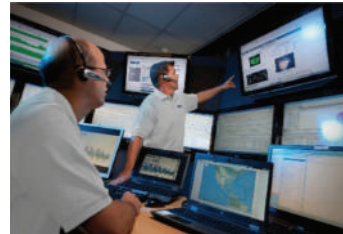


Voltas Customer Care Life Cycle Support

Through **MANAGED** Services



Remote Monitoring

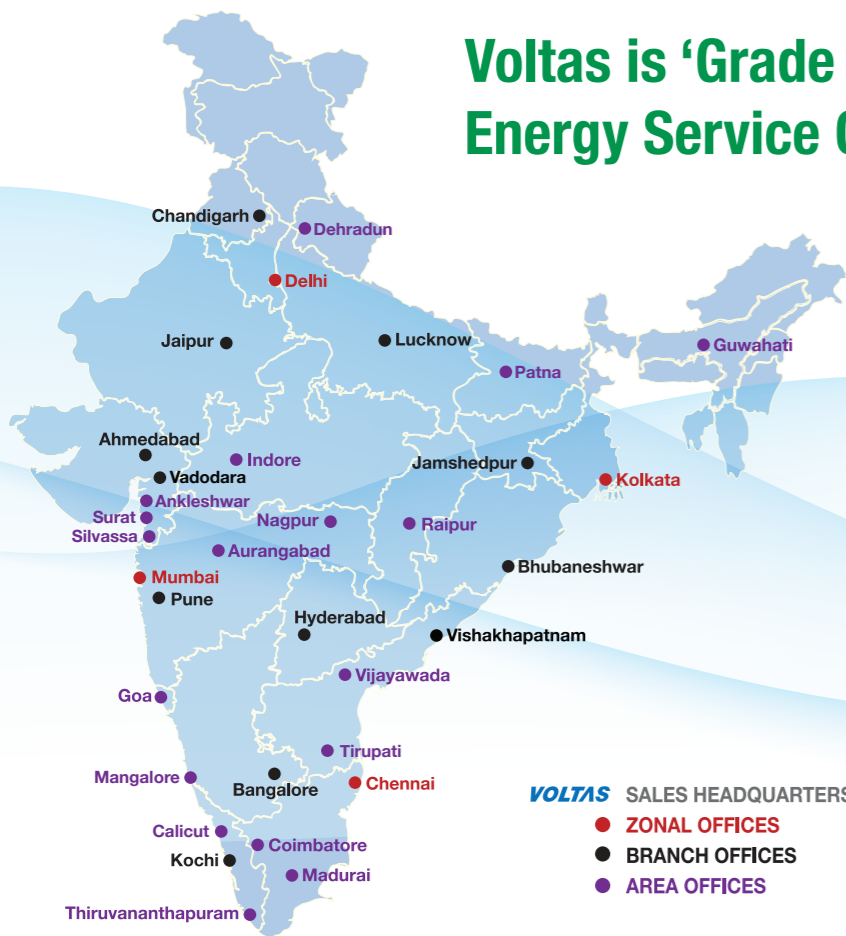


Digital Service Reports



24x7 Helpdesk

**Voltas is 'Grade 1'
Energy Service Company (ESCO)**



Voltas National Network
Easy Access • Quick Satisfaction

Customer Care
9100660100

MEP Services :

- Electro-mechanical Services
- HVAC
- Refrigeration

Water and Wastewater Management

Value Added Services

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India's Largest Air Conditioning Company



VOLTAS RESIDENTIAL AND LIGHT COMMERCIAL SYSTEMS

CASSETTES | TOWER | FREEMATCH Multi-Split



A NEW WAY TO THINK ABOUT AIR CONDITIONING



PROFILE

Voltas, a member of the Tata Group, is India's No.1 air conditioning company and one of the world's premier engineering solutions providers and project specialists.

Founded in India in 1954, Voltas Limited offers premier cooling and engineering solutions for a wide spectrum of industries in areas such as **heating, ventilation and air conditioning, refrigeration, electro-mechanical projects, textile machinery, mining and construction equipment, water management & treatment, cold chain solutions, building management systems, electrification and indoor air quality.**

The Company's strengths lies principally in:

- Management and execution of electro-mechanical projects, including air conditioning and refrigeration.
- Sourcing, installation and servicing of diverse technology-based systems serving Indian industry through representation of global technology leaders.

Organization

Voltas' operations have been organized into three independent business-specific clusters. Each of these has its own facilities for market coverage and service to customers.

Unitary Cooling Products

- Air Conditioners
- Commercial Refrigeration
- Water Coolers & Dispensers

Domestic Projects Group

- Electrical, Mechanical & Refrigeration Solutions
- Electrical & Mechanical Solutions (international)
- Electrical Projects Business - focusing on Rural Electrification (Distribution / Improvement)
- Water Management Business Division - Large Capacity STP (MLD), Effluent treatment, Rural Water Supply Scheme.
- Customer Care - Life Cycle Management through managed services.

Engineering Products and Services

- Textile Machinery
- Mining & Construction Equipment

Projects

Over the years, Voltas has built up a substantial reputation and is actively engaged in turnkey projects in fields such as electro-mechanical works comprising **HVAC, electrical systems for buildings, plumbing, fire fighting, ELV and specialized systems, building security and other Utilities, electrical power projects, environmental and water pollution control, pumping stations and water supply, and water and waste water treatment projects.**

The Company has ISO 9001 - 2008 standards certification in its projects businesses, and has successfully undertaken and executed prestigious high-value projects in the Middle East, Far East and South East Asia, CIS countries, Africa and India.

Manufacturing

With state-of-the-art Manufacturing facilities at Vadodara, Thane, Dadra and Pantnagar, Voltas possesses total capability in the manufacturing of **room air conditioners, commercial air-conditioning and refrigeration equipment, water coolers, commercial refrigerators, visicoolers** etc.

Also, we have forayed into home appliances segment under the new brand **Voltbek Home Appliances Pvt. Ltd.** by launching refrigerators, washing machines, microwave ovens and dishwashers with our new manufacturing unit coming up at Sanand, Gujrat.

Sales & service

Voltas' sales and service operations cover:

- in-house manufactured products, including air conditioning equipment and unitary cooling products
- Products of principals represented, including textile machinery and mining and construction equipment In all these sectors, the company demonstrates its specialised engineering expertise, as well as its extensive network for global sourcing.



