Hz		380-415V/3N~/ 50Hz		
Refrigerant Type	R32			R32	
[Space Heating] Ambient Temperature (DB/WB): 7°C/6°C, Water Temperature (Inlet/Outlet): 30°C/35°C.					
Max. Heating Capacity	4.32~13.15	4.81~15.88	4.81~15.88	6.36~20.44	8.54~25.93
Power Input (kW)	0.71~2.90	0.81~3.91	0.81~3.91	1.08~4.61	1.46~6.08
COP	6.08~4.53	5.94~4.06	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	3.63~11.91	3.90~15.99	3.90~15.99	3.41~17.69	4.67~22.27
Power Input (kW)	0.87~4.26	1.03~5.92	1.03~5.92	0.89~7.04	1.04~8.66
COP	4.17~2.80	3.79~2.70	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)	4.06~9.52	2.63~13.66	2.63~13.66	3.31~16.82	4.37~21.85
Power Input (kW)	1.05~3.62	0.59~4.81	0.59~4.81	0.76~6.44	1.02~8.40
EER	3.87~2.63	4.46~2.84	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	12.86	16.81	16.81	23.95	31.07
Power Input (kW)	3.01	3.94	3.94	5.05	6.52
COP	4.27	4.27	4.27	4.74	4.76
ErP Level (35°C)	A+++		A+++		
ErP Level (55°C)	A++		A++		
Electric Heater Nominal Input (kW)	3		3		
Max. Power Input (kW)	7.4(4.4+3)	9.6(6.6+3)	9.6(6.6+3)	10.2(7.2+3)	12.7(9.7+3)
Max. Operating Current (A)	33.7(20+13.7)	42.4(28.7+13.7)	42.4(28.7+13.7)	26(12.3+13.7)	30.4(16.7+13.7)
Circulation Pump	Built-in		Built-in		
Fan Motor Type	DC motor		DC motor		
Water Side Heat Exchanger	Plate Heat Exchanger		Plate Heat Exchanger		
Air Side Heat Exchanger	Fin Heat Exchanger		Fin Heat Exchanger		
Expansion Tank Volume (L)	2	5	5		
Screen	4 inch Color Touch Screen		4 inch Color Touch Screen		
Wi-Fi Function	Yes		Yes		
Nominal Water Flow Rate (m³/h)	2.1	2.7	2.7	3.4	4.4
Water Pressure Drop (kPa)	22	24	24	28	31
Water Pipe Connection	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"
Sound Pressure Level at 1m dB (A)	43~55	44~55	44~55	45~58	46~59
Operating Range (°C)	-25~43 °C		-25~43 °C		
Max. Outlet Water Temperature (°C)	60		60		
Waterproof Class	IPX4		IPX4		
Electric Shock Resistance	I		I		
Net Dimensions (W/D/H) (mm)	1263 x 440 x 875		1263 x 440 x 1377		

