



The Energy Saving Air Conditioning System

- Digital Scroll

TDV Pro - Innovation Beyond Comfort

Energy Saving

Compact Size

Wide Combination

Simplifies Installation

Ultimate Reliability

Bigger airflow volume and lower noise

Adopt double turbo fans, which make bigger airflow volume with lower noise.

High efficiency fan motor

Adopt dual speed fan motor, operate in varies fan speed to suit the changes of the outdoor ambient temperature.

New type high efficient heat-exchanger

Adopt 3 rows inner groove copper heat-exchanger, which creates high heat transfer efficiency and powerful heating capacity especially in low ambient temperature.

Creative design and precisely refrigerant control

Double electrical expansion valve, which achieves up to 960 steps refrigerant adjusting precision to get the best refrigerant distribution effect.

Patent design and running reliable

Oil balance: ensure sufficient refrigerant lubricant supply.
Gas balance: balancing the refrigerant suction volume among different compressors.

Reserving special-designed transportation position for forklift

Making easy installation for the sling movement

Smaller pressure loss and lower noise

The grille of fan air inlet and fan air outlet have airflow direction adjusting function, which leads to lower pressure loss.

Elegant appearance and longevity of usage

Achieving advanced technical process, which gets elegant appearance with longevity of usage.

Digital modular electric control

All the outdoor units adopt standardization design, any outdoor units can be the main units.

Powerful refrigerant system configuration

Adopt Digital Scroll Compressor with wide running arrange, multi compressors can be parallel connected, the corresponding capacity range can achieve 2.5% - 100% [when 4 models assembled to 64 HP].



TDV Pro - Air Conditioning Selection



Modular Outdoor Combination 8 to 64 HP

Up to 64 Indoor Units in One System

TDV Pro System



**Up to 64
Indoor Units in
One System**

**Individual
Capacity with
Minimum
Level of
8,000 BTU/Hr**



Flexible System Planning and Design

Four-way Cassette (Compact)



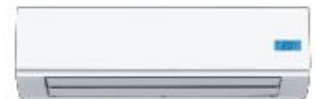
Four-way Cassette



Ceiling & Floor



Wall-mounted



Ceiling Ducted



**High Static Pressure
Ceiling Ducted**



TDV Pro - Installation

● Residential Application



● Commercial Application



Intelligent Built-in Management System

Intelligent management is an integrated building management system (BMS) that uses our independent, high-speed multi-transmission method. It has a centralized controller function that can perform high-speed centralized control of our commercial A/C for buildings.



TDV System Has Various Control Solutions

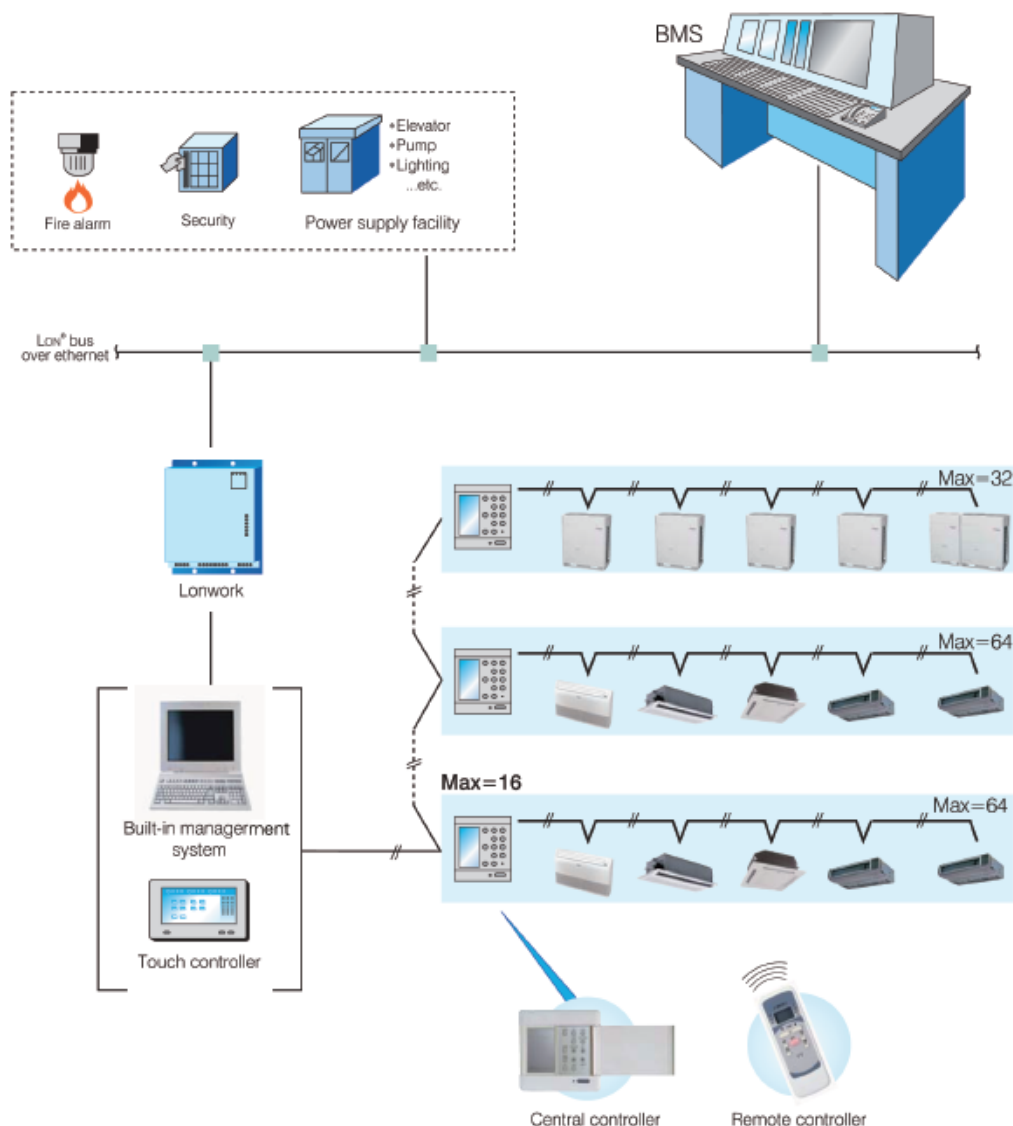
Individual control, Group control, Network, ect.

1 computer can control max 16 indoor central controllers and max 16 outdoor central controllers.

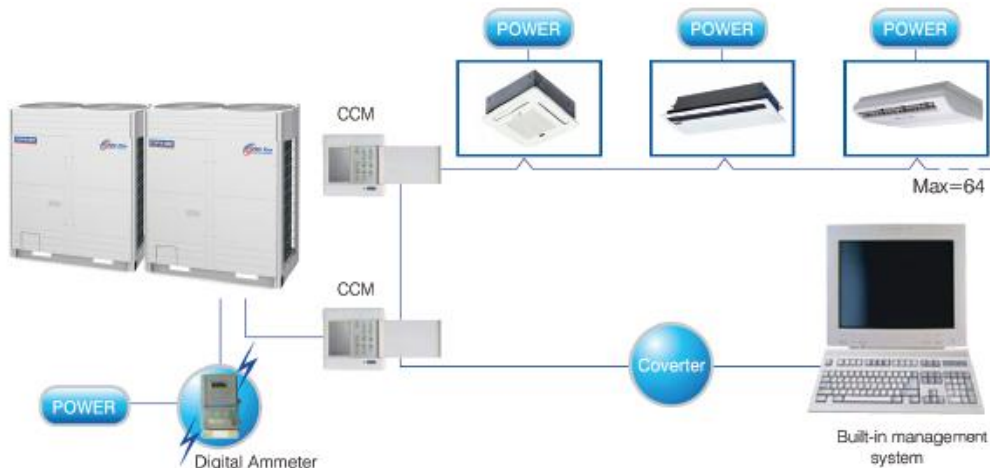
1 indoor central controller can control max 64 indoor units,

1 outdoor central controller can control max 32 outdoor units.

1 computer can control max 1024 indoor units and max 512 outdoor units.