A TATA Product

Presenting the new range of Voltas Cassette ACs.
Uniform Cooling & More Savings.



VOLTAS | Cassette AC

VOLTAS

Presenting the new range of Voltas Slimline ACs.
Powerful Cooling & Sleek Design.



VOLTAS | SLIMLINE AC

FIXED SPEED COOLING ONLY TOWER AC



Presenting the new range of Slimline Air Conditioners from Voltas with a unique wide angle air throw design which gives powerful cooling to cool large rooms. Moreover, its sleek & tall design helps to fit in small spaces. Additionally, it suits the style of your room interiors.

- INSTA COOL COMPRESSOR**
- BURST PROOF COMPRESSOR CAPACITOR**
- SILENT OPERATION**
- HYDROPHILIC BLUE FIN EVAPORATOR**
- WIDE ANGLE AIR THROW**
- INSTANT COOLING**

Technical Specification

DESCRIPTION	SET	Voltas FAC 241 CZMM(R32)	Voltas FAC 36 CZMM(R32)	Voltas FAC 48 CZMM(R32)
Rated Cooling Capacity	TR	2.0 TR	3.0 TR	4.0 TR
Rated Cooling Capacity	Watt	6200	10500	12800W
Star Rating		1	NA	NA
Rated Current- Cooling	Amps	8.7	6.7(Avg of all phase)	10.9(Avg of all phase)
Rated Power Input- Cooling	Watt	1968	3800	5950
Rated EER	W/W	3.15	NA	NA
Power Supply	V/Hz/Ph	230 / 50 / 1 Phase	415 / 50 / 3 Phase	415 / 50 / 3 Phase
Air Flow Volume - Indoor	CMH	1100	1700	1700
*Noise Level - Indoor	dB(A)	≤43	≤55	≤55
Operation		LCD Remote	LCD Remote	LCD Remote
Compressor Type		Rotary	Twin Rotary	Twin Rotary
Refrigerant Gas		R32	R32	R32
Indoor Unit Dimension (WxHxD)	cm	51x175x35.5	55x180x35	55x180x35
Indoor Unit Net / Gross Weight	Kg	38 / 49.5	50.5/60.6	50.5/60.6
Outdoor Unit Dimension (WxHxD)	cm	87x60x35.5	91.5x70x36	109.5x79.5x45
Outdoor Unit Net / Gross Weight	Kg	42/48	56.8/64	83.75/93.1
Connecting Pipe	type	Cu-Cu(5/8" & 1/4")	Cu-Cu(5/8" & 3/8")	Cu-Cu(3/4" & 3/8")

Note: Product design and innovation are a continuous process in VOLTAS and hence the above specifications are subject to change without notice.

FIXED SPEED - COOLING ONLY CASSETTE AC



Presenting the new Cassette Air Conditioners from Voltas with a unique 8 way air flow grill design which provides uniform cooling across the room with no hot spots. Additionally, it is powered with an Insta-Cool Compressor which gives instant cooling and more savings.

- INSTA COOL COMPRESSOR**
- FRESH AIR INTAKE**
- SILENT OPERATION**
- HYDROPHILIC BLUE FIN EVAPORATOR**
- COLD CATALYST FILTER***
- 8 WAY AIR FLOW GRILL DESIGN***

Technical Specification

DESCRIPTION	SET	Voltas CAS 182 CZAA(R32)	Voltas CAS 242 CZAA(R32)	Voltas CAS 241 CZAA(R32)	Voltas CAS 36 CZMM(R32)	Voltas CAS 48 CZMM(R32)
Capacity	TR	1.5 TR	2.0 TR	2.0 TR	3.0 TR	4.0 TR
Cooling Capacity (100%)	W	5200	6500	6050	10550	14100
Cooling Capacity (100%)	BTU/hr	17744	22179	22179	36000	48111
Star Rating		2	2	1	NA	NA
Power supply	V-Ph-Hz	230-1-50	230-1-50	230-1-50	415-3-50	415-3-50
Full Load Cooling Power (100%)	W	1571	1940	1920	3800	5700
Rated Current	A	6.9	8.5	8.4	6.7 (Avg. Per phase)	10.9 (Avg. Per phase)
Rated ISEER		3.1	3.3	3.35	3.15	NA
Compressor	Type	Rotary	Rotary	Rotary	Twin Rotary	Twin Rotary
Indoor air flow (Hi/Mi/Lo)	m3/h	1000/800/670	1300/1040/910	1100/900/670	1650/1450/1270	1650/1450/1270
Indoor noise level (Hi/Mi/Lo)	dB(A)	43/40/38	45/42/36	44/41/38	53/50/49	53/50/49
Operation		Wireless LCD Remote	Wireless LCD Remote	Wireless LCD Remote	Wireless LCD Remote	Wireless LCD Remote
IDU Dimension Unit (WxHxD)	cm	84x25x84	84x25x84	84x25x84	84x24.5x84	84x24.5x84
IDU Dimension Packing (WxHxD)	cm	91x31x91	91x31x91	91x31x91	90x25.7x90	90x25.7x90
IDU weight Net	kg	24.8	25	25	27.3	27.3
IDU weight Gross	kg	29.5	29	29.5	30.9	30.9
Grill Dimension Unit (WxHxD)	cm	95x4.5x95	95x4.5x95	95x4.5x95	95x5.5x95	95x5.5x95
Grill Dimension Packing (WxHxD)	cm	100x10x100	100x10x100	100x10x100	103.5x9x103.5	103.5x9x103.5
Grill weight Net	kg	5.4	5.4	5.4	5	5
Grill weight Gross	kg	7.9	7.9	7.9	7.6	7.6
Outdoor Coil (Number of row)		Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
Outdoor dimension Unit (WxHxD)	cm	83.5x55.5x29.5	87 X 60 X 35.5	87 X 60 X 35.5	91.5x70.5x36	109.5x79.5x45
Outdoor dimension Packing (WxHxD)	cm	92.0X60.5X35.5	95X65.5X41.5	95X65.5X41.5	95x73x38.5	111x90x47
Outdoor weight Net	kg	37.5	42	42	56.8	83.75
Outdoor weight Gross	kg	42.5	48	45.5	64	93.1
Refrigerant Type		R32	R32	R32	R32	R32
Inter connecting pipe Suction	cu	12.7mm	15.88mm	15.88mm	15.88mm	19.05mm
Inter connecting pipe Liquid	cu	6.35mm	6.35mm	6.35mm	9.52mm	9.52mm
Airflow		8 Way Airflow	8 Way Airflow	8 Way Airflow	360 degree air flow	360 degree air flow
Air Filter		Anti-Dust	Anti-Dust	Anti-Dust	Anti-Dust	Anti-Dust





Note: Product design and innovation are a continuous process in VOLTAS and hence the above specifications are subject to change without notice.

