

A **TATA** Product

VOLTAS



VOLTAS INVERTER SCROLL CHILLERS

**Air Cooled and Water Cooled Series
with R410a green refrigerant**



ABOUT VOLTAS

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 Pantnagar, 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).



WELCOME TO THE WORLD OF COMMERCIAL AC



Voltas has always been synonymous with cooling in India. Our commercial products are known for being the best in category.

Our range of commercial air conditioners are always evolving to surpass customer and environmental standards. Our extensive range of products and services ensures that no matter the cooling requirement for your business, we have the solution.

OUR RANGE OF COMMERCIAL AC

Chiller | VRF | Ducted and Package AC

Light commercial (Cassette, Tower, Freematch and MultiMax)

INVERTER COMPRESSOR



- New range of Scroll Chiller has Inverter Scroll compressor equipped with Intermediate Discharge Valve (IDV), Variable Frequency Drive, Permanent Magnet Motor.
- As per the load requirement these components regulate the capacity of the system.
- Reduce on-off cycle of fix speed compressor, thereby enhancing the overall life of chillers.

Star labelling Efficiency Norms

Star Rating Criteria for Air Cooled Chillers						
Cappacity (TR)	100% COP for BEE rating	ISEER COP				
		1 star	2 star	3 star	4 star	5 star
< 74	2.4	3	3.3	3.6	4	4.4
75 & Above	2.6	3.1	3.5	3.9	4.3	4.7

Star labelling Efficiency Norms

Star Rating Criteria for Water Cooled Chillers						
Capacity (TR)	100% COP for BEE rating	ISEER COP				
		1 star	2 star	3 star	4 star	5 star
< 74	4.2	4.8	5.2	5.6	6.1	6.6
75 & Above	4.7	5.0	5.6	6.2	6.8	7.4

Capacity Modulations:

Multiple compressors are used in most of the models, with independent refrigerant circuits. The microprocessor controller ensures that only the required number of compressors will operate during part load conditions, thereby saving power.

Anti-Corrosion Condenser Fin Coatings:

Anti-corrosion coating on condenser coils which enhanced the Product Life.

Eco-Friendly Refrigerant:

The Inverter Scroll Chillers are designed with Zero ODP R410a refrigerant.

Silent Operations:

The new range of Inverter Scroll Chillers use high efficiency Scroll Compressors. The Condenser fans are designed for low noise levels.

Easy to Install:

The Chillers are pre-wired, fully charged and run tested at the factory, saving installation and start up time.

Microprocessor Based Controller:

Start / Stop & Control through Local mode. Remote Start / Stop through digital input connected through cables. 4.3" TFT Touch Screen Display. Touch Screen provides user friendly interface with graphical display.

Equalization of Compressor Run Time:

The Microprocessor controller ensures equal running of compressors in multiple compressor units. This ensures longer life of compressors.

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Safety Protections:

1. Oil Return Management
2. Oil Injection Control
3. Current Monitoring and Overload Protection
4. Integrated mains & Motor phase loss Protection
5. Reverse Rotation Protection
6. Short cycling protection: Less Start, Stops.
7. Compressor Start-up Logic.
8. Compressor Safe Stop.



Technical Data of Air Cooled Inverter Scroll Chiller

Description	ACDVS012	ACDVS024	ACDVS036	ACDVS048	ACDVS060	ACDVS072
Nominal Cooling Capacity (TR)	12	24	36	48	60	72
No of circuit	1	2	3	2	3	3
Refrigerant	R410a					
Compressor Type	Hermetically Sealed Compressor					
Compressor Motor Type	Refrigerant Cooled, 3Ph, 2 Pole Squirrel Cage Induction Motor					
Condenser						
Tube Material	Copper					
Fin Material	Aluminum					
Quantity of Condenser	1	2	2	4	4	4
Quantity of Fan	1	2	2	4	4	4
Speed	910					
Total CFM	11,000	22,000	26,000	42,000	44,000	48,00
Evaporator	Shell & Tube DX					
Tube Material	Copper					
Water Flow Rate (LPS)	2	4	6	8	10	12
Water Nozzel Size NB (mm)	65	65	80	100	100	125
No of Refrigerant Circuit	1	2	3	2	3	3
Overall Dimensions (mm)						
Length	2500	2535	2535	2625	2625	2625
Width	650	1270	1270	2236	2236	2236
Height	1400	2340	2340	2340	2400	2440
Power Supply	400V (+/- 10%) , 3Ph, 50 Hz					

Technical Data of Water Cooled Inverter Scroll Chiller

Description	ACWCDVS013	ACWCDVS026	ACWCDVS039	ACWCDVS052	ACWCDVS064	ACWCDVS078
Nominal Cooling Capacity (TR)	13	26	39	52	64	78
No of circuit	1	2	3	2	3	3
Refrigerant	R410a					
Compressor Type	Hermetically Sealed Compressor					
Compressor Motor Type	Refrigerant Cooled, 3Ph, 2 Pole Squirrel Cage Induction Motor					
Condenser	Shell & Tube					
Tube Material	Copper					
Quantity of Condenser	1	2	3	2	3	3
Water Flow Rate (LPS)	2.7	5.3	8	10.6	13	16
Water Nozzle Size NB (mm)	40	40	40	50	50	50
Evaporator	Shell & Tube DX					
Tube Material	Copper					
Water Flow Rate (LPS)	2.2	4.4	6.5	8.8	10.8	13
Water Nozzle Size NB (mm)	50	65	80	100	100	125
No of Refrigerant Circuit	1	2	3	2	3	3
Overall Dimensions (mm)						
Length	2500	2550	2650	2700	2650	2600
Width	650	1000	1150	1150	1250	1350
Height	1400	1750	1660	2120	1810	2300
Power Supply	400V (+/- 10%) , 3Ph, 50 Hz					

