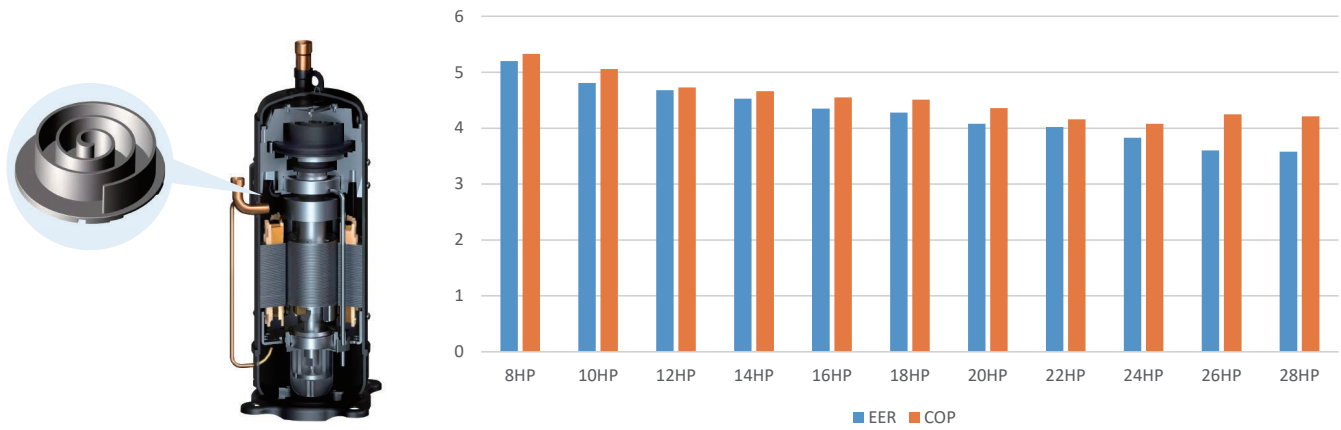


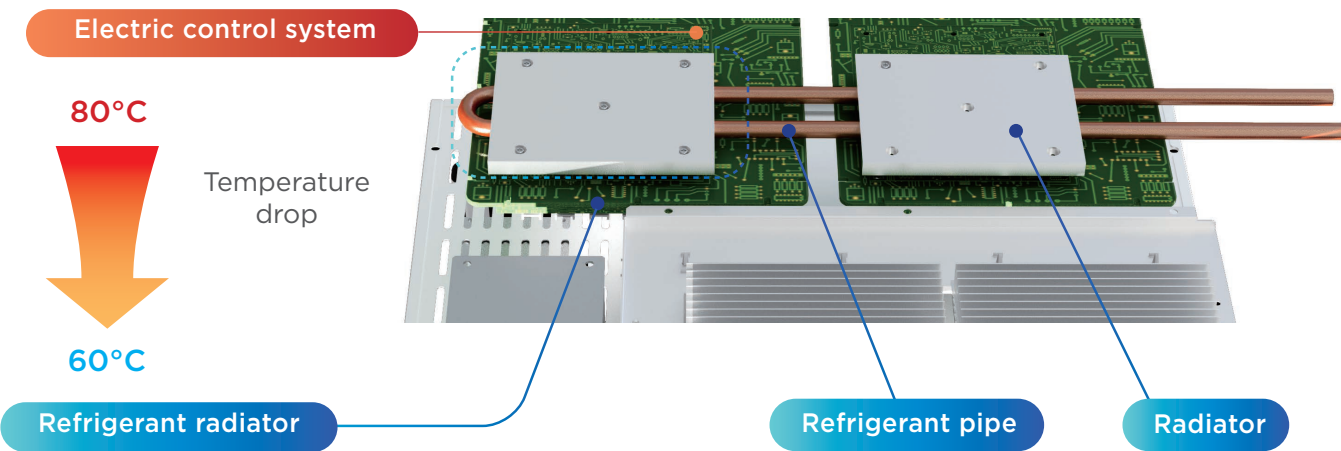
High Efficiency and Energy Saving

Full DC Design



Surrounding Refrigerant Cooling Technology

Electric Control Box Refrigerant Cooling



Using liquid refrigerant cooling control box system is less affected by environmental, when ambient temperature is up to 56°C, the system can still keep stable and reliable.