LIGHT COMMERCIAL INVERTER SERIES



INVERTER COOLING CASSETTE AC



-  **HIGH EFFICIENCY**
-  **POWER SAVINGS**
-  **COLD CATALYST FILTER***
-  **8 WAY AIR FLOW GRILL DESIGN***

Technical Specification

DESCRIPTION	SET	Voltas CAS 183V) CZMM (R32)	Voltas CAS 243V CZMM (R32)	Voltas CAS 36V CZMM (R32)	Voltas CAS 48V CZMM (R32)
Capacity-Cooling	TR	1.5 TR	2.0 TR	3.0 TR	4.0 TR
Star Rating		3	3	NA	NA
Capacity-Cooling	W	5280	6850	10500.0	12800.0
Power supply	V-Ph-Hz	230-1-50	230-1-50	415-3-50	415-3-50
Input Power-Cooling	W	1640	2230	4400	5950
Rated current-Cooling	A	7.3	9.8	6.0(Avg. Per phase)	8.5(Avg. Per phase)
Compressor	Type	Rotary BLDC	Rotary BLDC	Twin Rotary BLDC	Twin Rotary BLDC
Indoor air flow (Hi/Mi/Lo)	m3/h	1090/820/680	1300/1000/850	1945/1550/1365	1860/1450/1280
Indoor noise level (Hi/Mi/Lo)	dB(A)	46/40.5/37.5	46/40/37	55/49/46	55/49/45
Operation		Wireless LCD Remote	Wireless LCD Remote	Wireless LCD Remote	Wireless LCD Remote
IDU Dimension Unit (WxHxD)	cm	84x20.5x84	84x20.5x84	84x24.5x84	84x24.5x84
Packing (WxHxD)	cm	90x22.5x90	90x22.5x90	90x26.5x90	90x26.5x90
IDU weight Net	kg	22.6	22.6	25.4	27.7
IDU weight Gross	kg	27.3	27.3	30.5	32.7
Grill Dimension Unit (WxHxD)	cm	95x5.5x95	95x5.5x95	95x5.5x95	95x5.5x95
Grill Dimension Packing (WxHxD)	cm	103.5x9x103.5	103.5x9x103.5	103.5x9x103.5	103.5x9x103.5
Grill weight Net	kg	6	6	6.0	6.0
Grill weight Gross	kg	9.3	9	9	9
Outdoor Coil		Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
Outdoor dimension Unit (WxHxD)	cm	80.5x55.4x33	89x67.3x34.2	94.6x81x41	94.6x81x41
Outdoor dimension Packing (WxHxD)	cm	91.5x61.5x37	99.5x75x43.5	109x88.5x50	109x88.5x50
Outdoor weight Net	kg	29.5	38.2	66.9	72.4
Outdoor weight Gross	kg	32.2	44.6	71.5	77.2
Inter connecting pipe Suction	cu	12.7mm	15.88mm	15.88mm	19.05mm
Inter connecting pipe Liquid	cu	6.35mm	9.52mm	9.52mm	9.52mm
Refrigerant Type		R32	R32	R32	R32
Airflow		360 Airflow	360 Airflow	360 Airflow	360 Airflow
Air Filter		Anti-Dust	Anti-Dust	Anti-Dust	Anti-Dust

