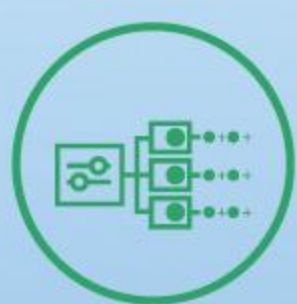




Worldwide Air Conditioner Partner

R290 

Tri-thermal ATW Heat Pump



3-Zone
Temp. Control



Ultra
Low Noise



Max.LWT
80°C



Six-stage
Anti-freeze
Protection



Energy
Saving



OTA+IOT
Platform



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



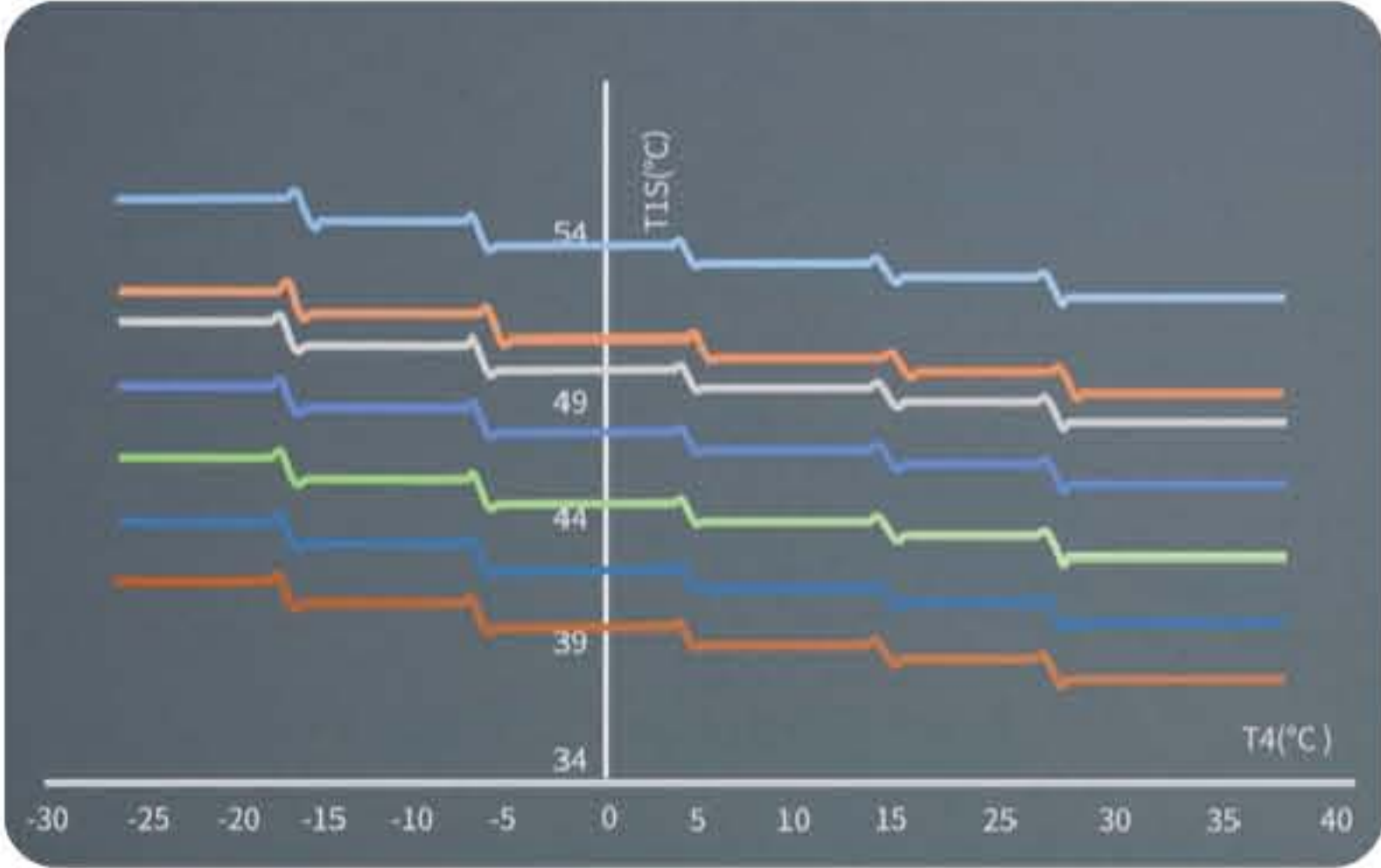
Boiler replacement

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



PV Panel

Zone 3

45°C

*Water Temp.

Fan coil unit

DHW

Zone 2

35°C

*Water Temp.

Floor Heating

Tri-thermal

Zone 1

50°C

*Water Temp.

