

A **TATA** Product

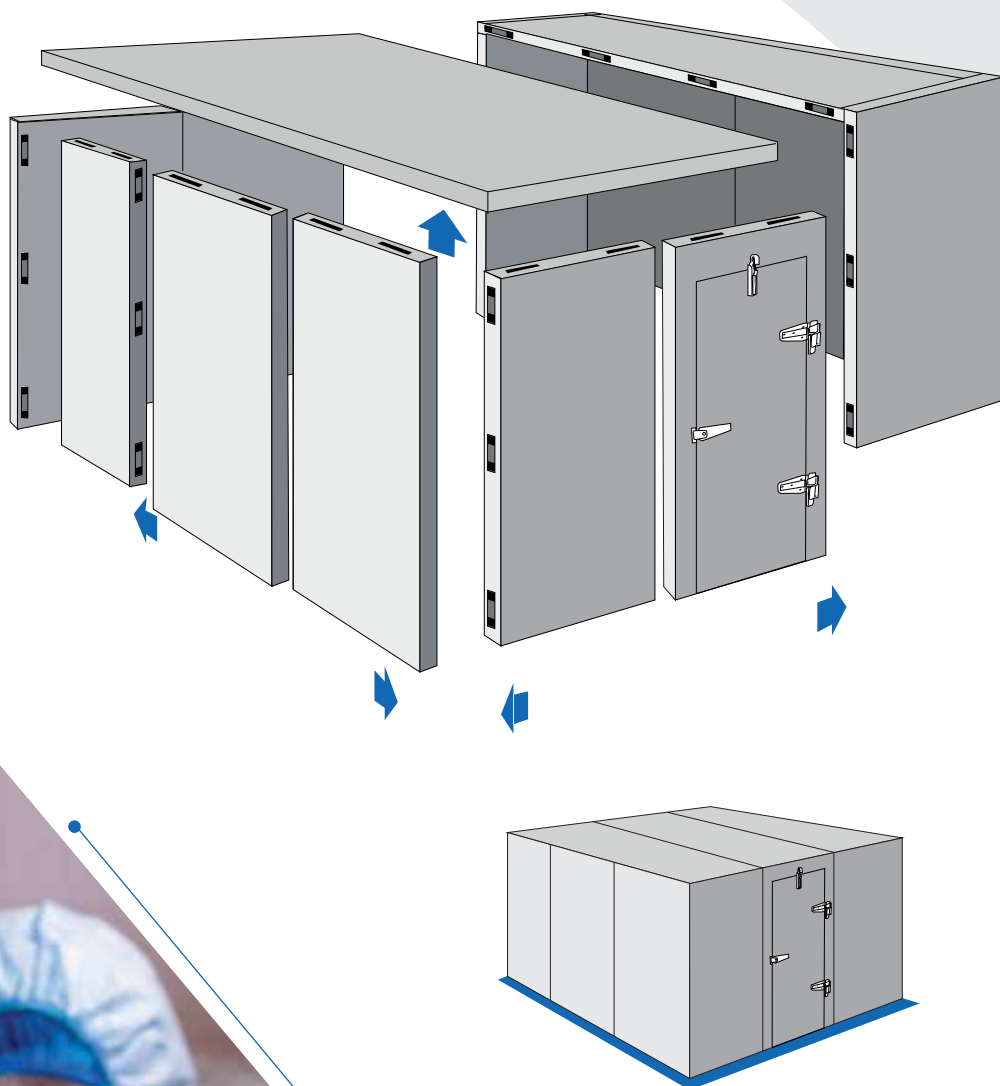
VOLTAS



VOLTAS SMART **COLD ROOMS**



Eco-friendly, energy efficient and IOT enabled modular cold rooms from India's No. 1 AC and ComRef brand. These cold rooms are best suited for cooling, holding or freezing applications across industries such as food processing, horticulture, floriculture, pharmaceuticals, hospitality, QSR, poultry, seafood, fruits and vegetables, banana ripening, mushroom cultivation chambers etc.



