

● 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	224	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)		●		●		●		●	●	●		●	●													
 High static pressure duct	Cooling & Heating	AC	TMV-V(**) F1/NIY(E)																		●		●		●	●			
 Fresh air duct	Cooling & Heating	AC	TMV-V(**) F1/ XFNIY(E)																	●				●		●	●		
 Ceilinging & Floor	Cooling & Heating	AC	TMV-V(**) ZD/NIY(E)								●	●	●	●	●	●	●	●	●	●									
 One-way cassette (Developing)	Cooling & Heating	DC	TMV-V(**) Q1/NIDY(E)	●		●		●		●	●	●	●	●															
 Two-way cassette	Cooling & Heating	AC	TMV-V(**) Q2/NIY€	●		●		●		●	●	●	●	●															

● Mini VRF Parameters



Model			TMV-Vd80W/ N1-D(EU)	TMV-Vd100W/ N1-D(EU)	TMV-Vd120W/ N1-D(EU)	TMV-Vd140W/ N1-D(EU)	TMV-Vd160W/ N1-D(EU)
Capacity	Cooling	kW	8.0	9.0	12.1	14.0	15.5
	Heating	kW	8.0	9.0	12.1	14.0	16.0
SEER		W/W	5.4	5.4	7	6.9	6.8
ηs,c		%	/	/	277	273	269
SCOP		W/W	3.8	3.8	4.3	4.2	4.2
ηs,h		%	/	/	169	165	165
Power supply		-	220-240V~/50Hz				
Net dimension (W x D x H)		mm	910 x 359 x 803	910 x 359 x 803	1010 x 410 x 850	1010 x 410 x 850	1010 x 410 x 850
Net weight		kg	52	52	75	75	78
Cooling operating range	Outdoor side	°C	-15-55	-15-55	-15-55	-15-55	-15-55
Heating operating range	Outdoor side	°C	-20-24	-20-24	-20-24	-20-24	-20-24

Model			TMV-Vd180W/ N1S-C(EU)	TMV-Vd224W/ N1S-C(EU)	TMV-Vd252W/ N1S-C(EU)	TMV-Vd280W/ N1S-C(EU)
Capacity	Cooling	kW	18.0	22.4	25.2	28.0
	Heating	kW	18.0	22.4	25.2	28.0
SEER		W/W	7	6.8	6.6	6.4
ηs,c		%	277	269	261	253
SCOP		W/W	4.4	4.2	4.3	4.3
ηs,h		%	173	165	169	169
Power supply		-	220-240V~/50Hz			
Net dimension (W x D x H)		mm	1120x400x1560	1120x400x1560	1120x400x1560	1120x400x1560
Net weight		kg	130	130	140	140
Cooling operating range	Outdoor side	°C	-15-55	-15-55	-15-55	-15-55
Heating operating range	Outdoor side	°C	-20-24	-20-24	-20-24	-20-24

Notes: 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. Equivalent piping length: 5m; Level difference: 0m; Voltage: 230V.
5. Sound Level: Indoor unit sound pressure level, measured at a point 1.5m downward from the unit center.
6. Outdoor unit sound pressure level, measured at a point 1.0m in front of the unit.
7. Optional simple wired controller; Universal remote controller; auto-restart (optional); Timer; only one circle.
8. Due to ongoing product development, specifications are subject to change without notice.

● ODU Parameters(8-32HP)



Loading Capacity		8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
TMV-VED+(**)/W/AS-D(E)		252	280	335	400	450	504	560	615	680	730	785	850	900
Capacity	Cooling	kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.0	78.5	85.0
	Heating	kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.0	78.5	85.0
SEER		W/W	7.35	7.26	7.05	6.75	6.25	6.61	6.41	6.20	6.50	5.50	6.26	5.97
ηs,c		%	291.00	287.40	279.00	267.00	247.00	261.40	253.40	245.00	257.00	217.00	247.40	235.80
SCOP		W/W	4.50	4.45	4.40	4.42	4.39	4.40	4.35	4.30	4.50	4.16	4.28	4.20
ηs,h		%	177.00	175.00	173.00	173.80	172.60	173.00	171.00	169.00	177.00	163.40	168.20	165.00
Power supply		380-415V 3N - 50Hz												
Net dimensions (W x D x H)		mm	925 x 845 x 1780			1340 x 845 x 1780				1760 x 845 x 1780		1900 x 845 x 1780		
Net weight		kg	215	215	215	270	270	315	315	320	380	380	455	455
Cooling operating range	Outdoor side	°C	-15 - 56											
Heating operating range	Outdoor side	°C	-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.



