

The Voltas VRF System

VV8X Eco Series

With World's Largest Single System Capacity



Outdoor Units - Upto 102 HP
Single Largest Module up to 34 HP

PROFILE

Voltas Limited is a premier air conditioning and engineering solutions provider and a Projects specialist. Founded in India in 1954, Voltas Limited is part of the Tata Group, with products ranging from Air Conditioners, Air Coolers, Air Purifiers, Water Dispensers, Water Coolers, to Commercial Refrigeration products. The company also offers engineering solutions for a wide spectrum of industries in areas such as heating, ventilation and air conditioning, refrigeration, electromechanical projects, electrification, textile machinery, mining and construction equipment, water management & treatment, cold chain solutions, building management systems, and indoor air quality. The Company has also launched its range of Voltas Beko Home Appliances, through its new JV in India, in equal partnership with Arcelik.

Voltas is one of the leading companies within the Tata group and is the undisputed market leader in room air conditioners in India with the largest category distribution network of dealers spread across the country. With state of the art manufacturing facilities at Vadodara and Panthnagar, Voltas possesses end to end capability in manufacturing of room and commercial air conditioners, refrigeration equipment, water coolers including commercial refrigerators and many more products in the air conditioning domain. Our products are futuristically designed and energy efficient for the ever-evolving smart consumer and supported by a highly responsive post sales service network. Founded by Jamsetji Tata in 1868, the Tata group is a global enterprise, headquartered in India, comprising 30 companies across ten verticals. The group operates in more than 100 countries across six continents, with a mission 'To improve the quality of life of the communities we serve globally, through long-term stakeholder value creation based on Leadership with Trust'. In 2020-21, the revenue of Tata companies, taken together, was \$103 billion (INR 7.7 trillion).

VV8X Eco Series

Voltas presents latest VV8X Eco Series VRF system with world's largest single system capacity and All DC inverter drives.

High efficiency EVI compressor

The enhanced vapour injection DC inverter compressor in the VV8X Eco Series increases refrigerant circulation and improves cooling capacity by more than 10%.

Lower pressure drop, lower noise

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

Double Back up Operation

Compressor Backup - If one compressor fails, the other compressor can handle the load upto 4 days without affecting the comfort.
Unit Backup - In a multi-unit system, if one module fails, the other modules provide backup to keep the system running.

Wide Operation range

The VV8X VRF can operate stably in a wide ambient temperature range from -5°C to 55°C in cooling mode and from -30°C to 30°C in heating mode.

Industry highest Single module

Starting at 8HP, single largest module goes upto 34HP with capacity increments of 2HP.

Precise temperature control

Double electronic expansion valve arrangement can achieve upto 960 steps refrigerant flow control to get the best refrigerant distribution effect.

Anti-corrosion protection

All the major parts of ODU like Fan motor, Screws/bolts/gaskets, Sheet metal frame, Heat exchanger, Control box case are given anti-corrosion treatment as standard and it can also be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air.

High efficiency G-type Heat exchanger

26-34HP units have a high efficiency 3-row G-type heat exchanger with a heat exchange area 1.5 times that of the 24HP unit. The 26-34HP units also have a super big size fan which has diameter is up to 750mm.

Wide capacity range

VV8X modular series outdoors can be combined freely upto 102 HP with maximum 3 modules in single circuit.



DLF - Belaire, Gurgaon

Mindtree, Hyderabad

Ackruti VIVA, Mumbai



VV8X Eco Series MODULAR SERIES - Specifications



8-20HP



22-28HP



30-38HP



Upto 68HP



Upto 102HP

HP			8	10	12	14
Model			VV8X-252WV2GN1(ECO)	VV8X-280WV2GN1(ECO)	VV8X-335WV2GN1(ECO)	VV8X-400WV2GN1(ECO)
Power supply		V/Ph/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86.0	95.5	114.3	136.5
Heating ²	Capacity	kW	27	31.5	37.5	45
		kBtu/h	92.1	107.5	128.0	153.5
Connected indoor unit	Total capacity		50-130%			
	Maximum Quantity		13	16	19	23
Compressors	Type		DC inverter			
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
	Static pressure	Pa	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)
	Airflow rate	m ³ /h	12600	12600	13500	14400
Refrigerant	Type		R410A			
	Factory charge	kg	7	7	7	7
Pipe connections ³	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Sound pressure level ⁴		dB(A)	56	57	59	59
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1005×1945×890
Net weight		kg	195	195	197	197
Gross weight		kg	213	213	215	215
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22
Model			VV8X-450WV2GN1(ECO)	VV8X-500WV2GN1(ECO)	VV8X-560WV2GN1(ECO)	VV8X-615WV2GN1(ECO)
Power supply		V/Ph/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	45	50	56	61.5
		kBtu/h	153.5	170.6	191.1	209.8
Heating ²	Capacity	kW	50	56	63	69
		kBtu/h	170.6	191.1	215.0	235.4
Connected indoor unit	Total capacity		50-130%			
	Maximum Quantity		26	29	33	36
Compressors	Type		DC inverter			
	Quantity		1	1	1	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	2
	Static pressure	Pa	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)
	Airflow rate	m ³ /h	15600	15600	16500	22000
Refrigerant	Type		R410A			
	Factory charge	kg	8	8	8.4	9.3
Pipe connctions ³	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Sound pressure level ⁴		dB(A)	59	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1405×1945×890
Net weight		kg	213	213	215	295
Gross weight		kg	230	230	232	315
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

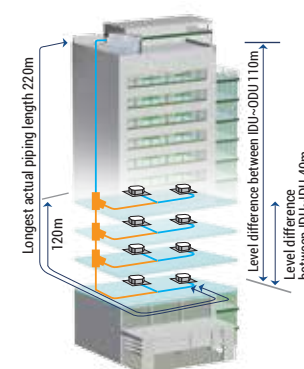
Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VV8X Eco Series MODULAR SERIES - Specifications

Long Piping Length

- Total piping length: 1100m
- Longest piping length – actual (equivalent): 220m (260m)
- Longest piping length after first branch: 40/120*m
- Level difference between IDUs and ODU – ODU above (below): 110m (110m)
- Level difference between IDUs: 40m



*The longest length after first branch is 40m as standard but can be extended to up to 120m under certain conditions.
Please contact your local Voltas dealer for further information.