Radiator

TCL

15:04

Domestic hot water zone

45°C

35°C

50°C

Cool

Energy saving

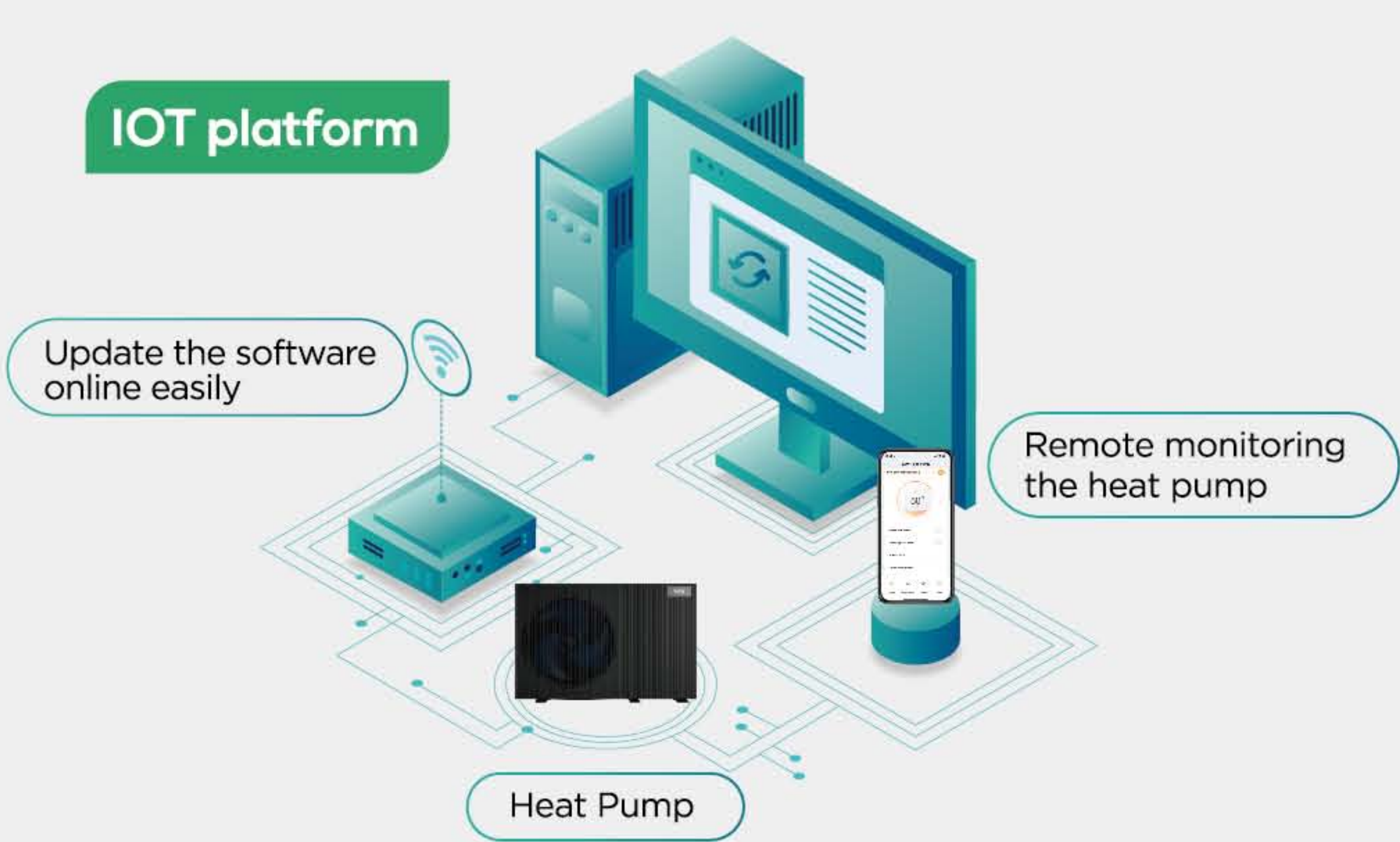
Silent

More

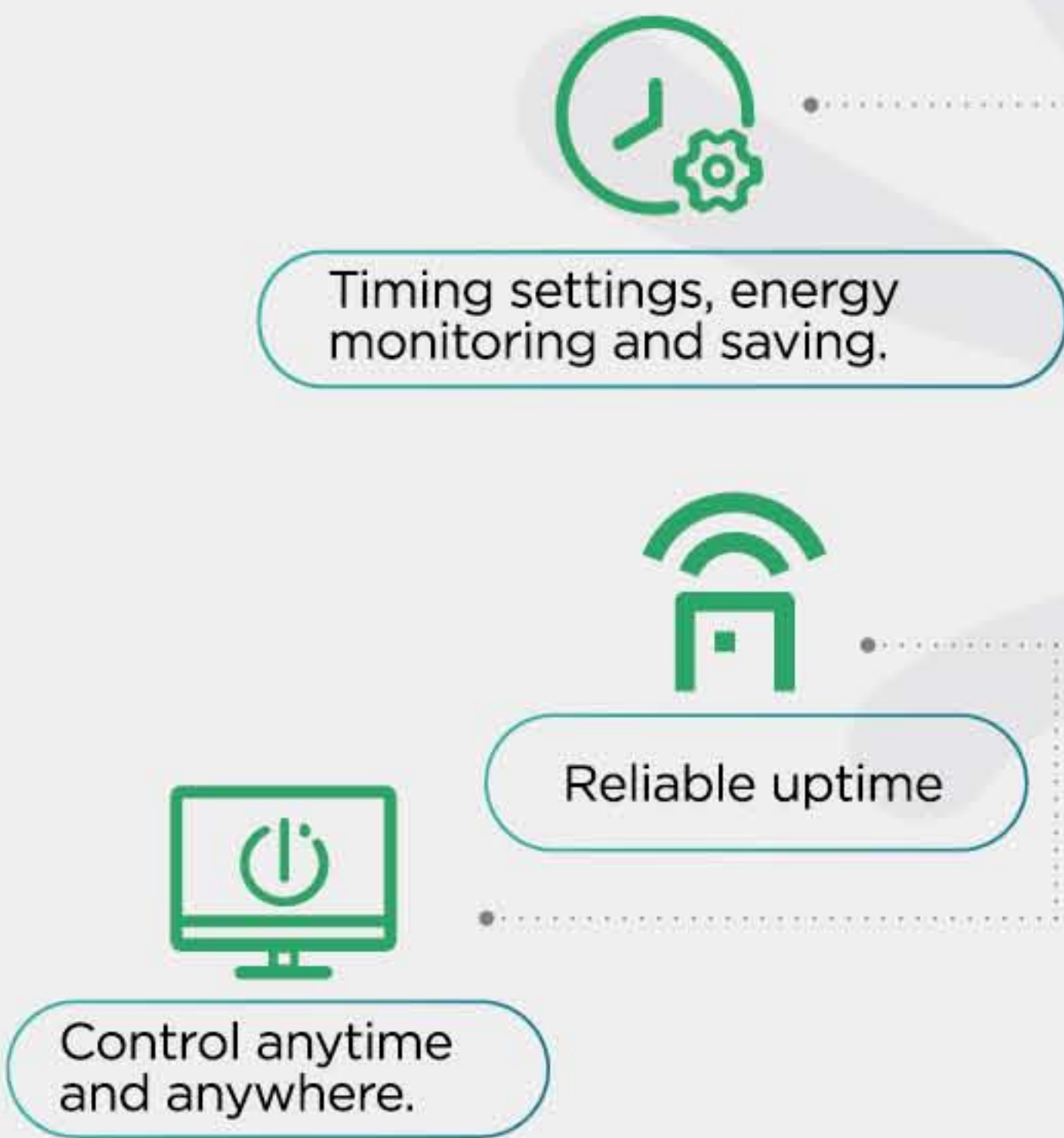
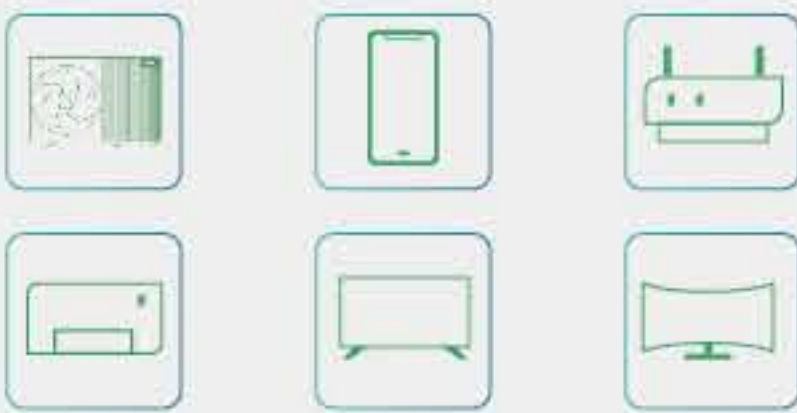
SILENT
OPERATION