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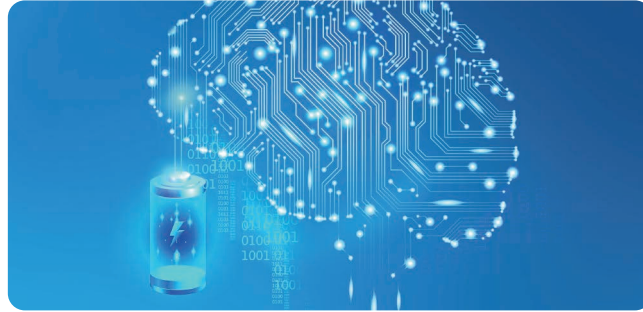
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● Intelligent Auto-restart Function

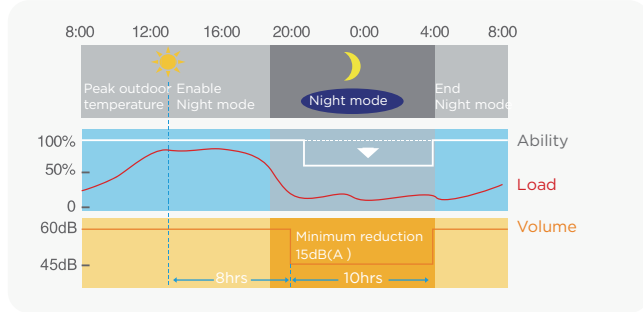
In the event of a sudden power outage, the system automatically saves the unit's status prior to the shutdown. Once power is restored, it resumes operation to the pre-shutdown state (including operating mode, set temperature, fan speed, etc.) without requiring manual reconfiguration, delivering smarter service.

*Note: This function can also start manually

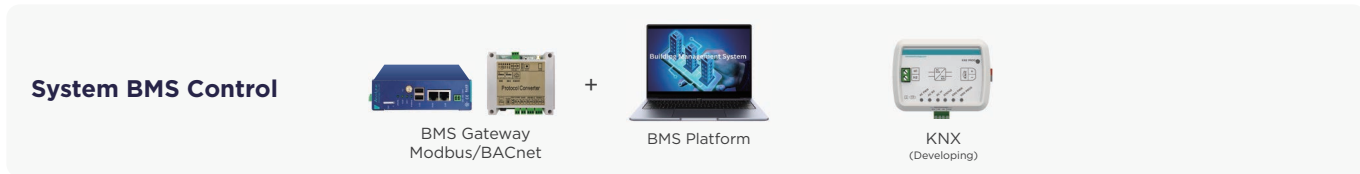
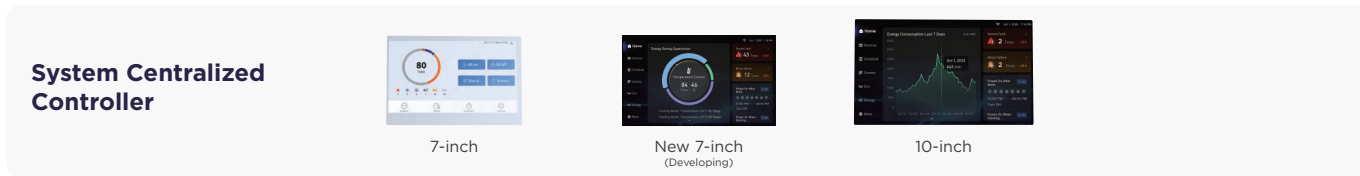
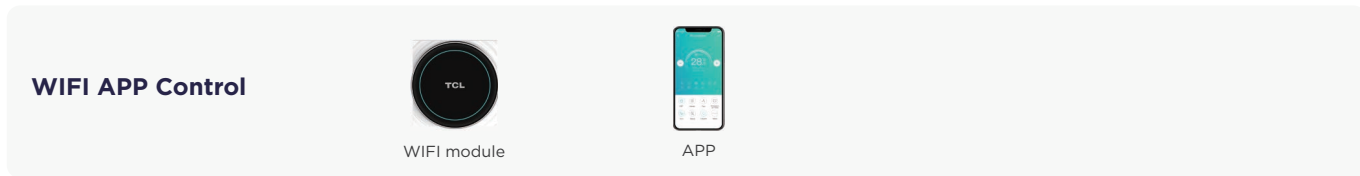


