Global quality standard, Worldwide partnerships

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Guangdong Tongyi Heat Pump Science and Technology Corp.

Head office: 20/F, South Tower, No.159 Middle Qiaozhong Road, Liwan District, Guangzhou
Factory office: No.2, Chuangye South Road, Songxia Indus-park, Nanhai, Foshan
Website: tongyiheatpump.com E-mail: info@tongyiheatpump.com

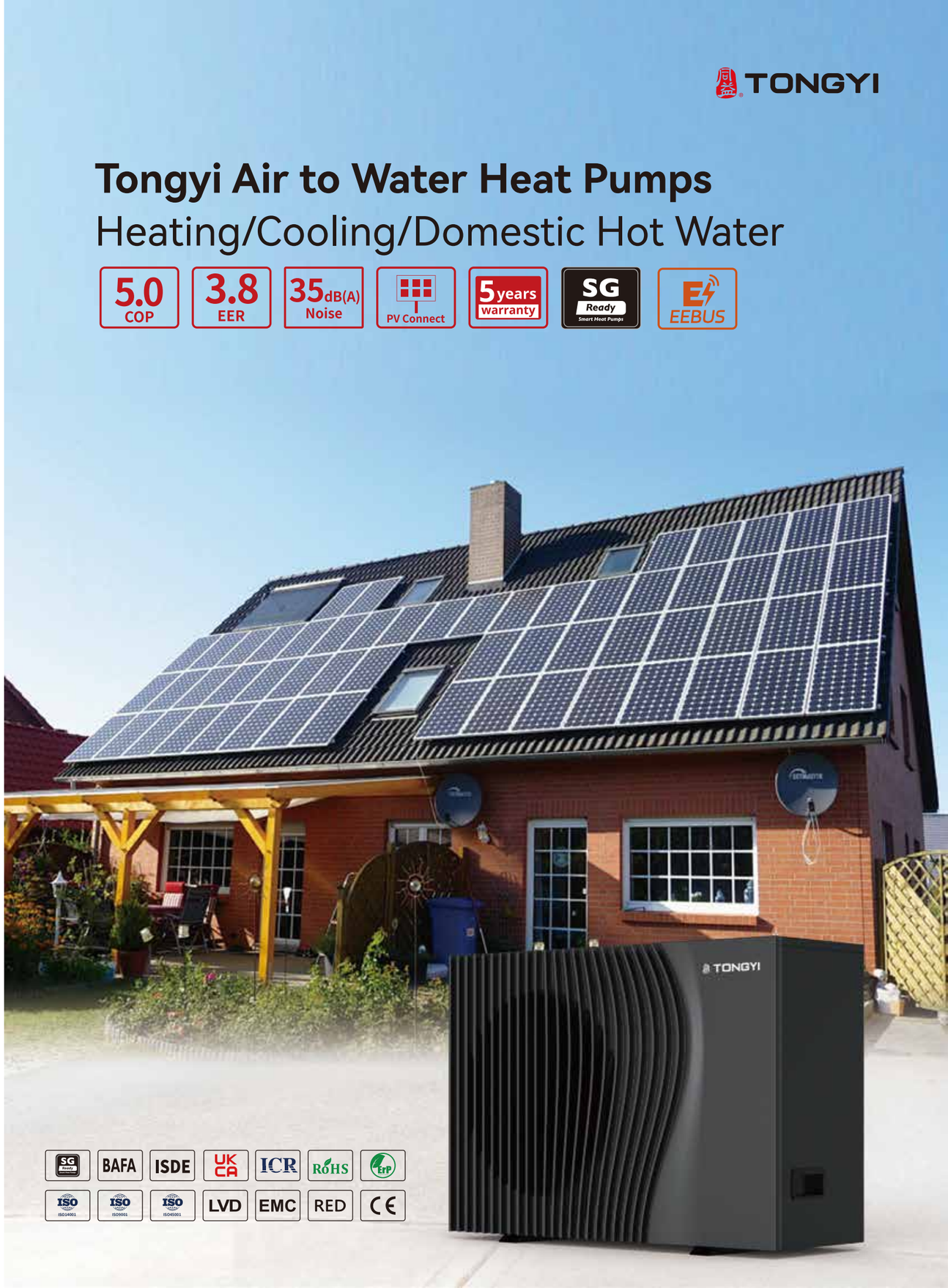
The contents are for reference only, may contain errors, and subject to change without prior notice.
Please refer to the nameplates and the manuals of the products for updated information. TY202509

TONGYI

Tongyi Air to Water Heat Pumps

Heating/Cooling/Domestic Hot Water

5.0 COP | 3.8 EER | 35dB(A) Noise | PV Connect | 5 years warranty | SG Ready Smart Heat Pumps | EEBUS



WE KNOW MORE ABOUT
OUR CUSTOMERS' NEEDS

20+
LEADING THE INDUSTRY FOR MORE THAN 20 YEARS

100+
MORE THAN 100 LEADING TECHNOLOGIES

1000000+
USERS EXCEED ONE MILLION

ROOTED IN THE INDUSTRY FOR MORE THAN 20 YEARS,
SERVING MORE THAN 1 MILLION FAMILIES

FOR MORE THAN 20 YEARS, WE SPECIALIZE IN DEVELOPING HEAT PUMP TECHNOLOGY TO PROVIDE OPTIMAL HEATING & COOLING SOLUTIONS TO CUSTOMERS WORLDWIDE.

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Tongyi's new Guangzhou Headquarters Since 2021



SPECIALIZED IN HEAT PUMP TECH SINCE 1999

About TONGYI

Established in 1999, Guangdong Tongyi Heat Pump Science and Technology Corp. is a pioneer and highly reputable heat pump manufacturer in China. Committed to unwavering quality standards and product safety, Tongyi is a leader in energy-efficient solutions.

With over two decades of dedicated growth, Tongyi has earned a distinguished reputation for first-class quality and reliability. We implement rigorous control measures throughout our manufacturing processes, ensuring the highest product standards.

Tongyi's international vocation spans over two decades, reaching customers across Asia, Southeast Asia, America, and Europe. We initiated our journey into the European market in 2003, and since then, we've been expanding our business globally for more than twenty years. With our innovative heating and cooling solutions, we are happy to serve thousands of customers across the globe.

Our products proudly hold renowned global certifications, including CE, EMC, RoHS, LVD, EMD, RED, ERP, IEC, ETL, SASO, CCC, and more, while our production management holds ISO9001, ISO14001, and ISO45001 approvals.

Our driving force is environmental protection. At Tongyi, we are deeply committed to reducing the household carbon footprint and mitigating the impact of climate change. We recognize that sustainability is not just a goal but a responsibility, and it's at the core of everything we do.

We value your feedback, which fuels our continuous pursuit of excellence in eco-friendly solutions. We prioritize customer-centric improvements through rigorous monitoring and responsive after-sales service. At Tongyi, we're committed to streamlining processes to elevate customer heating and cooling experiences, reduce energy consumption, and minimize our collective carbon footprint. Together, we can build a greener, more sustainable future.

SPECIALIZED IN HEAT PUMP TECH SINCE 1999

Milestones

1999
Established and launched first products.

2003
Products with CE/CB certified and exported to Europe.

2004
Ideated the name "Air Source Heat Pump Water Heater" in Chinese as "Kong Qi Neng" water heater in China recognised by the industry.

2007
Joined in the National Standard of Heat Pump Water Heater Drafting Committee.

2008
Recognized as a high-tech enterprise by the Government Drafting Committee.



2009
Inverter Heat Pump for Radiant heating and cooling supplied in Japan market.

2012
Qualified for the rebate program of Energy-saving Products launched by the government.

2014
Awarded Excellent Quality Brand Enterprise.

2016
Participated in Beijing coal-to-electricity project, replacing coal boilers with TONGYI heat pump for house heating.