INTELLIGENT



TCL HOME

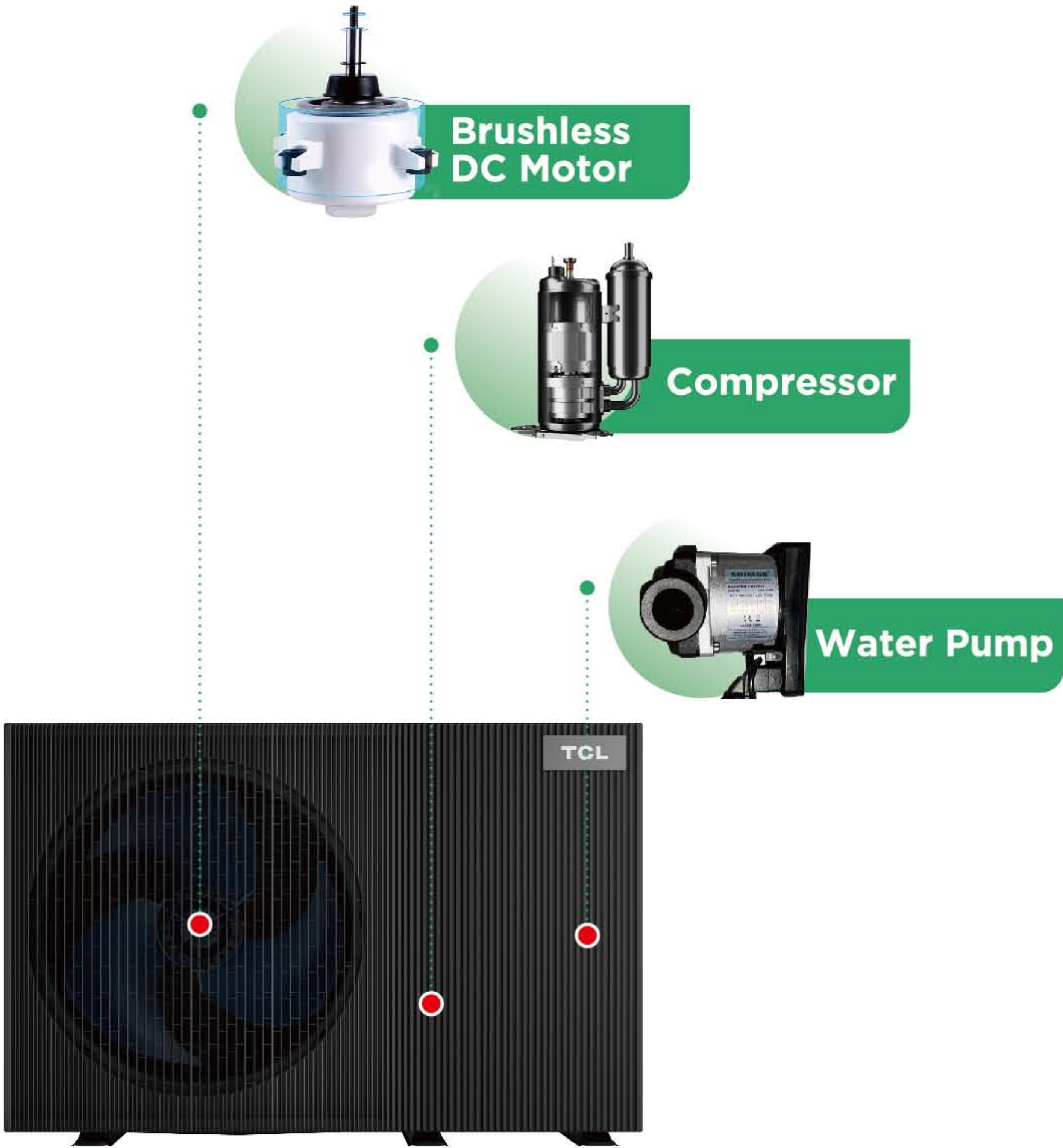


HIGH-EFFICIENT AND ENERGY SAVING

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.