● Night Silent Mode

The outdoor unit can automatically detect and record periods of peak ambient temperature. Once triggered, it initiates a silent mode after an 8-hour delay. This mode operates for 10 hours, maintaining a noise level as low as 45 dB(A) before the system reverts to normal.

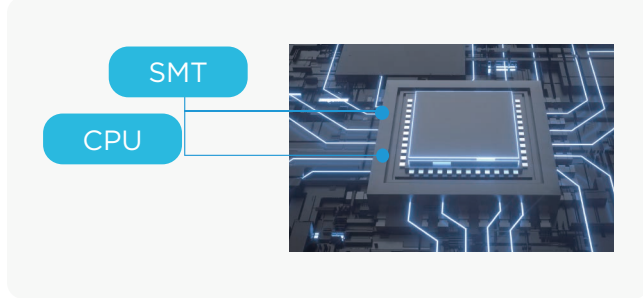


● Intelligent Control Solution



● Electronic Control Board SMT Placement Technology

The electronic control main board adopts SMT patch sealing technology to improve the anti-clutter interference, to ensure that the main board is not affected by wind, sand, high temperature and high humidity, and to make the main control board longer.



● Low Voltage Recognition Function

Automatically recognize the working voltage, when the voltage is too low, give an early warning in time, and control the power consumption and capacity output of the multi-line system through the corresponding limit frequency.

Lightning protection

The outdoor unit has a built-in anti-seismic module, which has anti-seismic and anti-interference functions to ensure the safe and stable operation of the system in bad weather.



Compressor overload protection

When the compressor casing or motor temperature is too high, the circuit will automatically cut off to prevent the compressor from overloading and cause electrical damage, fire, etc.



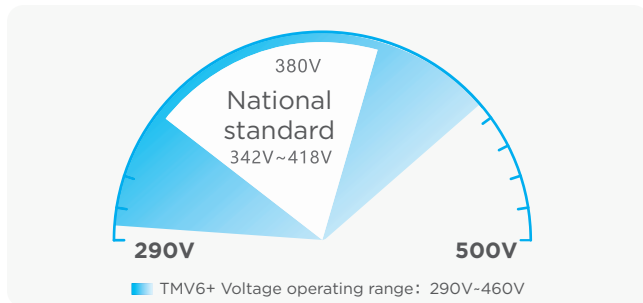
Motor overheating protection

When the current exceeds the set value, the temperature will rise, and the motor will be cut off in time during overcurrent operation to protect the motor from burning due to overload.



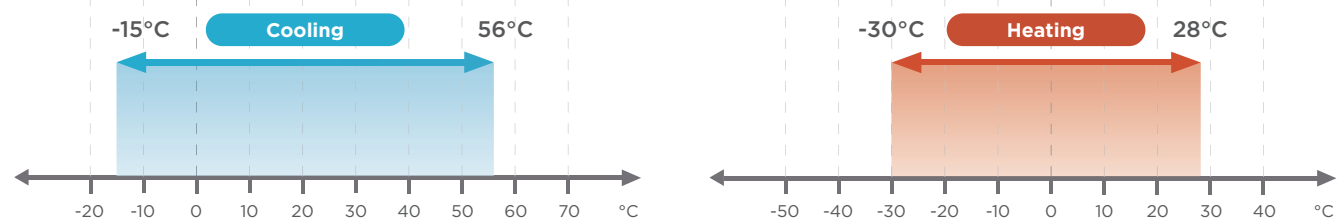
● Wide Voltage Range

The unit can operate in the range of voltage 290V - 460V (International standard voltage 380V±10%), satisfy all kinds of voltage conditions.