# Pool Type R32 DC Full Inverter

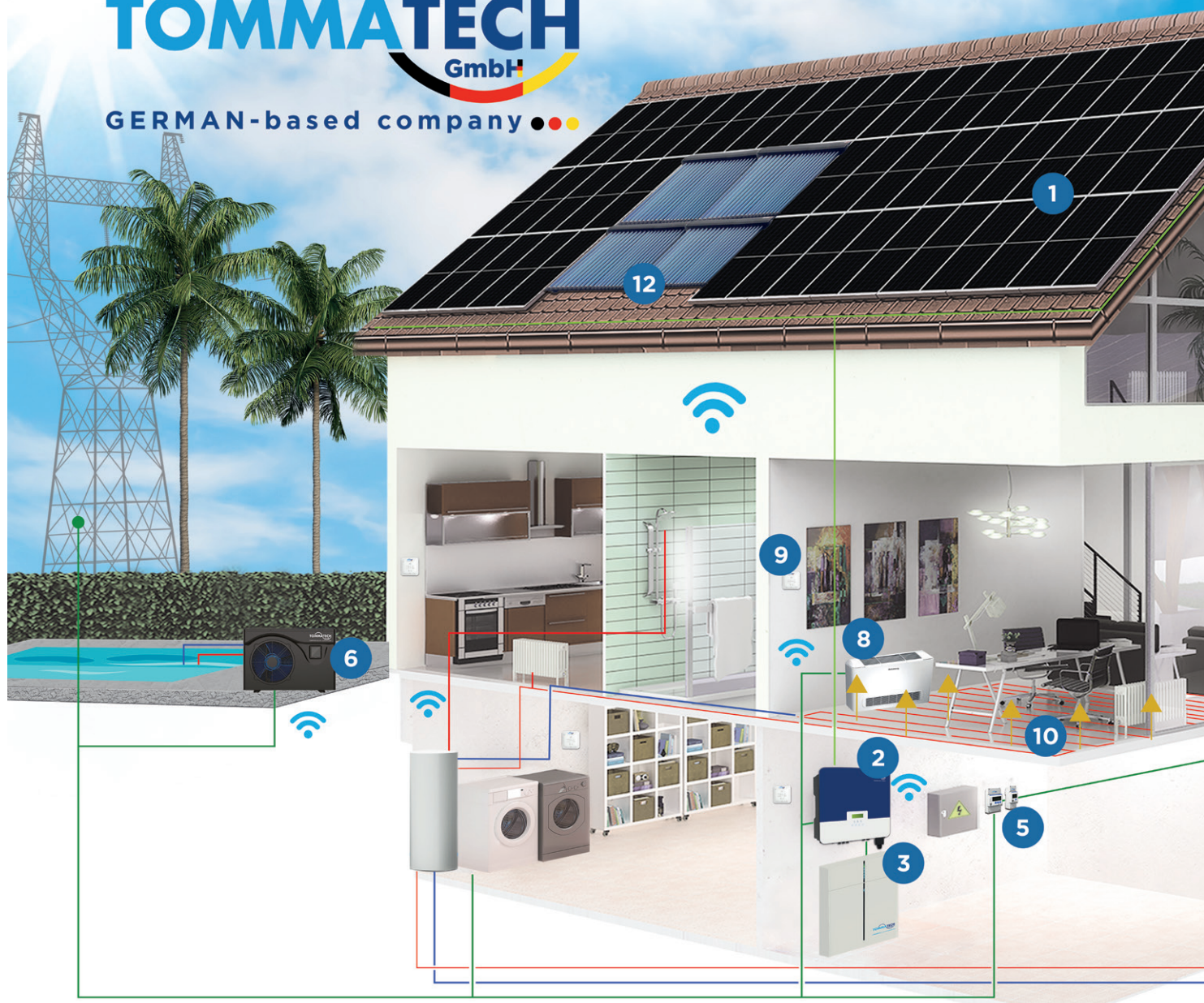
## Heating, Cooling Monoblock Heat Pump



Model		HP-POOL-TT-021-MF	HP-POOL-TT-028-TF
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.			
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 (m³/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

GERMAN-based company ●●●

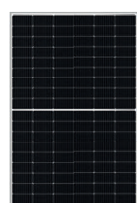


When PV power is available, electricity directly from the sun is used, controlled by the Heat Pump Controller to maximize the use of energy from the PV.

## APP



PORTAL



1 PV Panel



2 Inverter



3 Lithium Battery



4 EV Charger



5 Smart Meter



6 Swimming Pool Heat Pump



7 Residential Heat Pump



"Experience the comfort of the future."

Control your home easily with  
**TommaTech PORTAL.**



8  
Fan Coil  
Heating & Cooling



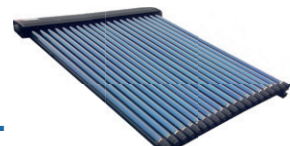
9  
Room  
Thermostat



10  
Underfloor  
Heating



11  
Hot Water



12  
Solar  
Thermal Panel

# 1 TOMMATECH TOPCON MONOCRYSTALLINE 108TN10 SOLAR PANEL

## Half Cut



### High Conversion Efficiency

High panel efficiency to guarantee high power output.



### Self-Cleaning And Anti-Reflection Glass

Coating glass for self-cleaning reduces surface dust.



### Outstanding Low Irradiation Glass

Outstanding panel performance even in weak light conditions.



### Excellent Durability

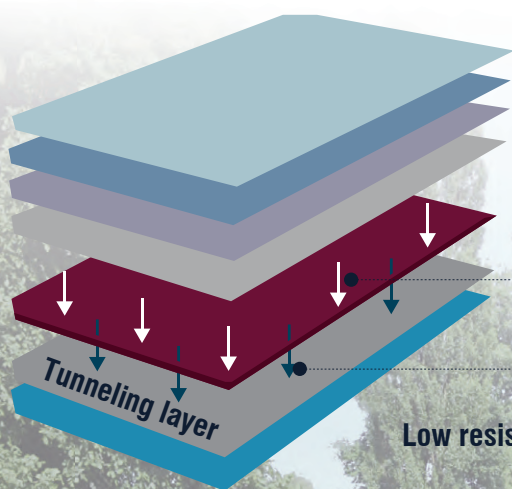
Wind load up to 2400 Pa, Snow load up to 5400 Pa