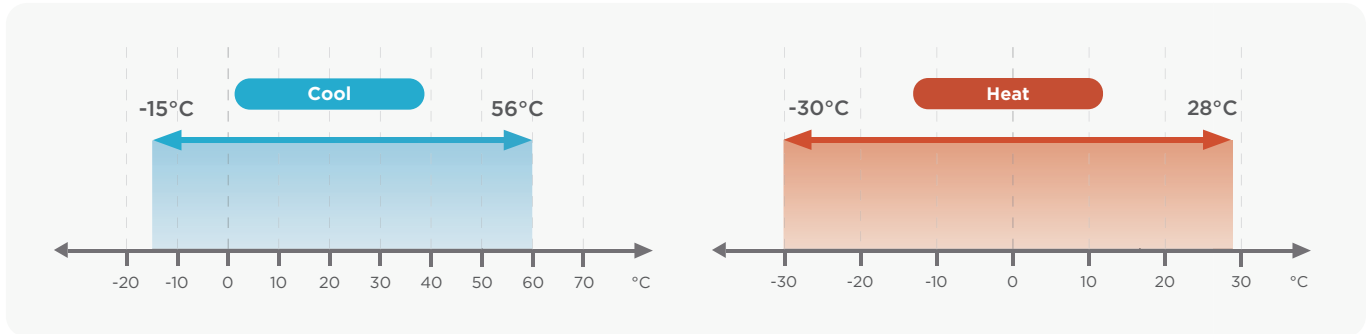
Good structure design between radiator and refrigerant tube, help to reduce the heat resistance very well, to ensure better cooling for PCB.

R410A High-efficiency Environmentally Friendly Refrigerant



Wide Operation Temperature Range

Wide operation range, cooling: -15°C-56°C heating: -30°C-28°C.



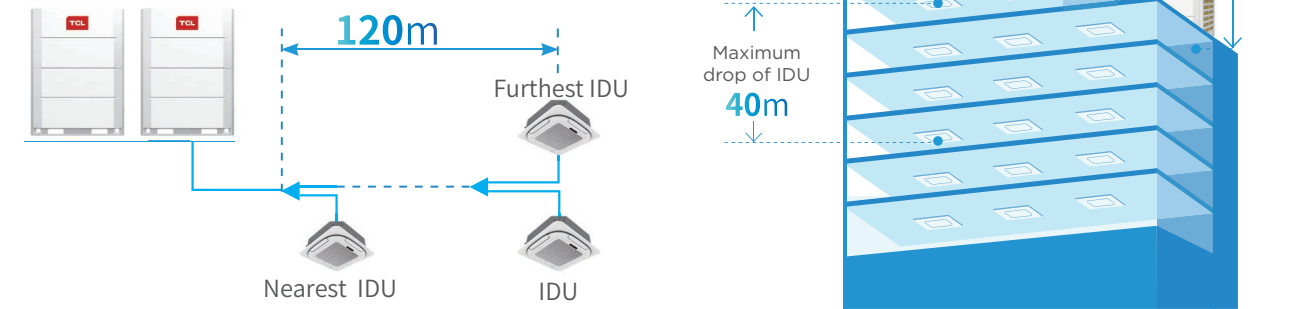
Wide Voltage Range Operation



Easy installation

1100m Super Long Piping Design

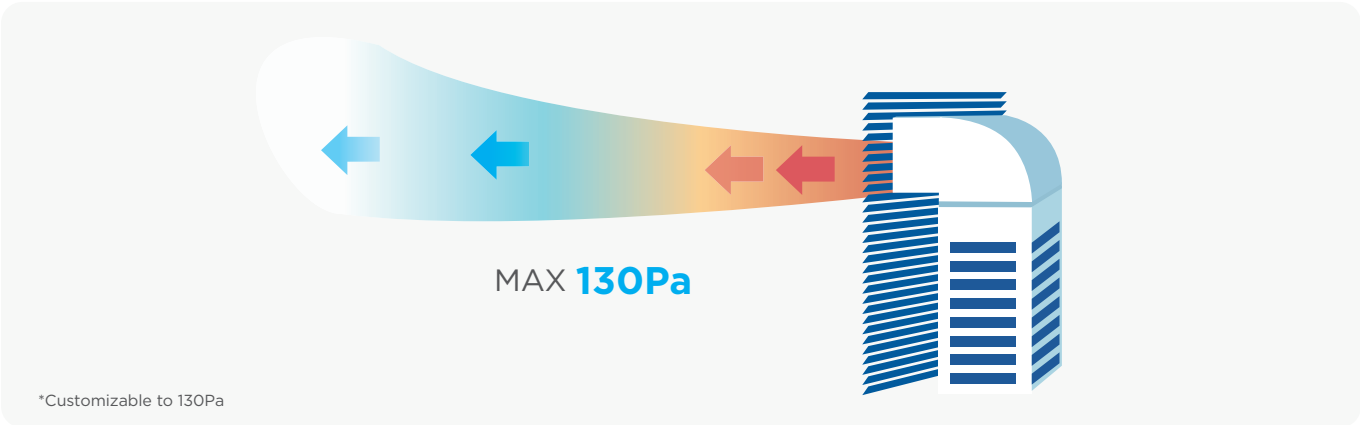
- The industry-leading piping length, with a total length of 1100m, makes floor design more flexible.
- The max distance between the IDU and the ODU (the higher ODU) is 100m. The max distance between the IDU and the ODU (the lower ODU) is 110m.
- The maximum distance between indoor units is 40m.
- The maximum actual single pipe length is 220m.
- The maximum equivalent single tube length is 240m.
- The equivalent length from first indoor distributor to last indoor unit 120m.