2017
Established Tongyi Air Source Heat Pump Research Institute.



2018
Launched new DC EVI heat pump for domestic house heating and cooling in MCE Milan.



2019
Served Daxing International Airport hot water supply project (Asian's top airport).



2021
Moved to new headquarters in Guangzhou.



2022
Entered into BAFA and ISDE subsidy lists of heat pump.

Bundesamt
für Wirtschaft und
Ausfuhrkontrolle

2023
Innovating in Tongyi Energy Management System (TEMS).

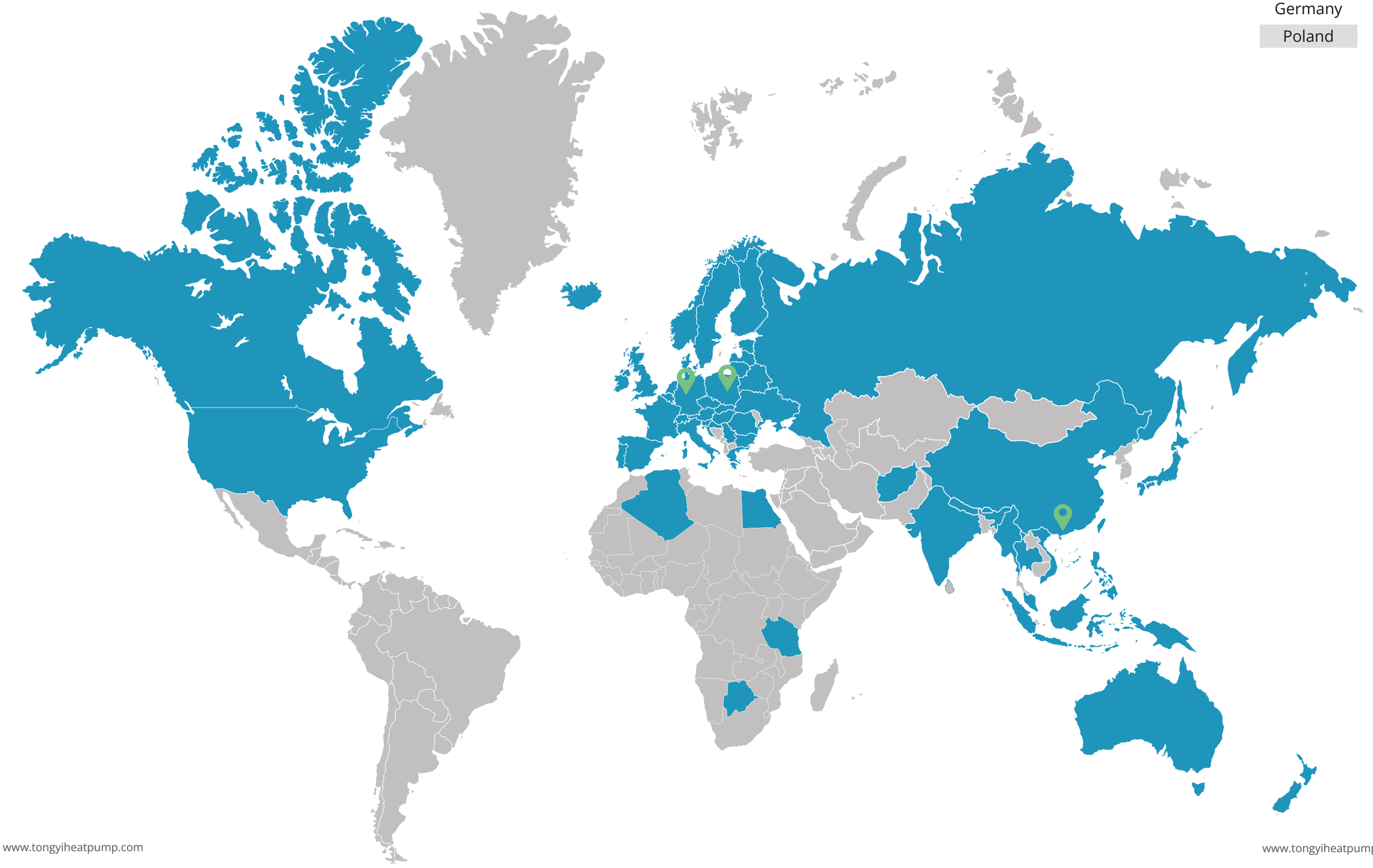
TEMS

2024
Tongyi 25th Anniversary - Brand Take-off

2025
Tongyi Smart Factory is completed - Rebuilding Glory



Market Overview



SPECIALIZED IN HEAT PUMP TECH SINCE 1999

Professional R&D Team



Master of Core Technology

TONGYI is one of the first and most professional heat pump manufacturers in China. We are in cooperation with 3 top universities in China on various HVAC research topics.



Professional Design Procedure

From the beginning of product development, a wide range of details are taken into account: easy installation, user friendliness, cutting-edge design, high functionality, full-scale tests, and the use of more than 56 different technologies. Always aiming to provide our customers with highest standard products.



Professional R&D Team

Cooperating with several top universities in China, Tongyi attracts young talents every year and has established a government-recognized R&D Center with a team of highly-qualified engineers.

Quality Control

Parts & Components Inspection

We monitor our entire supply chain for all the main parts and accessories strictly. 100% of the parts and components undergo rigorous incoming inspection at our factory.



Process Control

In our production line we strictly control all processes. From the first step until the units are packed and ready to ship. Through relentless monitoring, we record all processes and developments to ensure the products are reliable and in conformity with product-specifications.



Finished-Product Inspection

We implement 100% inspection on the finished products before shipping. We implement an additional double sample inspection for all units shipped to the overseas market.



Qualification & Certificates




TÜV CERTIFICATE of Conformity Low Voltage Directive


TÜV CERTIFICATE of Conformity Electromagnetic Compatibility


TÜV CERTIFICATE of Conformity Radio Equipment


TÜV CERTIFICATE Restriction of Hazardous Substances Test Report



SG Ready Label for SMARTGRID-COMPATIBLE Heat Pumps



ISO45001:2018 Occupational Health and Safety Management



ISO14000:2004 Environmental Management System Certification Certificate



ISO9001:2015 Certificate of Quality Management System

Above List or Certification are for Specific Models

SPECIALIZED IN HEAT PUMP TECH SINCE 1999

BAFA

German customers can now adhere to government subsidies when acquiring a Tongyi Heat Pump. As an experienced heat pump manufacturer, Tongyi provides high-quality and efficient units, BAFA listed, under the air-to-water heat pump list.

Bundesamt für Wirtschaft und Ausfuhrkontrolle

ISDE

Customers in the Netherlands also can adhere to government subsidies when acquiring a Tongyi Heat Pump. As an experienced heat pump manufacturer, Tongyi provides ISDE listed, eco-friendly units.

Rijksdienst voor Ondernemend Nederland

Smart Grid Ready

Smart Grid Ready (SG Ready) certifies that the heat pump unit can work smartly according to a defined interface for load management to serve the grid. TONGYI HEAT PUMP is ready and designed for this purpose.

SG Ready Smart Heat Pumps

Save at Home

Save at Home offers incentives for households to reduce energy consumption and increase energy independence, lowering reliance on conventional fuels. In Greece, customers can benefit from subsidies when installing a Tongyi Heat Pump.

govgr

Above Functions are for Specific Models
Specific Model In List And Subject To Change

EPREL

EPREL facilitates comparisons between product models, enabling informed choices by consumers, procurers and businesses. With Tongyi heat pumps registered, EPREL lets consumers directly access their key data like energy efficiency and performance specs, helping grasp strengths for smarter decisions.