INVERTER HEATING COOLING CASSETTE AC



HIGH EFFICIENCY



POWER SAVINGS



COLD CATALYST FILTER*

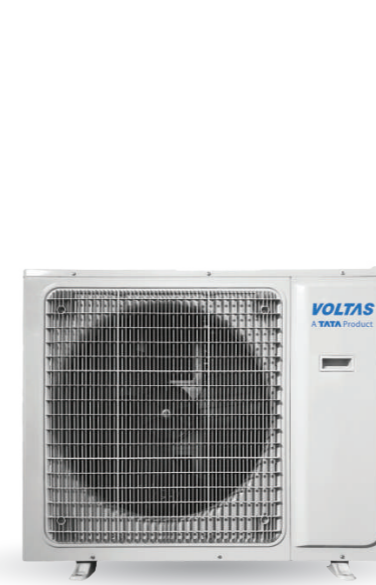


8 WAY AIR FLOW GRILL DESIGN*

Technical Specification

		OUTDOOR UNIT							
Description	Unit	VM2-H18/4DR3	VM3-H21/4DR3	VM3-H27/4DR3	VXV-H80/NR1	VXV-H100/NR1	VXV-H120/NR1	VXV-H140/NR1	
Capacity	TR	1.5 TR	1.8 TR	2.2 TR	2.5 TR	3.2 TR	3.5 TR	4.0 TR	
Cooling Capacity	KW	5.83	6.71	8.69	8	12.3	12.3	14	
Heating Capacity	KW	6.16	7.26	9.02	9	13.2	13.2	16	
Electrical Input Power Supply	V-Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	
Cooling Power Input	W	1750	1920	2460	2300	3250	3250	3950	
Heating Power Input	W	1540	1780	2270	2400	3410	3410	4050	
Rated Current (C & H)	Amp	7.6/6.7	8.3/7.8	10.7/9.8	18	24	24	24	
SEER/COP		7.07/4.08	6.57/4.38	6.30/4.04	3.75	3.87	3.87	3.95	
Compressor	Type	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	
	Quantity	1	1	1	1	1	1	1	
Fan motor	Type	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	
	Quantity	1	1	1	1	1	1	1	
Fan	Type	Axial	Axial	Axial	Axial	Axial	Axial	Axial	
	Quantity	1	1	1	1	1	1	2	
Sound Pressure	db (A)	55	56	58	56	57	57	57	
Unit Dimension Net (WxHxD)	mm	800x545x315	834x655x328	834x655x328	970x803x395	940x1320x340	940x1320x340	940x1320x340	
Unit Dimension Gross (WxHxD)	mm	920x620x400	945x725x435	945x725x435	1090x855x480	1080x1440x430	1080x1440x430	1080x1440x430	
Weight Net/Gross	kg	36/39	44/47	46/49	66/71	86/91	86/91	86/91	
Ambient condition Cooling	c	-10~52°C	-10~52°C	-10~52°C	-15~49°C	-15~49°C	-15~49°C	-15~49°C	
Ambient condition Heating	c	-15~24°C	-15~24°C	-15~24°C	-15~27°C	-15~27°C	-15~27°C	-15~27°C	
Refrigerant		R32	R32	R32	R 410	R 410	R 410	R 410	
Pipe Diameter Liquid Side	Inch (mm)	6.35(1/4)	6.35(1/4)	6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	
Pipe Diameter Gas Side	Inch (mm)	9.52(3/8)	9.52(3/8)	9.52(3/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	
		INDOOR UNIT							
Description	Unit	VMCA-H18/4R3AA	VMCA-H24/4R3AA	VMCA-H24/4R3AA	VXVCA-H090/4R1B	VXVCA -H112/4R1B	VXVCA-H125/4R1B	VXVCA-H140/4R1B	
Cooling Capacity	KW	5.6	8.20	8.20	9	11.2	12.5	14	
Heating Capacity	KW	7.0	9.30	9.30	11	12.8	13.3	15	
Input Power W	Watts	70	110	110	100	200	200	200	
Rated airflow (H/M/L)	CMH	700	1400	1400	1500	1800	1800	1800	
Sound Level (H/M/L)	db (A)	45	47	47	41	41	41	41	
Unit Dimension Net (WxDxH)	mm	570 x 570 x 260	840x840x246	840x840x246	835x835x250	835x835x290	835x835x290	835x835x290	
Pannel Net (WxDxH)	mm	650 x 650 x 55	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55	
Weight	kg	18	26	26	28	30	30	30	
Remote controller		Wireless remote controller RM-05							

MULTI-H1-WALL SPLIT AC (INVERTER H & C)