HP			24	26	28	30
Model			VV8X-670WV2GN1(ECO)	VV8X-730WV2GN1(ECO)	VV8X-785WV2GN1(ECO)	VV8X-850WV2GN1(ECO)
Power supply		V/Ph/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	67	73	78.5	85
		kBtu/h	228.6	249.1	267.9	290.0
Heating ²	Capacity	kW	75	81.5	87.5	95
		kBtu/h	255.9	278.1	298.6	324.2
Connected indoor unit	Total capacity		50-130%			
	Maximum Quantity		39	43	46	50
Compressors	Type		DC inverter			
	Quantity		2	2	2	2
Fan motors	Type		DC			
	Quantity		2	2	2	2
	Static pressure	Pa	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)
	Airflow rate	m ³ /h	22000	21500	21500	29000
Refrigerant	Type		R410A			
	Factory charge	kg	9.3	12	12	19
Pipe connections ³	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ22.2
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.8
Sound pressure level ⁴		dB(A)	62	62	62	63
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1405×1945×890	1405×1945×890	1405×1945×890	1945×1945×890
Net weight		kg	295	315	315	373
Gross weight		kg	315	335	335	403
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			32	34
Model			VV8X-900WV2GN1(ECO)	VV8X-950WV2GN1(ECO)
Power supply		V/Ph/Hz	380-415/3/50	
Cooling ¹	Capacity	kW	90	95.2
		kBtu/h	307.1	324.8
Heating ²	Capacity	kW	100	106
		kBtu/h	341.2	361.7
Connected indoor unit	Total capacity		50-130%	
	Maximum Quantity		53	56
Compressors	Type		DC inverter	
	Quantity		2	2
Fan motors	Type		DC	
	Quantity		2	2
	Static pressure	Pa	0-20 (default); 20-80 (customized)	0-20 (default); 20-80 (customized)
	Airflow rate	m ³ /h	28000	28000
Refrigerant	Type		R410A	
	Factory charge	kg	21	21
Pipe connections ³	Liquid pipe	mm	Φ22.2	Φ22.2
	Gas pipe	mm	Φ34.9	Φ34.9
Sound pressure level ⁴		dB(A)	64	64
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1945×1945×890	1945×1945×890
Net weight		kg	405	405
Gross weight		kg	435	435
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

INDOOR UNITS

One Way Cassette Unit



Model		VDV-D18Q1/N1-D	VDV-D22Q1/N1-D	VDV-D28Q1/N1-D	VDV-D36Q1/N1-D	VDV-D45Q1/N1-C	VDV-D56Q1/N1-C	VDV-D71Q1/N1-C
Cooling capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
Power Input	W	41	41	41	41	80	85	86
Rated airflow (H/M/L)	CMH	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503	860/810/702	936/750/594
Sound level (H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36	44/41/37
Dimension	Unit	mm	1054×169×425	1054×169×425	1054×169×425	1147×200×640	1147×200×640	1147×200×640
(W×HxD)	Panel	mm	1180×25×465	1180×25×465	1180×25×465	1425×10×755	1425×10×755	1425×10×755
Weight - Unit/Panel	kg	12.5/3.5	12.5/3.5	13.0/3.5	13.0/3.5	31.5/9.0	31.5/9.0	31.5/9.0
Remote controller		Wireless remote controller RM05						

Two Way Cassette Unit



Model		VDV-D22Q2/N1	VDV-D28Q2/N1	VDV-D36Q2/N1	VDV-D45Q2/N1	VDV-D56Q2/N1	VDV-D71Q2/N1
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kW	2.6	3.2	4.0	5.0	6.3	8.0
Power Input	W	57	57	60	92	108	154
Rated airflow (H/M/L)	CMH	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1200/1000/770
Sound level (H/M/L)	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Dimension	Unit	mm	1172×299×591	1172×299×591	1172×299×591	1172×299×591	1172×299×591
(W×HxD)	Panel	mm	1430×53×680	1430×53×680	1430×53×680	1430×53×680	1430×53×680
Weight - Unit/Panel	kg	34.0/10.5	34.0/10.5	34.0/10.5	36.0/10.5	36.0/10.5	36.0/10.5
Remote controller		Wireless remote controller RM05					

Four Way Compact Cassette Unit



Model		VDV-D22Q4/N1-A3	VDV-D28Q4/N1-A3	VDV-D36Q4/N1-A3	VDV-D45Q4/N1-A3
Cooling capacity	kW	2.2	2.8	3.6	4.5
Heating capacity	kW	2.6	3.2	4.0	5.0
Power Input	W	50	50	56	56
Rated airflow (H/M/L)	CMH	522/414/312	522/414/312	610/521/409	610/521/409
Sound level (H/M/L)	dB(A)	36/33/23	36/33/23	42/36/29	42/36/29
Dimension	Unit	mm	570×260×570	570×260×570	570×260×570
(W×HxD)	Panel	mm	647×50×647	647×50×647	647×50×647
Weight - Unit/Panel	kg	16.0/2.4	16.0/2.4	16.0/2.4	16.0/2.4
Remote controller		Wireless remote controller RM05			

Note:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB

Refrigerant piping length measured for the liquid side is 8m & Height difference is 0m.