### 0~+5W Positive Power Tolerance



### Easy Installation



- CWT415-108TN10 415 Wp
- CWT420-108TN10 420 Wp
- CWT425-108TN10 425 Wp
- CWT430-108TN10 430 Wp
- CWT435-108TN10 435 Wp



## 2 TOMMATECH TRIO HYBRID K-SERIES INVERTER

### Three Phase Hybrid Inverter

5.0/ 6.0/ 8.0/ 10.0/ 12.0/ 15.0kWh



3- Phase  
Unbalanced Output



IP65 Rated



High Efficiency



Hybrid Solution



Remote Monitoring



### Simple. Reliable. Efficient.

TommaTech®'s Trio-Hybrid K-Series three phase inverters are the preferred solution for both residential and commercial projects as they support unbalanced phase output, are equipped with dual protection for the BMS and can be controlled remotely through multiple communication options. The inverters, which are available in six power options between 5.0kW and 15.0kW can be equipped with up to 46kWh storage, each. Furthermore, they can be installed in parallel allowing for solutions of up to 150kWh and 460kWh storage.



# 3

## TOMMATECH LITHIUM BATTERY Hightech Power

3.0/ 6.0/ 9.0/ 12.0kWh



3 Phase / 1 Phase



IP65 Rated



High Efficiency



LiFePO4 Technology



Remote Monitoring



### Simple. Reliable. Efficient.

TommaTech, yeni High Power Lityum Batarya Serisi hibrit (on-grid & off-grid) sistemlerde yüksek voltajlı pil çözümleri sunmakta. 3,1kWh kapasiteye sahip Hightech Power 3.0kWh Li-Ion Battery Serisinde yeni nesil BMS (Battery Management System) teknolojisi ile birlikte 4 adete kadar seri bağlanıp toplam 12kWh'a kadar depolama kapasitesi seçeneği bulunmaktadır. TommaTech Uno ve Trio Hibrit Serisi İnvertörler ile kesintisiz ve kompakt bir enerji sistemi konsepti sunulmaktadır. %90 deşarj derinliğine sahip High Power Serisi Lityum Bataryalar esnek, pratik, yüksek performanslı bir enerji depolama çözümdür. Aynı zamanda yeni nesil LFP teknolojisine sahip seri güvenli enerji konsepti ile tasarlanmıştır.



## 4 TOMMATECH SMART EV CHARGER

### Uno-Trio Electric Vehicle Charger

7.2/ 11.0/ 22.0kWh

#### Simple. Reliable. Efficient.

TommaTech EV Chargers allow quick and simple charging of electric vehicles with different charging standards via Type II connectors in Eco-Mode, Fast-Charging and Custom-Mode. Based on their smart design, the EV Chargers can be installed indoor and outdoor and operated within a high temperature range, which makes TommaTech EV Chargers the preferred choice for residential, office or public applications.

Additionally, the compatibility with TommaTech Trio and Uno Hybrid Inverters allow the charging of stored solar electricity from the battery at night thus enabling highest utilization of charging assets.



# 5 TOMMATECH SMART METER

## 3 Phase Smart Meter

5.0kW-15.0kW



3 Phase Input Output



RS485 Communication



50-60Hz 80A



Data Traceability



Bidirectional Meter



Self-Consumption Solutions



### Simple. Reliable. Efficient.

Trio Smart Meter, fully compatible with TommaTech Trio Series inverters (On-Grid & Hybrid), enables the system to operate in self-consumption mode with the possibility of limiting the energy fed into the grid by the inverter, and also measuring the total energy generation and consumption.



6

## POOL TYPE R32 DC FULL INVERTER

Heating, Cooling Monoblock Heat Pump

**R32 - POOL - MF / 21kW**

**R32 - POOL - TF / 28kW**



3 Phase / 1 Phase



IP65 Rated



High Efficiency



Easy installation



Remote Monitoring



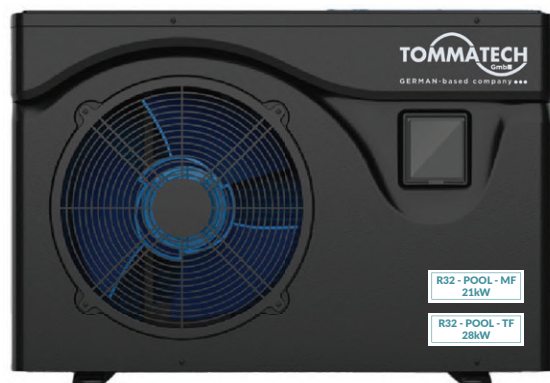
Silent Operation



Operating  
Temperature Range  
+15°C ~ +40°C



Heating  
Temperature Range  
-10°C ~ +43°C



### Experience the comfort of the future

- Enjoy the pool in 4 seasons.
- Gets 80% of its energy from nature.
- Gives 5 units heat energy with 1 unit energy.