130Pa External Static Pressure

Through the combined action of new fan blades and high-volume fans, the system achieves higher external static pressures of up to 130 Pa* to ensure heat dissipation in layered or centralized placement of outdoor units.

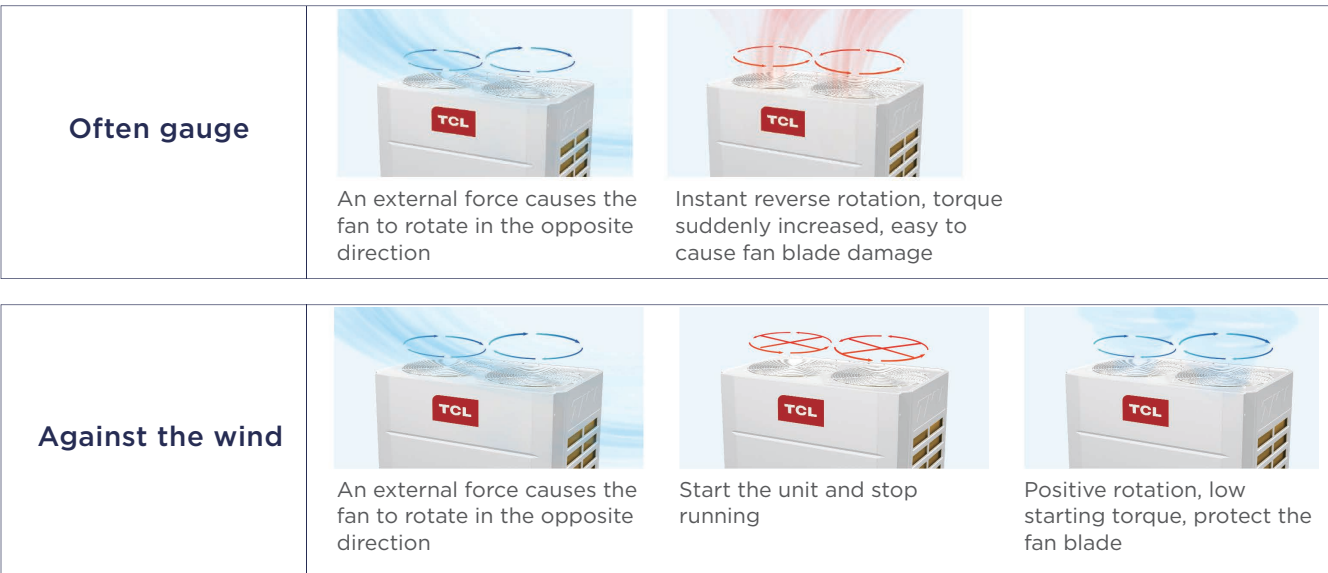
Better heat dissipation, better refrigeration effect



Easy Maintenance

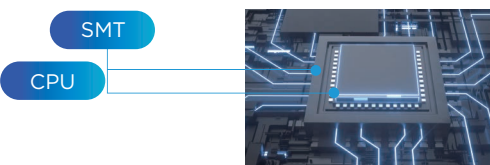
Anti-adversity Function

The external force blows the outdoor unit fan to rotate in reverse. At this time, start and stop the rotation of the fan, and then restart the fan motor in a forward rotation according to the normal procedure, so as not to damage the fan motors due to excessive starting current.



Electronic Control Board SMT Placement Technology

The external force blows the outdoor unit fan to rotate in reverse. At this time, start and stop the rotation of the fan, and then restart the fan motor in a forward rotation according to the normal procedure, so as not to damage the fan motors due to excessive starting current.