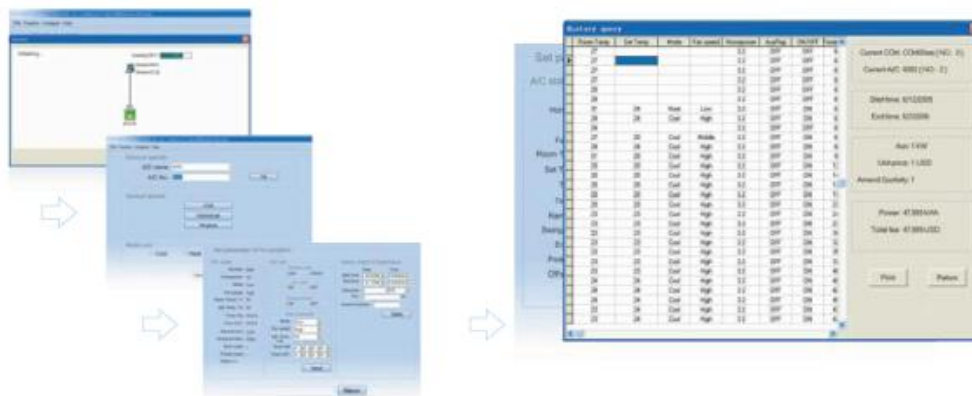


Power Consumption Calculating System



Calculating Report Output

Easy to know the charge of the A/C.



Group Setting, Simple and Efficient.

One group consists of on-line A/Cs in different Central controllers, maximum 1024 units.

One system can be set by 16 groups to manage a huge A/C system. The group setting can control each on-line unit, unionize them to be On/Off or change the parameters. It's so convenient and easy.



Schedule Management

With the advanced Schedule setting mode, the PC can easily manage the daily work of A/C. The system can set the weekly plan of A/C and operate automatically in cycle.



Brief Introduction

- The TDV-Pro Modulation System is a perfect application of Digital Scroll Technology. It simplifies the A/C system, energy saving, and guarantees a stable performance.



What Is Digital Scroll System

Digital Scroll A/C System is a multi system with Digital Scroll Compressor. Digital Scroll Compressors refrigerant output is adjusted and controlled by the variable volume mode. This technology is the most advanced in the industry.



Basic modules

5 basic modules, 8HP, 10HP, 12HP, 14HP, 16HP.



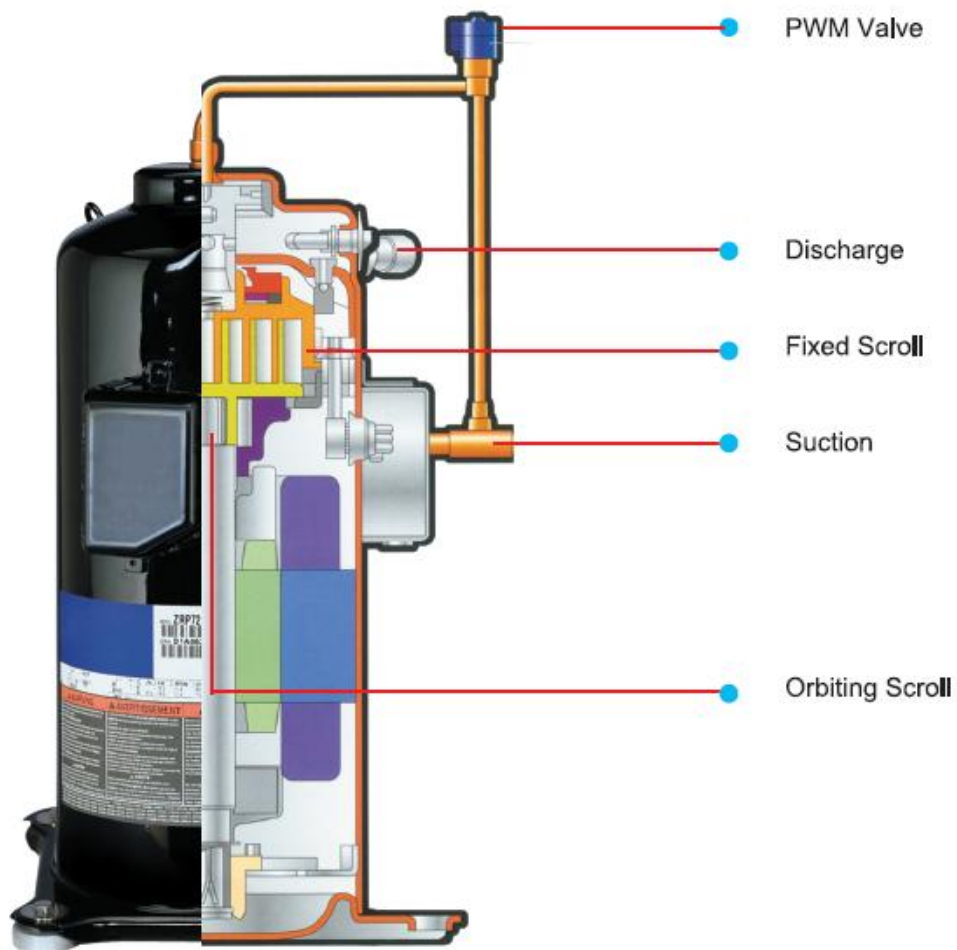
Free combination, wide range

5 basic modules, which can be freely combined.

Maximum capacity up to 64HP, which meets customers needs accurately.



Digital Scroll Compressor



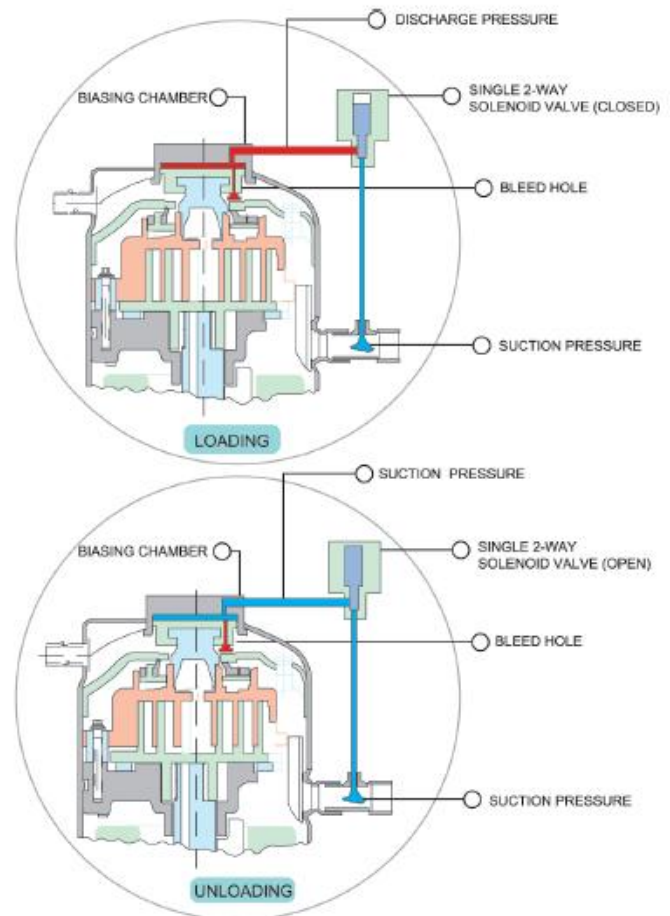
Features

- Enlarged energy adjustment range: from 10%-100%.
- Real stepless energy adjustment,
- Long life span: PWM solenoid valve can be used 40 billion times on average, equal to 30 years lifespan.
- High efficiency and stability of the refrigerant compressed by applying the axial compliant sealing technology.



Operation Principle of Digital Scroll Compressor

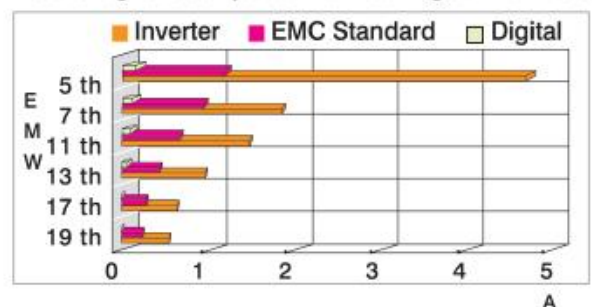
- The digital scroll compressor which utilizes the axial compliant sealing technology precisely adjust the axial moving range of the stator scroll pan. And there is an additional connecting by-pass between the suction inlet and the pressure bore at the floating sealing point of axial stator.
- When the PWM solenoid valve is open, the pressure in the pressure bore is released. The pressure in the compression bore is higher than that top of the stator, then the stator axis of the compressor will move upward a little. So high pressure bore and low pressure inlet is connected and the unloading is achieved.
- When the PWM solenoid valve is closed, two stators engaged. Then the airproof and loading is achieved. The compressor can adjust the ratio of On to OFF freely to control the refrigerant output of the compressor.