HIGH EFFICIENCY



POWER SAVINGS



COLD CATALYST FILTER*

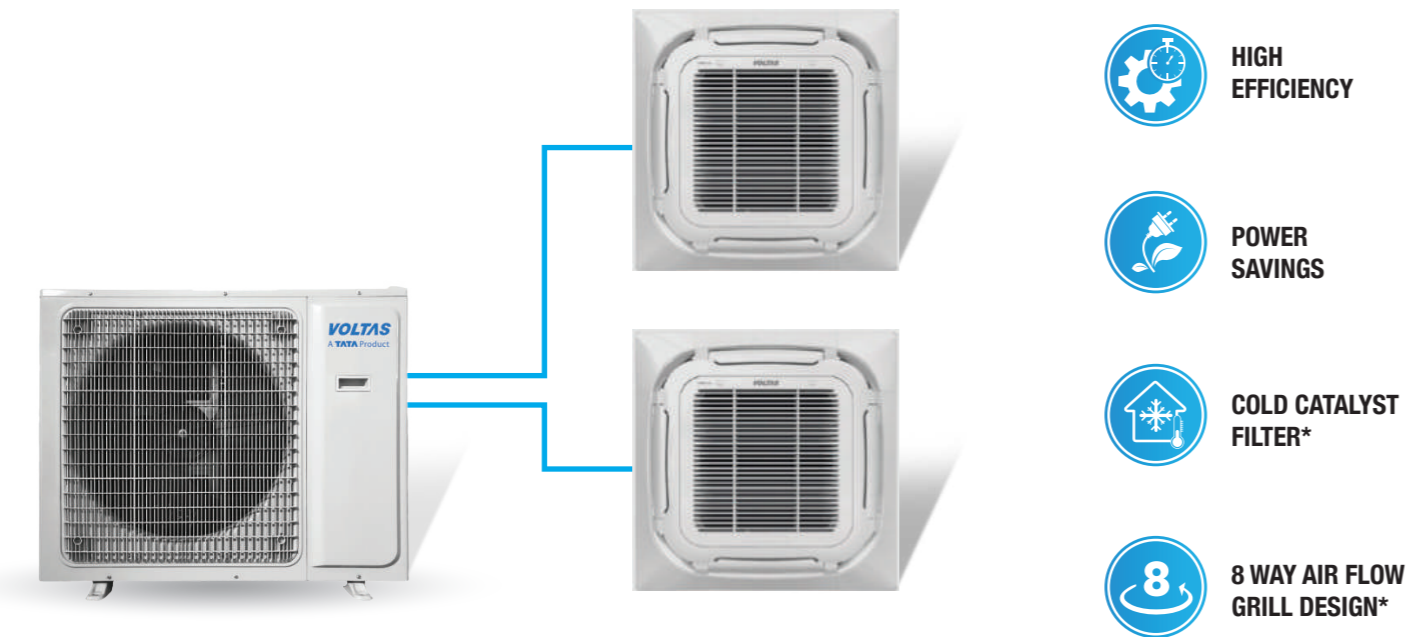


8 WAY AIR FLOW GRILL DESIGN*

Technical Specification

		OUTDOOR UNIT			
Product Description	Unit	VM3-H27/4DR3	VM4-H36/4DR3	VM5-H42/4DR3	
Capacity	Rated Tonnage	TR	2.2 TR	3 TR	
	Cooling Capacity	KW	8.69	11.2	
	Heating Capacity	KW	9.02	11	
Electrical Input Power	Power Supply	V-Hz,Ph	220-240,50,1	220-240,50,1	
	Cooling Power Input	W	2460	3950	
	Heating Power Input	W	2270	3150	
	Rated Current (Cool & Heat)	Amp	10.7/9.8	17.5/13.96	
SEER / COP		6.30/4.04	6.10/4.00	6.10/4.00	
Compressor	Type	Inverter Rotary	Inverter Rotary	Inverter Rotary	
	Quantity	1	1	1	
Fan motor	Type	DC Inverter	DC Inverter	DC Inverter	
	Quantity	1	1	1	
Fan	Type	Axial	Axial	Axial	
	Quantity	1	1	1	
Sound Pressure	db (A)	58	61	61	
Unit Dimension	Net (WxHxD)	mm	834x328x655	985x395x808	
	Gross (WxHxD)	mm	945x435x725	1105x495x895	
Weight	Net/Gross	kg	46/49	74/78	
	Cooling	c	-10~52°C	-10~52°C	
Ambient condition range	Heating	c	-15~24°C	-15~24°C	
	Refrigerant		R 32	R 32	
Pipe Diameter	Liquid Side	Inch (mm)	3x6.35(1/4)	3x6.35(1/4)	
	Gas Side	Inch (mm)	3x9.52(3/8)	3x9.52(3/8)	
		INDOOR UNIT			
Product Description	Unit	VMWM-H12/4R3(FV) X2	VMWM-H18/4R3(FV) X2	VMWM-H24/4R3(FV)X2	
Capacity	Cooling	KW	3.7	5.8	
	Heating	KW	3.7	5.8	
Input Power	W	40	63		
Rated airflow (H/M/L)	CMH	600	850		
Sound Level (H/M/L)	db (A)	42	45		
Unit Dimension	Net (WxDxH)	mm	750 x 285 x 200	900 x 310 x 225	
Pannel	Net (WxDxH)	mm	NA	NA	
Weight		kg	8	12	
Pipe Diameter	Liquid Side	Inch (mm)	6.35(1/4)	6.35(1/4)	
	Gas Side	Inch (mm)	9.52(3/8)	12.7(1/2)	
Remote controller		Wireless remote controller RM-05			

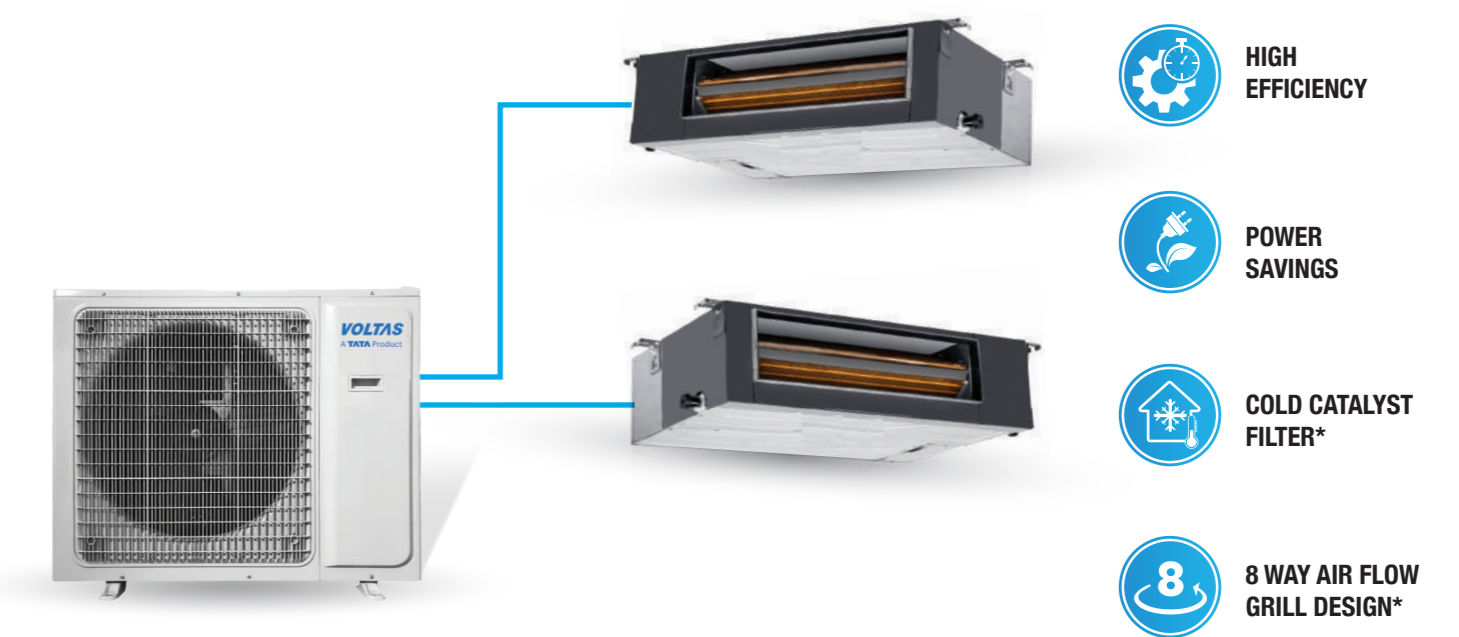
MULTI-CASSETTE AC (INVERTER H & C)



Technical Specification

		OUTDOOR UNIT			
Description		Unit	M3-H27/4DR3	VM4-H36/4DR3	VM5-H42/4DR3
Capacity	Rated Tonnage	TR	2.2	3	3.6
	Cooling Capacity	KW	6.71	11.2	12.7
	Heating Capacity	KW	7.26	11	13.1
Electrical Input Power	Power Supply	V-Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	W	1920	3950	4450
	Heating Power Input	W	1780	3150	3750
	Rated Current (Cool & Heat)	Amp	8.3/7.8	17.5/13.96	19.72/16.62
	SEER / COP		6.57/4.38	6.10/4.00	6.10/4.00
Compressor	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary
	Quantity		1	1	1
Fan motor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		1	1	1
Fan	Type		Axial	Axial	Axial
	Quantity		1	1	1
Sound Pressure		db (A)	58	61	61
Unit Dimension	Net (WxHxD)	mm	834x328x655	985x395x808	985x395x808
	Gross (WxHxD)	mm	945x435x725	1105x495x895	1105x495x895
Weight	Net/Gross	kg	46/49	74/78	75/79
	Cooling	c	-10~52°C	-10~52°C	-10~52°C
Ambient condition range	Heating	c	-15~24°C	-15~24°C	-15~24°C
Refrigerant			R 32	R 32	R 32
Pipe Diameter	Liquid Side	Inch (mm)	3x6.35(1/4)	3x6.35(1/4)	3x6.35(1/4)
	Gas Side	Inch (mm)	3x9.52(3/8)	3x9.52(3/8)	3x9.52(3/8)
		INDOOR UNIT			
Product Description		Unit	VMCA-H12/4R3AA x 2	VMCA-H18/4R3AA x 2	VMCA-H24/4R3AA x 2
Capacity	Cooling	KW	3.7	5.6	8.2
	Heating	KW	4.4	7	9.3
Input Power	W	W	70	70	110
Rated airflow (H/M/L)		CMH	700	700	1400
Sound Level (H/M/L)		db (A)	45	45	47
Unit Dimension	Net (WxDxH)	mm	570 x 570 x 260	570 x 570 x 260	840x840x246
Pannel	Net (WxDxH)	mm	650 x 650 x 55	650 x 650 x 55	950x950x55
Weight		kg	18	18	26
Pipe Diameter	Liquid Side	Inch (mm)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	Inch (mm)	12.7(1/2)	12.7(1/2)	15.88(5/8)
Remote controller			Wireless remote controller RM-05		

