

TCL
THMLd4D-3HBp-A Mono
Split Heating and Cooling
System



TCL THMLd4D-3HBp-A Mono Split Heating and Cooling System Owner's Manual

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TCL

TCL THMLd4D-3HBp-A Mono Split Heating and Cooling System



Product Usage Instructions

- Ensure the power supply matches the specifications provided.
- Follow the installation manual to set up the unit securely.
- Make appropriate piping connections for cooling and heating.
- Power on the unit using the designated power switch.
- Set the desired temperature using the control panel.
- Select the mode of operation (heating, cooling, hot water) based on your requirement.
- Regularly clean the air filters to ensure efficient operation.
- Schedule professional maintenance checks at least once a year.

FAQ

- **Q:** What is the recommended power supply for this product?
- **A:** The recommended power supply is 220-240V/1/50Hz.
- **Q:** How often should I clean the air filters?
- **A:** It is recommended to clean the air filters every 2-3 weeks for optimal performance.
- **Q:** Can this product be used for both heating and cooling?
- **A:** Yes, this product is designed for both heating and cooling applications.

Mono product parameters



[illegible]

Seasonal space heating energy efficiency	LWT at 35°C		A+++									
	LWT at 55°C		A++									
Electric heater power input	kW		3	3	3	3	3	3	3	6(9)	6(9)	6(9)
MOP(Maximum overcurrent protection)3	A		18	18	19	19	32	32	32	14	14	14
MCA(Minimum circuit amps)	A		12	14	16	17	25	26	27	10	11	12
Compressor	Type		Twin rotary DC inverter									
Outdoor fan	Motor type		Brushless DC motor									
	Number of fans		1									
Throttle type			Electronic expansion valve									
Air side heat exchanger	Type		Finned tube									
Water-side heat exchanger	Type		Plate type									
Refrigerant	Type		R32									
	Factory charge	kg	1.30	1.30	1.40	1.40	1.74	1.74	1.74	1.74	1.74	1.74
Sound power Level ⁴		dB	56	59	60	61	64	66	68	64	66	68
Sound pressure level ⁵		dB	44	46	47	50	53	54	55	53	54	55
Net dimensions (W×H×D)		mm	1220×709×390			1293×860×495						
Packing dimension (W×H×D)		mm	1315×844×430			1395×996×535						
Net/Gross weight		kg	76.0/87.0	76.0/87.0	95.0/116.0	95.0/116.0	112.0/133.0	112.0/133.0	112.0/133.0	124.0/145.0	124.0/145.0	124.0/145.0
Piping connections			R1"	R1"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"	R5/4"
	Cooling	°C	- 5 43									

	COP		5.10	4.90	5.00	4.80	5.00	4.75	4.52	5.00	4.75	4.52
Heating A7W 45	Capac ity	kW	4.35	6.35	8.00	9.50	12.05	14.25	16.00	12.05	14.25	16.00
	Rated input	kW	1.14	1.69	2.11	2.60	3.14	3.83	4.42	3.14	3.83	4.42
	COP		3.80	3.75	3.80	3.65	3.84	3.73	3.62	3.84	3.73	3.62
Heating A7W 55	Capac ity	kW	4.40	6.00	7.40	9.00	12.00	14.00	16.00	12.00	14.00	16.00
	Rated input	kW	1.49	2.03	2.38	3.00	3.85	4.65	5.49	3.85	4.65	5.49
	COP		2.95	2.96	3.11	3.00	3.12	3.01	2.91	3.12	3.01	2.91
Cooling A35 W18	Capac ity	kW	4.50	6.00	8.00	9.50	12.00	13.50	15.00	12.00	13.50	15.00
	Rated input	kW	0.81	1.22	1.67	2.07	3.00	3.60	4.39	3.00	3.60	4.39
	EER		5.55	4.92	4.80	4.60	4.00	3.75	3.42	4.00	3.75	3.42
Cooling A35 W7	Capac ity	kW	4.50	6.00	7.00	8.00	11.60	12.95	14.30	11.60	12.95	14.30
	Rated input	kW	1.28	1.93	2.14	2.53	4.20	4.98	5.70	4.20	4.98	5.70
	EER		3.50	3.11	3.27	3.16	2.76	2.60	2.51	2.76	2.60	2.51
SCOP ²	LWT at 35°C		4.60	4.65	5.07	5.05	4.78	4.63	4.56	4.70	4.58	4.56
	LWT at 55°C		3.35	3.49	3.47	3.51	3.48	3.47	3.48	3.48	3.35	3.44
Seasonal spa ce heating en ergy efficienc y class ²	LWT at 35°C		A+++									
	LWT at 55°C		A++									
MOP(Maximum overcurrent protection) 3		A	18	18	19	19	32	32	32	14	14	14
MCA(Minimum circuit amps)		A	12	14	16	17	25	26	27	10	11	12
Compressor	Type		Twin rotary DC inverter									
	Motor type		Brushless DC motor									

