

Mono product parameters



HeatingCoolingHot waterHigh Efficiency Energy Saving



Intelligent Control Disinfect Mode Low Noise Holiday Mode Timely Water Supply



Outdoor unit model name			THMLd-8D/ HBp-A	THMLd-10D/ HBp-A	THMLd-12D/ HBp-A	THMLd-14D/ HBp-A	THMLd-16D/ HBp-A
Power supply	V/Ph/Hz		220-240/1/50				
Heating A7W35	Capacity	kW	8.5	10	12.2	14.5	16
	Rated inputkW		1.64	2.01	2.45	3.14	3.54
	COP		5.18	4.97	4.98	4.62	4.52
Heating A7W45	Capacity	kW	8.2	10	12.4	14	16
	Rated inputkW		2.1	2.66	3.33	3.87	4.55
	COP		3.90	3.76	3.72	3.62	3.52
Heating A7W55	Capacity	kW	7.5	9.5	12	13.8	16
	Rated inputkW		2.35	3.05	3.92	4.67	5.6
	COP		3.19	3.11	3.06	2.96	2.86
Cooling A35W18	Capacity	kW	8.3	10	12	13.5	14.9
	Rated inputkW		1.63	2.19	3.03	3.73	4.36
	EER		5.08	4.57	3.96	3.62	3.42
Cooling A35W7	Capacity	kW	7.5	8.2	11.5	12.5	14
	Rated inputkW		2.22	2.51	4.16	4.96	5.59
	EER		3.38	3.27	2.76	2.52	2.50
SCOP	Water outlet at 35		A+++				
	Water outlet at 55		A++				
Sound power Level	Heating A7W35dB		59	60	64	65	67
Compressor	Type		Twin rotary				
Outdoor fan	Motor type		DC fan				
	Number of fans		1				
Air side heat exchanger			Finned tube				
Refrigerant			R32 1.53kgR32 1.53kg		R32 1.82kgR32 1.82kgR32 1.82kg		
Unit dimension (W×H×D)		mm	1350×930×526				
Packing dimension (W×H×D)		mm	1435×1100×560				
Net/Gross weight		kg	118/143118/143140/166140/166140/166				
Outdoor air temperature range	Cooling		-5 43				
	Heating		-25 35				
	DHW		-25 43				
Water side heat exchanger			Plate type				
Water side connection			R5/4"				
Water outlet temperature range	Cooling		5 30				
	Heating		12 65				
	DHW tank		10 60				

Abbreviations:

DHW: Domestic hot water

Notes:

1.Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02

2.Seasonal space heating energy efficiency tested in average climate conditions.

3.Sound power test condition EN12102-1

4.MISTRAL has the right to update the specifications without prior notice.

Split product parameters



HeatingCoolingHot waterHigh Efficiency Energy Saving



Intelligent Control Disinfect Mode Low Noise Holiday Mode Timely Water Supply



Model name		THFLd-8D /HBpO-A	THFLd-10D /HBpO-A	THFLd-12D /HBpO-A	THFLd-14D /HBpO-A	THFLd-16D /HBpO-A
Power supplyV/P	h/Hz	220-240/1/50				
Heating ²	CapacitykW	8			9.512.214.516	
	Rated inputkW				1.601.982.463.073.54	
	COP	5.004.804.964.724.52				
Heating ³	CapacitykW	8			9.512.314.216	
	Rated inputkW				2.112.63.233.884.43	
	COP	3.803.653.813.663.61				
Heating ⁴	CapacitykW	7.4	9		1213.516	
	Rated inputkW				2.3833.864.475.51	
	COP	3.11 3		3.113.022.90		
Cooling ⁵	CapacitykW	8			9.512.113.514.9	
	Rated inputkW				1.672.073.023.754.4	
	EER	4.84.60 4.013.603.41				
Cooling ⁶	CapacitykW	7	8		11.612.714	
	Rated inputkW				2.142.534.24.965.7	
	EER	3.27 3.162.762.562.46				
Seasonal space heating energy efficiency class ⁷	LWT at 35	A+++A+++A+++A+++A+++				
	LWT at 55		A++A++A++A++A++			
SCOP ⁷	LWT at 35				4.74.64.824.744.63	
	LWT at 55	3.253.353.463.483.43				
SEER	LWT at 7				4.54.574.94.864.69	
	LWT at	7.287.217.16.96.76				
MOP(Maximum overcurrent protection)	A	19	19	30	30	30
MCA(Minimum circuit amps) A		16	17	25	26	27
Compressor	Type	Twin rotary DC inverter				
Outdoor fan	Motor type	Brushless DC motor				
	Number of fans	1	1	1	1	1
Air side heat exchanger		Type	Finned tube			
Refrigerant (R32)	Factory charge	kg	1.651.651.841.841.84			
	Throttle type		Electronic expansion valve			
Piping connections	Type		FlareFlareFlareFlareFlare			
	Liquid Dia. (OD)	mm	9.52 9.52 9.52 9.52 9.52			
	Gas Dia. (OD)	mm	15.9 15.9 15.9 15.9 15.9			
	Min. pipe length	m	2	2	2	2
	Max. pipe length	m	3030	30	30	30
Installation height	Outdoor unit above	m	2020	20	20	20
Installation height	Outdoor unit below	m	2020	20	20	20
Sound power level ⁸	dB	5960		63	65	68
Sound pressure level ⁹	dB	4549		49	51	54
Net dimension (ns (W×H×D)		mm	910×805×360		1010×850×410	
Packed dimension (ns (W×H×D)		mm	1030×860×475		1160×955×500	
Net/Gross weight		kg	65/7565/7594/10794/10794/107			
Operating temperature range	Cooling		-5 to 43			
	Heating		-25 to 35			
	DHW		-25 to 43			