7

## RESIDENTIAL R32 EVI DC FULL INVERTER

Heating, Cooling & Warm Water Monoblock Heat Pump

**R32 - MF / 13-16kW**

**R32 - TF / 16-20-26kW**



3 Phase / 1 Phase



IP65 Rated



High Efficiency



Easy Installation



Remote Monitoring



Silent Operation



Operating Temperature Range  
-10°C ~ +43°C



### Energy Save

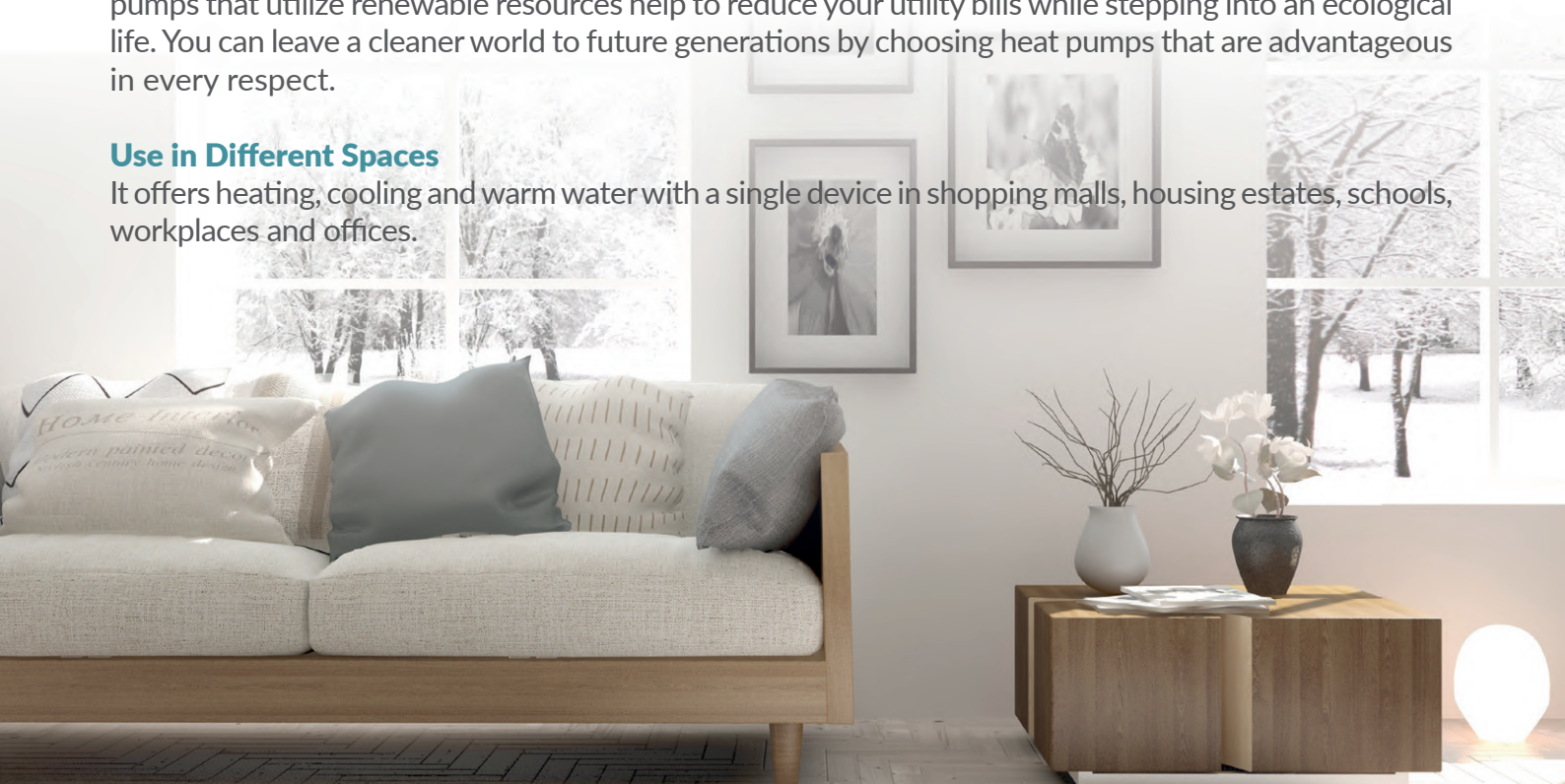
Experience the energy of the future now. Enjoy comfort in your home and workplace by consuming 75% air and 25% electricity. Energy saving is one of the most important issues due to global climate change. It is very important to choose high energy-saving devices both to benefit the home economy and to protect the environment.