Outdoor fan	Number of fans		1										
Throttle type			Electronic expansion valve										
Air side heat exchanger	Type		Finned tube										
Refrigerant	Type		R32										
	Factor y charge	kg	1.30	1.30	1.65	1.65	1.84	1.84	1.84	1.84	1.84	1.84	
Sound power level ⁴		dB	56	59	60	61	64	66	68	64	66	68	
Sound pressure level ⁵		dB	44	46	47	50	53	54	55	53	54	55	
Net dimensions (W×H×D)		mm	845×700×375		1010×860×494								
Packed dimensions(W×H×D)		mm	960×732×400		1135×970×530								
Net/Gross weight		kg	45.5/48.0	45.5/48.0	62.0/75.0	62.0/75.0	78.0/90.5	78.0/90.5	78.0/90.5	90.0/102.5	90.0/102.5	90.0/102.5	
Piping connections	Type		Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
	Liquid Dia.	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas Dia.	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
	Min. pipe length	m	2	2	2	2	2	2	2	2	2	2	
	Max. pipe length	m	30	30	30	30	30	30	30	30	30	30	
Installation height	Outdoor unit above	m	20	20	20	20	20	20	20	20	20	20	
	Outdoor unit below	m	20	20	20	20	20	20	20	20	20	20	
	Cooling	℃	- 5 43										

Operating range	Heating	°C	– 25 35
	DHW	°C	– 25 43

Notes

1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.
2. Seasonal space heating energy efficiency class tested in average climate conditions.
3. Test standard: EN12102- 1.
4. The sound pressure level is the maximum value tested under the two conditions of A7W35 and A35W18.



Model name			SMKLd- 4(6)D/3 HBp- A	SMKLd- 8(10)D/ 3HBp- B	SMKLd- 12(14,1 6)D/3HBp-A
Function			Heating and cooling		
Water outlet	Cooling	°C	5 to 20		
	Heating	°C	25 to 65		
	DHW	°C	20 to 60		
Power supply		V/Ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50
Electric heater power input		kW	3	3	3
Sound power level ¹		dB	38	42	44
Sound pressure level(1m) ²		dB	28	30	32
Net dimensions (W×H×D)		mm	420×790×270		

Packed dimensions (W×H×D)		mm	530×1035×355		
Net/gross weight		kg	44.0/50.0	41.0/47.0	42.0/48.0
Water circuit	Piping connections		inch	R1"	
	Safety valve set pressure		Mpa	0.3	
	Drainage pipe connection		mm	DN25	
	Expansion tank	Volume	L	8	
		Max. water pressure	MPa	0.3	
		Pre-pressure	Mpa	0.1	
	Heat exchanger		Type	Plate type	
	water pump head		m	9	
Refrigerant circuit	Liquid Dia.		mm	Φ6.35	Φ9.52
	Gas Dia.		mm	Φ15.9	Φ15.9
	Excessive operating refrigerant pressure		MPa	4.3	4.3
Operating temperature range	Ambient temperature		°C	+5 +35	
	Water pressure		MPa	0.1 0.3	

Notes

1. Test standard: EN12102- 1.
2. The sound pressure level is the maximum value tested under the two conditions of Note3 and Note4 for different combination between outdoor unit and hydronic box..
3. Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
4. Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C.



Versatility

Heating, cooling, and hot water with complete solutions, to the creative life

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 that can remove the need for traditional gas or oil boilers, or work together with them.