EFFICIENCY MEETS PERFORMANCE



ENERGY EFFICIENT WATER COOLED SCREW CHILLERS



ENERGY EFFICIENT AIR COOLED SCREW CHILLERS



AIR COOLED SCROLL CHILLERS



WATER COOLED SCROLL CHILLERS



MALLS



HOTELS



INDUSTRIAL



METRO

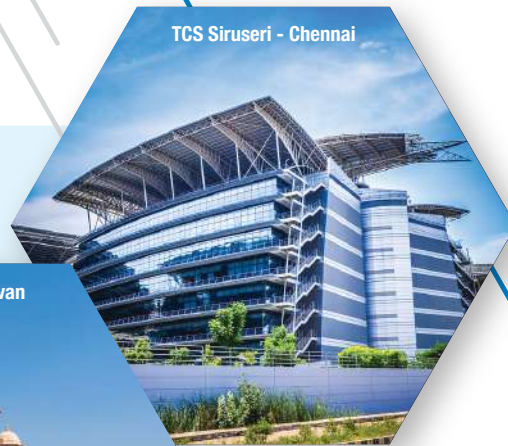


AIRPORTS



HOSPITALS

Providing the most efficient and reliable after sales service solutions



Voltas service solutions are offered throughout India for more than 1 million TR of HVAC equipment across Commercial, Industrial and Urban Infrastructure segments.



Voltas Customer Care

VOLTAS Customer Care

LIFE CYCLE SUPPORT

Through MANAGED Services



Remote Monitoring



Digital Service Reports



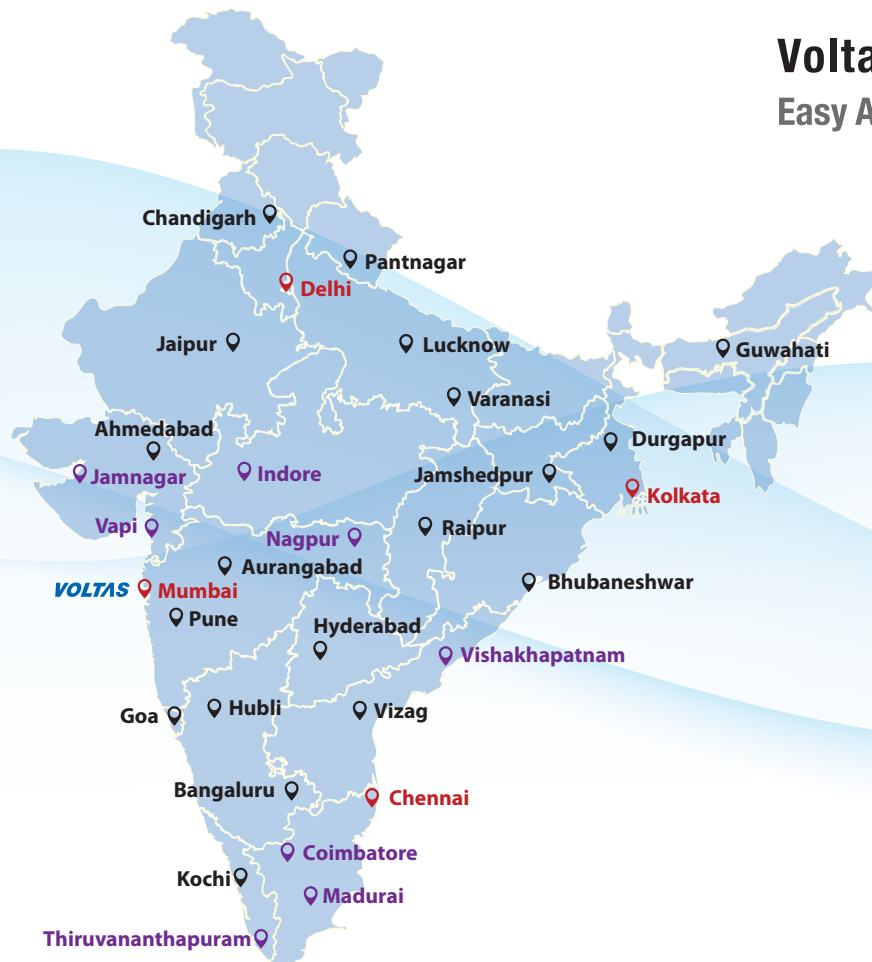
24x7 Helpdesk

ONE-STOP- SOLUTION FOR LIFECYCLE MANAGEMENT OF YOUR COOLING EQUIPMENT

- We have the widest service network in the country
- Our expertise lies in HVAC equipment and the product life cycle management will be less when we provide cost effective annual maintenance contracts
- We are brand agnostic and offer solutions for maintaining any Chillers
- We also assist to modify, revamp or upgrade your old HVAC system - We are there for you
- We provide IOT for large HVAC system in industrial, commercial and retail applications
- We improve indoor air quality (IAQ)

CUSTOMER CARE

Voltas National Network Easy Access • Quick Satisfaction



CUSTOMER CARE
9100660100



HVAC



Refrigeration



Electro-mechanical Services



Energy Management Services

VOLTAS MAIN PLANT SALES HEADQUARTERS

📍 ZONAL OFFICES 📍 BRANCH OFFICES 📍 AREA OFFICES

VOLTAS

A **TATA** Product

CUSTOMER CARE SUPPORT

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