Outstanding Reliability

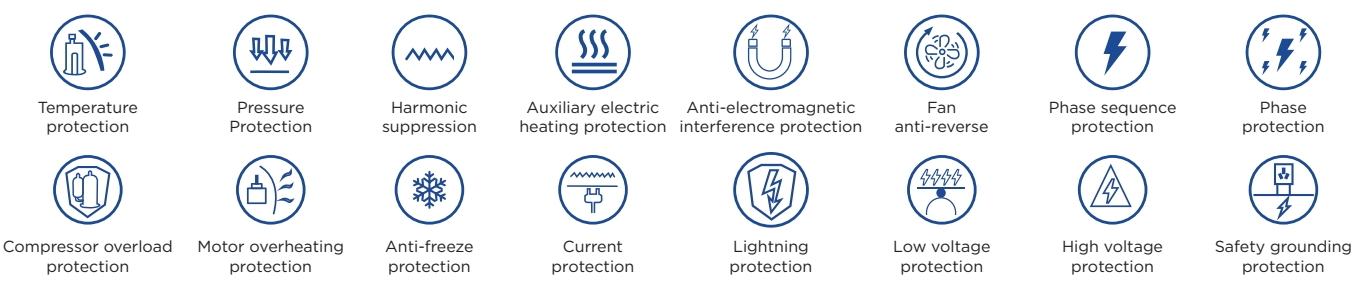
Triple Backup System Technology

- Compressor backup operation
- Emergency operation of fan motor
- ODU backup operation



Multiple Protection Functions

- Low voltage recognition function
- Lightning protection
- Compressor overload protection
- Motor overheating protection



Intelligent Control Solution

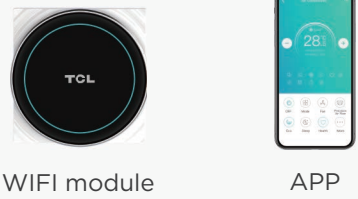
IDU Wireless Controller



IDU Wired Controller



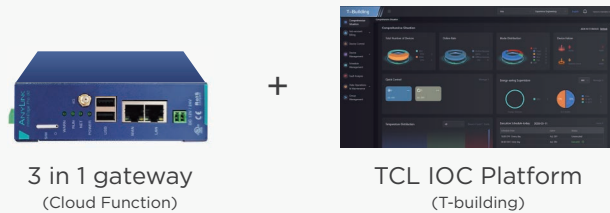
WIFI APP Control



System Centralized Controller



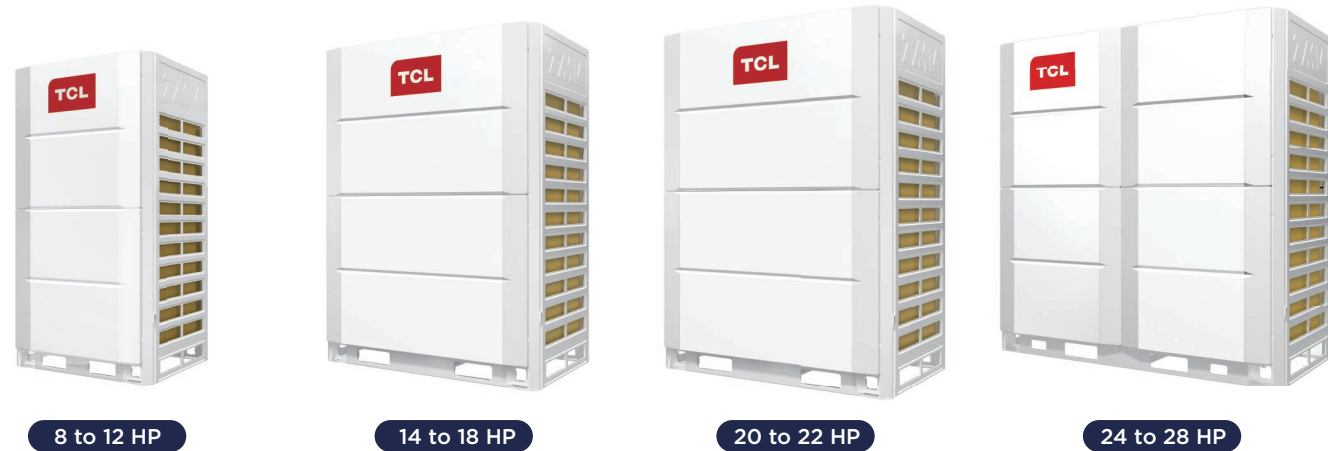
System Cloud Control and Management



System BMS Control



ODU Lineup (8-28HP)