UTI ZUM List

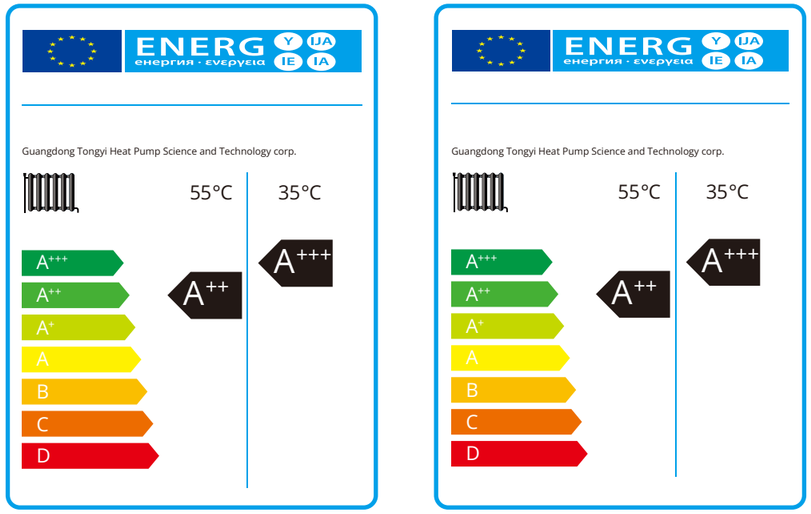
The ZUM list guides applicants of the "Clean Air" initiative in selecting products eligible for funding. With Tongyi heat pump models included, homeowners can access subsidies while enjoying advanced, energy-saving, and eco-friendly technology. Tongyi's presence on the ZUM list underlines our dedication to greener living and trusted performance.

Low Carbon Technology Register - ESB Networks Ireland

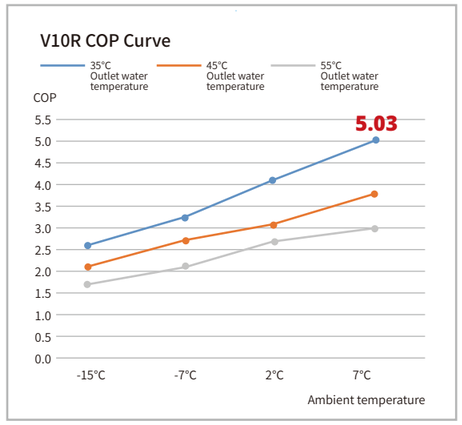
ESB Networks operates to cater to the needs of every Irish electricity customer, offering universal access to the electricity system at an affordable price. Tongyi heat pumps have participated in this initiative, delivering energy-saving and efficient experiences for customers.

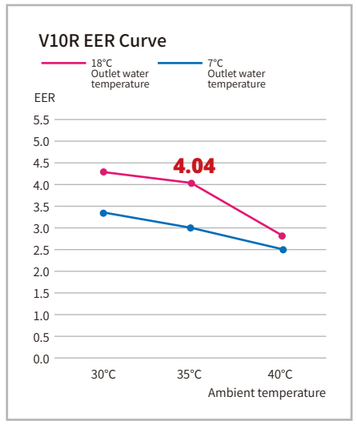
A+++ Energy Label

R290 Air to Water Tongyi Heat Pump reaches the EU Energy Efficiency A+++ Level and its COP is as high as **5.03**, which ensures that users can get a better experience at a lower cost.



High COP and EER





Above Features are for Specific Models

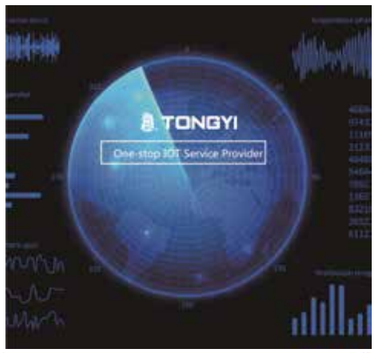
IoT Technology

With IoT technology, the heat pump status can be monitored remotely. When a failure occurs, it is possible to check and control remotely the unit's information, providing immediate support to our customers.

With OTA (update over air) Technology, if there is any error happening on the software, we can provide a remote service by updating the software online. When the software has a new version that upgrades its functions, as long as you grant us access, we can update the software remotely.

With IoT and OTA integration, TONGYI provides you with an affordable solution for continuous and convenient after-sales support.







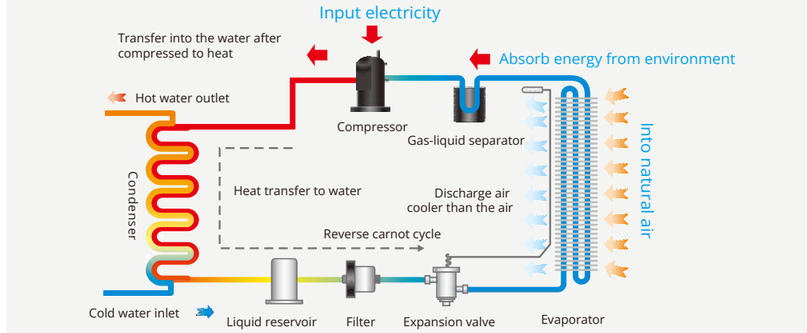






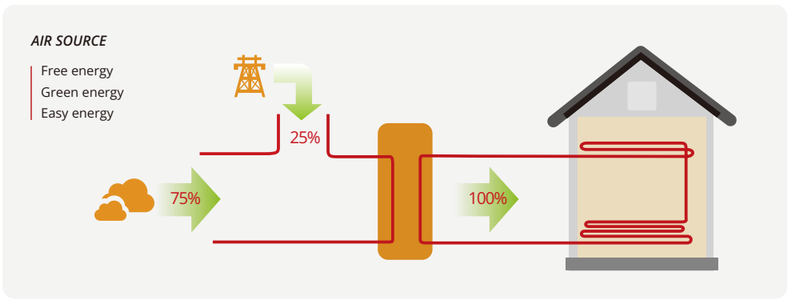
Above UI is for Reference
Some Functions are Only Available in Specific Areas

Working Principle

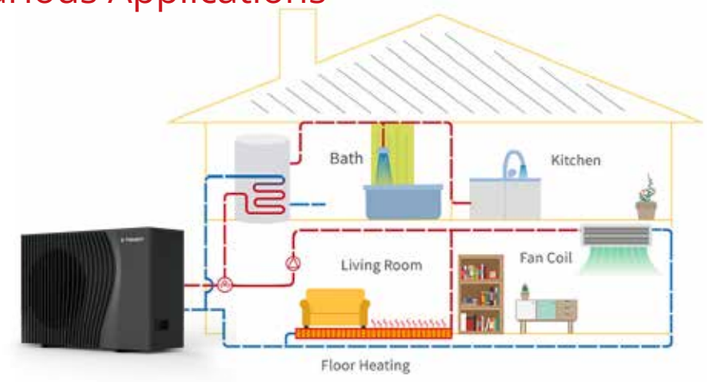


Energy Efficient Application

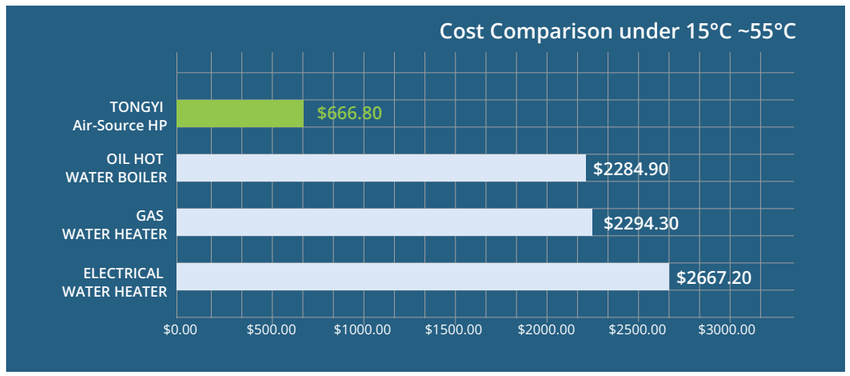
TONGYI HEAT PUMP offers the best solution for home heating and hot water supply with Tongyi's inverter technology. It is 4 times more energy-efficient than a boiler system by absorbing energy from the outdoor environment.