### Eco-Friendly Air Conditioning

The most prominent feature among the benefits of the heat pump, whose use is becoming more widespread day by day, is that it is an environmentally friendly solution. In order to leave a clean environment for future generations, it is very important to prefer such eco-friendly systems. Heat pumps that utilize renewable resources help to reduce your utility bills while stepping into an ecological life. You can leave a cleaner world to future generations by choosing heat pumps that are advantageous in every respect.

### Use in Different Spaces

It offers heating, cooling and warm water with a single device in shopping malls, housing estates, schools, workplaces and offices.



## Cassette - Cassette-less - High Wall - Cassette Flooring

**Experience the comfort of the future**

- Enjoy the comfort of a heat pump in your home with a fancoil.
- Enjoy the breeze you want in your home in every season.
- It is used for cooling in summer and heating in winter.
- First, the air in the environment is sucked through the filters in the fancoil devices.
- Then the air is transmitted through the pipe to the coil, which is the main source of the device.
- The air collected in the coil is conditioned as hot or cold according to the space temperature and demand.
- After the temperature of the air is adjusted, it is blown back to the area where the device is located through the pipe.

**Cassette-less  
Concealed Ceiling  
Fan Coil Unit****4-way Blowing Cassette  
Fan Coil Unit****High Wall Fan Coil  
Unit****Cassette Floor Wall  
Fan Coil Unit**

# 9 TOMMATECH PORTAL & WIRELESS THERMOSTAT

## Easy Access

Allows you to make a wireless connection between **TOMMATECH** Portal and any wireless room thermostat, **TOMMATECH** heat pump you use. It responds to your different temperature needs on a room basis without creating a cable crowd. You can adjust the heat requirement of any room you want through **TOMMATECH** Portal without having to be at home, or you can block unnecessary air or water heating / cooling needs via your phone.