DB - dry bulb, WB - wet bulb

INDOOR UNITS

Four Way Standard Cassette Unit



Auto Restart



Follow Me



In-Built Drain Pump



Fresh Air



Anti Cold-Air Function



LED Display



Auto Addressing



Cleanable Filter



Super High Air Flow

Model			VDV-D56Q4/N1-D	VDV-D71Q4/N1-D	VDV-D80Q4/N1-D	VDV-D90Q4/N1-D	VDV-D100Q4/N1-D	VDV-D112Q4/N1-D	VDV-D140Q4/N1-D
Cooling capacity	kW		5.6	7.1	8.0	9.0	10.0	11.2	14.0
Heating capacity	kW		6.3	8.0	9.0	10.0	11.1	12.05	15.0
Power Input	W		75	82	97	160	160	160	170
Rated airflow (H/M/L)	CMH		1121/864/755	1385/1157/955	1431/1236/973	1758/1540/1300	1758/1540/1300	1758/1540/1300	1843/1800/1500
Sound level (H/M/L)	dB(A)		42/38/35	45/42/39	45/42/39	48/45/43	48/45/43	48/45/43	50/47/44
Dimension	Unit	mm	904×230×840	904×230×840	904×230×840	904×300×840	904×300×840	904×300×840	904×300×840
	Panel	mm	950×55×950	950×55×950	950×55×950	950×55×950	950×55×950	950×55×950	950×55×950
Weight - Unit/Panel	kg		26.0/6.0	26.0/6.0	26.0/6.0	32.0/6.0	32.0/6.0	32.0/6.0	32.0/6.0
Remote controller			Wireless remote controller RM05						

Wall Mounted Unit - M Series



Auto Restart



Auto Addressing



Anti Cold-Air Function



Cleanable Panel



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LED Display

Model			VDV-D28G/N1-M	VDV-D36G/N1-M	VDV-D45G/N1-M	VDV-D56G/N1-M	VDV-D71G/N1-M	VDV-D80G/N1-M	VDV-D90G/N1-M
Cooling capacity	kW		2.8	3.6	4.5	5.6	7.1	8.0	9.0
Heating capacity	kW		3.2	4.0	5.0	6.3	8.0	9.0	10.0
Power input	W		9	9	19	27	49	53	82
Rated airflow (H/M/L)	CMH		417/370/316	656/573/488	594/507/424	747/648/547	1195/1005/809	1195/1005/809	1421/1067/867
Sound level (H/M/L)	dB(A)		31/30/29	33/32/30	35/33/31	38/36/34	44/39/36	44/39/36	48/43/38
Unit Dimension	mm		835x280x203	990x315x223	990x315x223	990x315x223	1194x343x262	1194x343x262	1194x343x262
Unit Weight	kg		9.5	11.4	12.8	12.8	17.0	17.0	17.0
Remote controller			Wireless remote controller RM-05						

Note:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB

Refrigerant piping length measured for the liquid side is 8m & Height difference is 0m.

DB - dry bulb, WB - wet bulb

INDOOR UNITS

Medium Static Pressure Ductable Unit



Auto Restart



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In-Built Drain Pump



Connectable To Duct



Anti Cold-Air Function



Super High Air Flow



Auto Addressing



Wired Controller

Model		VDV-D22T2/N1-DA5	VDV-D28T2/N1-DA5	VDV-D36T2/N1-DA5	VDV-D45T2/N1-DA5	VDV-D56T2/N1-DA5
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	kW	2.6	3.2	4.0	5.6	6.3
Power Input	W	57	57	61	98	103
Rated airflow (H/M/L)	CMH	540/456/378	540/456/378	600/516/432	810/684/576	810/684/576
Sound level (H/M/L)	dB(A)	36/35/32	37/35/32	39/38/34	39/38/34	39/38/34
Unit Dimension	mm	740×210×500	740×210×500	740×210×500	960×210×500	960×210×500
ESP	Pa	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)
Unit Weight	kg	17.5	17.5	17.5	22.5	22.5
Remote controller		Wired remote controller KJR-12B				

Model		VDV-D71T2/N1-DA5	VDV-D80T2/N1-BA5	VDV-D90T2/N1-BA5	VDV-D112T2/N1-BA5	VDV-D140T2/N1-BA5
Cooling capacity	kW	7.1	8.0	9.0	11.2	14.0
Heating capacity	kW	8.0	9.0	10.0	12.5	16.0
Power Input	W	140	198	200	213	274
Rated airflow (H/M/L)	CMH	1032/936/780	1224/1020/864	1224/1020/864	1782/1548/1350	1950/1602/1398
Sound level (H/M/L)	dB(A)	41/39/35	45/40/37	45/40/37	47/41/37	47/42/38
Unit Dimension	mm	1180×210×500	1230×270×710	1230×270×710	1230×270×775	1290×300×865
ESP	Pa	10(10-30)	20(10-50)	20(10-50)	40(10-80)	40(10-100)
Unit Weight	kg	28.0	38.0	40.0	40.0	49.0/58.0
Remote controller		Wired remote controller KJR-12B				