MULTI-SLIM DUCT AC (INVERTER H & C)



Technical Specification

		OUTDOOR UNIT			
Description		Unit	VM3-H27/4DR3	VM4-H36/4DR3	VM5-H42/4DR3
Capacity	Rated Tonnage	TR	2.2	3	3.6
	Cooling Capacity	KW	6.71	11.2	12.7
	Heating Capacity	KW	7.26	11	13.1
Electrical Input Power	Power Supply	V-Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	W	1920	3950	4450
	Heating Power Input	W	1780	3150	3750
	Rated Current(Cool & Heat)	Amp	8.3/7.8	17.5/13.96	19.72/16.62
	SEER / COP		6.57/4.38	6.10/4.00	6.10/4.00
Compressor	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary
	Quantity		1	1	1
Fan motor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		1	1	1
Fan	Type		Axial	Axial	Axial
	Quantity		1	1	1
Sound Pressure		db (A)	58	61	61
Unit Dimension	Net (WxHxD)	mm	834x328x655	985x395x808	985x395x808
	Gross (WxHxD)	mm	945x435x725	1105x495x895	1105x495x895
Weight	Net/Gross	kg	46/49	74/78	75/79
	Cooling	c	-10~52°C	-10~52°C	-10~52°C
Ambient condition range	Heating	c	-15~24°C	-15~24°C	-15~24°C
Refrigerant			R 32	R 32	R 32
Pipe Diameter	Liquid Side	Inch (mm)	3x6.35(1/4)	3x6.35(1/4)	3x6.35(1/4)
	Gas Side	Inch (mm)	3x9.52(3/8)	3x9.52(3/8)	3x9.52(3/8)
		INDOOR UNIT			
Product Description		Unit	VMSD-H12/4R3A X 2	VMSD-H18/4R3A X 2	VMSD-H24/4R3AA X2
Capacity	Cooling	KW	3.6	5.1	7.1
	Heating	KW	4	5.8	7.5
Input Power	W	W	55	75	90
Rated airflow (H/M/L)		CMH	680	860	1150
Sound Level (H/M/L)		db (A)	38	42	41
Unit Dimension	Net (WxDxH)	mm	700x470x200	1000x470x200	1300x470x200
Pannel	Net (WxDxH)	mm	NA	NA	NA
Weight		kg	18.5	24	29
Pipe Diameter	Liquid Side	Inch (mm)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	Inch (mm)	12.7(1/2)	12.7(1/2)	12.7(1/2)
Remote controller			Wireless remote controller RM-05		

INVERTER HEATING COOLING MEGA SPLIT AC



- REMOTE CONTROL**
- INTELLIGENT DEFROSTING**
- FAST COOLING HEATING**
- SLEEP MODE**
- DIGITAL TUBE DISPLAY**
- ANTI COLD AIR**

Technical Specification

OUTDOOR UNIT			
Description	Sub Category	Unit	VDV-V80W/DN1
Capacity	Rated Tonnage	TR	2.5
	Cooling	KW	7.2
	Heating	KW	7.2
Electrical Input Power	Power Supply	V-Hz,Ph	200-240/50-60/1
	Cooling Power Input	w	2350
	Heating Power Input	w	2460
	Rated Current (Cool & Heat)	Amp	18
Compressor	Type		Dc Inverter, Twin Rotary
	Quantity		1
Fan motor	Type		DC
	Quantity		1
Fan	Type		Axial
	Quantity		1
Sound Pressure		db (A)	56
Unit Dimension	Net (WxHxD)	mm	1075x966x396
	Gross (WxHxD)	mm	1120x1100x435
Weight	Net/Gross	kg	75.5/85.5
	Cooling	c	-5 to 50
Ambient condition range	Heating	c	-15 -27
	Refrigerant		R 410A
Pipe Diameter	Liquid Side	Inch(mm)	3/8 (9.52)
	Gas Side	Inch(mm)	5/8 (15.88)
INDOOR UNIT			
Description	Sub Category	Unit	VDV-D90G-R3/N1Y
Capacity	Cooling	KW	9
	Heating	KW	10
Input Power	W	W	82
Rated airflow (H/M/L)		CMH	1421/1067/867
Sound Level (H/M/L)		db (A)	48/43/36
Unit Dimension	Net (WxDxH)	mm	1194X343X262
Pannel	Net (WxDxH)	mm	NA
Weight		kg	17
Remote controller			Wireless remote controller

INVERTER COOLING ONLY MEGA SPLIT AC



Technical Specification

OUTDOOR UNIT			
Description	Sub Category	Unit	Voltas CU 303V ADZ-MAHA - 3 Star
Capacity	Rated Tonnage	TR	2.5
	Cooling	KW	8
	Heating	KW	NA
Electrical Input Power	Power Supply	V-Hz,Ph	230 / 50 / 1 Phase
	Cooling Power Input	w	2530
	Heating Power Input	w	NA
	Rated Current (Cool & Heat)	Amp	15
Compressor	Type		High EER Twin Rotary - BLDC
	Quantity		1
Fan motor	Type		DC
	Quantity		1
Fan	Type		Axial
	Quantity		1
Sound Pressure		db (A)	51
Unit Dimension	Net (WxHxD)	mm	915x705x360
	Gross (WxHxD)	mm	
Weight	Net/Gross	kg	43.5/49.6
	Cooling	c	-5 to 50
Ambient condition range	Heating	c	NA
	Refrigerant		R32
Pipe Diameter	Liquid Side Inch (mm)	3/8 (9.52)	3/8 (9.52)
	Gas Side Inch (mm)	5/8 (15.88)	5/8 (15.88)
INDOOR UNIT			
Description	Sub Category	Unit	Voltas EU 303V ADZ-MAHA
Capacity	Cooling	KW	8
	Heating	KW	NA
Input Power	W	W	2530
Rated airflow (H/M/L)		CMH	1400/1330/1200/1100
Sound Level (H/M/L)		db (A)	(51)49/46/44
Unit Dimension	Net (WxDxH)	mm	1100x330x250
Pannel	Net (WxDxH)	mm	NA
Weight		kg	13.7
Remote controller			Wireless LCD Remote