Model name			SMKLD-10D/H Bp-A	SMKLD-16D/HBp-A
Function			Heating and cooling	
Setting water temperature range	Cooling		5 to 25	
	Heating		25 to 65	
	DHW (tank)		30 to 60	
Power supply		V/Ph/Hz	220-240/1/50	
Sound power level ¹		dB	42	43
Sound pressure level(1m) ²		dB	30	32
Dimension (W×H×D)		mm	420×790×270	
Packing (W×H×D)		mm	525×1050×360	
Net/gross weightkg			37/4339/45	
Water circuit	Piping connections	inch	R1"R1"	
	Safety valve set pressure	Mpa	0.3	0.3
	Drainage pipe connection	mm	25 25	
	Expansion tank	VolumeL	8	8
	Max. water pressure	MPa	0.3	0.3
	Pre-pressureMpa		0.1	0.1
	Water side Type	Type	Plate type	Plate type
Refrigerant circuit	water pump head	m	9	9
	Liquid Dia. (OD)	mm	9.52	9.52
	Gas Dia. (OD)	mm	15.9	15.9

▲ Note s:

1. Test standard: EN12102-1
2. 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 DB, 85% R.H.; EWT 30 ,

4. Outdoor air temperature 35 DB; EWT 23 , LWT 18
5. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.

- 2.Outdoor air temperature 7 DB, 85% R.H.; EWT 30 ,
- LWT 35 .
- 3.Outdoor air temperature 7 DB, 85% R.H.; EWT 40 ,
- LWT 45 .
4. Outdoor air temperature 7 DB, 85% R.H.; EWT 47 ,
- LWT 55 .
- 5.Outdoor air temperature 35 DB; EWT 23 , LWT 18 .
- 6.Outdoor air temperature 35 DB; EWT 12 , LWT 7 .
- 7.Seasonal space heating energy efficiency tested in average climate conditions.
8. Test standard: EN12102- 1
9. Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.



Mistral

R32 Tri-thermal ATW Heat Pump

Heating cooling hot water with complete solutions to the creative life



HeatingCooling Hot water High Efficiency Energy Saving Intelligent Control Disinfect Mode Low Noise



Seasonal space heating energy efficiency
ηs average up to **A+++** at 35°C
ηs average up to **A++** at 55°C



The maximum of leaving water temperature is **65°C**

Versatility

Heating, refrigeration, hot water with complet 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 which can remove the need for traditional gas or oil boilers, or work together with them.

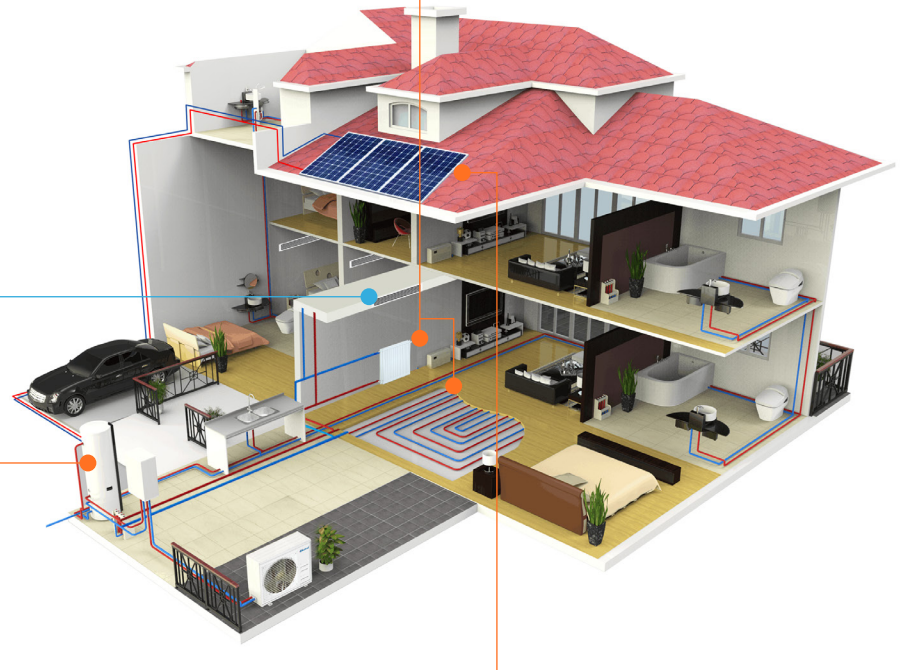
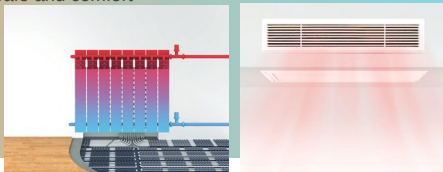
Compact fan coil unit cooling