High Static Pressure Ductable Unit



Auto Restart



Auto Addressing



Anti Cold-Air Function



Connectable To Duct



Follow Me



Wired Controller

Model		VDV-D71T1/N1-B	VDV-D80T1/N1-B	VDV-D90T1/N1-B	VDV-D112T1/N1-B	VDV-D140T1/N1-B	VDV-D160T1/N1-B
Cooling capacity	kW	7.1	8.0	9.0	11.2	14.0	16.0
Heating capacity	kW	8.0	9.0	10.0	12.5	16.0	17.0
Power Input	W	263	263	423	524	724	940
Rated airflow (H/M/L)	CMH	1443/1361/1218	1443/1338/1220	1951/1741/1518	2116/1936/1520	3000/2618/2226	3620/3044/2744
Sound level (H/M/L)	dB(A)	48/46/44	48/46/44	52/49/47	52/49/47	53/50/48	54/52/50
Unit Dimension	mm	952×420×690	952×420×690	952×420×690	952×420×690	1300×420×691	1300×420×691
ESP	Pa	25(25-196)	37(37-196)	37(37-196)	50(50-196)	50(50-196)	50(50-196)
Unit Weight	kg	45.0	45.0	46.5	50.6	68.0	70.0
Remote controller		Wired remote controller KJR-29B					

Model		ACDEU55CZGR410V	VDV-D200T1/N1-B	VDV-D250T1/N1-B	ACDEU85CZGR410V	VDV-D280T1/N1-B	ACDEU110CZGR410V
Cooling capacity	kW	19.3	20.0	25.0	28.0	28.0	39.0
Heating capacity	kW	21.5	22.5	26.0	31.5	31.5	43.0
Power Input	W	900	1516	1516	1250	1516	1700
Rated airflow (H/M/L)	CMH	3740/3553/3366	4700/4100/3599	4700/4100/3599	4000/3200/2600	4700/4100/3599	7480/7106/6732
Sound level (H/M/L)	dB(A)	51/49/48	59/57/52	59/57/52	52/50/49	59/57/52	53/51/49
Unit Dimension	mm	1228×665×404	1443×470×810	1443×470×810	1350×700×460	1443×470×810	1820×780×475
ESP	Pa	196	200(50-280)	200(50-280)	200	200(50-280)	280
Unit Weight	kg	65	115.0	115.0	91	115.0	110
Remote controller		Wired remote controller KJR-29B					

Model		VDV-D400T1/N1	VDV-D450T1/N1	VDV-D560T1/N1	ACDEU170CZGR410V
Cooling capacity	kW	40.0	45.0	56.0	56.0
Heating capacity	kW	45.0	50.0	63.0	61.5
Power Input	W	2700	2700	3400	2500
Rated airflow (H/M/L)	CMH	7476/6072/4995	7476/6072/4995	9550/7950/6600	11220/10659/10098
Sound level (H/M/L)	dB(A)	61/59/56	61/59/56	63/60/57	53/51/49
Unit Dimension	mm	1970×668×903	1970×668×903	1970×668×903	2150×825×520
ESP	Pa	200(50-280)	200(50-280)	200(50-280)	280
Unit Weight	kg	232.0	232.0	235.0	180
Remote controller		Wired remote controller KJR-29B			

Note:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB

Refrigerant piping length measured for the liquid side is 8m & Height difference is 0m.

DB - dry bulb, WB - wet bulb

INDOOR UNITS

Floor Standing Units


Auto Restart

LED Display

Auto Addressing

Follow Me

Anti Cold-Air Function

Cleanable Filter

Model		VDV-D22Z/N1-F3B	VDV-D28Z/N1-F3B	VDV-D36Z/N1-F3B	VDV-D45Z/N1-F3B	VDV-D56Z/N1-F3B	VDV-D71Z/N1-F3B	VDV-D80Z/N1-F3B
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
Heating capacity	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
Power Input	W	40	46	46	49	88	130	130
Rated airflow (H/M/L)	CMH	530/456/400	570/485/420	624/522/375	660/540/440	1150/970/830	1380/1100/870	1380/1100/870
Sound level (H/M/L)	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Unit Dimension	mm	840×545×212	840×545×212	1040×545×212	1040×545×212	1440×545×212	1440×545×212	1440×545×212
Unit Weight	kg	25.0	25.0	27.0	27.0	33.0	33.0	33.0
Remote controller		Wireless remote controller RM-05						

Ceiling and Floor Units


Auto Restart

LED Display

Auto Addressing

Follow Me

Anti Cold-Air Function

Cleanable Filter

Model		VDV-D36DL/N1-C	VDV-D45DL/N1-C	VDV-D56DL/N1-C	VDV-D71DL/N1-C	VDV-D80DL/N1-C
Cooling capacity	kW	3.6	4.5	5.6	7.1	8.0
Heating capacity	kW	4.0	5.0	6.3	8.0	9.0
Power Input	W	49	120	122	125	130
Rated airflow (H/M/L)	CMH	650/570/500	800/600/500	800/600/500	800/600/500	1200/900/700
Sound level (H/M/L)	dB(A)	40/38/36	43/41/38	43/41/38	43/41/38	45/43/40
Unit Dimension	mm	990×203×660	990×203×660	990×203×660	990×203×660	1280×203×660
Unit Weight	kg	26.0	28.0	28.0	28.0	34.5
Remote controller		Wireless remote controller RM-05				

Model		VDV-D90DL/N1-C	VDV-D112DL/N1-C	VDV-D140DL/N1-C	VDV-D160DL/N1-C
Cooling capacity	kW	9.0	11.2	14.0	16.0
Heating capacity	kW	10.0	12.5	15.0	18.0
Power Input	W	130	182	182	300
Rated airflow (H/M/L)	CMH	1200/900/702	1980/1860/1730	1980/1860/1730	1980/1860/1730
Sound level (H/M/L)	dB(A)	45/43/40	47/45/42	47/45/42	47/45/42
Unit Dimension	mm	1280×203×660	1670×244×680	1670×244×680	1670×285×680
Unit Weight	kg	34.5	54.0	54.0	57.5
Remote controller		Wireless remote controller RM-05			