Environmental
Protection



Energy
Efficiency



GWP=3
Minimal impact on
global warming



ODP=0
Neutral for the
ozone layer

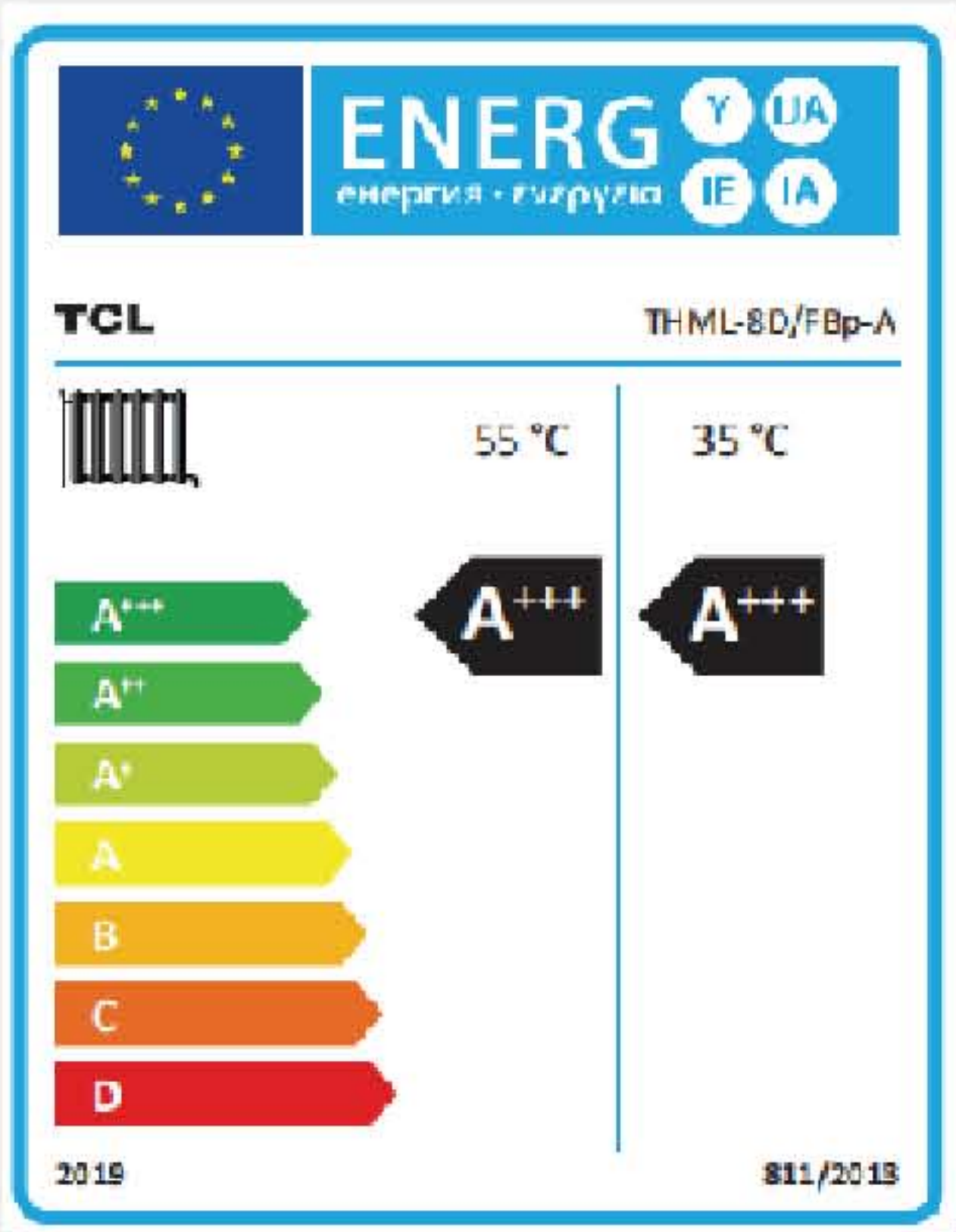
SCOP up to

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.



Minimum
-25°C
Outdoor



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.

Extremely
sufficient electricity



Sufficient
electricity



Normal
electricity



Insufficient
electricity



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.



Heat Pump
E-heater



Water Pump



Compressor



Expansion Vessel
E-heater



Plate Heat
Exchanger
E-heater



Chassis
E-heater

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.