Various Applications



Energy Saving Comparison



Air-Source HP VS Other Heating Methods

Heating Methods	Tongyi Air-Source HP	Oil/Gas hot water boiler	Electrical water heater
Type of energy consumption	Electricity	Oil/Gas	Electricity
Safety Risk	Low	High	Middle
Environmental impact	Non-pollution	Heavily polluted	Non-pollution
Estimated product lifetime	10-12 Years	5-8 Years	5-8 years
Installation site	No limits	Special room	Special room
floor space	Small	Large	Middle
Safety performance	Safe and reliable	Flammable, explosive goods	Heating pipe aging, leakage
Noise Level	Low	High	Low
Failure Detection Way	Automatic	2-3 technician	1 electrician

Under same conditions,Daily hot water demand 1000L, Heating water from 15°C to 55°C, comparison for running cost				
The specific heat of water (Kcal/Kg.°C)				1
heat value(Kcal)=specific heat of water (kcal/(kg.°C))×daily water requirement(kg) xwater temp difference(°C)				40000
Heating Methods	**Tongyi heat pump**	Electrical water heater	liquid gas water heater	Oil water heater
Fuel	Electricity	Electricity	Liquid gas	Gas
Combustion value	860	860	8667	8700
Unit	Kcal/h	Kcal/h	Kcal/(m3.h)	Kcal/(Kg.h)
Efficiency(%)	380	95	80	75
Demand for energy	12.2	49	5.8	5.2
Unit	Kw/h	Kw/h	m^3	Kg
Fuel price ($)	0.15	0.15	1.09	1.20
Amount fuel cost ($)	1.82	7.32	6.28	6.25
Running cost ($/Year)	666.8	2667.2	2294.3	2284.9

Notes: The costs on this comparative sheet are taken as a reference from the market price at the time of publication. The energy consumption of other types of heat source as per national standards and energy efficiency might show differences for every specific scenario. Please refer and update to local conditions.

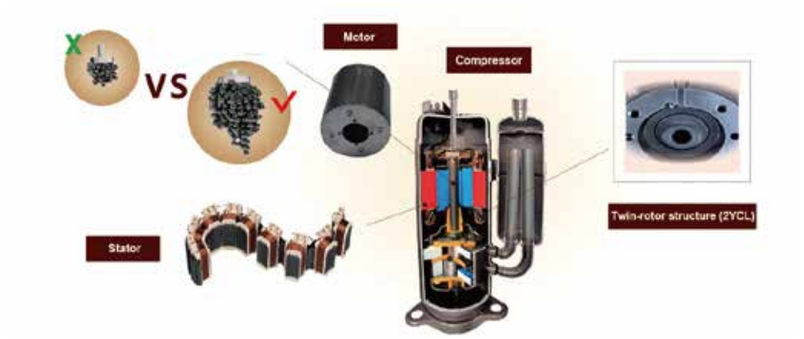
Product Technology

R290 Refrigerant

R290, a natural refrigerant with a GWP of 3 and ODP of 0, has no impact on ozone depletion or the greenhouse effect. Thanks to R290's outstanding advantages and advanced heat pump technology, TONGYI Heat Pump uses less amount of R290, offering an economical and eco-friendly solution to contribute towards the global goal of carbon neutrality.

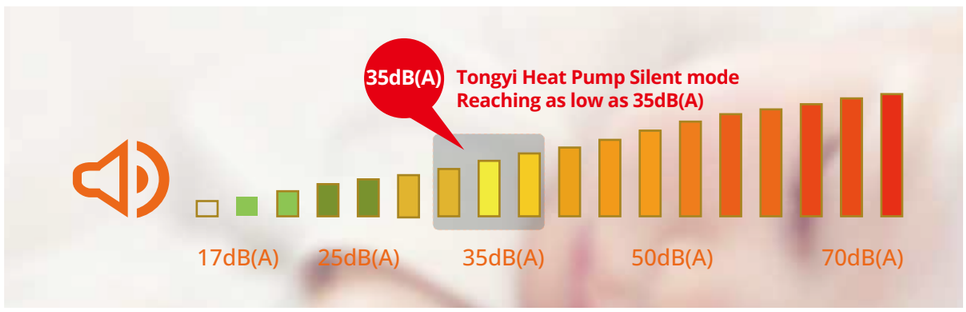
Twin Rotary

Twin rotary DC inverter compressor consumes 30% less power than traditional scroll compressors whilst also giving a wider operating frequency range, enabling precise control and reducing running noise levels.



Silent Mode

Tongyi cares about your sleep and also protects your neighbours from high sound levels. Our heat pump can reach lower than 35 dB(A) in Silent Mode, creating a tranquil atmosphere. Choose quietness, choose comfort, choose Tongyi Heat Pump for an exceptional home environment.



Seven Processes for Silence Design

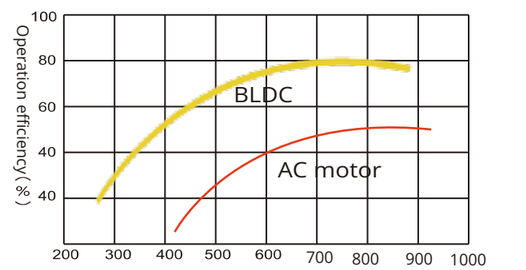


BLDC Motor Fan, Effectively Reduces The Wind Noise

The rotor is made of permanent magnets and the stator is composed of high density pure copper coils that are integrated and wound together to keep low noise and efficient operation levels. An adjustment can be carried out according to the changes of system operation. The system operates efficiently under different loads, with the system efficiency up to 85%.

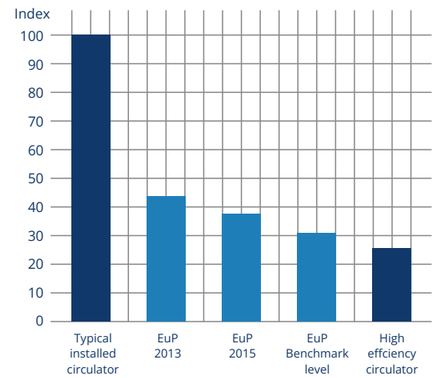


Brushless DC motor



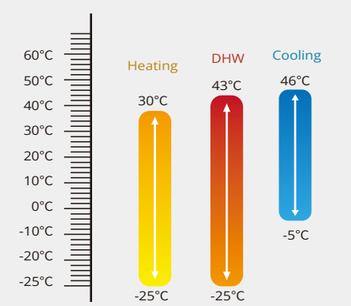
High efficiency provide an 85% ~ 90% reduction of electrical consumption. Depending on what you pay per kilowatt hour, that electrical savings may translate into $13 ~ $15 per month during the heating season.



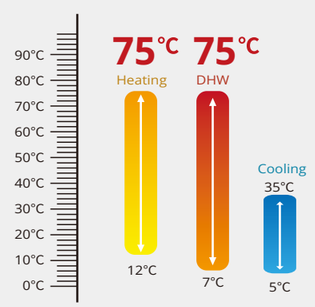


Wide Ambient Temperature and Water Temperature Operation Ranges

Our heat pump products have a wide temperature operating range, wide adaptability, and a large water temperature operating range.



