

List attendance

Fortune 500

5 year warranty

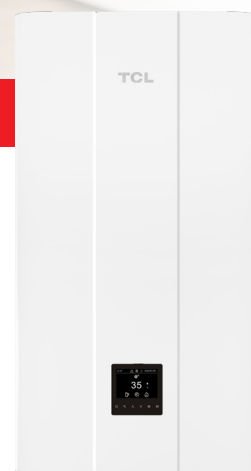
TCL

**23 Years of
experience
in cooling
and heating**

Tri-thermal - TCL heat pumps second generation

Central heating, cooling,
domestic hot water.

**Saving lives with TCL
heat pumps**



**MANUFACTURER
SERVICE AND
TECHNICAL SUPPORT**



**MODBUS
PROTOCOL**



**SMART HOME
INTEGRATION**



**MAXIMUM
POWER
UP TO 256 KW**



**KEYMARK
EUROPEAN
QUALITY
CERTIFICATE**



**SMARTPHONE
APPLICATION**



**GLOBAL
BRAND**



**LOW OPERATING
COSTS**



**ULTRA-HIGH
PERFORMANCE**



**COOPERATION
WITH A
PHOTOVOLTAIC
INSTALLATION**



**ACCESSORIES, HOT WATER
HEATERS, DIAPHRAGM VESSEL,
SAFETY VALVE AND OTHERS**



**MONOBLOC
VERSION
8-256KW**



**SPLIT
VERSION
8-256KW**

INSPIRE THE GREATNES

Versatility

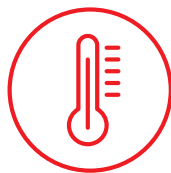
A unit for comprehensive heating and cooling of a building.

TCL brand heat pumps are designed for the comprehensive heating and cooling of residential and industrial buildings. They are a highly efficient alternative to conventional gas and oil furnaces.