No Electromagnetic Interference

- TDV Digital Scroll System causes no electromagnetic interference, since the loading and unloading of compressor are merely mechanical movement. This special feature makes the Digital Scroll System applicable to telecommunication companies, power stations, and all kinds of precise science labs.

Electromagnetic Comparison Between Digital And Inverter



Precise Science Lab



Communication Computer Lab



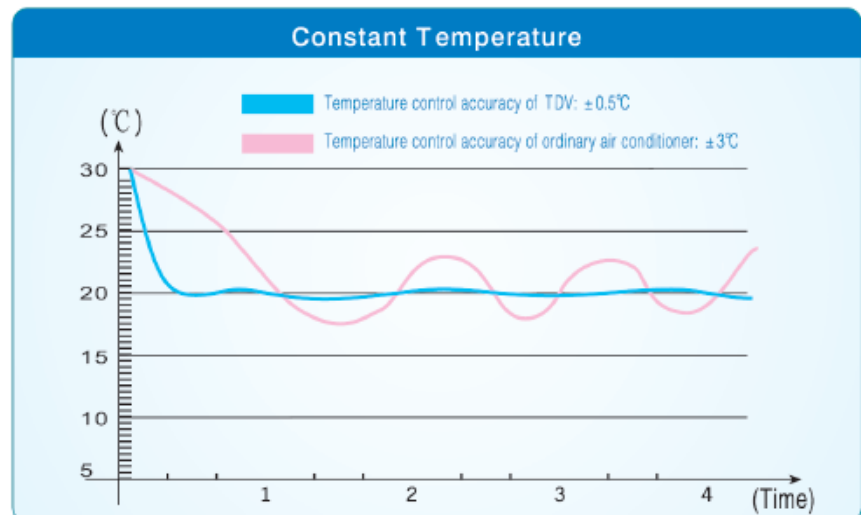
TV & Radio Receiver Station

Advanced Oil Return Technology

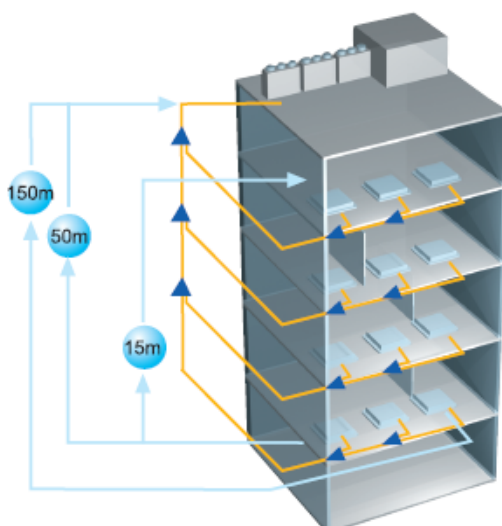
- The Digital Scroll Compressor is in the state of loading or unloading. In the loading state, the full speed operation of the compressor motor ensures the refrigerant has enough power to bring the oil back to the compressor. In the unloading state, there is no oil moving out of the compressor since there is no refrigerant output, the inertia of the refrigerant can also bring some oil back to the compressor.
- Combining the electronic control and the mechanical control, the oil level controller keeps an appropriate oil level in the compressor crankcase. Equipped with alarm system, it is applicable to both low-pressure & high pressure oil cycling system.

Accurate Temperature Control

- Compared with the traditional central air conditioning system, TDV System can reach a 0.5 Degree Centigrade accuracy.



Long Pipe ,Wide Height Difference

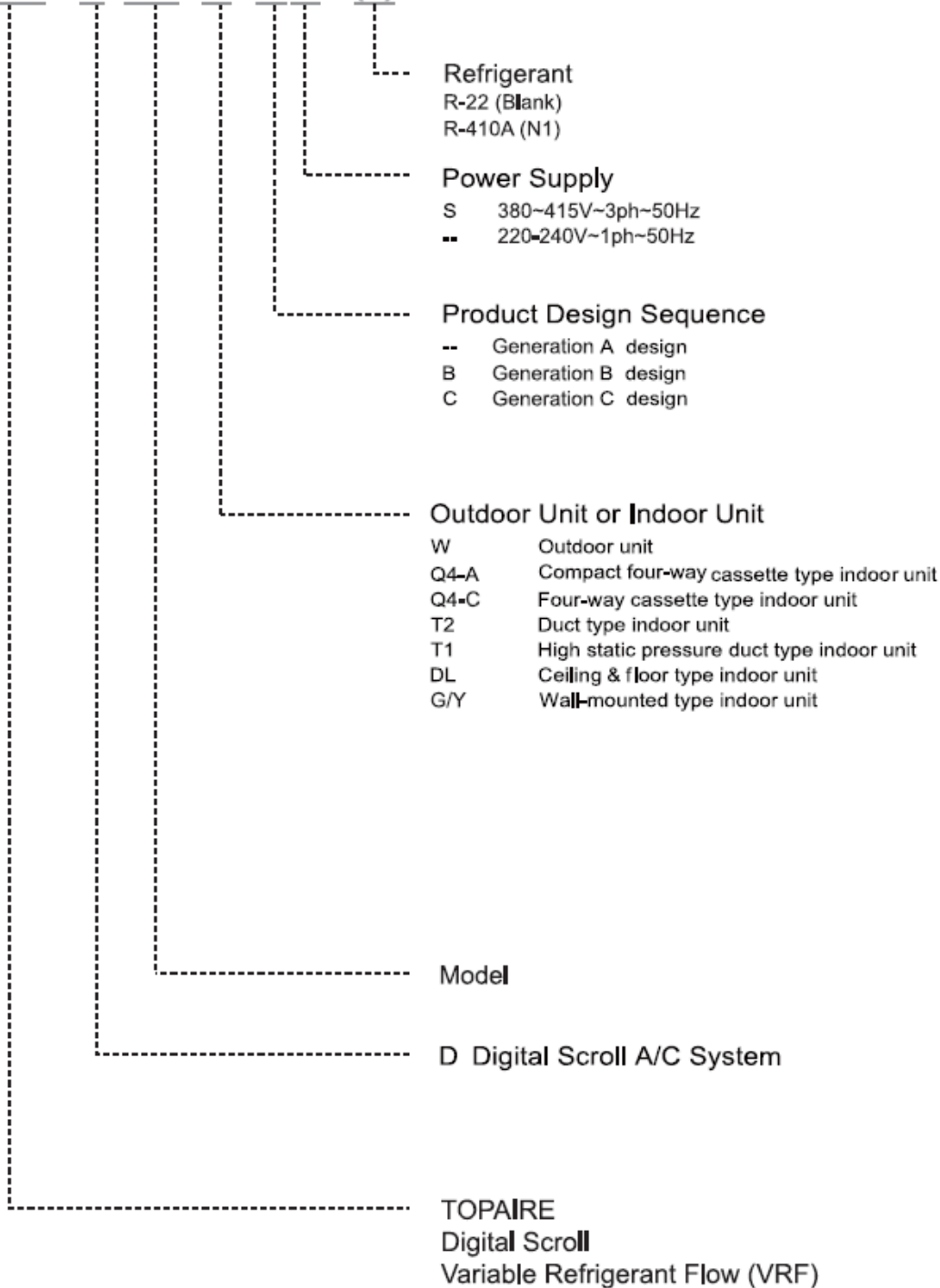


- The refrigerant piping length between the indoor unit and outdoor unit in one system can extend up to 150 meters and the difference in height can be as great as 50 meters. These generous allowances make it possible to put all the outdoor units on the rooftop in a 15-story building. The difference in height between indoor units in the same system can be as much as 15 meters, thus making it possible to cover four or five stories with a single system.

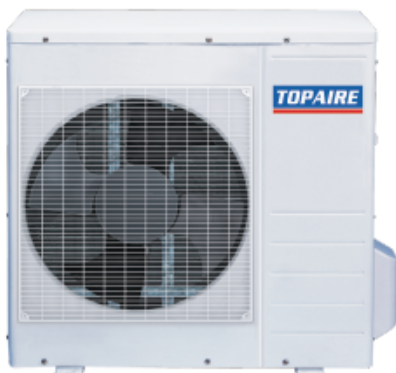
- 150m the max. pipe length between indoor unit and outdoor unit.
- 50m the max. height difference between indoor unit and outdoor unit.
- 15m the max. height difference between indoor units.