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



Diversified Heating

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



Domestic hot water

- Provid DHW in time ,heating quickly
- The maximum of leaving water temperature is 65



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 deisgn
- Less lubricating oil required
- Effectively solves the problem of oil return



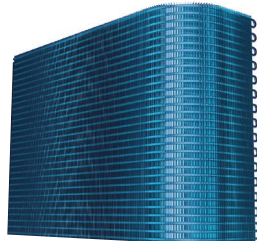
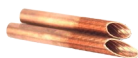
- DC Inverter motor design
- High efficiency,the highest SCOP is 4.82
- Low noise vibration design
- Vibration optimization of twin rotor
- Noise optimization of double-layer mufflers
- High reliability volume design
- Large oil storage space
- Suitable for use in partial load conditions and long-pipe

High efficient L-type heat exchanger

Adopting advanced 3-D dynamic analysis and cross-flow path design, air volume increased 8%, heat exchange 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 between 0~90Hz, 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

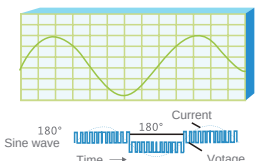
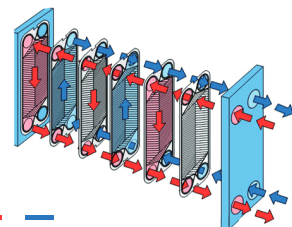


Plate heat exchanger

- 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 maitainance
- 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.



Vapor Cooling water
Schematic diagram of plate heat exchanger circulation

Multiple certifications



Environmental friendly refrigerant

- The GWP of R32 is 675
- CO2 equivalent is decreased 86% compared with R410a
- Save clients engergy and protect the environment



Safe and Comfort

Anti-bacteria mode

- Designed to gurrantee our safe 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



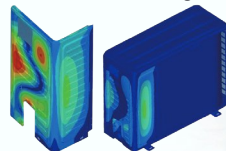
Provide DHW in time

- Heat 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, super silent mode
- Optimized right & back side plates design
- Based on the 3-D simulation, which greatly decrease the vibration and running noise.

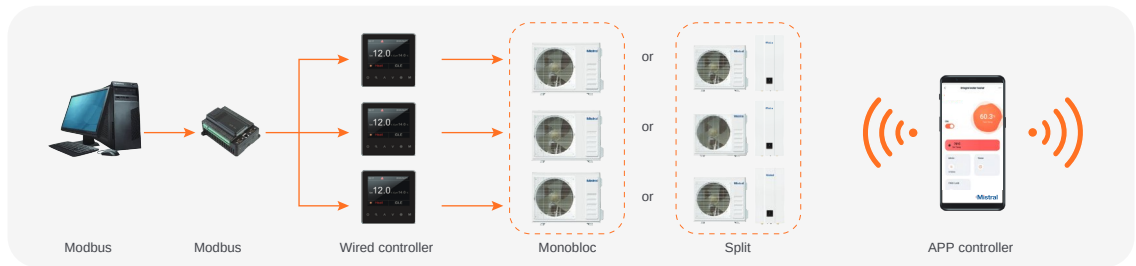


Holiday mode

- The unit runs in DHW or heating mode with low set temp avoid freezing of the unit .

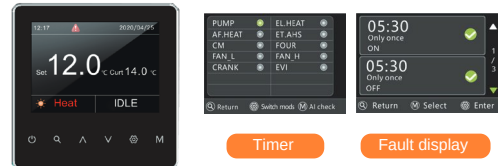


Intelligent control



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
- Single or group control
- Power consumption record
- Sanitary hot water priority mode
- Unit status & fault information display
- Temp, fan speed, timer setting ect.