Ambient temperature operation range

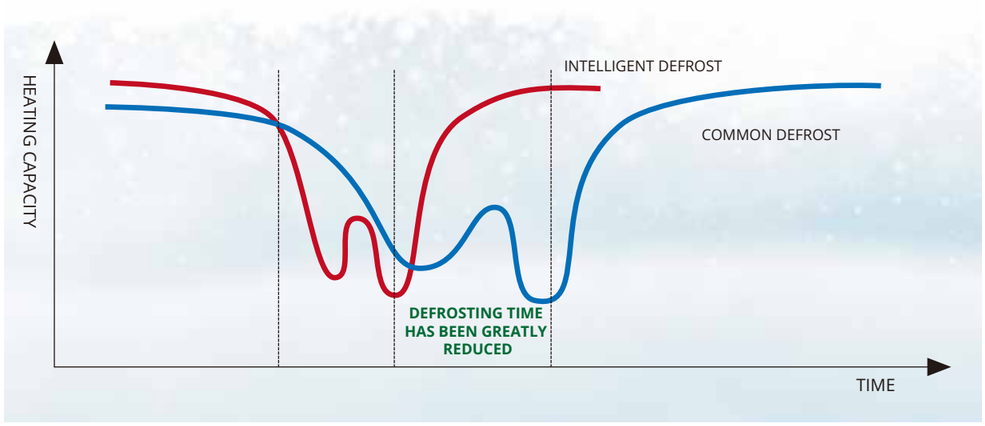


Water temperature operation range

Only for R290 Models

Smart Defrost, Winter Heating Worry-free

The system can accurately judge the timing and time of defrosting according to the defrosting data such as unit running time, compressor suction, exhaust pressure, and outdoor environmental temperature. This process can shorten defrosting time to 3~5 minutes, ensuring the optimal heating capacity of the unit.



PV direct connection

The R290 machine (single-phase) can be directly connected to photovoltaic equipment via the MTTP board.



Core of the System:

Dual-Dimensional Safety Protection Logic

As a highly efficient and environmentally friendly natural refrigerant, R290 has flammable and explosive properties, which impose stringent requirements on the safety system. This system takes "early warning + active shutdown" as its core, and constructs a full-link safety barrier through real-time monitoring of the refrigerant sensor and precise control of the micro-bubble valve, ensuring absolute safety of the heat pump during operation, maintenance and abnormal conditions.





Smart Control

Intuitive Interface

The interface is designed to be simple and user-friendly. Users can easily navigate through the various features and this thoughtful combination of icons and text ensures that users of all levels of technical proficiency can effortlessly interact with the interface.

Intelligent Temperature Adjustment and Multi-mode Switching

By implementing intelligent temperature adjustment logic, users can enjoy a more comfortable experience. There are also multiple operating modes to choose from, such as eco mode, holiday mode and test mode.

Wi-Fi module and App control

The Wi-Fi module can help users with remote control, intelligence and automation, data analysis and trouble-shooting, which improves user convenience and heat pump operation efficiency.

Support Modbus Protocol

Supporting Modbus protocol can provide users with better flexibility and stability. It makes machine control more convenient and reliable, while greatly reducing system maintenance costs and improving system performance and efficiency.

Multiple languages

čeština Deutsch English Español Français Italiano Nederlands

Polski Svenska Slovenčina

Above UI is for Reference

Energy Management System

Tongyi is initiating a zero-carbon footprint house solution by adding an air-to-water heat pump, a buffer tank, a PCM thermal storage, and an Energy Storage System (ESS) battery to an existing solar photovoltaic (PV) system resulting in a particularly potent and environmentally responsible setup.

EEBUS §14a EnWG



Only for R290 Models

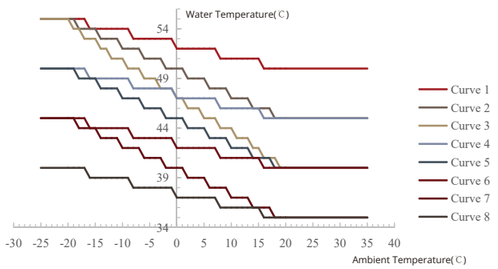
Energy Consumption Monitor

With the advanced capabilities of our latest smart controller, users can access crucial data on energy consumption, cooling/heating capacity, and energy efficiency ratio from units over the last 24 hours, 30 days, 12 months, and even 10 years.
With the ability to check energy consumption at any moment, this feature greatly enhances energy savings, reduces operational costs, and improves the efficiency of resource management.

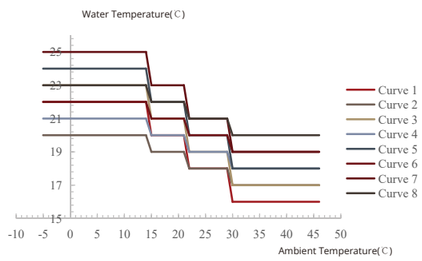


Climate Curve

Thanks to the precise weather control function, the heat pump can provide 32 temperature control models for different weather conditions, bringing flexible and diverse operations to adapt to the complex and dynamic climate changes.



Climate curves for heating mode



Climate curves for cooling mode

Only for R290 Models

SPECIALIZED IN HEAT PUMP TECH SINCE 1999

Support Cascade System

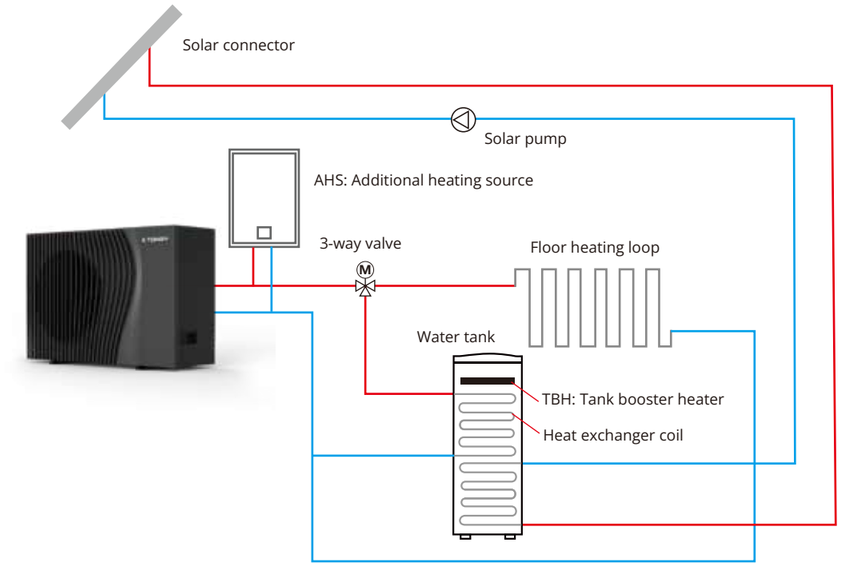
Tongyi cascaded heat pump system allows up to 8 heat pump units to work together in a group through one controller to meet household heating and hot water requirements. The cascade system can be designed to operate at the same time for different tasks (i.e. one for heating, the other for hot water), or they can share the household heating and hot water demand between them.



Up to 8 sets of unit modules can be connected in parallel

Support AHS

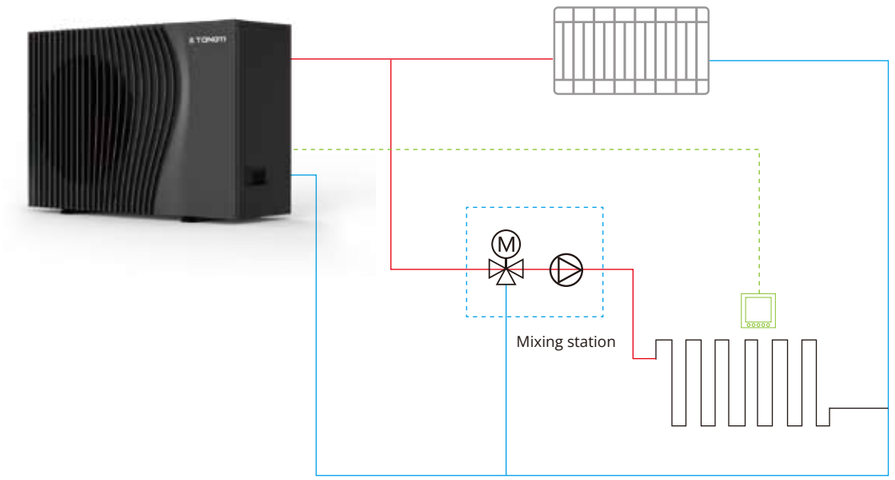
—AHS (Additional Heating Source), such as a backup heater or gas boiler, controlled by the unit's system, provides additional heating when the environment require.
—TBH and solar systems provide additional heating to raise the domestic hot water temperature.
—3-way valve is used to switch between heating mode and DHW (Domestic Hot Water) mode.