HOW TO READ THE MODELS

TDV - D 280 W/C S ()



TDV Pro Outdoor Units Line Up



36,000 / 50,000 BTU/Hr



89,000 / 100,500 / 120,200 / 143,600 / 161,500 BTU/Hr

TDV Pro Outdoor Units Combination

Design	Power supply	Capacity	Model	Recommend combination	Max. connection indoor units
	V~, Ph, Hz	BTU/Hr			
	220~240V-1-50	36,000	TDV-D100W	4	6
	380~415V-3-50	50,000	TDV-D140W/S	5	8
	380~415V-3-50	89,000	TDV-D252W/CS	8	13
	380~415V-3-50	100,500	TDV-D280W/CS	10	16
	380~415V-3-50	120,200	TDV-D335W/CS	12	16
	380~415V-3-50	143,600	TDV-D400W/CS	14	16
	380~415V-3-50	161,500	TDV-D450W/CS	16	20
	380~415V-3-50	189,500	TDV-D532W/CS	8 + 10	20
	380~415V-3-50	201,000	TDV-D560W/CS	10+10	20
	380~415V-3-50	220,700	TDV-D615W/CS	10+12	20
	380~415V-3-50	244,100	TDV-D680W/CS	10+14	20
	380~415V-3-50	262,000	TDV-D730W/CS	10+16	20
	380~415V-3-50	281,700	TDV-D785W/CS	12+16	20
	380~415V-3-50	305,100	TDV-D850W/CS	14+16	32
	380~415V-3-50	323,000	TDV-D900W/CS	16+16	32
	380~415V-3-50	344,600	TDV-D960W/CS	10x2+14	32
	380~415V-3-50	362,500	TDV-D1010W/CS	10x2+16	32
	380~415V-3-50	382,200	TDV-D1065W/CS	10+12+16	32
	380~415V-3-50	405,600	TDV-D1130W/CS	10+14+16	40
	380~415V-3-50	423,500	TDV-D1180W/CS	10+16x2	40
	380~415V-3-50	443,200	TDV-D1235W/CS	12+16x2	40
	380~415V-3-50	466,600	TDV-D1300W/CS	14+16 x2	40
	380~415V-3-50	484,500	TDV-D1350W/CS	16x3	40
	380~415V-3-50	504,200	TDV-D1405W/CS	12 x3+14	50
	380~415V-3-50	522,100	TDV-D1455 W/CS	12x3+16	50
	380~415V-3-50	545,500	TDV-D1520W/CS	12x2+14+16	50
	380~415V-3-50	563,400	TDV-D1570W/CS	12x2+16x2	50
	380~415V-3-50	585,000	TDV-D1630W/CS	10+16x3	50
	380~415V-3-50	604,700	TDV-D1685W/CS	12+16x3	64
	380~415V-3-50	628,100	TDV-D1750W/CS	14+16x3	64
	380~415V-3-50	646,000	TDV-D1800W/CS	16x4	64

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB /WB)

TDV Pro Outdoor Unit

Specifications - Single Modules

Model			TDV-D100W	TDV-D140W/S
Cooling Capacity		BTU/Hr	36,000	50,000
Power supply		V-Ph-Hz	220~240 - 1 - 50	380~415 - 3 - 50
Nominal Operating	RLA	Amp	20	8.5
	Rated power	kW	3.5	4.6
Performance	Air flow volume	m ³ /h	5,000	5,000
		CFM	2,950	2,950
	Noise level	dB(A)	54	54
Refrigerant	Type		R 22	R 22
	Charged volume	kg	2.7	3
Net dimension	WxHxD	mm	990x960x360	990x960x360
Net weight		kg	101	101
Pipe Diameter	Liquid side	mm(inch)	Ø 9.3 (3/8)	Ø 9.3 (3/8)
	Suction side	mm(inch)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
Piping connection	Max. pipe length	m	50	70
	Max. height difference between indoor and outdoor	m	8	8
Max. indoor unit nos		Pieces	5	6

Model			TDV-D252W/CS	TDV-D280W/CS	TDV-D335W/CS	TDV-D400W/CS	TDV-D450W/CS
Cooling Capacity		BTU/Hr	89,000	100,500	120,200	143,600	161,500
Power supply		V-Ph-Hz	380~415 - 3 - 50				
Nominal Operating	RLA (each)	Amp	12.8	14.9	17.2	20.6	23.1
	Rated power	kW	7.57	8.4	10.1	11.87	13.24
Performance	Air flow volume	m ³ /h	12,000	12,000	12,000	14,000	14,000
		CFM	7,060	7,060	7,060	8,240	8,240
	Noise level	dB(A)	58	58	58	60	60
Refrigerant	Type		R 22	R 22	R 22	R 22	R 22
	Charged volume	kg	13	13	13	18	18
Max.input consumption		kW	10.6	11.9	14.3	17.1	17.1
Max.current		Amp	17.9	20	24.1	28.8	28.8
Net dimension	WxHxD	mm	1380x1630x830	1380x1630x830	1380x1630x830	1380x1630x830	1380x1630x830
Net weight		kg	332	332	332	382	382
Pipe Diameter	Liquid side	mm(inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 12.7 (1/2)	Ø 15.9 (5/8)	Ø 15.9 (5/8)
	Suction side	mm(inch)	Ø 28.6 (1 1/8)	Ø 28.6 (1 1/8)	Ø 28.6 (1 1/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)
	Gas balance pipe I	mm(inch)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)
	Gas balance pipe II	mm(inch)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
Piping connection	Max. pipe length	m	150	150	150	150	150
	Max. height difference between indoor and outdoor	m	50	50	50	50	50
Max. indoor unit nos		Pieces	20	20	20	20	20

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB /WB)

TDV Pro Outdoor Unit

Specifications - Multi Modules

Dual Modules

Model	Constituent Units		TDV-D532W/C/S	TDV-D560W/C/S	TDV-D615W/C/S	TDV-D680W/C/S	TDV-D730W/C/S	TDV-D785W/C/S	TDV-D850W/C/S	TDV-D900W/C/S
			TDV-D252W/C/S	TDV-D280W/C/S	TDV-D280W/C/S	TDV-D280W/C/S	TDV-D280W/C/S	TDV-D335W/C/S	TDV-D400W/C/S	TDV-D450W/C/S
Cooling Capacity		BTU/h	189,500	201,000	220,700	244,100	262,000	281,700	305,100	323,000
Power supply		V/Ph/Hz	380-415 / 3 • 50							
Nominal Operating	RLA (each)	Amp	12,8 / 14,9	14,9 / 14,9	14,9 / 17,2	14,9 / 20,5	14,9 / 23,1	17,2 / 23,1	20,6 / 23,1	23,2 / 23,2
	Rated power	kW	15,97	16,8	18,5	20,27	21,64	23,34	25,11	26,48
Performance	Air flow volume	m ³ /h	24,000	24,000	24,000	24,000	26,000	26,000	28,000	28,000
	Oil balance pipe	CFM	14,120	14,120	14,120	14,120	15,300	15,300	16,480	16,480
Refrigerant	Noise level	dB(A)	62	62	62	62	62	62	62	62
	Type		R 22	R 22	R 22	R 22	R 22	R 22	R 22	R 22
Refrigerant	Charged volume	kg	13+13	13+13	13+13	13+18	13+18	13+18	18+18	18+18
	Max input consumption for each	kW	10,6 / 11,9	11,9 / 11,9	11,9 / 14,3	11,9 / 17,1	11,9 / 17,1	14,3 / 17,1	17,1 / 17,1	17,1 / 17,1
Max current for each		Amp	17,9 / 20	20 / 20	20 / 24,1	20 / 28,8	20 / 28,8	24,1 / 28,8	28,8 / 28,8	28,8 / 28,8
	Net dimension	WxHxD	1380x1630x830 + 1380x1630x830							
Net weight		kg	654	654	654	723	723	723	792	792
	Pipe Diameter									
Piping connection	Liquid side	mm(inch)	Ø 19 (3/4)	Ø 19 (3/4)	Ø 19 (3/4)	Ø 19 (3/4)	Ø 22 (7/8)	Ø 22 (7/8)	Ø 22 (7/8)	Ø 22 (7/8)
	Suction side	mm(inch)	Ø 34,9 (1 3/8)	Ø 34,9 (1 3/8)	Ø 34,9 (1 3/8)	Ø 34,9 (1 3/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)
	Oil balance pipe	mm(inch)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)
	Gas balance pipe I	mm(inch)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)
	Gas balance pipe II	mm(inch)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
Piping connection	Max. pipe length	m	150	150	150	150	150	150	150	150
	Max. height difference between indoor and outdoor	m	50	50	50	50	50	50	50	50
Max. indoor unit nos	Pieces		20	20	20	20	20	20	32	32