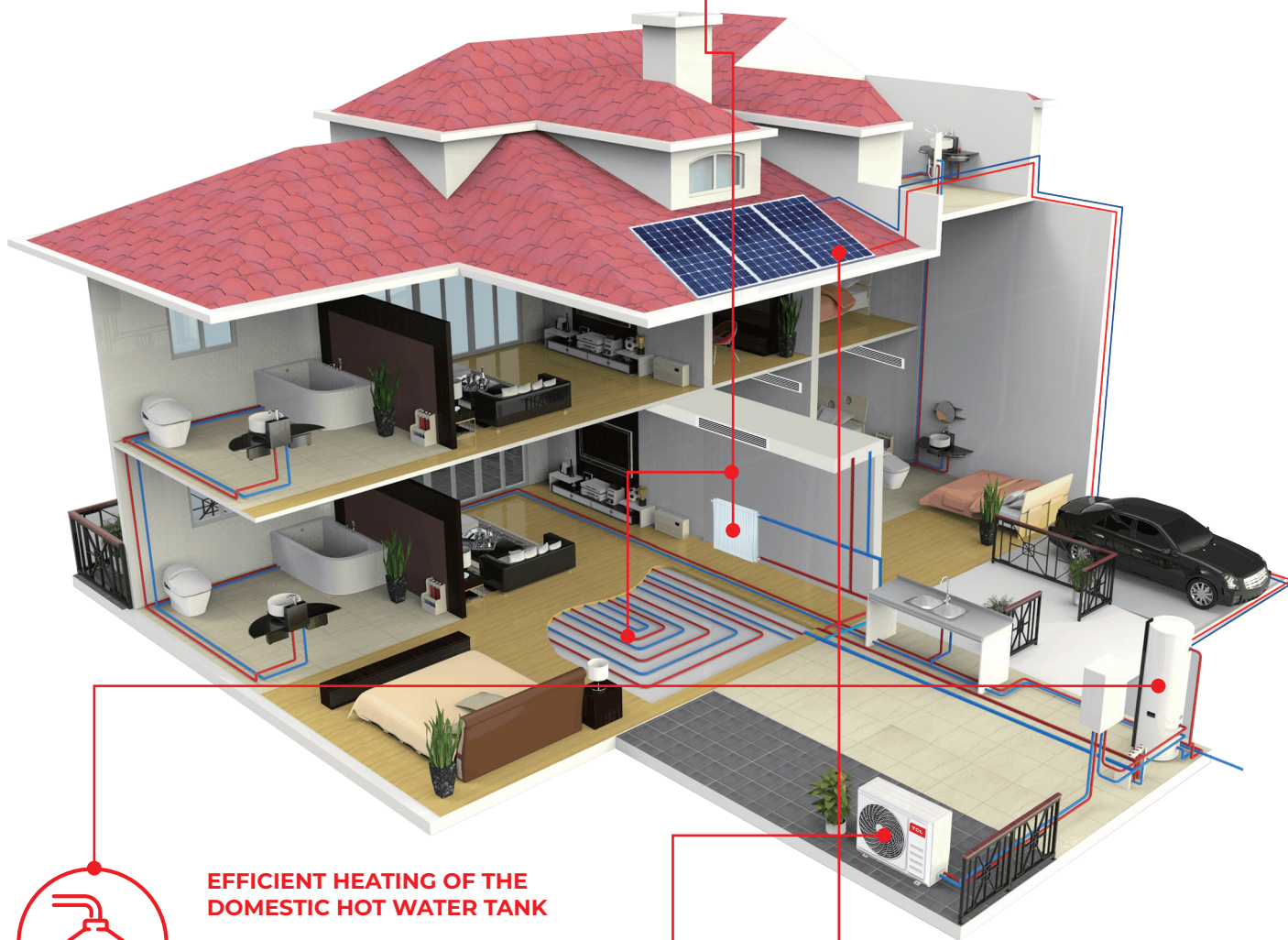
SERVICE

- ▶ Remote diagnostics
- ▶ Manufacturer warranty and postwarranty service
- ▶ Warranty and post-warranty service
- ▶ Network of authorised service partners



COMPREHENSIVE HEATING

- ▶ Three heating circuits
- ▶ Controllable external temperature or zone (room) temperature



EFFICIENT HEATING OF THE DOMESTIC HOT WATER TANK

- ▶ The use of dedicated coil tanks with the largest heat exchange surface - which heats up the hot water in 15 minutes
- ▶ Overheating of the tank to 70 degrees provides protection against legionella
- ▶ Domestic hot water up to 65 degrees



COOPERATION WITH SOLAR AND PHOTOVOLTAIC SYSTEMS

- ▶ Hot water temperature control in conjunction with solar or photovoltaic system



ERGONOMICS AND EQUIPMENT

- ▶ Elegant, robust powder-coated stainless steel housing
- ▶ Extensive equipment as standard

High performance and low power consumption



Rotary compressor from a global manufacturer

- ▶ Lowest vibration levels on the market
- ▶ High resistance to low temperatures
- ▶ High performance in low temperatures
- ▶ Compressor life expectancy of 200,000 cycles



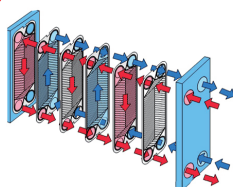
High-performance L-Type heat exchanger

- ▶ Heat exchanger material with increased heat absorption by 6%
- ▶ Profiled tubes to increase heat exchange efficiency by 10%



Variable speed fan

- ▶ Reduced energy consumption by 20%
- ▶ Built-in drive provides higher mechanical efficiency
- ▶ Precise control ensures the right amount of heat



High-performance plate heat exchanger

- ▶ High pressure and extreme heat resistance high temperatures
- ▶ Negligible pressure drop
- ▶ High corrosion resistance
- ▶ High thermal efficiency



Key certifications



ReachV



Environmentally friendly refrigerant

- ▶ R32 refrigerant reduces the CO₂ index by 86% compared to emissions compared to R410A
- ▶ Ecological and environmentally friendly