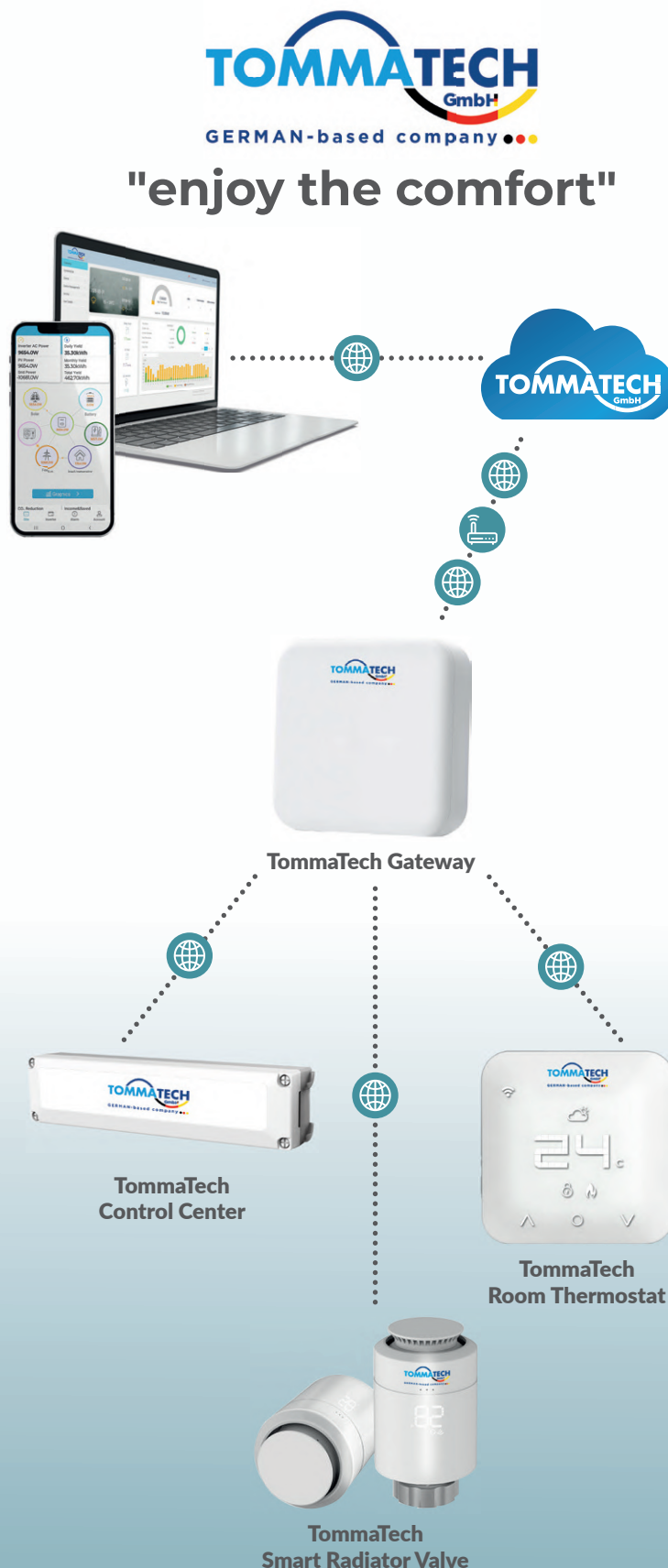
## High Energy Efficiency

With **TOMMATECH** portal and room thermostats, you can experience constant temperature comfort by controlling the temperature change of your pool and domestic water, while you can heat economically at the level you want. While **TOMMATECH** Portal, which works behind **TOMMATECH** Heat Pump and thermostats, provides high energy efficiency, you can experience the comfort of heating and water temperature at the desired temperature value in all areas of your home. You will know how many trees you will save every minute you use it and you will learn how you contribute to nature thanks to **TOMMATECH** Portal.

## Easy to Use

You can maximize your comfort with **TOMMATECH** portal infrastructure and easy access and user-friendly interface of **TOMMATECH** wireless room thermostats. Tommatech Portal, which offers the ability to manage all wireless thermostats including **TOMMATECH** Heat Pump Panel, offers the most important software infrastructure of Tommatech Smart Home Technology systems.

Whatever the design and structure of your home, it will easily adapt to your living spaces with its operating structure that provides compatibility with all devices.





PORTAL

*experience the*  
**COMFORT OF THE FUTURE**



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## 10

## UNDERFLOOR HEATING

**Experience the comfort of the future**

- Applicable to any ground.
- It can also be applied to old buildings with trenching method by cutting the floor.
- Provides comfortable warmth with homogeneous heat distribution.
- Easy to clean, wet floors dry quickly.
- As the ambient temperature is low, there will be less dust in the air.
- The pipes that provide heating pass completely under the screed. Thus, there is no situation that will spoil the appearance inside the house.
- It saves a great deal of energy because it operates at low temperatures.



# 11

## WARM WATER



Hygienic



Separation of Drinking Water and Heating Water



Low Legionella Risk



Can be combined flexibly (e.g. heat pump, solar thermal, etc.)



Reducing Heat Losses



### Energy Save

- The high temperature operation technique can be used to increase the system temperature to 60°C, preventing the growth of Legionella Bacteria and providing hygienic domestic hot water suitable for use.
- Solar thermal energies use heat from the sun to heat domestic hot water, helping to reduce the electrical energy required by the heat pump to prepare domestic hot water.
- A heat pump boiler stores hot water from a heating source, such as a heat pump or solar thermal, and provides hot water for showers and taps, all in one device.
- By utilizing natural energy sources such as earth, air or water for hot water, a lot of heat energy can be obtained with a small amount of electricity consumption.
- Thanks to accumulation or balance tanks, excessive fluctuations in the water temperature sent to the places of use can be prevented and thus the risk of sudden increase in water temperature is prevented, increasing the comfort and safety of use.