Tri Modules

Model	Constituent Units		TDV-D960W/C/S	TDV-D1010W/C/S	TDV-D1065W/C/S	TDV-D1130W/C/S	TDV-D1180W/C/S	TDV-D1235W/C/S	TDV-D1300W/C/S	TDV-D1350W/C/S
			TDV-D280W/C/S	TDV-D280W/C/S	TDV-D280W/C/S	TDV-D280W/C/S	TDV-D280W/C/S	TDV-D335W/C/S	TDV-D400W/C/S	TDV-D450W/C/S
Cooling Capacity		BTU/h	344,600	362,500	382,200	405,800	423,500	443,200	466,600	484,500
Power supply		V/Ph/Hz	380-415V / 3Ph / 50Hz							
Cooling	RLA (each)	Amp	14,9 / 14,9 / 20,6	14,9 / 14,9 / 23,1	14,9 / 17,2 / 23,1	14,9 / 20,6 / 23,1	14,9 / 23,1 / 23,1	17,2 / 23,1 / 23,1	20,6 / 23,1 / 23,1	23,1 / 23,1 / 23,1
	Rated power	kW	29,98	31,55	33,27	35,37	36,94	38,86	40,76	42,33
Performance	Air flow volume	m ³ /h	36,000	38,000	38,000	40,000	40,000	40,000	42,000	42,000
	Oil balance pipe	CFM	21,190	22,370	22,370	23,540	23,540	23,540	24,720	24,720
Refrigerant	Noise level	dB(A)	63	63	63	63	63	63	63	63
	Type		R 22	R 22	R 22	R 22	R 22	R 22	R 22	R 22
Refrigerant	Charged volume	kg	13+13+18	13+13+18	13+13+18	13+18+18	13+18+18	13+18+18	18+18+18	18+18+18
	Max input consumption for each	kW	11,9 / 11,9 / 17,1	11,9 / 11,9 / 17,1	11,9 / 14,3 / 17,1	11,9 / 17,1 / 17,1	11,9 / 17,1 / 17,1	14,3 / 17,1 / 17,1	17,1 / 17,1 / 17,1	17,1 / 17,1 / 17,1
Max current for each		Amp	17,9 / 17,9 / 28,8	17,9 / 17,9 / 28,8	17,9 / 24,1 / 28,8	17,9 / 28,8 / 28,8	17,9 / 28,8 / 28,8	24,1 / 28,8 / 28,8	28,8 / 28,8 / 28,8	28,8 / 28,8 / 28,8
	Dimension	WxHxD	1380x1630x830 + 1380x1630x830 + 1380x1630x830							
Net weight		kg	1050	1050	1050	1119	1119	1119	1188	1188
	Piping Diameter									
Piping connection	Liquid side	mm(inch)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)
	Suction side	mm(inch)	Ø 54 (2 1/8)	Ø 54 (2 1/8)	Ø 54 (2 1/8)	Ø 54 (2 1/8)	Ø 54 (2 1/8)	Ø 54 (2 1/8)	Ø 54 (2 1/8)	Ø 54 (2 1/8)
	Oil balance pipe	mm(inch)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)
	Gas balance pipe I	mm(inch)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)
	Gas balance pipe II	mm(inch)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
Piping connection	Max. pipe length	m	150	150	150	150	150	150	150	150
	Max. height difference between indoor and outdoor	m	50	50	50	50	50	50	50	50
Max. indoor unit nos	Pieces		32	32	32	40	40	40	40	40

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB / WB)

TDV Pro Outdoor Unit

Specifications - Multi Modules

Quad Modules

Model	Constituent Units		TDV-D1405W/CS	TDV-D1455W/CS	TDV-D1520W/CS	TDV-D1570W/CS	TDV-D1630W/CS	TDV-D1685W/CS	TDV-D1750W/CS	TDV-D1800W/CS
			TDV-D335W/CS	TDV-D335W/CS	TDV-D335W/CS	TDV-D335W/CS	TDV-D280W/CS	TDV-D335W/CS	TDV-D400W/CS	TDV-D450W/CS
			TDV-D335W/CS	TDV-D335W/CS	TDV-D335W/CS	TDV-D335W/CS	TDV-D450W/CS	TDV-D450W/CS	TDV-D450W/CS	TDV-D450W/CS
			TDV-D335W/CS	TDV-D335W/CS	TDV-D400W/CS	TDV-D450W/CS	TDV-D450W/CS	TDV-D450W/CS	TDV-D450W/CS	TDV-D450W/CS
Cooling Capacity		BTU/HR	504,200	522,100	545,500	563,400	585,000	604,700	628,100	646,000
Power supply		V/Ph/Hz	380~415V / 3PH / 50Hz							
Cooling	RLA (each)	Amp	17,2 x 3 / 20,6	17,2 x 3 / 23,1	17,2 x 2 / 20,6 / 23,1	17,2 x 2 / 23,1 x 2	14,9 / 23,1 x 3	17,2 / 23,1 x 3	20,6 / 23,1 x 3	23,1 x 4
	Rated power	kW	42,17	43,54	45,31	46,68	48,12	49,62	51,96	52,96
Performance	Air flow volume	m³/h	50,000	50,000	52,000	52,000	54,000	54,000	56,000	56,000
		CFM	29,430	29,430	30,600	30,600	31,800	31,800	32,960	32,960
	Noise level	dB(A)	64	64	64	64	64	64	64	64
	Type	R 22	R 22	R 22	R 22	R 22	R 22	R 22	R 22	R 22
Refrigerant	Charged volume	kg	13_3+18	13_3+18	13_2+18_2	13_2+18_2	13+18_3	13+18_3	18_4	18_4
Max,input consumption for each		kW	14,3 x 3 / 17,1	14,3 x 3 / 17,1	14,3 x 2 / 17,1 x 2	14,3 x 2 / 17,1 x 2	11,9 / 17,1 x 3	14,3 / 17,1 x 3	17,1 x 4	17,1 x 4
Max,current for each		Amp	17,9 x 3 / 28,8	17,9 x 3 / 28,8	24,1 x 2 / 28,8 x 2	24,1 x 2 / 28,8 x 2	20 / 28,8 x 3	24,1 / 28,8 x 3	28,8 x 4	28,8 x 4
Dimension	WxHxD	mm	1380x1630x830 + 1380x1630x830 + 1380x1630x830 + 1380x1630x830							
	Net weight	kg	1377	1377	1446	1446	1515	1515	1584	1584
Piping Diameter	Liquid side	mm(inch)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)
	Suction side	mm(inch)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)	Ø 66,7 (2 5/8)
	Oil balance pipe	mm(inch)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)	Ø 6,35 (1/4)
	Gas balance pipe I	mm(inch)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)
	Gas balance pipe II	mm(inch)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
Piping connection	Max. pipe length	m	150	150	150	150	150	150	150	150
	Max. height difference between indoor and outdoor	m	50	50	50	50	50	50	50	50
Max. indoor unit nos		Pieces	50	50	50	50	50	64	64	64

Features

1. Variable-capacity compressor
2. Free combination, wide capacity range
3. High efficiency
4. Long piping system
5. Patented design, reliable running
6. High efficient heat-exchanger & precisely refrigerant control
7. Patented double four-way valve designed
8. Accurate temperature control
9. Space saving
10. Simple installation and easy maintenance
11. No electromagnetic interference

All specifications are subject to change by manufacturer without prior notice.

14 Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB / WB)

TDV Pro Outdoor Unit

Specifications

Single Modules

Model			TDV-D252W/CS(N1)	TDV-D280W/CS(N1)	TDV-D335W/CS(N1)	TDV-D400W/CS(N1)	TDV-D450W/CS(N1)
Cooling Capacity		BTU/Hr	89,000	100,500	120,200	143,600	161,500
Power supply		V-Ph-Hz	380-415 - 3 - 50				
Nominal Operating	RLA	Amp	12,5	14,6	17,3	20,2	23,0
	Rated power	kW	6,55	7,82	10,37	11,40	14,02
Performance	Air flow volume	m ³ /h	11,500	11,500	11,500	14,800	14,800
		CFM	6,769	6,769	6,769	8,711	8,711
	Noise level	dB(A)	58	58	58	60	60
Refrigerant	Type		R 410 A	R 410 A	R 410 A	R 410 A	R 410 A
	Charged volume	kg	11	11	11	18	18
Max input consumption		kW	10,6	11,9	14,36	17,1	20,9
Max current		Amp	17,9	20,1	24,1	28,8	33
Net dimension		WxHxD	mm	980x1630x830	980x1630x830	980x1630x830	1380x1630x830
Net weight		kg	290	290	290	382	382
Pipe Diameter	Liquid side (< 90M)	mm(inch)	Ø 12,7 (1/2)	Ø 12,7 (1/2)	Ø 12,7 (1/2)	Ø 12,7 (1/2)	Ø 12,7 (1/2)
	Suction side (< 90M)	mm(inch)	Ø 22,2 (7/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)
	Liquid side (> 90M)	mm(inch)	Ø 12,7 (1/2)	Ø 12,7 (1/2)	Ø 12,7 (1/2)	Ø 15,9 (5/8)	Ø 15,9 (5/8)
	Suction side (> 90M)	mm(inch)	Ø 22,2 (7/8)	Ø 28,6 (1 1/8)	Ø 28,6 (1 1/8)	Ø 34,9 (1 3/8)	Ø 34,9 (1 3/8)
	Gas balance pipe I	mm(inch)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)
	Oil balance pipe II	mm(inch)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
Piping connection	Max. pipe length	m	175	175	175	175	175
	Max. height difference between indoor and outdoor						
		m	70	70	70	70	70
Max. indoor unit nos		Pieces	20	20	20	20	20