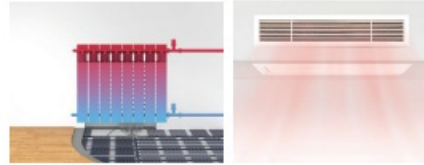
Compact fan coil unit cooling

- Ultra-thin body, comfortable and beautiful
- Multi-angle and all-directional wind supply



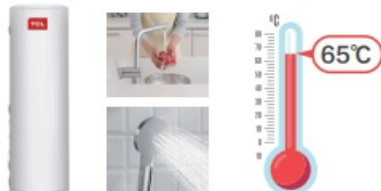
Diversified heating

- Heating by floor heating, radiator and fan coil unit
- Safe and comfort



Domestic hot water

- Provide DHW in time, heating quickly
- The maximum of leaving water temperature is 65°C



Solar kit

- Work only & work with heat pump for DHW



* Auxiliary heat source

- Link with traditional gas boilers, industrial hot water and electric auxiliary heating

High Efficient and energy-saving

Well-known brand DC inverter compressor GMCC

High-reliability electrical design

- High-current resistant & high-temperature resistant

Large pressure ratio design

- Low suction pressure
- High exhaust pressure
- Heating at low ambient temperature

Low oil output design

- Optimized internal tank design
- Less lubricating oil required
- Effectively solves the problem of oil return

DC Inverter motor design

- High efficiency, the highest SCOP is 5.07

Low noise vibration design

- Vibration optimization of twin rotor
- Noise optimization of double-layer mufflers

High-reliability volume design

- Large oil storage space
- Suitable for use in partial load conditions and long-pipe



High-efficient L-type heat exchanger

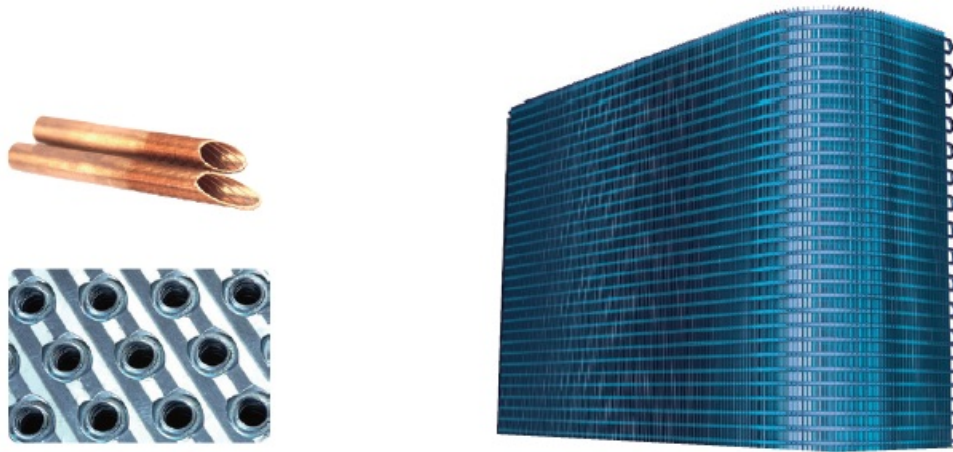
- Adopting advanced 3-D dynamic analysis and cross-flow path design, air volume increased by 8%, and heat exchange was more efficient.

Internal thread heat transfer pipe

- Using hydrophilic anti-corrosive fins, heat transfer efficiency increased 6%.

Corrugated fin

- Applying inner thread tube with 10% higher heat exchange efficiency.



Stepless inverter fan motor

- Realize stepless speed regulation, and reduce power consumption by 20% compared with AC motors
- Original built-in drive, high motor efficiency, more reliable
- Stepless regulation of air volume, precise control
- Quiet operation
- Insulation grade E