## 12 SOLAR THERMAL PANEL



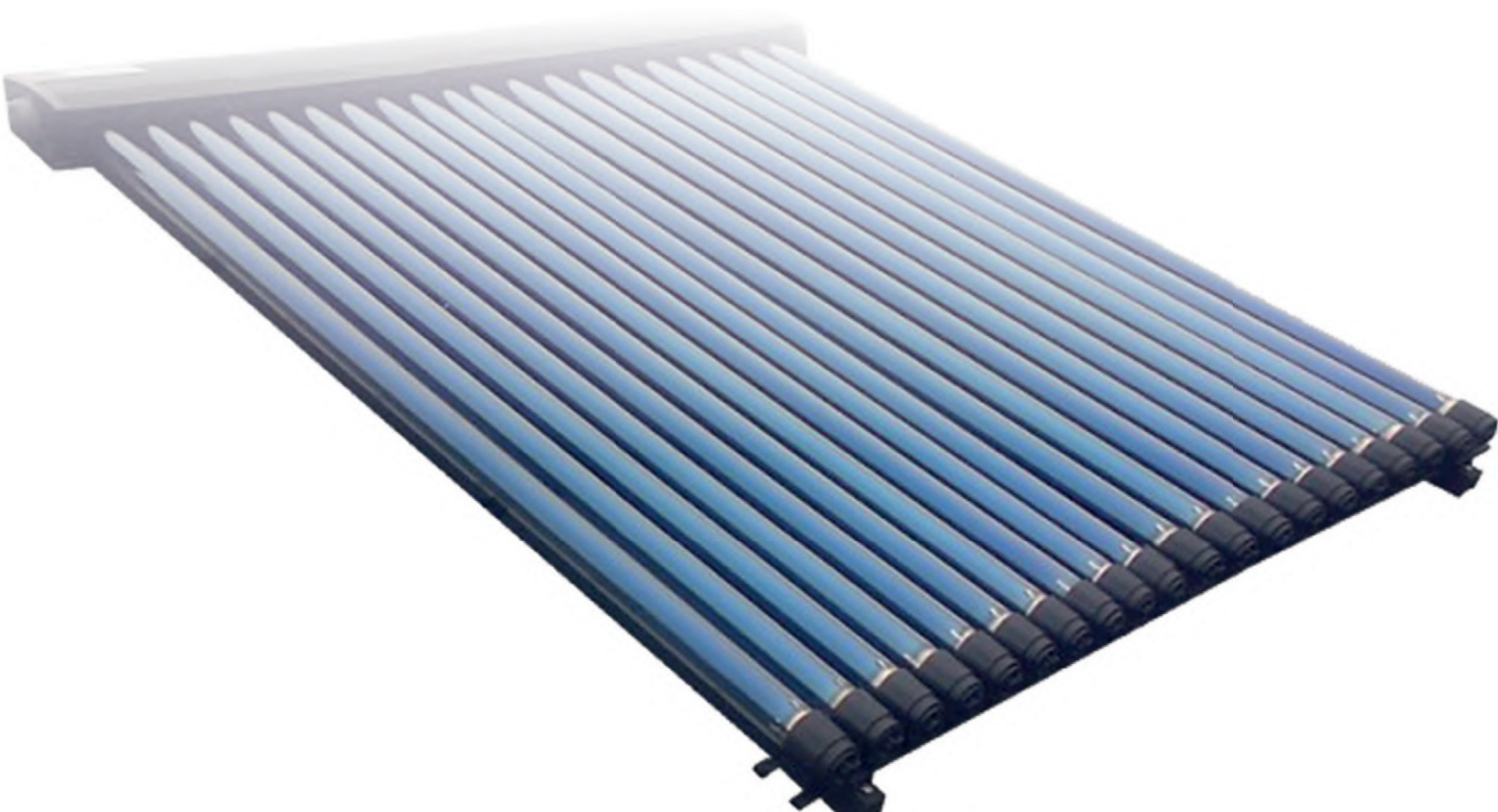
### Experience the comfort of the future

In some areas, thermal solar panels provide up to 90% domestic water and support the heating system up to 60%. When it is not enough, the heat pump kicks in.

Unlike typical hot water storage tanks, buffer storage tanks are used to support heating and have significantly better thermal insulation at 10 to 50 cm. The purpose of the buffer tank is to store the heat generated from the sun and then add it to the heating water circuit.



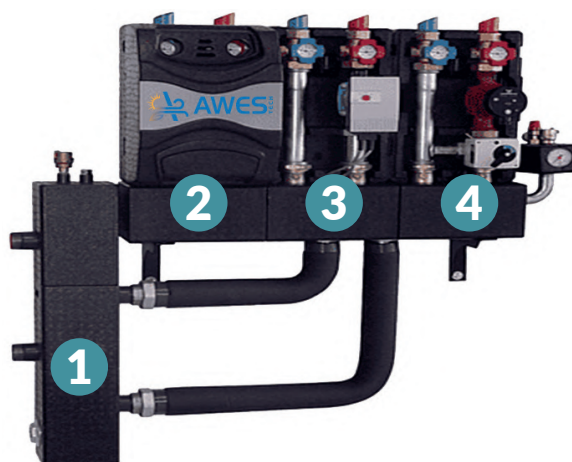
1. Solar Panel
2. Hot Water Tank
3. Heating Pump Group
4. Hygienic Hot Water Pump Group
5. Solar Thermal Pump Group



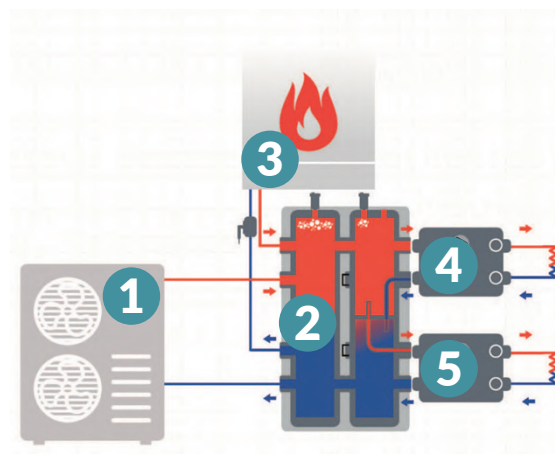
# 13 ACCESSORIES

## Pump Groups

1. Balance Cup
2. Pump Group Underfloor Heating
3. Pump Group Fancoil
4. Pump Group Warm water



1. Heat Pump
2. Balance Cup 40KW
3. Backup Heating System Combi Boiler
4. Pump Group Underfloor Heating
5. Pump Group Fancoil



## Automatic Air Purifier (Air ejector)

It is attached to the return pipe of the system, so it automatically removes the air generated.