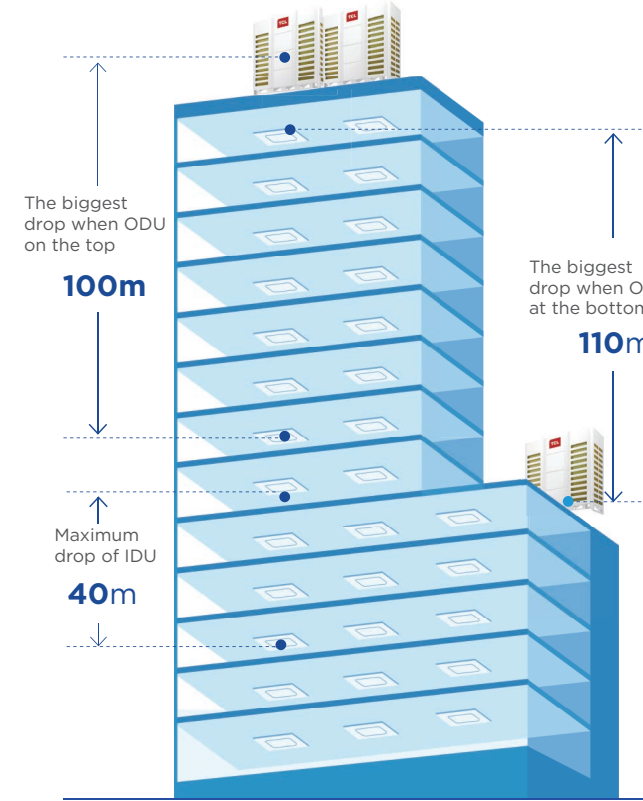
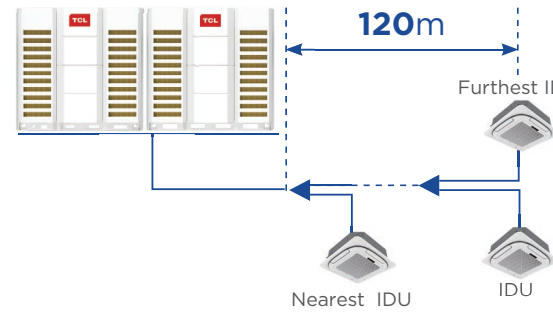
● Wide Operation Temperature Range -30°C ~ 56°C

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



● 1100m Super Long Piping Design

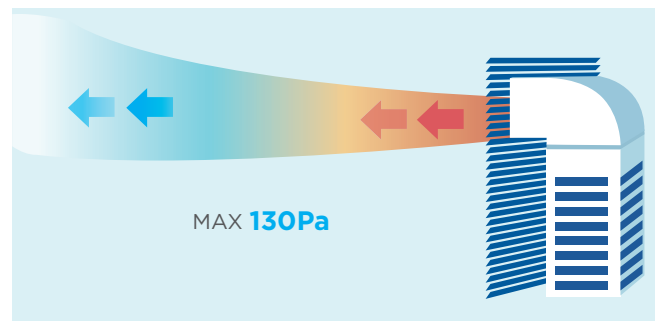
- The industry-leading piping length, with a total length of 1100m, makes floor design more flexible.
- The max distance between the IDU and the ODU (the higher ODU) is 100m. The max distance between the IDU and the ODU (the lower ODU) is 110m.
- The maximum distance between indoor units is 40m.
- The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