Safety and comfort



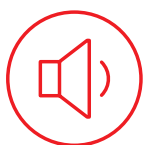
Heat safety

- ▶ Backup heat source in the form of an electric heater



Antimicrobial system

- ▶ A system designed for 100% safety
- ▶ Intelligent tank overheating to eliminate legionella



Quiet operation

- ▶ Three mute modes: Quiet, Night, Super Quiet
- ▶ Optimised front and rear housing design based on 3D analysis, resulting in significantly reduced vibrations and noise



Service

- ▶ Extensive network of authorised service partners and support central manufacturer



Winter holiday mode

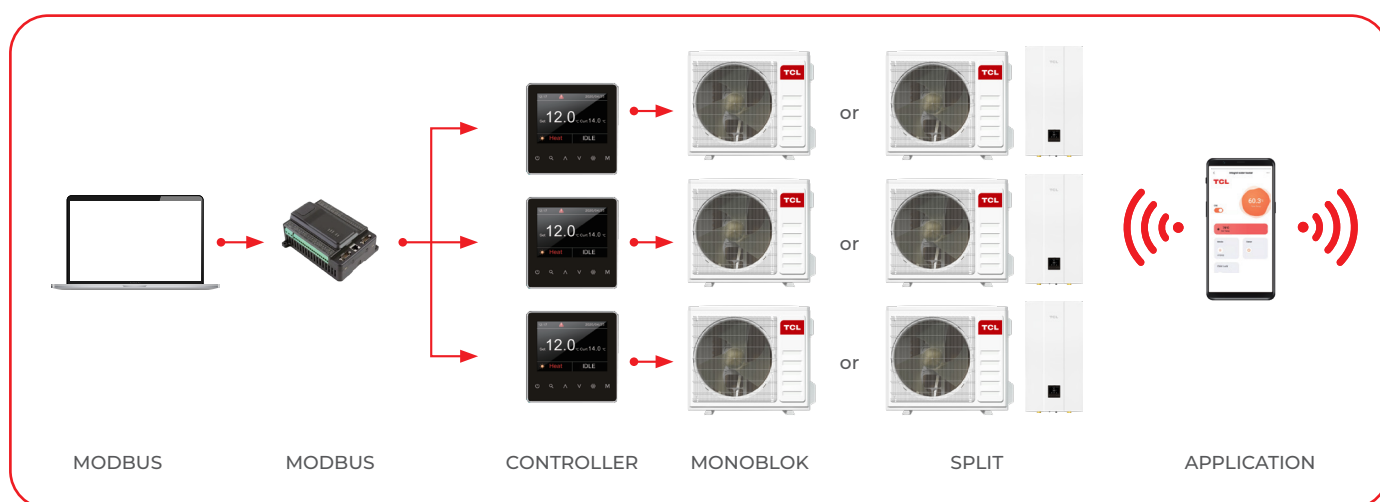
- Function to ensure stable temperature of the outdoor unit by cycling on minimum parameters



Express heating of the domestic hot water tank

- ▶ Variable-speed circulation pump
- ▶ Additional power of 6 or 9 kW in the form of an integrated heater with segments every 2 or 3 kW
- ▶ Combination with photovoltaics and solar panels

Intelligent control

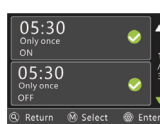


Controller

- ▶ Liquid crystal display with night-time backlighting
- ▶ Communication via Wifi or GPRS
- ▶ Communication in local language
- ▶ Fault history
- ▶ Possibility of setting operating schedules
- ▶ Integration with building management system (BMS)



SCHEDULE

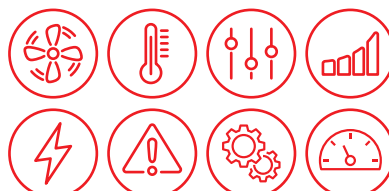


ERROR HISTORY



Application

- ▶ Control of multiple pumps simultaneously
- ▶ Analysis of energy consumption
- ▶ Priority settings
- ▶ Information on operating status
- ▶ Temperature displays, fan speed, scheme settings



