



Smart switching based on economical efficiency

Users can set electricity and gas price by themselves, the heat pump unit automatically calculates energy usage cost, and intelligently switches to the most efficient energy mode.

SG Ready



Tri-thermal is equipped with Smart Grid control logic, smartly using the fluctuation of electricity price signal from the grid and automatically optimizes the operation strategy to maximize the economy of system operation and achieves the perfect balance between cost efficiency and energy utilization.



RELIABLE

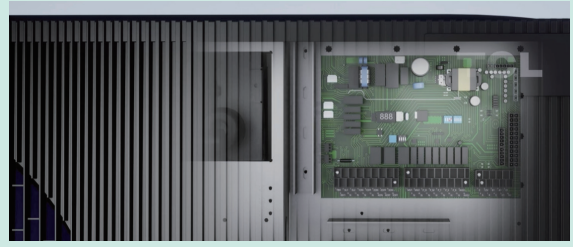
Six-stage anti-freeze protection

Heat pumps automatically perform heating actions of different anti-freeze levels according to ambient and water temperatures to ensure the safety of the water system.



Component explosion-proof design

Fuse, capacitor, varistor adopt an explosion-proof design to prevent fire hazards from the root, ensuring the safe and reliable operation of heat pumps.



PARAMETERS



Heat pump			04	06	08	10	12	14	16	12	14	16
Power supply	V/Ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Heating A7W35	Capacity	kW	4.20	6.20	8.00	9.50	12.00	14.00	15.00	12.00	14.00	15.00
	Rated input	kW	0.83	1.27	1.60	2.07	2.50	3.05	3.40	2.50	3.05	3.40
	COP		5.09	4.90	5.00	4.60	4.80	4.59	4.41	4.80	4.59	4.41
Heating A7W45	Capacity	kW	4.30	6.20	8.00	9.50	12.00	14.00	15.00	12.00	14.00	15.00
	Rated input	kW	1.10	1.63	2.13	2.59	3.00	3.60	4.30	3.00	3.60	4.30
	COP		3.90	3.80	3.76	3.68	4.00	3.89	3.49	4.00	3.89	3.49
Heating A7W55	Capacity	kW	4.40	6.00	8.00	9.50	12.00	14.00	15.00	12.00	14.00	15.00
	Rated input	kW	1.40	1.94	2.50	3.06	3.76	4.52	5.20	3.76	4.52	5.20
	COP		3.15	3.10	3.20	3.10	3.19	3.10	2.88	3.19	3.10	2.88
Cooling A35W18	Capacity	kW	4.50	6.00	8.30	10.00	12.00	14.00	16.00	12.00	14.00	16.00
	Rated input	kW	0.90	1.34	1.66	2.17	2.65	3.30	4.20	2.65	3.30	4.20
	EER		5.00	4.49	5.00	4.60	4.53	4.24	3.81	4.53	4.24	3.81
Cooling A35W7	Capacity	kW	4.50	6.00	7.20	8.80	11.60	12.95	14.00	11.60	12.95	14.00
	Rated input	kW	1.32	2.00	2.18	2.84	3.85	4.55	5.20	3.85	4.55	5.20
	EER		3.40	3.00	3.30	3.10	3.01	2.85	2.69	3.01	2.85	2.69
Seasonal space heating energy efficiency class ²	LWT at 35℃		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55℃		A++	A++	A+++	A+++	A++	A++	A++	A++	A++	A++
Refrigerant	Type		R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
	Factory charge kg		0.74	0.74	1.10	1.10	1.25	1.25	1.25	1.25	1.25	1.25
Sound pressure level(3m)	dB		35	35	35	35	35	35	35	35	35	35
Sound power Level ³	dB		56	59	60	61	64	66	68	64	66	68
Sound pressure level ⁴	dB		44	46	48	49	51	53	55	51	53	55
Net dimensions (W*H*D)	mm		1220*709*390	1220*709*390	1293*860*523	1293*860*523	1293*860*523	1293*860*523	1293*860*523	1293*860*523	1293*860*523	1293*860*523
Packing dimension (W*H*D)	mm		1315*840*430	1315*840*430	1395*996*550	1395*996*550	1395*996*550	1395*996*550	1395*996*550	1395*996*550	1395*996*550	1395*996*550
Piping connections			R11/4"	R11/4"	R11/4"	R11/4"	R11/4"	R11/4"	R11/4"	R11/4"	R11/4"	R11/4"
Electric heater ⁵	kW		3	3	3	3	3	3	3	9	9	9
Ambient temperature	Cooling	℃	-5~46	-5~46	-5~46	-5~46	-5~46	-5~46	-5~46	-5~46	-5~46	-5~46
	Heating	℃	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
	DHW	℃	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
Water setting temperature	Cooling	℃	5~20	5~20	5~20	5~20	5~20	5~20	5~20	5~20	5~20	5~20
	Heating	℃	25~80	25~80	25~80	25~80	25~80	25~80	25~80	25~80	25~80	25~80
	DHW	℃	20~70	20~70	20~70	20~70	20~70	20~70	20~70	20~70	20~70	20~70