Only for R290 Models

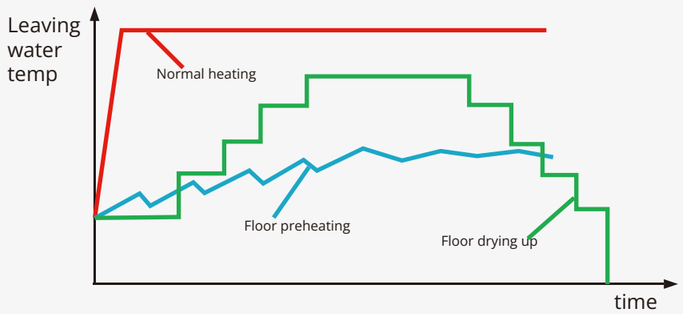
Double Zone Control

The double zones control function can improve comfort and reduce energy costs by controlling the temperatures in different parts of your home independently. This particular feature is currently limited to the heating mode only.



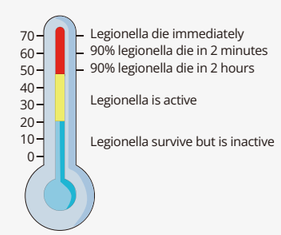
Floor Preheat and Dry Up

We provide two modes for underfloor heating, one is “Floor preheat" Mode which is used after the initial installation of floor loops, and the other one is “Floor dry up” mode for the first heating during the season. During the process, the water temperature would be increased gradually, and the floor can remain intact without distortion.

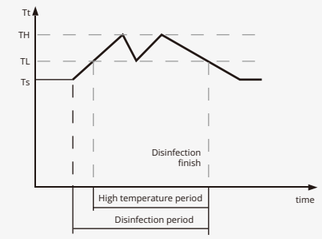


Automatic Disinfection & Sterilization

Disinfect function is used to kill legionella with 60-70 °C water to ensure health and safety. This function can be activated by the user interface.



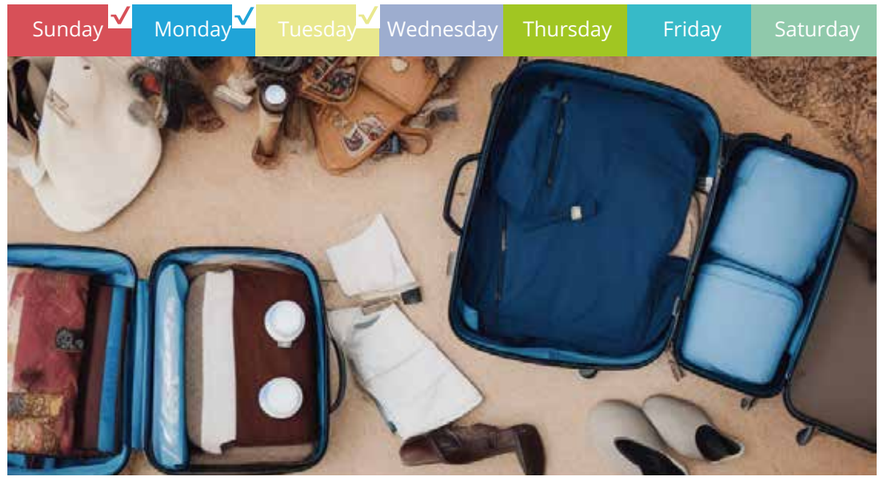
The disinfection function disinfects the domestic hot water tank by periodically heating the domestic water to a specific temperature.



Tt: tank temperature
TH: High set point temperature for disinfection
TL: Low set point temperature for disinfection
Ts: User set point temperature (as set on the user interface)

Holiday Mode

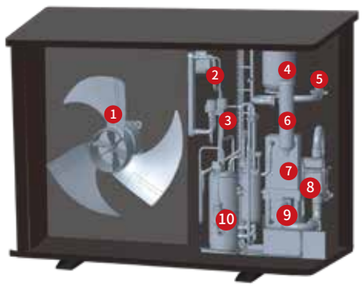
Holiday mode function would be anticipating your return in the most cost-effective and energy-saving way. The unit may operate in heating mode and/or DHW mode automatically with low water temperature to prevent water in the system from freezing in the winter during your time away from home. Besides, the user may pre-set the disinfection mode to ensure that germ-free water is available when the family gets back home.



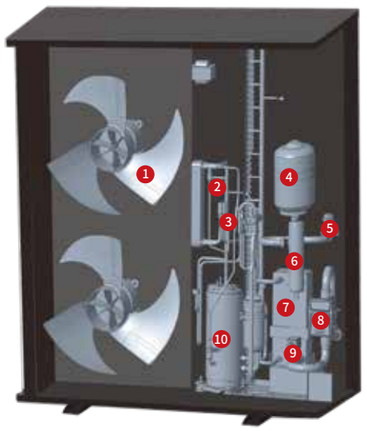
Only for R290 Models

Easy Installation & Maintenance (R32)

TONGYI HEAT PUMP's Monobloc Unit is fully packaged, which integrates water side components in one package. No refrigeration piping connection is necessary, which makes the installation easier and quicker.

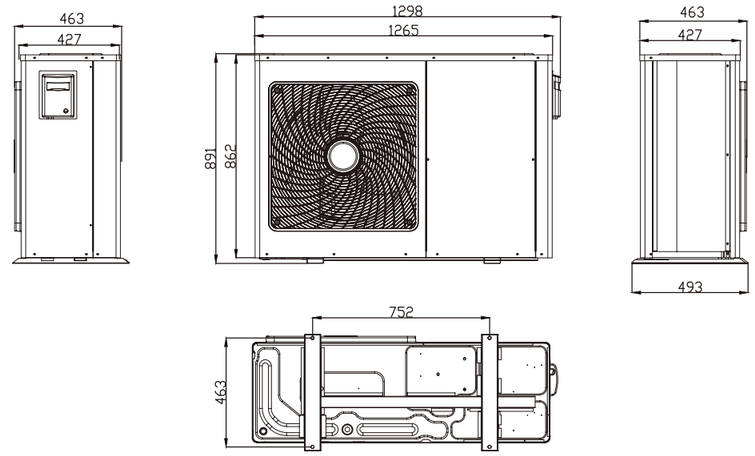


1. Fan
2. 2-way-valve
3. Electronic expansion valve
4. Expansion vessel
5. Exhaust valve (optional)
6. Electrical Heater (optional)
7. Plate heat exchanger
8. DC Water pump
9. Water flow switch
10. DC Inverter EVI Compressor

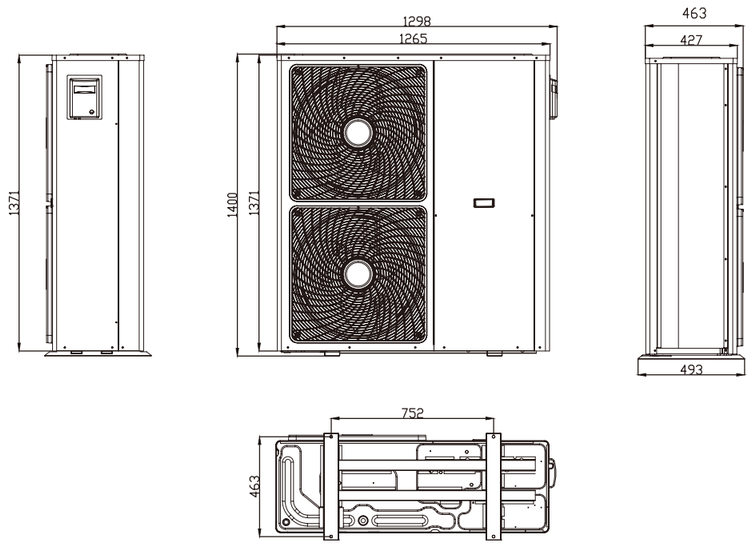


1. Fan
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8. DC Water pump
9. Water flow switch
10. DC Inverter EVI Compressor