Split equipment parameters

Name of external unit		THF -8D/ HBpO-A	THF -10D/ HBpO-A	THF -12D/ HBpO-A	THF -14D/ HBpO-A	THF -16D/ HBpO-A
Power supply parameters	Voltage/Number of phases/ Frequency	230/1/50		400/3/50		
Heating A7W352³	Capacity (kW)	8.0	9.5	12.2	14.5	16
	Rated power (kW)	1.6	1.98	2.46	3.08	3.55
	COP	5.0	4.8	4.96	4.71	4.51
Heating A7W55³	Capacity (kW)	7.2	9.0	12	14	16
	Rated power (kW)	2.35	3.0	3.85	4.67	5.52
	COP	3.06	3.0	3.12	3.00	2.90
Heating A-7W35	Capacity (kW)	7.1	8.08	9.96	12	13.26
	Rated power (kW)	2.27	2.65	2.36	4.27	4.89
	COP	3.13	3.06	2.96	2.81	2.69
Cooling A35W184⁴	Capacity (kW)	8.0	9.5	12.2	13.5	15
	Rated power (kW)	1.66	2.02	3.05	3.75	4.4
	EER	4.82	4.7	4.00	3.60	3.41
Cooling A35W7⁵	Capacity (kW)	7.1	8.0	11.7	12.8	14
	Rated power (kW)	2.2	2.5	4.23	4.99	5.7
	EER	3.23	3.20	2.77	2.57	2.46
Class seasonal energy efficiency for heating⁶	At a temperature of 35°C	A+++				
	At a temperature of 55°C	A++				
SCOP⁷	At a temperature of 35°C	5.22	5.19	4.82	4.74	4.63
	At a temperature of 55°C	3.37	3.49	3.46	3.48	3.43
SEER	At a temperature of 7°C	5.85	5.99	4.9	4.86	4.7
	At a temperature of 18°C	8.96	8.8	7.1	6.9	6.76
Overcurrent protection (A)		25	25	16	16	16
Compressor	Type	Double rotated inverter compressor				
Fan	Type	DC brushless				
	Number of fans	1				
Air-side heat exchanger		Finned copper tube				
Refrigerant		R32 1.65kg	R32 1.65kg	R32 1.84kg	R32 1.84kg	R32 1.84kg
Piping	Type	Flare	Flare	Flare	Flare	Flare
	Diameter of liquid output (mm)	ø 9.52	ø 9.52	ø 9.52	ø 9.52	ø 9.52
	Gas output diameter (mm)	ø 15.9	ø 15.9	ø 15.9	ø 15.9	ø 15.9
	Minimum length of pipe (m)	2	2	2	2	2
	Maximum length of pipe (m)	30	30	30	30	30
Permitted height mounting	Outside unit (m)	20	20	20	20	20
Difference in mounting heights (m)		20	20	20	20	20
Noise indicator⁸ (dB)		45	49	49	51	54
Device dimensions (L x W x H mm)		910×805×360		1040×870×410		
Packaging dimensions (L x W x H mm)		1030×860×475		1190×985×500		
Net/gross weight (kg)		75/85	75/85	98/112	98/112	98/112
Temperature range operation	Heating (°C)	-25 ~ 35				
	Domestic hot water (°C)	-25 ~ 43				
	Cooling (°C)	-5 ~ 43				

Name of indoor unit		SMKLd - 10D/ HBp-A	SMKLd - 16D/ HBp-A
Function		Heating and Cooling	
Range internal tempera- tures	Heating (°C)	25 do 65	
	Domestic hot water (°C)	30 do 60	
	Cooling (°C)	5 do 65	
Power supply parameters		230/1/50	400/3/50
Noise indicator (dB)²		30	32
Dimensions (L x W x H mm)		420×790×270	
Packaging (L x W x H mm)		527×1040×370	
Net/gross weight (kg)		37/43	39/45
Water cycle	Water connec- tion (mm)	ø 25	ø 25
	Valve settings safety valve (MPa)	0.3	0.3
	Drainage pipe diameter outlet pipe diameter (mm)	ø 25	ø 25
	Volume of tank (L)	8	8
	Maximum water pressure (MPa)	0.3	0.3
	Initial pressure (MPa)	0.1	0.1
	Heat exchange	plate heat exchanger	plate heat exchanger
	Height lift of pump (m)	9	9
Gas circulation	Fluid outlet diameter of liquid (mm)	ø 9.52	ø 9.52
	Diameter of gas (mm)	ø 15.9	ø 15.9
Built-in heater Electric (kW)		6	9
Protection Overcurrent (A)		16	16