Fresh Air Processing Unit


Auto Restart

Connectable To Duct

Auto Addressing

Follow Me

Anti Cold-Air Function

Wired Controller

Model		VDV-D125T1/N1-FA	VDV-D140T1/N1-FA	VDV-D200T1/N1-FA	VDV-D250T1/N1-FA	VDV-D280T1/N1-FA
Cooling capacity	kW	12.5	14.0	20.0	25.0	28.0
Heating capacity	kW	10.5	12.0	18.0	20.0	22.0
Power Input	W	430	430	1063	1063	1063
Rated airflow (H/M/L)	CMH	2142/1870/1611	2142/1870/1611	2870/2620/2150	3005/2700/2250	3005/2700/2250
ESP	Pa	50(50-196)	50(50-196)	200(50-280)	200(50-280)	200(50-280)
Sound level (H/M/L)	dB(A)	54/52/20	54/52/50	54/53/51	55/54/52	55/54/52
Unit Dimension	mm	1300×420×690	1300×420×690	1443×470×810	1443×470×810	1443×470×810
Unit Weight	kg	69.5	69.5	115.0	115.0	115.0
Remote controller		Wired remote controller KJR-29B				

Note:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB

Refrigerant piping length measured for the liquid side is 8m & Height difference is 0m.

DB - dry bulb, WB - wet bulb

VENTILATION SYSTEMS

Heat Recovery Ventilation Unit



Auto Restart



Connectable To Duct



Auto Addressing



Follow Me



Anti Cold-Air Function



Wired Controller

Model		HRV-200	HRV-300	HRV-400	HRV-500	HRV-800	HRV-1000	HRV-1500	HRV-2000
Power Supply (V/Ph/Hz)		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Cooling Exchange Eff.	%	55-60	55-60	55-60	55-60	55-60	55-60	55	55
Heating Exchange Eff.	%	60-65	60-65	60-65	60-65	60-65	60-65	65	65
Input Power	W	20	40	80	120	360	360	450	450
Rated airflow (H/M/L)	CMH	200/200/150	300/300/225	400/400/300	500/500/375	800/800/600	1000/1000/750	1500	2000
ESP (H/M/L)	Pa	75/58/35	75/60/40	80/65/43	80/68/45	100/82/54	100/85/58	160	160
Sound level (Heat Ex.)	dB(A)	27/26/20	30/29/23	32/31/25	35/34/28	39/38/32	40/39/33	51	51
Sound level (Bypass)	dB(A)	28/27/22	31/30/25	33/32/27	36/35/27	40/39/34	41/40/35	52	54
Unit Dimension	mm	866×655×264	944×722×270	944×927×270	1038×1026×270	1286×1006×388	1286×1256×388	1600×1270×540	1650×1470×540
Unit Weight	kg	23.0	26.0	31.0	41.0	62	79	163	182
Remote controller	Wireless remote controller RM-05								

ACCESSORIES AND CONTROL SYSTEM

Cordless Remote (RM-05)



- Easy to Read Display with Backlight
- Unit Address Setting
- Mode selection - Auto, Cool, Dry, Heat, Fan only
- Temperature setting range - 17°C to 30°C
- Daily Timer setting
- Louver AUTO-Swing
- Fan speed control - High/Medium/Low/Auto
- Economic operation button

Wired Remote

(KJR-12B)



- Easy to Read Display with Backlight
- Unit Address Setting
- Mode selection - Auto, Cool, Dry, Heat, Fan only
- Temperature setting - 17°C to 30°C

(KJR-29B)



- Daily Timer setting
- Louver AUTO-Swing
- Fan speed control - High/Medium/Low/Auto
- Economic operation button
- Follow me Function

Central Remote Controller for IDU (CCM-30)



- Touch-style key centralized controller
- Clear & bright LCD display screen with Backlight
- Controls & Monitor Individual or Group of Indoor Units
- Mode selection: Auto, Cool, Dry, Heat, Fan only
- Temperature setting range: 17° to 30°C
- Daily Timer setting
- Louver AUTO-Swing
- Fan speed control: High/Medium/Low/Auto
- Economic operation button
- Memory function: It can record the Indoor Unit parameters
- Emergency ON/OFF control with simple dry contact input

Central Remote Controller for IDU (CCM-09)



- Weekly schedule timer centralized controller
- Clear & bright LCD display screen with Backlight
- Controls & Monitor Individual or Group of Indoor Units
- Mode selection: Auto, Cool, Dry, Heat, Fan only
- Temperature setting range: 17° to 30°C
- Daily Timer setting
- Louver AUTO-Swing
- Fan speed control: High/Medium/Low/Auto
- Economic operation button
- Memory function: It can record the Indoor Unit parameters
- Emergency ON/OFF control with simple dry contact input