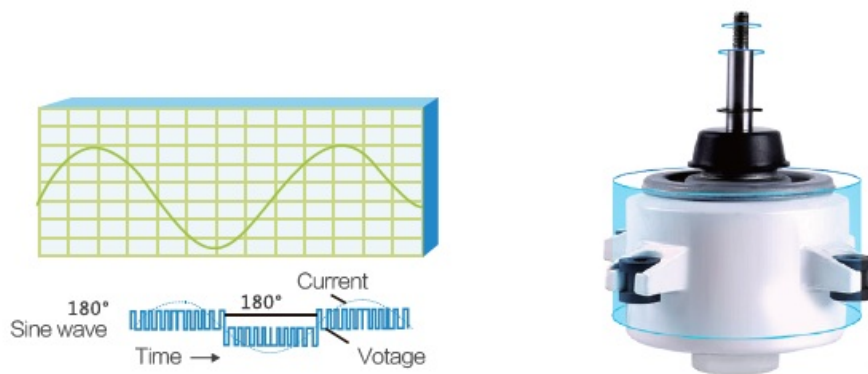
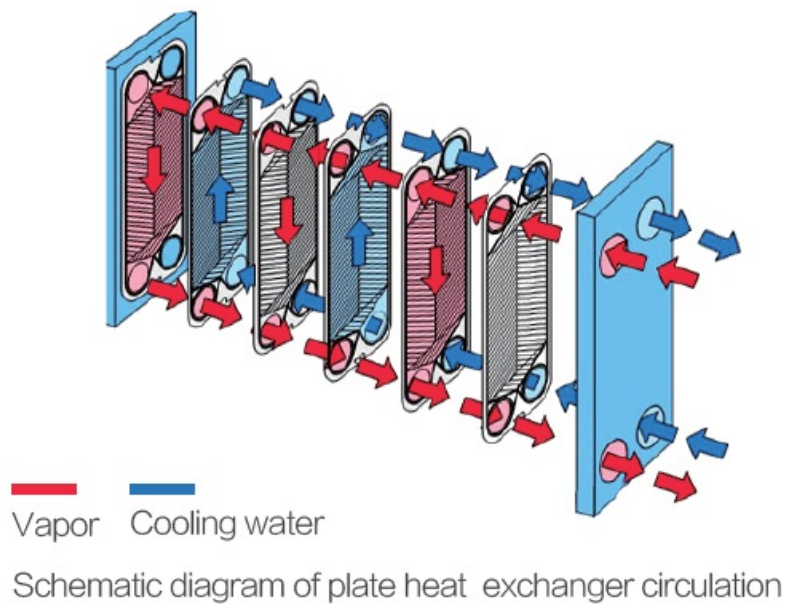


Plate heat exchanger

- Withstand high temperature and high pressure
- Compact design, smaller volume, and less pressure drop
- High anti-corrosion performance
- High thermal efficiency and lower fouling factor
- Easy installation and maintenance
- Under the same pressure loss, the heat transfer coefficient of the plate heat exchanger is 3~5 times higher than that of the tubular heat exchanger, covering an area of 1 / 3 of the tubular heat exchanger.



Multiple certifications



Environmental friendly refrigerant

- The GWP of R32 is 675



- CO2 equivalent is decreased 68% compared with R410a
- Save clients energy and protect the environment

Safe and Comfort

Anti-bacteria mode

- Designed to guarantee our safety and health.
- It works by heating the water to about 70 degrees.