Intelligent controller with remote management



Modular design



Factory fitted electricals



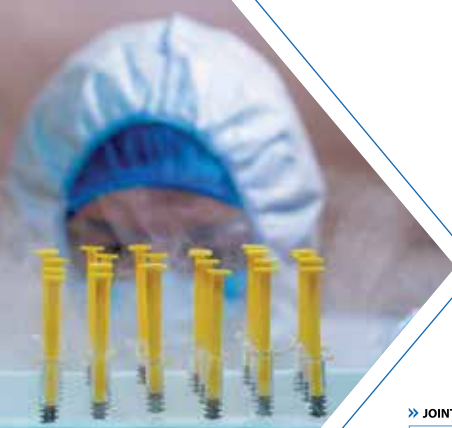
Available in three technologies: hermetic, semi hermetic and scroll



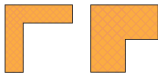
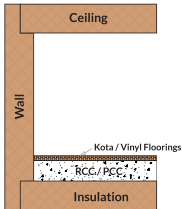
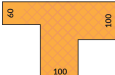
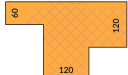
Mobile App operation



Green Refrigerant R-407c & R404a



» JOINTINGS

 WALL - SINGLE CORNER PANEL	 MODULAR - FULL CAM LOCK SYSTEM	 SEMI MODULAR - FLUSHING + RIVETTING AT SITE	 FLOOR OPTIONS - CIVIL			
 COMMON WALL - SINGLE "T" PANEL FOR COMBI ROOMS						
 FLOOR OPTIONS - PPGI / SS / AL CHEQUERED		 FLOOR OPTIONS - PPGI / SS / AL CHEQUERED				



COLD ROOM STRUCTURE

Cutting-edge technology. Sturdy structure. Diversified applications.

Insulation options: Rigid Polyurethane Foam (PUF) & Polyisocyanurate or Rigid Polyiso Foam (PIR)

Skin finish: Pre-painted Galvanised Steel (PPGI) or Stainless Steel (SS 304)

Insulation thickness: 50mm up to 200mm

Classic Design

Panel to Panel Joints: Camlock and silicon filling

Wall to Ceiling and Wall to Floor Joints: Flashings & riveting

Premium Design

It is 100% modular, leak proof and installed faster.

Panel to Panel Joints: Camlock and gasket

Wall to Ceiling and Wall to Floor Joints: Camlock and gasket

Doors

The Cold Room doors are aesthetically designed, factory built & tested. They are available in standard and customised sizes.

Swing Type (self closing or push to close)

Sliding Type (manual or motorized)

On Demand

Covings, Door Kick Plate, Strip Curtains, Hatch Window, Air Curtains.





HERMETIC CONDENSING UNITS

MEDIUM TEMPERATURE APPLICATION

VOLTAS MODEL	VCRO-M-REAX-022	VCRO-M-REAX-035	VCRO-M-REAX-045	VCRO-M-REAX-055	VCRO-M-REAX-062	VCRO-M-REAX-110
Capacity-watts (BTU) @ 4 degC cold room temp. and 54 degC condensing, R407C	2263 (7760)	3325 (11400)	4710(16150)	5460(18725)	6180(21200)	11006 (37700)
Power requirement	1PH-50HZ-230V	1PH/3PH-50HZ	1PH/3PH-50HZ	3PH-50HZ	3PH-50HZ	3PH-50HZ
Compressor power-watt	1145	1610	2260	2650	3070	6100
Condenser fan power-watt	54	54	54	160	160	212
No of fan & dia(mm)	Ø430MM X 1	Ø430MM X 1	Ø430MM X 1	Ø510 X 1	Ø510 X 1	Ø430MM X 2
Unit dimension (LxWxH) mm	815x324x560	840x395x600	840x395x600	1015x390x715	1015x390x715	1050x410x1265
Suction valve size	1/2"	1/2"	5/8"	5/8"	5/8"	7/8"
Liquid valve size	1/4"	3/8"	3/8"	3/8"	3/8"	1/2"
Weight in KG	45	60	62	70	75	107
Recommended IDU model	VCRI-BM022	VCRI-BM035	VCRI-BM045	VCRI-BM052	VCRI-BM062	VCRI-BM110
Electricals	1 PH units fitted with start capacitor, run capacitor and potential relay + each ODU fitted with compressor contactor & SPFR for 3PH units					
Refrigeration	Reciprocating compressor, copper condenser with aluminium fins, powder- coated body, filter drier and electronic type LH/HP					