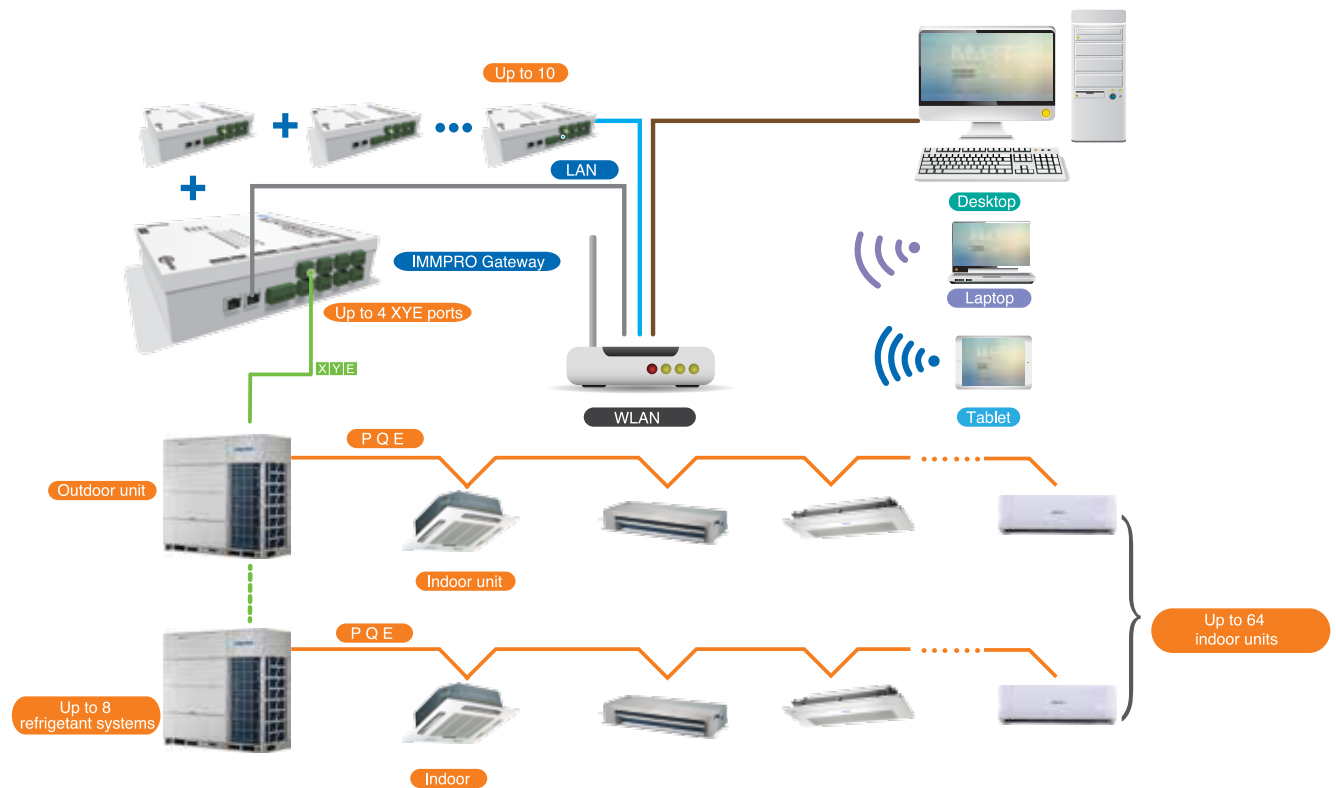
ACCESSORIES AND CONTROL SYSTEM

Touch Screen Centralised Controller (CCM-180A/WS & CCM-270A/WS)

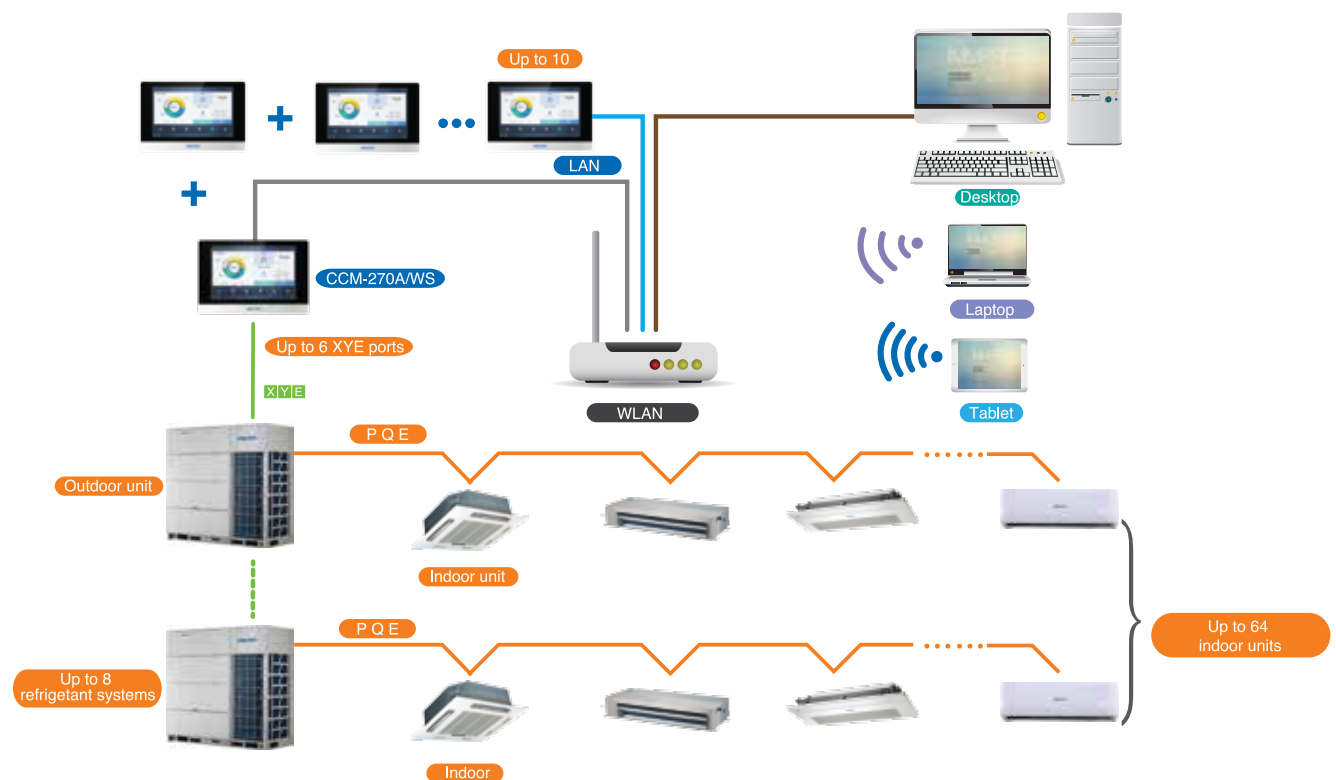
Model		
	CCM-180A/WS	CCM-270A/WS
Max. number of indoor units	64	384
Max. number of outdoor units	32	192
Max. number of refrigerant systems	8	48
Touch screen	● (6.2-inch)	● (10.1-inch)
On / Off	●	●
Mode selection	●	●
Temperature settings	●	●
Auto swing	●	●
Room temperature display	—	●
Outdoor unit Eco mode setting	●	●
Holiday setting	●	●
°C/°F display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Extension function	●	—
Daylight saving time	●	—
Electricity charge distribution	—	●
Visual schematic	—	●
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	—
USB output	Error report	Error report, operation record and electricity consumption report
Report display		
Email output	—	●
Operation log	—	●
LAN access	—	●
languages supported	English	English
Dimensions (W H D) (mm)	181x124x30	270 183 27
Power supply	12V DC	24V AC