Dual Modules

Model	Recommended Constituent Units		TDV-D632W/CS (N1)	TDV-D680W/CS (N1)	TDV-D815W/CS (N1)	TDV-D880W/CS (N1)	TDV-D1030W/CS (N1)	TDV-D1085W/CS (N1)	TDV-D1360W/CS (N1)	TDV-D1600W/CS (N1)
			TDV-D232W/CS (N1)	TDV-D280W/CS (N1)	TDV-D280W/CS (N1)	TDV-D280W/CS (N1)	TDV-D335W/CS (N1)	TDV-D400W/CS (N1)	TDV-D450W/CS (N1)	TDV-D450W/CS (N1)
			TDV-D280W/CS (N1)	TDV-D280W/CS (N1)	TDV-D335W/CS (N1)	TDV-D400W/CS (N1)	TDV-D450W/CS (N1)	TDV-D450W/CS (N1)	TDV-D450W/CS (N1)	TDV-D450W/CS (N1)
Cooling Capacity		BTU/Hr	189,500	201,000	220,700	244,100	262,000	281,700	305,100	323,000
Power supply		V-Ph-Hz	380~415 - 3 - 50							
Nominal Operating	RLA (each)	Amp	12.5 + 14.6	14.6 + 14.6	14.6 + 17.3	14.6 + 20.2	14.6 + 23.0	17.3 + 23.0	20.2 + 23.0	23.0 + 23.0
	Rated power	kW	14.37	15.64	18.19	19.22	21.84	24.39	25.42	28.04
Performance	Air flow volume	m³/h	23,000	23,000	23,000	26,300	26,300	26,300	29,600	29,600
		CFM	13,538	13,538	13,538	15,480	15,480	15,480	17,423	17,423
	Noise level	dB(A)	62	62	62	62	62	62	62	62
Refrigerant	Type		R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	R 410 A
	Charged volume	kg	11+11	11+11	11+11	11+18	11+18	11+18	18+18	18+18
Max input consumption for each		kW	10.6 / 11.9	11.9 / 11.9	11.9 / 14.36	11.9 / 17.1	11.9 / 17.1	14.36 / 17.1	17.1 / 20.9	20.9 / 20.9
Max current for each		Amp	17.9 / 20.1	20.1 / 20.1	20.1 / 24.1	20.1 / 28.8	20.1 / 33.0	24.1 / 33.0	28.8 / 33.0	33.0 / 33.0
Net dimension		WxHxD	980x1630x830 + 1380x1630x830						1380x1630x830 + 1380x1630x830	
Net weight		kg	654	654	654	723	723	723	792	792
Pipe Diameter	Liquid side (< 90M)	mm(inch)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
	Suction side (< 90M)	mm(inch)	Ø 28.6 (1 1/8)	Ø 28.6 (1 1/8)	Ø 28.6 (1 1/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)
	Liquid side (> 90M)	mm(inch)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	Ø 22.2 (7/8)	Ø 22.2 (7/8)
	Suction side (> 90M)	mm(inch)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)	Ø 34.9 (1 3/8)	Ø 41.3 (1 5/8)	Ø 41.3 (1 5/8)	Ø 41.3 (1 5/8)	Ø 41.3 (1 5/8)
	Gas balance pipe I	mm(inch)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)	Ø 15.9 (5/8)
	Oil balance pipe II	mm(inch)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
Piping connection	Max. pipe length	m	175	175	175	175	175	175	175	175
	Max. height difference between indoor and outdoor	m	70	70	70	70	70	70	70	70
Max. indoor unit nos		Pieces	20	20	20	20	20	20	32	32

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB / WB)

TDV Pro Outdoor Unit

Specifications

Tri Modules

Model	Recommended Constituent Units		TDV-D960WICS (N1)	TDV-D1010WICS (N1)	TDV-D1065WICS (N1)	TDV-D1130WICS (N1)	TDV-D1180WICS (N1)	TDV-D1235WICS (N1)	TDV-D1300WICS (N1)	TDV-D1350WICS (N1)	
			TDV-D280WICS (N1)	TDV-D280WICS (N1)	TDV-D280WICS (N1)	TDV-D280WICS (N1)	TDV-D280WICS (N1)	TDV-D335WICS (N1)	TDV-D400WICS (N1)	TDV-D450WICS (N1)	
			TDV-D280WICS (N1)	TDV-D280WICS (N1)	TDV-D335WICS (N1)	TDV-D400WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	
			TDV-D400WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	TDV-D450WICS (N1)	
Cooling Capacity		BTU/hr	344,600	362,500	382,200	405,600	423,500	443,200	466,600	484,500	
Power supply		V/Ph/Hz	380-415V / 3PH / 50Hz								
Nominal Operating	RLA (each)	Amp	14,6 + 14,6 + 20,2	14,6 + 14,6 + 23,0	14,6 + 17,3 + 23,0	14,6 + 20,2 + 23,0	14,6 + 23,0 + 23,0	17,3 + 23,0 + 23,0	20,0 + 23,0 + 23,0	23,0 + 23,0 + 23,0	
	Rated power	kW	27,04	29,66	32,21	33,24	35,06	38,41	38,44	42,06	
Performance	Air flow volume	m³/h	37,800	37,800	37,800	41,100	41,100	41,100	44,400	44,400	
	CFM		22,249	22,249	22,249	24,191	24,191	24,191	26,134	26,134	
	Noise level	dB(A)	63	63	63	63	63	63	63	63	
Refrigerant	Type		R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	R 410 A	
	Charged volume	kg	11+11+18	11+11+18	11+11+18	11+18+18	11+18+18	11+18+18	18+18+18	18+18+18	
Max input consumption for each		kW	11,9 / 11,9 / 17,1	11,9 / 11,9 / 20,9	11,9 / 14,36 / 20,9	11,9 / 17,1 / 20,9	11,9 / 20,9 / 20,9	14,36 / 20,9 / 20,9	17,1 / 20,9 / 20,9	20,9 / 20,9 / 20,9	
Max current for each		Amp	17,9 / 17,9 / 28,8	17,9 / 17,9 / 33,0	17,9 / 24,1 / 33,0	17,9 / 28,8 / 33,0	17,9 / 33,0 / 33,0	24,1 / 33,0 / 33,0	28,8 / 33,0 / 33,0	33,0 / 33,0 / 33,0	
Dimension	WxHxD	mm	980x1630x830 X 2 + 1380x1630x830				980x1630x830 + 1380x1630x830 X 2				1380x1630x830 X 3
	Net weight	kg	962	962	962	1054	1054	1054	1146	1146	
Piping Diameter	Liquid side (< 90M)	mm(inch)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	
	Suction side (< 90M)	mm(inch)	Ø 34,9 (1 3/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	
	Liquid side (> 90M)	mm(inch)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	Ø 22,2 (7/8)	
	Suction side (> 90M)	mm(inch)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	Ø 41,3 (1 5/8)	
	Gas balance pipe I	mm(inch)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	Ø 15,9 (5/8)	
	Oil balance pipe II	mm(inch)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	
Piping connection	Max. pipe length	m	175	175	175	175	175	175	175	175	
	Max. height difference between indoor and outdoor	m	70	70	70	70	70	70	70	70	
Max. indoor unit nos		Pieces	32	32	32	40	40	40	40	40	