FIXED SPEED COOLING ONLY MEGA SPLIT AC

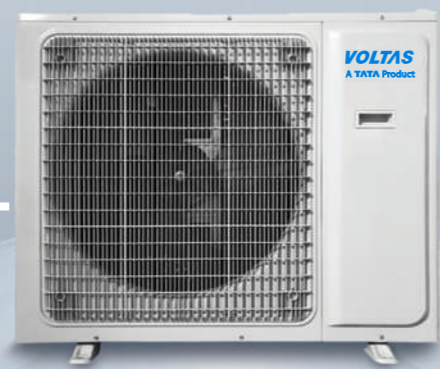


Technical Specification

OUTDOOR UNIT			
Description	Sub Category	Unit	Voltas CU 36 CZV Mega HW(R32)
Capacity	Rated Tonnage	TR	3.0
	Cooling	KW	9.96
	Heating	KW	NA
Electrical Input Power	Power Supply	V-Hz,Ph	415 / 50 / 3
	Cooling Power Input	w	3450
	Heating Power Input	w	NA
	Rated Current (Cool & Heat)	Amp	6.5 (Avg of all phase)
Compressor	Type		Twin Rotary
	Quantity		1
Fan motor	Type		DC
	Quantity		
Fan	Type		Axial
	Quantity		1
Sound Pressure		db (A)	52
Unit Dimension	Net (WxHxD)	mm	915x700x360
	Gross (WxHxD)	mm	
Weight	Net/Gross	kg	56.8/ 64
	Cooling	c	-5 to 52
Ambient condition range	Heating	c	NA
	Refrigerant		R32
Pipe Diameter	Liquid Side Inch (mm)	3/8 (9.52)	3/8 (9.52)
	Gas Side Inch (mm)	5/8 (15.88)	5/8 (15.88)
INDOOR UNIT			
Description	Sub Category	Unit	Voltas EU 36 CZV Mega HW(R32)
Capacity	Cooling	KW	9.96
	Heating	KW	NA
Input Power	W	W	3450
Rated airflow (H/M/L)		CMH	1450/1380/1200/1000
Sound Level (H/M/L)		db (A)	52/48/43/40
Unit Dimension	Net (WxDxH)	mm	1260x360x280
Pannel	Net (WxDxH)	mm	NA
Weight		kg	21.75
Remote controller			Wireless LCD Remote

INVERTER FREE MATCH Multi Split

- 52° HIGH AMBIENT COOLING
- 5D TECHNOLOGY
- FAST COOLING & HEATING
- ECO-FRIENDLY REFRIGERANT
- ADJUSTABLE MODE
- FIRE PROOF ELECTRIC BOX



- F** Free your space - more comfort
- R** Refrigerants that are Green (R-32)
- E** Energy Efficient System - Savings on your energy bills
- E** Extra Capacity
- M** Many Indoor Single Outdoor
- A** All DC Drive - 5D Technology
- T** Temperature Precision
- C** Cooling Mode
- H** Heating Mode

FREE MATCH COMBINATION SCHEME

FREE MATCH Series provides ideal airconditioning solution for households. The Systems allow one outdoor unit to be connected up to a wide variety of 2, 3, 4 or 5 indoor units including Wall Mounted, Ducted and Cassette. The Units are silent, sleek, have good asthetics and blend easily into any type of false ceiling - an architect's delight.

Inverter Free Match Outdoor	Suggested Combination
1.2 TR 1 drive 2 VM2-H14/4DR3	Two wall-mounted indoor units.
1.5 TR 1 drive 2 VM2-H18/4DR3	Two wall-mounted indoor units.
1.8 TR 1 drive 3 VM3-H21/4DR3	Two wall-mounted indoor units and one ducted indoor unit.
2.2 TR 1 drive 3 VM3-H27/4DR3	Two wall-mounted indoor units and one ducted indoor unit.
3.0 TR 1 drive 4 VM4-H36/4DR3	Two wall-mounted indoor units, one ducted indoor unit, and one cassette indoor unit.
3.5 TR 1 drive 5 VM5-H42/4DR3	Two wall-mounted indoor units, two ducted indoor units, and one cassette indoor unit.

Note : The Suggested Combinations are subject to site conditions and user can freely match available type and capacity of Indoor unit based on the capacity of Outdoor Unit, please contact our Sales Engineering Person for further details

INVERTER FREE-MATCH OUTDOOR AC



Technical Specification

OUTDOOR UNIT					
Product Description	Unit	1 Drive 2	1 Drive 2	1 Drive 3	
Model No.		VM2-H14/4DR3	VM2-H18/4DR3	VM3-H21/4DR3	
Capacity	Rated Tonnage	TR	1.1 TR	1.5 TR	1.8 TR
	Cooling Capacity	KW	4.51	5.83	6.71
	Heating Capacity	KW	5.28	6.16	7.26
Electrical Input Power	Power Supply	V-Hz,Ph	200-240/50/1	200-240/50/1	200-240/50/1
	Cooling Power Input	W	1240	1750	1920
	Heating Power Input	W	1150	1540	1780
	Rated Current (Cool & Heat)	Amp	5.4/5	7.6/6.7	8.3/7.8
	SEER / COP		6.16 / 4.14	7.08/4.06	6.16/4.09
	Air Flow Volume	m3/h	2300	2300	3100
Performance	Sound Pressure	db (A)	54	55	56
	Net (WxDxH)	mm	800x315x545	800x315x545	834x328x655
Weight	Net	kg	34	36	44
	Ambient condition range				
Refrigerant	Cooling	c	-10 -52	-10 -52	-10 -52
	Heating	c	-15 -24	-15 -24	-15 -24
Pipe Diameter					
	Liquid Side	Inch(mm)	1/4 (6.35) x 2	1/4 (6.35) x 2	1/4 (6.35) x 3
	Gas Side	Inch(mm)	3/8 (9.52) x 2	3/8 (9.52) x 2	3/8 (9.52) x 3
Max.Pipe Length Between IDU to ODU	m	25	25	30	
Max.Height Difference Between IDU to ODU	m	15	15	15	