ACCESSORIES AND CONTROL SYSTEM

Network Control system (IMMP-M)



Network Control system (CCM-270A/WS)



ACCESSORIES AND CONTROL SYSTEM

BMS Gateway Modbus



GW-MOD

- Supports MODBUS Protocol BMS networks
- TCP/IP or RTU
- Data transfer in RTU mode
- Max 64 IDUs, 4 ODUs and 1 refrigerant system can be controlled

BMS Gateway Modbus

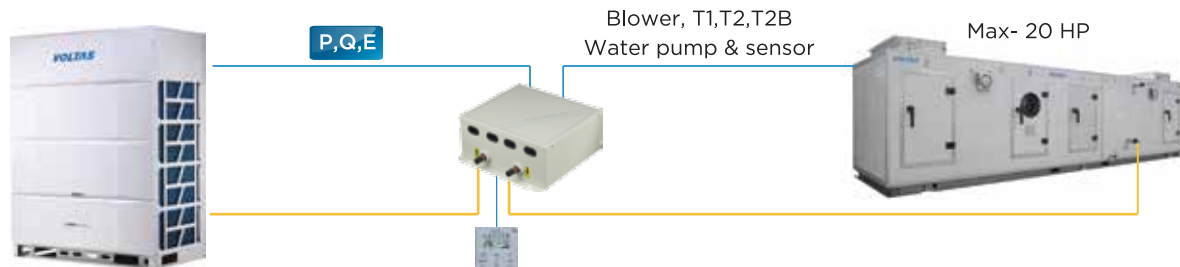


GW-BAC

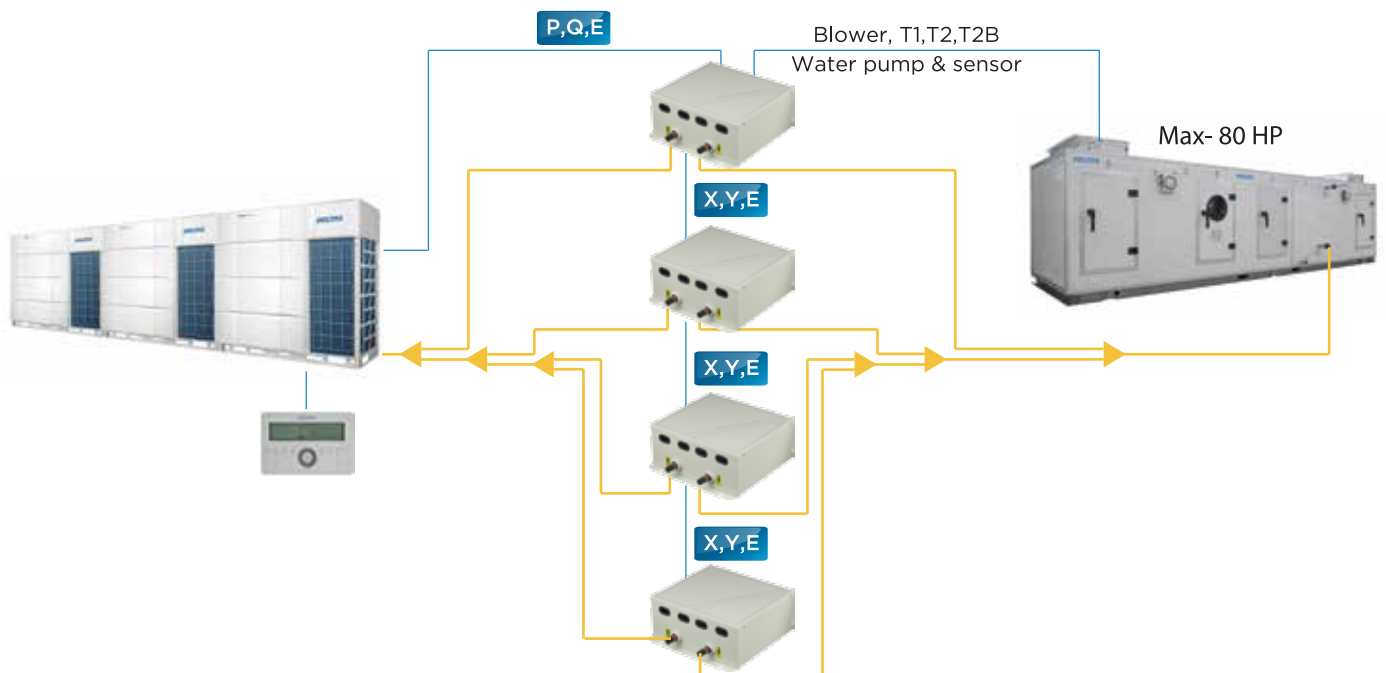
- Supports BACnet® Protocol BMS network
- Gateway connected to Master unit's XYE ports directly
- Upto 256 devices (IDUs+ODUs) and 32 refrigerant systems can be controlled
- Web access through IMMP-BAC and BACnet® BMS access though GW-BAC