Notes:

1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013
2. Seasonal space heating energy efficiency class tests in average climate conditions.
3. Sound power test condition: EN12102-1
4. Sound pressure level is the maximum value tested under the two conditions of A7W35 and A35W18.
5. All models can be equipped without electric heater. 12-16kW three-phase models are available with an optional 6kW electric heater.



Worldwide Air Conditioner Partner



TECHNICAL SUPPORT,GLOBAL SALES COMPANY:
GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO.,LTD.
Tel: +86 0760 2820 3104
Website: <https://www.tcl.com/eu/en/heatpump>
E-mail: heatpump@tcl.com



TCL Heat Pump EU TCL Heat Pump EU TCL Heat Pump EU TCL Heat Pump

V26.5.27



R290

Tri-thermal ATW Heat Pump



VERSATILITY

Professional one-stop green energy solution

Tri-thermal is an integrated system that provides space heating and cooling as well as domestic hot water, offering a complete, all-year-round solution which can replace the need for traditional gas or oil boilers, or work together with them.



Diversified Heating



Domestic Hot Water



Compact Fan Coil Unit Cooling



Solar Kit

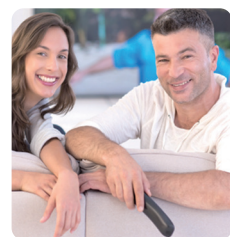


Auxiliary Heat Source

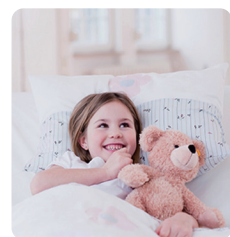
COMFORT

3-Zone Temp. Control

Ensure different space working at perfect temp. Meet the needs of different age groups. Always hits the mark for comfort of your family.



Comfort Temp. for Living room



Comfort Temp. for Children's room



Comfort Temp. for Study

Max.LWT
80°C

Cover more than 98% European heating scenarios, especially for old building heating.



Poor insulation



Low-efficient radiator

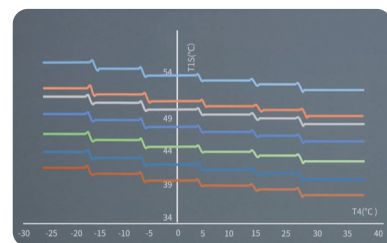


Boiler replacement

Climate curves

8 pre-set +1 self-defined temperature curves, flexible adaptation to operating conditions in different climate.

Outdoor Home



ONE-STOP GREEN ENERGY SOLUTION



SILENT OPERATION



INTELLIGENT



HIGH-EFFICIENT AND ENERGY SAVING

R290

DC inverter system

Tri-thermal adopts all DC inverter components and integrates high-efficient R290 environmental refrigerant, which not only ensures efficient and stable operation of the heat pump but also perfectly meets the dynamic load demand of various buildings through precise control of the output, and achieves maximum energy utilization.

Eco-friendly R290 refrigerant

R290, natural composition derived from propane, which meets the latest EU standards. It boasts an exceptional thermodynamic performance, enabling heat pump to operate with remarkable energy savings. Its low GWP and zero ODP make it a sustainable choice for a greener future.



SCOP up to
5.33

HIGHEST ENERGY LEVEL
A+++

With all DC inverter components and integrates high-efficient R290 environmental refrigerant, TCL heat pump amplifies energy and provide longer heating and stable indoor warmth.