OUTDOOR UNIT					
Product Description	Unit	1 Drive 3	1 Drive 4	1 Drive 5	
Model No.		VM3-H27/4DR3	VM4-H36/4DR3	VM5-H42/4DR3	
Capacity	Rated Tonnage	TR	2.2 TR	3 TR	3.5 TR
	Cooling Capacity	KW	8.69	11	12.7
	Heating Capacity	KW	9.02	11.2	13.1
Electrical Input Power	Power Supply	V-Hz,Ph	200-240/50/1	200-240/50/1	200-240/50/1
	Cooling Power Input	W	2460	3950	4450
	Heating Power Input	W	2270	3150	3750
	Rated Current (Cool & Heat)	Amp	10.7/9.8	17.5/13.96	19.72/16.62
	SEER / COP		6.29/4.04	6.14/4.19	6.13/4.26
	Air Flow Volume	m3/h	3100	4000	4200
Performance	Sound Pressure	db (A)	58	61	61
	Net (WxDxH)	mm	834x328x655	985x395x808	985x395x808
Weight	Net	kg	46	74	75
	Ambient condition range				
Refrigerant	Cooling	c	-10 -52	-10 -52	-10 -52
	Heating	c	-15 -24	-15 -24	-15 -24
Pipe Diameter					
	Liquid Side	Inch (mm)	1/4 (6.35) x 3	1/4 (6.35) x 4	1/4 (6.35) x 4
	Gas Side	Inch (mm)	3/8 (9.52) x 3	3/8 (9.52) x 4	3/8 (9.52) x 4
Max.Pipe Length Between IDU to ODU	m	30	35	35	
Max.Height Difference Between IDU to ODU	m	15	15	15	

- Notes :**
- Cooling Capacity: Indoor temperature 27°C DB/19°C WB; Outdoor temperature: 35°C DB/24°C WB.
 - Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/6°C WB.
 - Piping Length: Equivalent piping length: 7.5m level difference: 0m.
 - Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
 - Anechoic chamber conversion value, measured in test room. During actual operation, These values are normally somewhat higher as a result of ambient conditions.
 - The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.

INDOOR UNITS



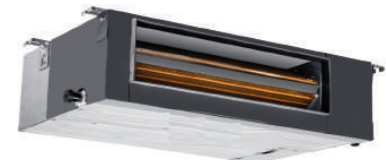
Technical Specification of Hi-Wall Split AC

Model No.	Sub Category	Unit	VMWM-09/4R3(FA)	VMWM-12/4R3(FA)	VMWM-18/4R3(FA)	VMWM-24/4R3(FA)
Capacity	Cooling	KW	0.9	1.1	1.6	2.1
	Heating	KW	0.9	1.1	1.6	2.3
Electrical Input Power	Power Supply	V-Hz,Ph	200-240/50/1	200-240/50/1	200-240/50/1	200-240/50/1
	Cooling Power Input	W	40	40	63	63
	Heating Power Input	W	40	40	63	63
Performance	Air Flow Volume	m3/h	600/480/370	600/480/370	850/680/680	1150/950/750
	Sound Pressure	db (A)	40/38/34	40/38/34	45/42/35	49/42/35
Unit Dimension	Net (WxDxH)	mm	750x285x200	750x285x200	900x310x225	1085x330x233
Weight	Net	kg	7.5	8	12	15
	Liquid Side	Inch (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Pipe Diameter	Gas Side	Inch (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (15.88)
	Drainage	mm	16.5	16.5	16.5	16.5



Technical Specification of Cassette Type AC

Model No.	Sub Category	Unit	VMCA-09/4R3AA	VMCA-12/4R3AA	VMCA-18/4R3AA	VMCA-H24/4R3AA
Capacity	Cooling	TR	1	1.1	1.6	2.3
	Heating	TR	1.1	1.3	2	2.6
Electrical Input Power	Power Supply	V-Hz,Ph	200-240/50/1	200-240/50/1	200-240/50/1	200-240/50/1
	Cooling Power Input	W	70	70	70	110
	Heating Power Input	W	70	70	70	110
Performance	Air Flow Volume	m3/h	700/600/530	700/600/530	700/600/530	1400/1350/1150
	Sound Pressure	db (A)	45/41/35	45/41/35	45/41/35	47/45/42
Unit Dimension	Net Body (WxDxH)	mm	570x570x260	570x570x260	570x570x260	840x840x246
	Net Pannel (WxDxH)	kg	650x650x55	650x650x55	650x650x55	950x950x55
Weight	Net Body	kg	18	18	18	26
	Net Pannel	kg	2.2	2.2	2.2	5.3
Pipe Diameter	Liquid Side	Inch (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Gas Side	Inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)
	Drainage	mm	20	20	20	20



Technical Specification of Slim Duct Type AC

Model No.	Sub Category	Unit	VMSD-H09/4R3A	VMSD-H12/4R3A	VMSD-H18/4R3A	VMSD-H24/4R3AA
Capacity	Cooling	TR	0.8	1.03	1.6	2
	Heating	TR	0.86	1.2	1.7	2.13
Electrical Input Power	Power Supply	V-Hz,Ph	200-240/50/1	200-240/50/1	200-240/50/1	220-240,50,1
	Cooling Power Input	W	59	65	91	90
	Heating Power Input	W	59	65	91	90
Performance	Air Flow Volume	m3/h	480/390/320	560/430/390	850/680/575	676/518/459
	Sound Pressure	db (A)	30/26/23	32/28/25	38/35/32	41/38/36
Unit Dimension	Net (WxDxH)	mm	840x460x185	840x460x185	1160x460x185	1300x470x200
Weight	Net	kg	15.5	20	20	29
	Liquid Side	Inch (mm)	3/8 (9.52)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Pipe Diameter	Gas Side	Inch (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Drainage	Inch (mm)	3/4(20)	3/4(20)	3/4(20)	16.5

- Notes :**
- Cooling Capacity: Indoor temperature 27°C DB/19°C WB; Outdoor temperature: 35°C DB/24°C WB.
 - Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/6°C WB.
 - Piping Length: Equivalent piping length: 7.5m level difference: 0m.
 - Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
 - Anechoic chamber conversion value, measured in test room. During actual operation, These values are normally somewhat higher as a result of ambient conditions.
 - The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.