LOW TEMPERATURE APPLICATION

VOLTAS MODEL	VCRO-L-RTAZ-014	VCRO-L-RTAZ-020	VCRO-L-RTAZ-025	VCRO-L-RTAZ-032	VCRO-L-RTAZ-043
Capacity-watts (BTU) @ -18degC cold room temp. and 43degC ambient-R404a	1391 (4746)	1917 (6541)	2575 (8786)	3213 (10963)	4313 (14716)
Power requirement	1PH-50HZ-230V	1PH/3PH-50HZ	1PH/3PH-50HZ	3PH-50HZ	3PH-50HZ
Compressor power-watt	1214	1593	2303	2953	3680
Condenser fan power-watt	129	250	250	380	380
No of fan & dia (mm)	1 x 350 (Axial Fan)	1 x 450(Axial Fan)	1 x 450(Axial Fan)	1 x 500(Axial Fan)	1 x 500(Axial Fan)
Unit dimension (L x W x H) mm	913 x 416 x 532	913 x 416 x 633	913 x 416 x 633	913 x 416 x 792	913 x 416 x 792
Suction valve size	5/8"	5/8"	5/8"	7/8"	7/8"
Liquid valve size	3/8"	3/8"	3/8"	1/2"	1/2"
Weight in KG	60	70	70	100	100
Recommended IDU model	VCRI-BL014	VCRI-BL023	VCRI-BL023	VCRI-BL038	VCRI-BL042
Electricals	1 PH units fitted with start capacitor, run capacitor and potential relay, compressor overload relay, compressor contactor, SPFR (for 3PH) and defrost contactor				
Refrigeration	Reciprocating compressor, copper condenser with aluminium fins, powder-coated body, filter drier, receiver, solenoid valve, sight glass and adjustable LH/HP				



AIR COOLED



WATER COOLED

SEMI HERMETIC CONDENSING UNITS

MEDIUM AND LOW TEMPERATURE APPLICATION.

MODEL		VCRO-LM-SHDA-015	VCRO-LM-SHDA-020	VCRO-LM-SHDA-025	VCRO-LM-SHDA-030	VCRO-LM-SHDA-040	VCRO-LM-SHDA-050	VCRO-LM-SHDA-070
Performance (-20 degC cold room tempreature)- R404a	Cooling capacity-Watts (BTU)	1640(5600)	1960(6700)	2460(8400)	3790(13000)	4550(15600)	6100(21000)	6950(24000)
	Absorbed Power-Watts	1400	1710	2320	2740	3880	4480	5160
	COP	1.17	1.15	1.06	1.38	1.17	1.36	1.35
Performance (+2 degC cold room tempreature)- R134a	Cooling capacity-Watts (BTU)	2390(8200)	2980(10200)	3790(13000)	5490(18800)	6470(22000)	9110(31000)	10620(36400)
	Absorbed Power-Watts	1170	1470	2100	2400	2960	4160	5000
	COP	2.04	2.02	1.8	2.28	2.18	2.19	2.12
Condenser fan power	watts	165	165	165	450	450	450	900
Condenser fan	qty x size in mm	1 x 350	1 x 350	1 x 350	1 x 450	1 x 450	1 x 450	2 x 450
Unit dimension-mm	(L x W x H)	590 x 700 x 470	590 x 700 x 520	590 x 700 x 520	950 x 700 x 675	950 x 700 x 675	950 x 850 x 825	1200 x 850 x 725
Suction valve size	mm	16	16	18	28	28	28	35
Liquid valve size (weld output)	inches	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1"
Weight	Kg	65	68	70	100	108	131	171
Recommended IDU model-low temp	low temp	VCRI-BL014	VCRI-BL023	VCRI-BL023	VCRI-BL038	VCRI-BL042	VCRI-BL060	VCRI-BL070
Recommended IDU model-medium temp	medium temp	VCRI-BM022	VCRI-BM035	VCRI-BM035	VCRI-BM052	VCRI-BM062	VCRI-BM100	VCRI-BM110
Refrigeration	Semi hermetic compressor, copper condenser with aluminium fins, motor with axial fan and receiver- open type condensing unit mounted on base plate							