Notes:

- Standard used: EN12102-1
- Sound pressure level is the maximum value tested under the two conditions defined in in Note 3 and Note 4 for different combinations between outdoor and indoor units.
- Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
- Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C. Dane mogą ulec zmianie

◀ Notes:

- EU standards and regulations: EN14511; EN14825; EN50564; EN12102; (EU) no. 811:2013; (EU) no. 813:2013; OJ 2014/C 207/02:2014.
- Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C.
- Outdoor air temperature 7°C DB, 85% R.H.; EWT 47°C, LWT 55°C.
- Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C.
- Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C.
- Seasonal energy efficiency of space heating heating of rooms tested under average climatic conditions.
- Sound pressure level is the maximum value tested under the two conditions defined in notes 2 and 5. Data subject to change

Parameters of Monoblock devices

Name of external unit		THM-8D/HBp-A	THM-10D/HBp-A	THF-12D/HBp-A	THF-14D/HBp-A	THF-16D/HBp-A
Power supply parameters	Voltage/Number of phases/Frequency	230/1/50		400/3/50		
Heating A7W352	Capacity (kW)	8.5	10	12.3	14.5	16
	Rated power (kW)	1.64	2.01	2.48	3.15	3.53
	COP	5.18	4.98	4.96	4.60	4.53
Heating A7W55	Capacity (kW)	7.5	9.5	12	13.8	16
	Rated power (kW)	2.36	3.06	3.93	4.68	5.61
	COP	3.18	3.10	3.05	2.95	2.85
Heating A-7W35	Capacity (kW)	7.17	8.17	9.96	12	13.27
	Rated power (kW)	2.26	2.63	3.36	4.27	4.89
	COP	3.22	3.1	2.94	2.81	2.71
Cooling A35W184	Capacity (kW)	8.3	10	12	13.5	15
	Rated power (kW)	1.64	2.19	3.04	3.75	4.4
	EER	5.06	4.57	3.95	3.60	3.41
Cooling A35W7	Capacity (kW)	7.5	8.2	11.5	12.4	14
	Rated power (kW)	2.22	2.52	4.18	4.96	5.6
	EER	3.38	3.25	2.75	2.50	2.50
Efficiency class ²	At a temperature of 35°C	A+++				
	At a temperature of 55°C	A++				
Noise indicator	Heating A7W352 (dB)	45	46	50	51	54
Compressor	Type	Double rotary inverter compressor				
Fan	Type	DC brushless				
	Number of fans	1				
Air-side heat exchanger		Ribbed copper tube				
Refrigerant		R32 1.55kg	R32 1.55kg	R32 1.82kg	R32 1.82kg	R32 1.82kg
Device dimensions (L x W x H mm)		1385×950×526				
Packaging dimensions (L x W x H mm)		1465×1130×560				
Net/gross weight (kg)		122/150	122/150	146/172	146/172	146/172
External temperature range	Cooling (°C)	-5 ~ 43				
	Heating (°C)	-25 ~ 35				
	Domestic hot water (°C)	-25 ~ 43				
Water-side heat exchanger		High-performance plate				
Water side connection		ø 25				
Temperature range internal	Heating (°C)	-12 ~ 65				
	Domestic hot water (°C)	-10 ~ 65				
	Cooling (°C)	-5 ~ 30				

Notes:

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

2. Seasonal energy efficiency of space heating tested under average climatic conditions.

Data are subject to change

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sales@dlf.fi
+358503224480