Product Appearance Size (R32)



V5/V7/V9/V12/V9S/V12S/V16S



V18S/V22S

Product Specification (R32)



Model		V5	V7	V9	V12
ErP Level(35°C)	/	A+++	A+++	A+++	A+++
ErP Level(55°C)	/	A++	A++	A++	A++
Technical Data					
A7W35					
Rated Capacity	KW	5.10	7.10	9.13	12.00
Capacity Range	KW	3.00~6.43	3.00~9.00	4.00~12.66	4.00~15.64
Input Power Range	KW	0.60~1.54	0.60~2.15	0.90~3.15	0.90~3.81
A35W7					
Rated Capacity	KW	3.50	5.00	6.39	8.00
Capacity Range	KW	2.00~5.00	3.20~6.50	3.20~7.74	3.20~8.97
Input Power Range	KW	0.70~2.15	1.05~2.65	1.05~3.50	1.05~3.70
A20W15-55					
Rated Capacity	KW	7.00	8.50	10.24	12.00
Capacity Range	KW	2.60~8.00	3.00~9.00	4.20~10.13	4.20~13.02
Input Power Range	KW	0.52~1.85	0.87~2.35	0.87~2.38	0.87~3.13
POWER SUPPLY					
Power Supply, Volts/Ph/Hz	50 Hz	220/1/50	220/1/50	220/1/50	220/1/50
Max. Input Power	kW	2.20	3.00	4.00	4.00
Max. Input Current	A	10.00	13.50	18.00	18.50
NOISE LEVEL					
Sound Pressure(1m)	dB(A)	44	46	48	52
Sound Pressure(10m)	dB(A)	27	29	31	35
Sound Power Level	dB(A)	58	60	62	66
OPERATION RANGE					
Ambient Temperature Range	℃	-25~46	-25~46	-25~46	-25~46
COMPRESSOR					
Type	/	DC inverter	DC inverter	DC inverter	DC inverter
REFRIGERANT					
Type/GWP	/	R32/675	R32/675	R32/675	R32/675
Charge/CO2 Equivalent	kg/TON	1.5/1.0	1.5/1.0	2.2/1.5	2.2/1.5
PUMP					
Type	/	/	/	/	/
Circulation Pump Water Head	m	8	8	8	8
HYDRONIC					
Rated Water Flow Rate	m3/hr	0.9	1.2	1.5	2.0
Piping Connections					
Piping Connections Inlet		DN25	DN25	DN25	DN25
Piping Connections Outlet		DN25	DN25	DN25	DN25
PACKING					
Dimensions (Lx Wx H)	mm	1298x463x891	1298x463x891	1298x463x891	1298x463x891
Packing Dimensions (Lx Wx H)	mm	1380x570x1030	1380x570x1030	1380x570x1030	1380x570x1030
Net Wt.	kg	100	100	100	100
Approx. Shipping Wt.	kg	115	115	115	115

Those models are tested according to EN 14825. EER and COP calculation is based in accordance with EN14511.
The sound power level is measured in accordance with EN12102.

The above data are subject to modification based on continuous improvement without advance notice. Please refer to those on real unit, and thanks for your attention to the latest version.



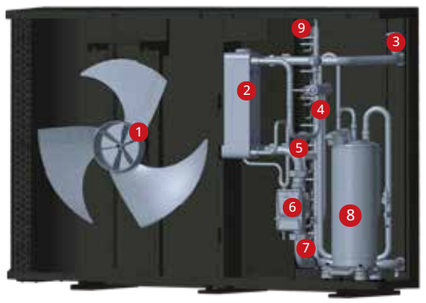
Model		V9S	V12S	V16S	V18S	V22S
ErP Level(35°C)	/	A+++	A+++	A+++	A+++	A+++
ErP Level(55°C)	/	A++	A++	A++	A++	A++
Technical Data						
A7W35						
Rated Capacity	KW	9.00	12.50	16.00	18.10	22.00
Capacity Range	KW	4.0~13.07	8.00~17.70	8.00~17.70	8.65~23.88	8.65~23.88
Input Power Range	KW	0.95~3.25	1.75~4.22	1.75~4.22	1.80~5.95	1.80~5.95
A35W7						
Rated Capacity	KW	6.00	9.74	12.00	12.37	15.50
Capacity Range	KW	3.10~7.53	5.38~14.31	5.38~14.31	5.70~15.58	5.70~15.80
Input Power Range	KW	1.05~3.50	2.03~6.01	2.03~6.01	1.80~7.00	1.80~7.50
A20W15-55						
Rated Capacity	KW	10.00	15.03	15.03	22.79	25.50
Capacity Range	KW	4.10~10.20	9.20~15.03	9.20~15.03	9.58~27.64	9.58~27.64
Input Power Range	KW	0.89~2.50	1.92~3.56	1.92~3.56	1.97~6.75	1.97~7.20
POWER SUPPLY						
Power Supply, Volts/Ph/Hz	50 Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Max. Input Power	kW	4.00	5.50	6.50	8.00	9.00
Max. Input Current	A	6.40	8.00	9.50	12.00	13.50
NOISE LEVEL						
Sound Pressure(1m)	dB(A)	50	50.2	53	57	57
Sound Pressure(10m)	dB(A)	33	33.6	38	40	40
Sound Power	dB(A)	64	66	68	71	71
OPERATION RANGE						
Ambient Temperature Range	℃	-25~46	-25~46	-25~46	-25~46	-25~46
COMPRESSOR						
Type	/	SS PHE	SS PHE	SS PHE	SS PHE	SS PHE
REFRIGERANT						
Type/GWP	/	R32/675	R32/675	R32/675	R32/675	R32/675
Charge/CO2 Equivalent	kg/TON	2.2/1.5	2.2/1.5	2.2/1.5	2.8/1.9	2.8/1.9
PUMP						
Type	/	/	/	/	/	/
Circulation Pump Water Head	m	8	8	8	8	8
HYDRONIC						
Rated Water Flow Rate	m3/hr	1.5	2	2.75	3	3.8
Piping Connections						
Piping Connections Inlet		DN25	DN25	DN25	DN25	DN25
Piping Connections Outlet		DN25	DN25	DN25	DN25	DN25
PACKING						
Dimensions (Lx Wx H)	mm	1298x463x891			1298x463x1400	
Packing Dimensions (Lx Wx H)	mm	1380x570x1030			1380x570x1560	
Net Wt.	kg	115	115	115	125	125
Approx. Shipping Wt.	kg	130	130	130	145	145

Those models are tested according to EN 14825. EER and COP calculation is based in accordance with EN14511.
The sound power level is measured in accordance with EN12102.

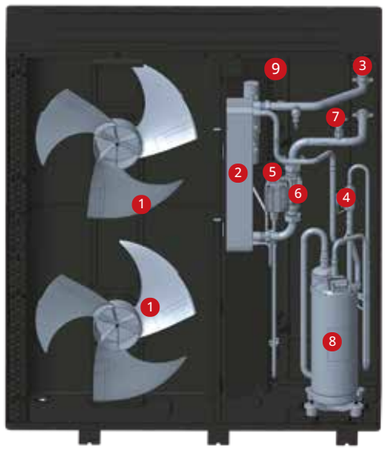
The above data are subject to modification based on continuous improvement without advance notice. Please refer to those on real unit, and thanks for your attention to the latest version.