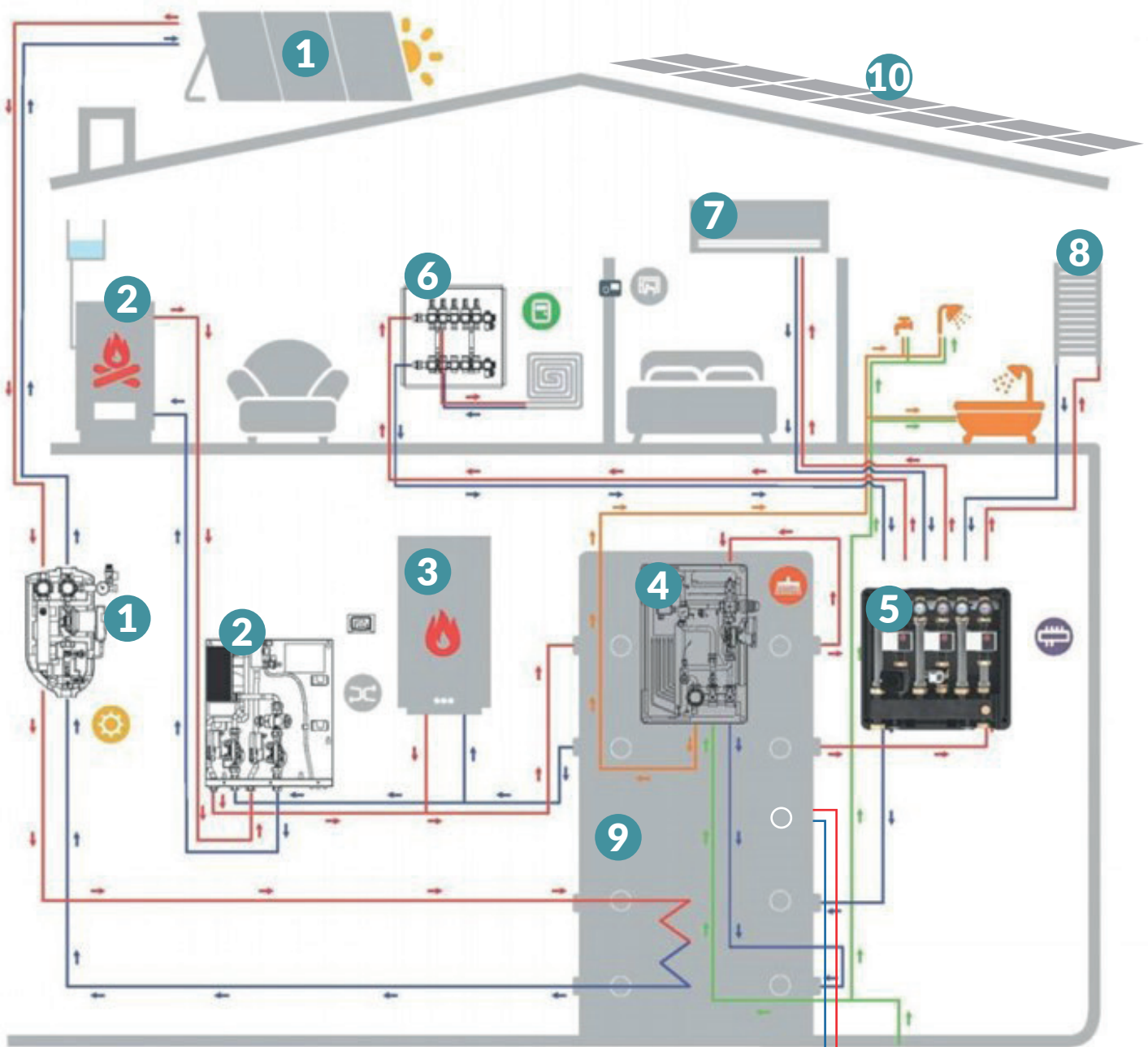


## Magnetic brass sediment trap (with magnet) - (Magnetic Filter)

Saves energy thanks to its energy efficiency.  
Easy cleaning without emptying the system.



## Operation Scheme



1. Thermal Panel Supported Warm Water and Heater
2. Fireplace Support
3. Boiler or Heat Pump Support
4. Instant Domestic Warm Water
5. Heating Pump Groups
6. Underfloor Heating Collector
7. Fancoil
8. Towel Pan
9. Accumulation Tank
10. PV Panel







[www.tommatech.de](http://www.tommatech.de) | [mail@tommatech.de](mailto:mail@tommatech.de)