VRF AHU CONTROL BOX

Single AHU Control Box Connection



Multi AHU Control Boxes Connection



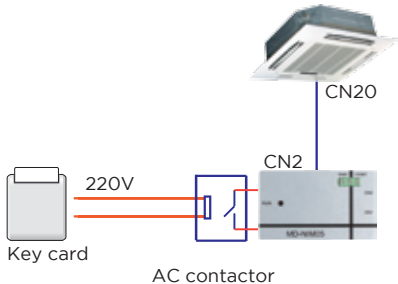
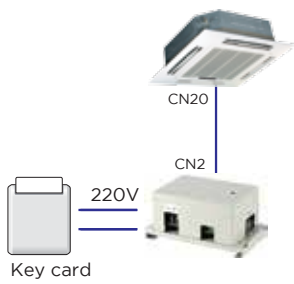
Specifications

Model		AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Capacity	HP	3.2-6	8-12	14-20
Power supply		1 phase, 208-230V, 60Hz		
Refrigerant		R410A		
Pipe connections (inlet and outlet)	mm	Ø8	Ø12.7	Ø15.9
Net dimensions (W×H×D)	mm	350×150×375		
Packed dimensions (W×H×D)	mm	420×240×490		
Net weight	kg	8.4	8.7	8.9
Gross weight	kg	11.4	11.7	11.9
Operating modes		Cooling, heating and fan only		
Standard controller		Wired controller		
Optional controller		Wireless remote controller; SIEMENS controller		

INDOOR UNITS

Full Integration

The Hotel Key Card Interface Modules enable power supply to indoor units to be integrated with hotel key card power supply management systems, which are designed to save energy by only running appliances whilst guests are present in their room.

Model	MD-NIM05/E	MD-NIM05B/E
Appearance		
Network flexibility		
Auto restart	●	●
Compatibility	Remote and wired controller	Remote and wired controller
Dimensions (H×W×D) (mm)	15.5×86×72.8	87×150×70
Power supply	5V DC (Supplied by indoor unit)	1 phase, 100-240V, 50/60Hz

Note: The Hotel Key Card Interface Modules only compatible while using the infrared communication ports of wired Controllers.

Voltas Customer Care Life Cycle Support

Through MANAGED Services



Remote Monitoring



Digital Service Reports



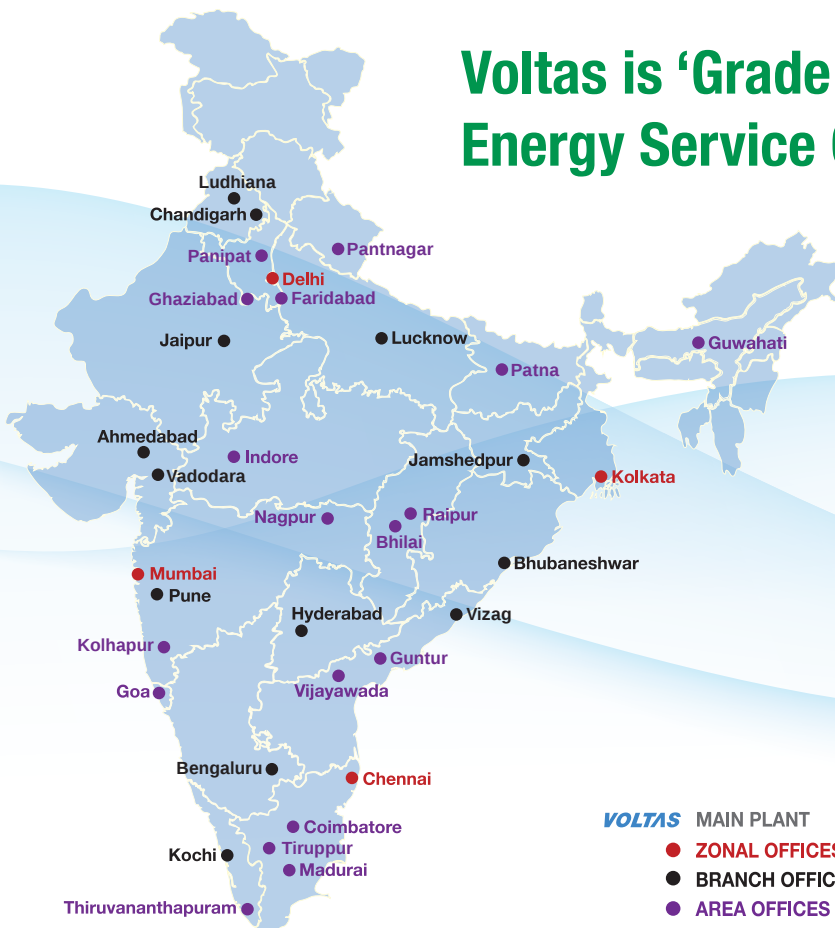
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