Easy Installation & Maintenance (R290)

TONGYI HEAT PUMP comes in a monobloc, integrating the hydro components. No refrigeration piping is necessary, making the installation easier and quicker.

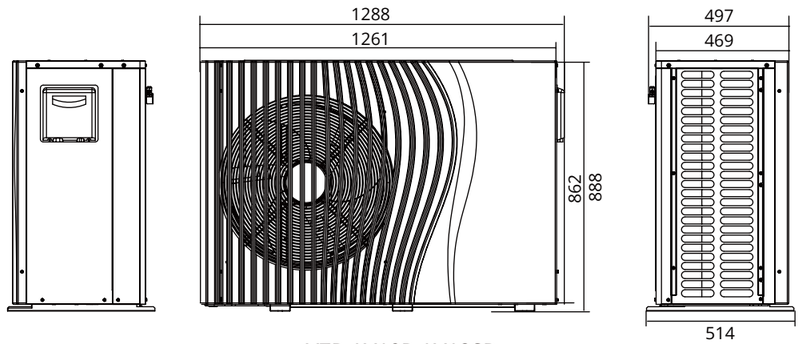


1. Fan
2. Plate heat exchanger
3. Exhaust valve (optional)
4. 4-way valve
5. Electronic expansion valve
6. DC water pump
7. Water flow switch
8. DC inverter compressor
9. Evaporator

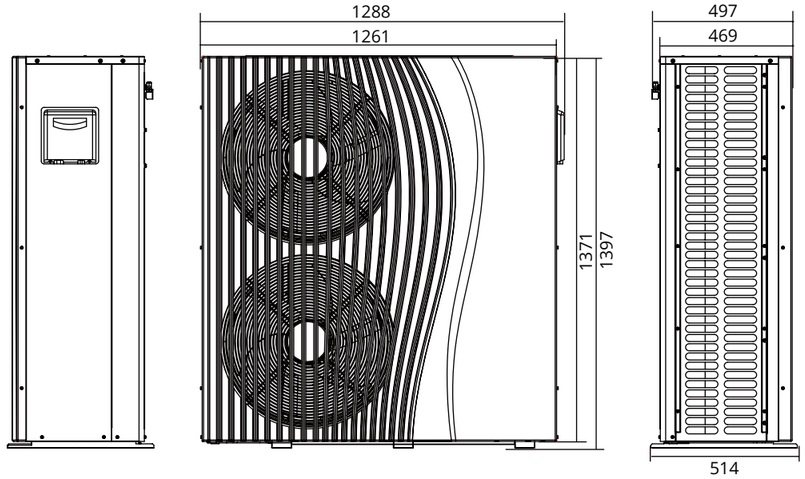


1. Fan
2. Plate heat exchanger
3. Exhaust valve (optional)
4. 4-way valve
5. Electronic expansion valve
6. DC water pump
7. Water flow switch
8. DC inverter compressor
9. Evaporator

Product Appearance Size (R290)



V7R / V10R / V12SR



V20SR

Product Specification (R290)

R290 | 5.0 COP | 3.8 EER | 35 dB(A) Noise | PV Connect | 5 years warranty | Cascade System



Model		V7R	V10R	V12SR	V20SR
ErP Level(35°C)	/	A+++	A+++	A+++	A+++
ErP Level(55°C)	/	A++	A++	A++	A++
POWER SUPPLY					
Power Supply, Volts/Ph/Hz		230/1/50	230/1/50	380/3/50	380/3/50
Power Supply Range	Volts	195~265	195~265	340~460	340~460
Max. Input Power	kW	2.6	4	5.1	6.5
Max. Input Current	A	12	18	8.5	13.4
A7W35					
Capacity Range	kW	2.88~8.29	4.43~11.81	5.43~15.65	8.24~22.28
Input Power Range	kW	0.57~1.85	0.84~3.04	1.02~4.00	1.55~5.48
COP Range	/	4.47~5.07	3.88~5.29	3.92~5.3	4.06~5.33
A7W55					
Capacity Range	kW	2.298~6.33	3.18~11.10	4.82~13.37	7.39~18.81
Input Power Range	kW	0.88~1.31	1.22~4.00	1.51~4.63	2.23~6.19
COP Range	/	2.74~2.96	2.62~2.77	2.88~3.20	3.04~3.31
A35W7					
Capacity Range	kW	1.92~4.89	3.14~7.04	3.99~9.19	3.67~12.88
Input Power Range	kW	0.65~1.86	1.02~2.75	1.24~4.02	1.74~4.79
EER	/	2.63~2.95	2.56~3.07	2.28~3.26	2.10~2.68
A35W18					
Rated Capacity	kW	2.88~6.57	4.76~9.33	5.70~11.08	7.74~15.83
Rated Input Power	kW	0.62~1.97	1.03~2.98	1.28~3.93	1.69~5.48
EER Range	/	3.33~4.66	3.13~4.62	2.82~4.46	3.53~4.53
A20W15-55					
Capacity Range	kW	2.50~6.50	4.00~10.00	6.00~16.00	8.00~20.00
Input Power Range	kW	0.57~1.67	0.90~2.60	1.35~4.16	1.85~5.25
COP Range	/	3.85~4.44	3.85~4.44	3.85~4.44	3.81~4.32
NOISE LEVEL					
Sound Pressure(1m)	dB(A)	38	38	39	46
Sound Pressure(10m)	dB(A)	18	18	20	26
Sound Power	dB(A)	52.1	51.7	53.6	61.1
OPERATION RANGE					
Operation Temperature Range	℃	-25~46	-25~46	-25~46	-25~46
Water Outlet Temperature Range	℃	5~75	5~75	5~75	5~75
HYDRONIC					
Rated Water Flow Rate	m3/hr	1.2	1.72	2.06	3.44
PIPING CONNECTIONS					
Piping Connections Inlet/Outlet		DN25	DN25	DN25	DN25
REFRIGERANT					
Type	/	R290	R290	R290	R290
GWP	/	3	3	3	3
Charge	kg	0.75	0.90	1.10	1.50
PACKING					
Dimensions (Lx Wx H)	mm	1288x514x888	1288x514x888	1288x514x888	1288x514x1397
Packing Dimensions (Lx Wx H)	mm	1373x569x1036	1373x569x1036	1373x569x1036	1373x569x1546
Net Wt.	kg	121	124	145	185
Approx. Shipping Wt.	kg	151	157	196	246

The above data are subject to modification based on continuous improvement without advance notice. Please refer to those on real unit, and thanks for your attention to the latest version.

Project Portfolios



Guizhou Astronomical Telescope Project



Finland



Bird's Nest Stadium Project in Beijing



Germany



Daxing International Airport Project



Latvia

Join the green revolution with Tongyi Heat Pump Technology Your partner in achieving carbon neutrality!

For over two decades, we've been at the forefront of the fight against climate change by conserving energy and reducing CO2 emissions. Our efforts are equivalent to planting **100 million** trees since 1999, and we're just getting started.

SPECIALIZED IN HEAT PUMP TECH SINCE 1999

coal **750,000tons**
Reduced 750,000 tons of coal consumption

Co_2 **3 billion kilograms**
Prevented the release of 3 billion kilograms of carbon dioxide emissions

NO_x **3.2 million kilograms**
Reduced nitrogen oxides emissions by 3.2 million kilograms

So_2 **12.5 million kilograms**
Saved 12.5 million kilograms of sulphur dioxide emissions from being released into the atmosphere.

With our technology, you can make a significant impact on the environment while saving costs. Join us in our mission to achieve carbon neutrality and create a greener, more sustainable future. Choose Tongyi Heat Pump Technology and experience the benefits of eco-friendly living.