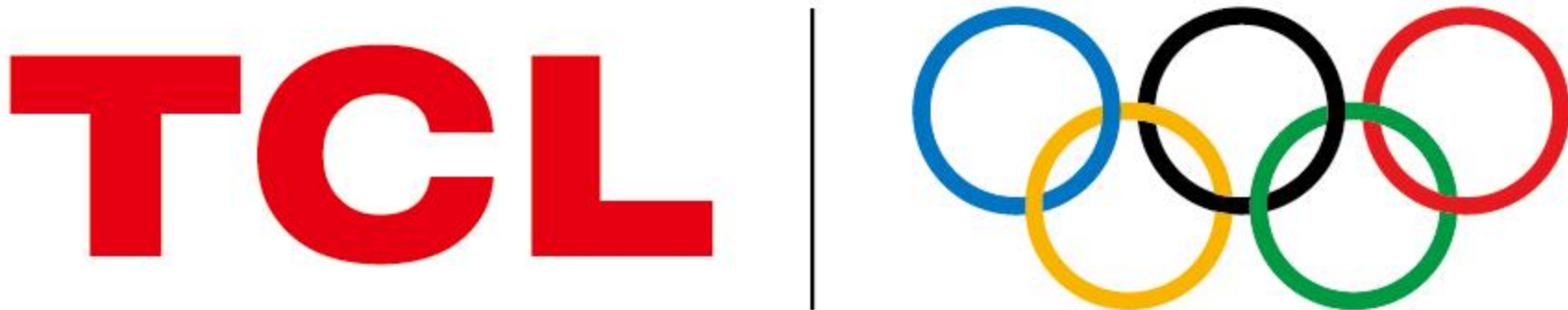


PARAMETERS

		THMLd-8D/FBp-A THMLd-10D/FBp-A THMLd-12D/FBp-A THMLd-14D/FBp-A THMLd-16D/FBp-A THMLd-12S/FBp-A THMLd-14S/FBp-A THMLd-16S/FBp-A								
Model name		THMLd-8D/3FBp-A THMLd-10D/3FBp-A THMLd-12D/3FBp-A THMLd-14D/3FBp-A THMLd-16D/3FBp-A THMLd-12S/6FBp-A THMLd-14S/6FBp-A THMLd-16S/6FBp-A								
		THMLd-12S/9FBp-A THMLd-14S/9FBp-A THMLd-16S/9FBp-A								
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	380- 415/3/50	380- 415/3/50	380- 415/3/50	380- 415/3/50
Heating A7W35	Capacity	kW	8.00	9.50	12.00	14.00	15.00	12.00	14.00	15.00
	Rated input	kW	1.60	2.07	2.50	3.05	3.40	2.50	3.05	3.40
	COP		5.00	4.60	4.80	4.59	4.41	4.80	4.59	4.41
Heating A7W45	Capacity	kW	8.00	9.50	12.00	14.00	15.00	12.00	14.00	15.00
	Rated input	kW	2.13	2.59	3.00	3.60	4.30	3.00	3.60	4.30
	COP		3.76	3.68	4.00	3.89	3.49	4.00	3.89	3.49
Heating A7W55	Capacity	kW	8.00	9.50	12.00	14.00	15.00	12.00	14.00	15.00
	Rated input	kW	2.50	3.06	3.76	4.52	5.20	3.76	4.52	5.20
	COP		3.20	3.10	3.19	3.10	2.88	3.19	3.10	2.88
Cooling A35W18	Capacity	kW	8.30	10.00	12.00	14.00	16.00	12.00	14.00	16.00
	Rated input	kW	1.66	2.17	2.65	3.30	4.20	2.65	3.30	4.20
	EER		5.00	4.60	4.53	4.24	3.81	4.53	4.24	3.81
Cooling A35W7	Capacity	kW	7.20	8.80	11.60	12.95	14.00	11.60	12.95	14.00
	Rated input	kW	2.18	2.84	3.85	4.55	5.20	3.85	4.55	5.20
	EER		3.30	3.10	3.01	2.85	2.69	3.01	2.85	2.69
Seasonal space heating energy efficiency class²	LWT at 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55°C		A+++	A+++	A++	A++	A++	A++	A++	A++
Refrigerant	Type		R290	R290	R290	R290	R290	R290	R290	R290
	Factory charge kg		1.10	1.10	1.25	1.25	1.25	1.25	1.25	1.25
Sound power Level³	dB		60	61	64	66	68	64	66	68
Sound pressure level⁴	dB		48	49	51	53	55	51	53	55
Net dimensions (W×H×D)	mm	1293×860×523	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	1395×996×550	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		R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"
Ambient temperature	Cooling	°C	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46
	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35
	DHW	°C	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43
Water setting temperature	Cooling	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20
	Heating	°C	25 ~ 80	25 ~ 80	25 ~ 80	25 ~ 80	25 ~ 80	25 ~ 80	25 ~ 80	25 ~ 80
	DHW	°C	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. The data for 14/16kW models are draft version



Worldwide Air Conditioner Partner



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