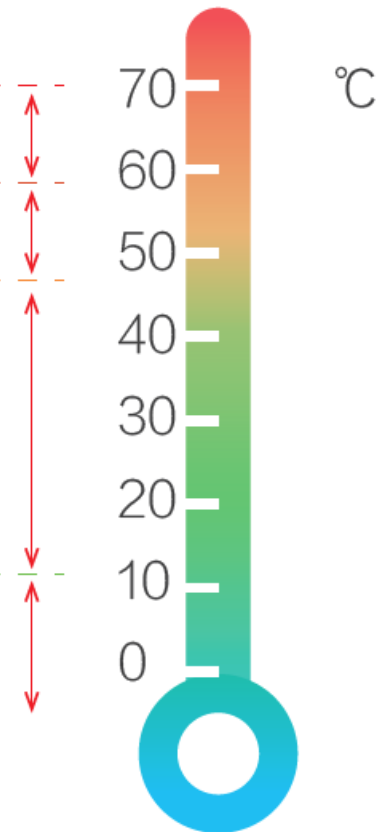
Legionella die immediately

90% legionella die in two minutes

90% legionella die in two hours

Ideal temperature for legionella breeding

legionella survives but not active



Provide DHW in time

Water pump

- Running smoothly



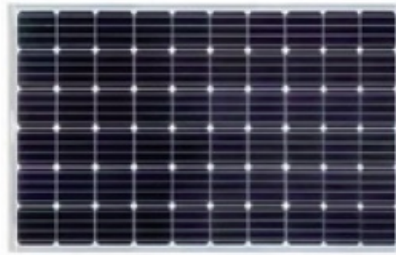
Electrical heater

- Heat DHW quickly
- As a back-up facility for inclement weather



Solar kit heater

- Energy saving



Low level of noise

- Multiple silent modes are optional Silent mode, night silent mode, and super silent mode.
- Optimized right & back side plates design Based on the 3-D simulation, which greatly decrease the vibration and running noise.



3-zone control

- Connect max 3 zones at the same time and achieve different temperature control in different zones.



Zone A



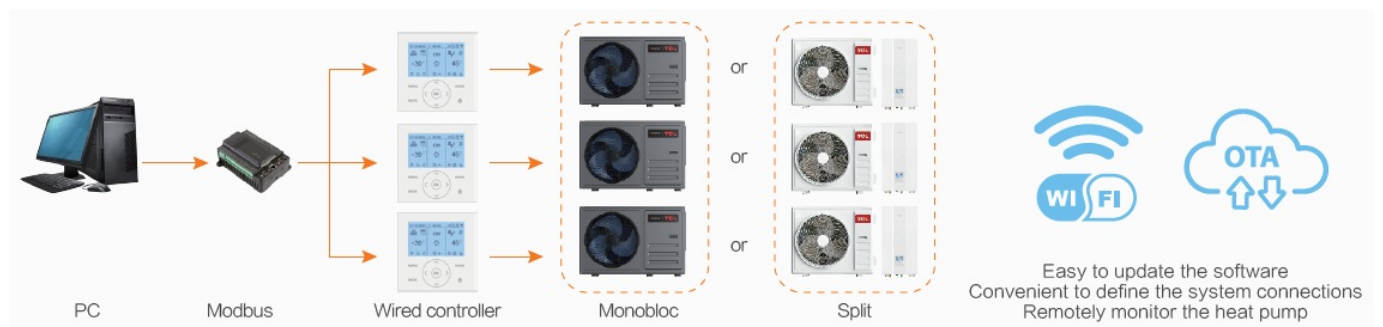
Zone B



Zone C



Intelligent control



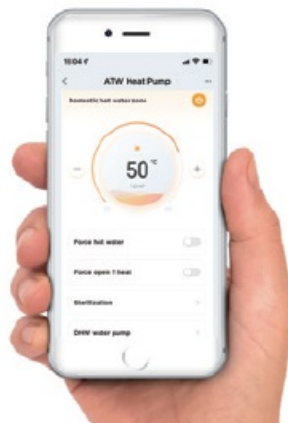
Wired controller

- Liquid crystal, two-way communication, backlight at night
- Access to wifi with internet control
- Multiple languages are available
- Can set the parameters and query for faults
- Daily schedule and weekly schedule accurately control time and operation mode to prevent forgetting



APP controller

- Modes adjustment
- Cascade control
- Power consumption record
- Sanitary hot water priority mode
- Unit status & fault information display
- Temp, Pump flow rate, timer setting etc.



CONTACT

TECHNICAL SUPPORT, GLOBAL SALES COMPANY

- GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO., LTD.
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- Web: hao.tcl.com Email: hvac@tcl.com



TCL CAC



TCL CAC Global



TCL CAC



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Documents / Resources

	TCL THMLd4D-3HBp-A Mono Split Heating and Cooling System [pdf] Owner's Manual THMLd4D-3HBp-A, THMLd6D-3HBp-A, THMLd8D-3HBp-A, THMLd10D-3HBp-A, THMLd12D-3HBp-A, THMLd14D-3HBp-A, THMLd16D-3HBp-A, THMLd12S-6 9 -A, THMLd14S-6 9 -A, THMLd16S-6 9 -A, THMLd4D-3HBp-A Mono Split Heating and Cooling System, THMLd4D-3HBp-A, Mono Split Heating and Cooling System, Heating and Cooling System, Cooling System, System
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References

- [User Manual](#)

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