HP			8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP ¹	26HP ²	28HP ²	
Model:TMV-VD+***W/AZ-(L)			252	280	335	400	450	504	560	615	680	730	785	
Power Supply		V-,Hz,Ph	220V/60Hz/3Ph											
Cooling	Capacity	kW	25.2	28	33.5	40	45	50.4	56	61.5	68	73	78.5	
	Input	kW	4.85	5.83	7.17	8.84	10.35	11.77	13.72	15.30	17.74	20.28	22.45	
	Current	A	13.84	16.62	20.44	24.99	29.27	33.28	38.52	42.95	49.8	56.4	62.44	
	EER	W/W	5.2	4.81	4.68	4.53	4.35	4.28	4.08	4.02	3.83	3.6	3.5	
Heating	Capacity	kW	27	31.5	37.5	45	50	56	63	69	75	81.5	87.5	
	Input	kW	5.07	6.23	7.93	9.66	10.99	12.43	14.45	16.57	18.39	19.81	21.5	
	Current	A	14.46	17.78	22.62	27.44	31.22	35.31	48.85	46.85	51.99	55.09	59.79	
	COP	W/W	5.33	5.06	4.73	4.66	4.55	4.51	4.36	4.16	4.08	4.25	4.07	
Compressor	Quantity	/	1	1	1	1	1	1	2	2	2	2	2	
	Type	/	DC Inverter Scroll Compressor											
Fan Motor	Quantity	/	1	1	1	1	1	1	2	2	2	2	2	
	Type	/	DC											
Air Flow Volume		m³/h	11000	11000	11500	13500	14000	15500	19000	19000	22000	26000	26000	
Sound Pressure Level		dB(A)	58	58	60	60	61	62	63	63	64	64	64	
Dimension (W×D×H)	Net	mm	925 x 1780 x 845				1340 x 1780 x 845					1760 x 1780 x 845		
	Packing	mm	1000 x 1940 x 920				1420 x 1940 x 920					1840 x 1940 x 920		
Weight	Net	kg	215	215	215	270	270	280	315	315	380	380	380	
	Gross	kg	225	225	225	290	290	300	335	335	405	405	405	
Refrigerant type/ Quantity	Type	/	R410A											
	Charged Volume	kg	7	7	7	9	9	11	14	14	18	18	18	
Design Pressure		MPa	4.3/1.5											
Refrigerant Piping	Liquid Side	mm	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7	φ15.88	φ15.88	φ15.88	φ19.05	φ19.05	φ19.05	
	Gas Side	mm	φ19.1	φ22.2	φ25.4	φ25.4	φ28.6	φ28.6	φ28.6	φ28.6	φ31.8	φ31.8	φ31.8	
	Max. Length	m	1100											
	Max. Height	m	110(100)											
Ambient Temp (Cooling/Heating)		°C	-15-56/-30-28											

1. Specifications are based on the following conditions:
2. Cooling: Indoor temperature 27°C DB/19°C WB, and outdoor temperature 35°C DB/24°C WB.
3. Heating: Indoor temperature 20°C DB/15°C WB, and outdoor temperature 7°C DB/6°C WB.
4. Due to ongoing product development, specifications are subject to change without notice.
*Note:24HP,26HP,28HP are under developing.

IDU Lineup

Series	Type	Fan motor	Model	Capacity range(x100w)																																
				18	22	25	28	32	36	40	45	50	56	63	71	80	90	100	112	125	140	160	220	240	280	335	450	560								
 360° Q8 cassette	Cooling & Heating	DC	TMV-V(**) Q8/NIDY (E)				●		●		●	●	●	●	●	●	●	●	●	●	●															
 compact cassette	Cooling & Heating	DC	TMV-V(**) Q4R/NIDY (E)	●	●	●	●	●	●	●	●	●	●																							
 Low ESP Slim Duct	Cooling & Heating	DC	TMV-V(**) F5/NIDY(E)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●															
 Free ESP Duct	Cooling & Heating	DC	TMV-V(**) F2/NIDY(E)								●	●	●	●	●	●	●	●	●	●	●															
 Wall-mounted (External EXV)	Cooling & Heating	DC	TMV-V(**) G/NIDY-B(E)	●		●		●		●	●	●	●		●	●	●	●																		
 Wall-mounted (Built-in EXV)	Cooling & Heating	AC	TMV-V(**) G/NIY-B(E)	●		●		●		●	●	●	●	●	●																					



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V26.04.09



Full-DC inverter Central air conditioning system