Quad Modules

Model	Recommended Constituent Units	TDV-D1405WICS (N1)		TDV-D1455WICS (N1)		TDV-D1520WICS (N1)		TDV-D1570WICS (N1)		TDV-D1630WICS (N1)		TDV-D1685WICS (N1)		TDV-D1750WICS (N1)		TDV-D1800WICS (N1)		
		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D280WICS (N1)		TDV-D335WICS (N1)		TDV-D400WICS (N1)		TDV-D450WICS (N1)		
		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		
		TDV-D335WICS (N1)		TDV-D335WICS (N1)		TDV-D400WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		
		TDV-D400WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		TDV-D450WICS (N1)		
Cooling Capacity		BTU/Hr	504,200		522,100		545,500		563,400		585,000		604,700		628,100		646,000	
Power supply		V/Ph/Hz	380~415V / 3PH / 50Hz															
Nominal Op	RLA (each)	Amp	17.3 x 3 + 20.2		17.3 x 3 + 23.0		17.3 x 2 + 20.2 + 23.0		17.3 x 2 + 23.0 x 2		14.6 + 23.0 x 3		17.3 + 23.0 x 3		20.2 + 23.0 x 3		23.0 x 4	
	Rated power	KW	42.51		45.13		46.16		48.76		49.08		52.43		53.46		56.08	
Performance	Air flow volume	m³/h	49,300		49,300		52,600		52,600		55,900		55,900		59,200		59,200	
		CFM	29,018		29,018		30,960		30,960		32,903		32,903		34,845		34,845	
	Noise level	dB(A)	64		64		64		64		64		64		64		64	
Refrigerant	Type		R 410 A		R 410 A		R 410 A		R 410 A		R 410 A		R 410 A		R 410 A		R 410 A	
	Charged volume	kg	11 x 3 + 18		11 x 3 + 18		11 x 2 + 18 x 2		11 x 2 + 18 x 2		11 + 18 x 3		11 + 18 x 3		18 x 4		18 x 4	
	Max. input consumption for each	KW	14,36 x 3 / 17.1		14,36 x 3 / 20.9		14,36 x 2 / 17.1 / 20.9		14,36 x 2 / 20.9 x 2		11.9 / 20.9 x 3		14,36 / 20.9 x 3		17.1 / 20.9 x 3		20.9 x 4	
	Max. current for each	Amp	24.1 x 3 / 28.8		24.1 x 3 / 33.0		24.1 x 2 / 28.8 / 33.0		24.1 x 2 / 33.0 x 2		20.1 / 33.0 x 3		14,36 / 33.0 x 3		28.8 / 33.0 x 3		33.0 x 4	
Dimension	WxHxD	mm	980x1630x830 X 3 + 1380x1630x830				980x1630x830 X 2 + 1380x1630x830 X 2				980x1630x830 + 1380x1630x830 X 3				1380x1630x830 X 4			
	Net weight	kg	1252		1252		1344		1344		1436		1436		1528		1528	
Piping Diam	Liquid side (< 90M)	mm/inch	Ø 22.2 (7/8)		Ø 22.2 (7/8)		Ø 22.2 (7/8)		Ø 22.2 (7/8)		Ø 22.2 (7/8)		Ø 22.2 (7/8)		Ø 22.2 (7/8)		Ø 22.2 (7/8)	
	Suction side (< 90M)	mm/inch	Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)	
	Liquid side (> 90M)	mm/inch	Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)		Ø 28.6 (1 1/8)	
	Suction side (> 90M)	mm/inch	Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)		Ø 54.1 (2 1/8)	
	Gas balance pipe I	mm/inch	Ø 15.9 (5/8)		Ø 15.9 (5/8)		Ø 15.9 (5/8)		Ø 15.9 (5/8)		Ø 15.9 (5/8)		Ø 15.9 (5/8)		Ø 15.9 (5/8)		Ø 15.9 (5/8)	
	Oil balance pipe II	mm/inch	Ø 19.0 (3/4)		Ø 19.0 (3/4)		Ø 19.0 (3/4)		Ø 19.0 (3/4)		Ø 19.0 (3/4)		Ø 19.0 (3/4)		Ø 19.0 (3/4)		Ø 19.0 (3/4)	
Piping conn	Max. pipe length	m	175		175		175		175		175		175		175		175	
	Max. height difference between indoor and outdoor	m	70		70		70		70		70		70		70		70	
Max. indoor unit nos		Pieces	50		50		50		50		50		64		64		64	

Indoor Units Line Up

BTU / Hr		8,000	10,000	13,000	18,000	20,000	25,000	30,000	36,000	40,000	50,000	60,000	99,000
	Four-way Cassette (Compact)		●	●	●								
	Four-way Cassette		●	●	●	●	●	●	●	●	●		
	Ceiling & Floor			●	●	●	●	●	●	●	●	●	
	Wall-mounted	●	●	●	●	●	●						
	Ceiling Ducted	●	●	●	●	●	●	●	●	●	●		
	High Static Pressure Ceiling Ducted						●	●	●	●	●	●	●

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB / WB)

Four-way Cassette (Compact)

Indoor Unit

Specification



MODEL		TDV-D 28 Q4-A	TDV-D 36 Q4-A	TDV-D 45 Q4-A
COOLING CAPACITY	BTU/Hr	10,000	13,000	18,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50		
RATED POWER	W	65	65	75
AIR FLOW	CFM	300	350	500
RATED AMPERE	AMP	0,22	0,24	0,25
SOUND LEVEL	dBA	36	36	38
REFRIGERANT	TYPE	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)
	SUCTION	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 25 (1,0)	Ø 25 (1,0)	Ø 25 (1,0)
DIMENSION (MM)	UNIT (WxDxH)	580 X 580 X 254	580 X 580 X 254	580 X 580 X 254
	PANEL (WxDxH)	650 X 650 X 30	650 X 650 X 30	650 X 650 X 30
NET WEIGHT	KG	22	24	24

Four-way Cassette

Indoor Unit

Specification



MODEL		TDV-D 28 Q4-C	TDV-D 36 Q4-C	TDV-D 45 Q4-C	TDV-D 56 Q4-C
COOLING CAPACITY	BTU/Hr	10,000	13,000	18,000	20,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50			
RATED POWER	W	90	90	90	100
AIR FLOW	CFM	510	510	560	600
RATED AMPERE	AMP	0,40	0,40	0,40	0,50
SOUND LEVEL	dBA	36	36	38	38
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)
	SUCTION	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 25 (1,0)	Ø 25 (1,0)	Ø 25 (1,0)	Ø 25 (1,0)
DIMENSION (MM)	UNIT (WxDxH)	840 X 840 X 240	840 X 840 X 240	840 X 840 X 240	840 X 840 X 240
	PANEL (WxDxH)	950 X 950 X 40	950 X 950 X 40	950 X 950 X 40	950 X 950 X 40
NET WEIGHT	KG	29	29	29	29

MODEL		TDV-D 71 Q4-C	TDV-D 80 Q4-C	TDV-D 90 Q4-C	TDV-D 112 Q4-C	TDV-D 140 Q4-C
COOLING CAPACITY	BTU/Hr	25,000	30,000	36,000	40,000	50,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50				
RATED POWER	W	100	130	145	145	145
AIR FLOW	CFM	750	900	1050	1050	1130
RATED AMPERE	AMP	0,50	0,60	0,68	0,68	0,68
SOUND LEVEL	dBA	42	42	44	44	46
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)
	SUCTION	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 25 (1,0)	Ø 25 (1,0)	Ø 25 (1,0)	Ø 25 (1,0)	Ø 25 (1,0)
DIMENSION (MM)	UNIT (WxDxH)	840 X 840 X 240	840 X 840 X 240	840 X 840 X 240	840 X 840 X 240	840 X 840 X 240
	PANEL (WxDxH)	950 X 950 X 40	950 X 950 X 40	950 X 950 X 40	950 X 950 X 40	950 X 950 X 40
NET WEIGHT	KG	30	31	35	35	36

All specifications are subject to change by manufacturer without prior notice.