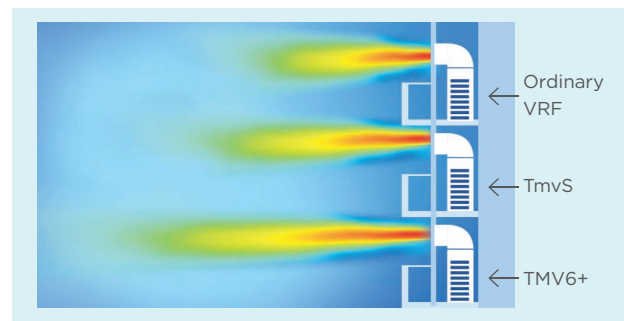
● 130Pa External Static Pressure

The system achieves a higher external static pressure, up to 130Pa* blades through the joint action of new fan blades and fans with larger air volume. Inverter fan motor. 85Pa) to ensure the layered or concentrated heat dissipation effect of the outdoor unit.

Better heat dissipation, better refrigeration effect



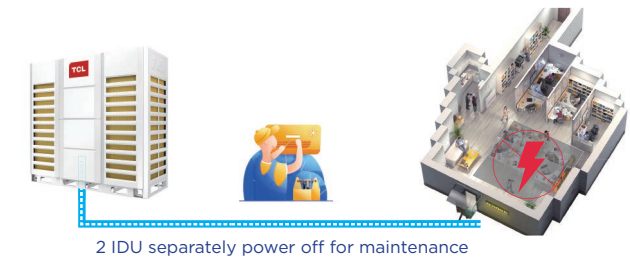
VRF static pressure contrast diagram



* Note: 130Pa static pressure needs to be customized

● Emergency Power-off Function for IDU Maintenance

If an indoor unit needs to be powered off for maintenance due to failure, in order not to affect the operation of the entire system, the indoor unit can be powered off separately for maintenance, and other indoor units in the system can operate normally.



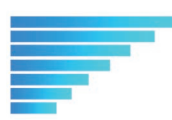
● 360° Compact Cassette



Recommended places
Office, restaurant, supermarket, shopping mall, lobby, etc

Technical Characteristics

7-level Fan Speed Volume
Thin fuselage, the installation space required is small, the unit can be easily installed in a fairly narrow ceiling.

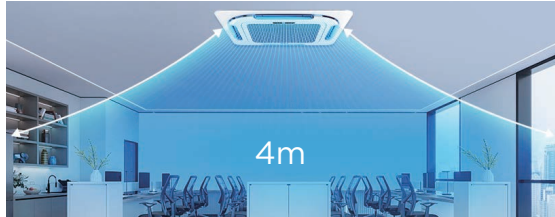


Comfortable soft wind panel (optional)
The upgraded panels have a beautiful appearance and provide comfortable air supply.



Standard condensate pump, easy to install
Equipped with advanced high-lift condensate drainage pump, the maximum head up to 1200mm, easy to install drainpipes.

50Pa Static Pressure Adjustment
Build-in 4 gear static pressure, 0-50Pa can be adjusted, to achieve the 4m long air outlet distance.



● DC Series Slim Duct

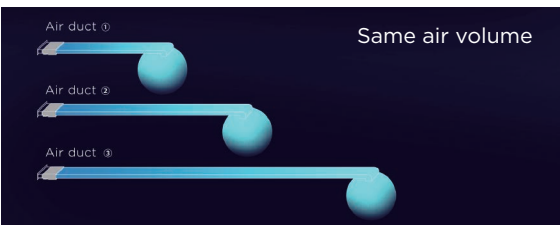


Recommended places
Office, conference room, hotel room, restaurant, living room, etc

Technical Characteristics

Constant air volume
Fan motor automatically adjusts speed according to real-time wind resistance. To provide stable air volume to rooms.

High ESP
ESP up to 80Pa supports longer air duct and fits with more installation scenario.



● Authoritative Attestation

The TMV6+ series full inverter VRF units, through the compressor core frequency conversion technology upgrade, the overall optimization of the refrigeration system and the control system, makes the unit energy-saving performance even better, and has passed the Eurovent and CE standard certification.