18 Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB /WB)

Ceiling and Floor Type

Indoor Unit



TDV-D 36 - 90 DL/B



TDV-D 112 - 180 DL/B

Specifications

MODEL		TDV-D 36 DL/B	TDV-D 45 DL/B	TDV-D 56 DL/B	TDV-D 71 DL/B
COOLING CAPACITY	BTU/Hr	13,000	18,000	20,000	25,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50			
RATED POWER	W	110	110	110	110
AIR FLOW	CFM	470	500	600	800
RATED AMPERE	AMP	0.40	0.50	0.50	0.50
SOUND LEVEL	dBA	36	38	38	42
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
	SUCTION	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 25 (1.0)	Ø 25 (1.0)	Ø 25 (1.0)	Ø 25 (1.0)
DIMENSION (MM)	UNIT (WxDxH)	990 X 660 X 200	990 X 660 X 200	990 X 660 X 200	990 X 660 X 200
NET WEIGHT	KG	29	29	29	30

MODEL		TDV-D 80 DL/B	TDV-D 90 DL/B	TDV-D 112 DL/B	TDV-D 140 DL/B	TDV-D 180 DL/B
COOLING CAPACITY	BTU/Hr	30,000	36,000	40,000	50,000	60,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50				
RATED POWER	W	131	131	210	210	210
AIR FLOW	CFM	960	1100	1300	1400	1500
RATED AMPERE	AMP	0.60	0.60	0.95	0.95	0.95
SOUND LEVEL	dBA	42	44	44	46	47
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
	SUCTION	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 25 (1.0)	Ø 25 (1.0)	Ø 25 (1.0)	Ø 25 (1.0)	Ø 25 (1.0)
DIMENSION (MM)	UNIT (WxDxH)	1285 X 660 X 200	1285 X 660 X 200	1670 X 680 X 240	1670 X 680 X 240	1670 X 680 X 240
NET WEIGHT	KG	37	37	52	54	56

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB /WB)

Wall Mounted Type

Indoor Unit



Colour Panel : Snow White (Standard)



Colour Panel : Mirror (Optional)

Specifications

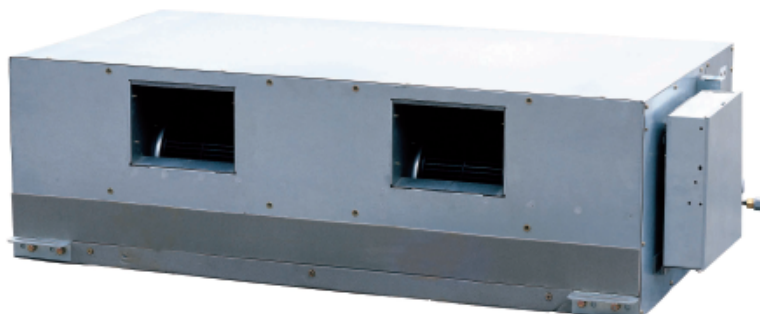
MODEL		TDV-D 22 G/Y	TDV-D 28 G/Y	TDV-D 36 G/Y	TDV-D 45 G/Y	TDV-D 56 G/Y	TDV-D 71 G/Y
COOLING CAPACITY	BTU/Hr	8,000	10,000	13,000	18,000	20,000	25,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50					
RATED POWER	W	30	30	30	45	45	70
AIR FLOW	CFM	280	300	320	450	500	530
RATED AMPERE	AMP	0.12	0.12	0.14	0.20	0.20	0.27
SOUND LEVEL	dBA	34	35	36	40	42	44
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)	Ø 9,53 (3/8)
	SUCTION	Ø 16,0 (5/8)	Ø 16,0 (5/8)	Ø 16,0 (5/8)	Ø 16,0 (5/8)	Ø 16,0 (5/8)	Ø 16,0 (5/8)
DRAIN PIPE	MM (INCH)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)	Ø 19,0 (3/4)
DIMENSION (MM)	UNIT (WxDxH)	1020 X 385 X 300	1020 X 385 X 300	1020 X 385 X 300	1180 X 410 X 300	1180 X 410 X 300	1180 X 410 X 300
NET WEIGHT	KG	12	12	12	15	15	16

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB /WB)

High Static Pressure Ceiling Ducted

Indoor Unit



Specifications

MODEL		TDV-D 71 T1	TDV-D 80 T1	TDV-D 90 T1
COOLING CAPACITY	BTU/Hr	25,000	30,000	36,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50		
RATED POWER	W	400	400	430
AIR FLOW	CFM	900	970	1,200
EXTERNAL STATIC PRESSURE	INWG	0.5	0.5	0.5
RATED AMPERE	AMP	1.40	1.40	1.47
SOUND LEVEL	dBA	42	42	44
REFRIGERANT	TYPE	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
	SUCTION	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)
DIMENSION (MM)	UNIT (WxDxH)	850 X 660 X 380	850 X 660 X 380	1200 X 660 X 380
NET WEIGHT	KG	49	49	62

MODEL		TDV-D 112 T1	TDV-D 140 T1	TDV-D 180 T1	TDV-D 280 T1-C
COOLING CAPACITY	BTU/Hr	40,000	50,000	60,000	99,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50			
RATED POWER	W	430	500	600	1,540
AIR FLOW	CFM	1,300	1,500	1,700	2,800
EXTERNAL STATIC PRESSURE	INWG	0.5	0.5	0.8	0.8
RATED AMPERE	AMP	1.47	1.50	1.50	5.0
SOUND LEVEL	dBA	44	45	46	60
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
	SUCTION	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)
DIMENSION (MM)	UNIT (WxDxH)	1200 X 660 X 380	1200 X 660 X 380	1200 X 660 X 380	1350 X 760 X 450
NET WEIGHT	KG	65	66	67	105

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB / WB)

Ceiling Ducted

Indoor Unit



Specifications

MODEL		TDV-D 22 T2-B	TDV-D 28 T2-B	TDV-D 36 T2-B	TDV-D 45 T2-B	TDV-D 56 T2-B
COOLING CAPACITY	BTU/Hr	8,000	10,000	13,000	18,000	20,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50				
RATED POWER	W	125	125	125	200	200
AIR FLOW	CFM	300	300	350	550	600
EXTERNAL STATIC PRESSURE	INWG	0.2	0.2	0.2	0.2	0.2
RATED AMPERE	AMP	0.85	0.85	0.85	1.50	1.50
SOUND LEVEL	dBA	34	35	35	37	38
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
	SUCTION	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DIMENSION (MM)	UNIT (WxDxH)	800 X 550 X 320	800 X 550 X 320	800 X 550 X 320	1000 X 800 X 320	1000 X 800 X 320
NET WEIGHT	KG	26	26	27	46	46

MODEL		TDV-D 71 T2-B	TDV-D 80 T2-B	TDV-D 90 T2-B	TDV-D 112 T2-B	TDV-D 140 T2-B
COOLING CAPACITY	BTU/Hr	25,000	30,000	36,000	40,000	50,000
POWER SUPPLY	V/Ph/Hz	220 - 240 / 1 / 50				
RATED POWER	W	200	200	280	300	310
AIR FLOW	CFM	800	800	1,000	1,200	1,500
EXTERNAL STATIC PRESSURE	INWG	0.2	0.2	0.3	0.3	0.3
RATED AMPERE	AMP	1.70	1.70	1.83	1.83	1.83
SOUND LEVEL	dBA	42	42	44	44	45
REFRIGERANT	TYPE	R 22	R 22	R 22	R 22	R 22
PIPE CONNECTION MM (INCH)	LIQUID	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)	Ø 9.53 (3/8)
	SUCTION	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)	Ø 19.0 (3/4)
DRAIN PIPE	MM (INCH)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)	Ø 32.0 (1 1/2)
DIMENSION (MM)	UNIT (WxDxH)	1000 X 800 X 320	1000 X 800 X 320	1350 X 800 X 320	1350 X 800 X 320	1350 X 800 X 320
NET WEIGHT	KG	47	47	57	57	58

All specifications are subject to change by manufacturer without prior notice.

Note : The nominal cooling capacity is based on condenser outdoor air entering temp. 35 °C (DB); indoor on coil temp. 27/19 °C (DB / WB)

Controllers

Remote Controllers



R05 remote controller

Light background, LCD display screen, clock function, ON/OFF/Temperature setting/ Mode setting /Fan speed setting/horizontal swing/vertical swing setting functions, but need match functions with corresponding indoor units.

Wired Controllers



KJR-01B wired controller

ON/OFF/Mode setting/Temp. setting/Fan speed setting/Time setting/Swing, etc..



KJR-10B wired controller

ON/OFF/Mode setting/Temp. setting/Fan speed/Time setting/Swing, etc..



KJR-12B wired controller(with follow me function)

The basic function is the same as KJR-10B, Temp sensor built-in.
Note:Special order for indoor PCB.

Central Control Monitor



MD-CCM01 indoor CCM

Max. 64 indoor units control.



MD-CCM03 indoor CCM

Max. 64 indoor units control; New mode lock function.



MD-CCM02 outdoor CCM

Max. 32 outdoor units control.

Note: Special order for outdoor PCB.

BMS Accessories



MDV-WLJKXT(V3.0) 3rd network central control system kit

Network control software (V3.0).



MD-CCM08 BMS CCM

BACNET LONWORK /ETHERNET optional, Max connecting 4 group air-conditions (each group can connect Max. 64 indoor units or 32 outdoor units).

Weekly Timer



MD-CCM04 weekly schedule timer

Control one indoor unit.

Note: Weekly schedule timer and indoor CCM cannot be used simultaneity.



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