SCROLL CONDENSING UNITS

MEDIUM TEMPERATURE APPLICATION

VOLTAS MODEL	VCRO-M-SDAX-110	VCRO-M-SDAX-165	VCRO-M-SDAX-240
Capacity-KW (BTU) @ 4degC cold room temp. and 54degC condensing, R407C	11.25 (38500)	16.42(56300)	23.34(80000)
Power requirement	3PH-50HZ	3PH-50HZ	3PH-50HZ
Compressor power-Kw*	5.34 KW	7.7 KW	9.7 KW
Condenser fan motor-watt	370	370	370 x 2
No of fan & dia (mm)	Ø600MM X 1	Ø600MM X 1	Ø600MM X 2
Dimension (L x W x H) mm	950x450x960	1200x450x960	1550x575x960
Suction valve size	7/8"	1 1/8"	1 1/8"
Liquid valve size	1/2"	5/8"	5/8"
Weight in KG	107	130	160
Recommended IDU model	VCRI-BM110	VCRI-BM165	VCRI-BM240
Electricals	Compressor contactor & SPPR		
Refrigeration	Scroll compressor, copper condenser with aluminium fins, powder-coated body, filter drier and electronic type LH/HP		



EVAPORATORS - BOX TYPE

Key features:

Body options – Sturdy Stainless Steel or Aluminium Powder Coated
 Reversible Drain Tray
 Axial Flow Fans
 Flexible Defrost Heaters
 Sleek Design

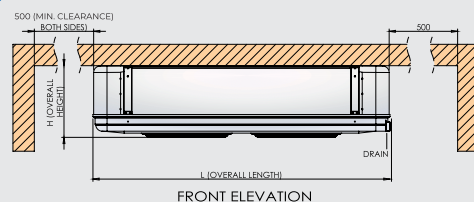
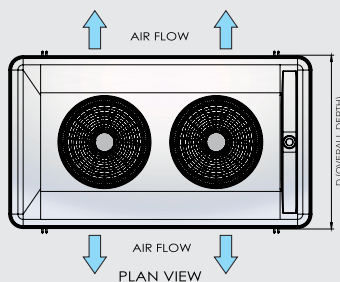
MEDIUM TEMPERATURE APPLICATION

Models	VCRI-BM022	VCRI-BM035	VCRI-BM045	VCRI-BM052	VCRI-BM062	VCRI-BM100	VCRI-BM110	VCRI-BM165	VCRI-BM240
Capacity KW@6KTD, -4C SST, R404a	2.2 (7500)	3.5 (12000)	4.5 (15000)	5.2 (18000)	6.2 (21000)	10 (34000)	11 (38000)	17.5 (60000)	24 (82000)
Air throw (meter)	7	10	12	11	12	15	15	18	20
Air volume (CFM)	865	1772	2595	2025	2595	4895	5190	16500	16100
Fan-qty(size)	1(300)	2(300)	3(300)	2(300)	3(300)	3(350)	3(350)	3(450)	2(550)
Fan watts-Total	70	140	210	140	210	390	390	690	1600
Dis. inlet-mm	1/2"	1/2"	1/2"	1/2"	1/2"	5/8"	7/8"	15	22
Suc. outlet-mm	1/2"	3/4"	3/4"	3/4"	3/4"	7/8"	1 1/8"	35	42
Length-mm	606	988	1370	1370	1370	1813	2329	2320	2030
Depth-mm	262	262	262	262	262	314	314	485	790
Height-mm	395	395	395	395	395	479	479	650	785
Net weight-Kg	12	21	28	26	30	50	61	130	135

LOW TEMPERATURE APPLICATION

Models	VCRI-BL014	VCRI-BL023	VCRI-BL038	VCRI-BL042	VCRI-BL060	VCRI-BL070	VCRI-BL095
Capacity KW@6KTD, -24 C SST, R404a	1.4 (4800)	2.3 (8000)	3.8 (13000)	4.2 (14400)	6 (20500)	7 (24000)	9.5 (32500)
Air throw (meter)	8	9	10	11.5	12.5	14	16
Air volume (CFM)	1012	1772	2025	2658	3333	4420	5908
Fan-qty(size)	1 (300)	2 (300)	2 (300)	3 (300)	2 (350)	3 (350)	4 (350)
Fan watts- total	70	140	140	210	260	390	520
Dis. inlet-mm	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	7/8"
Suc. outlet-mm	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	1 1/8"
Defrost-watts	1700	2380	2960	2960	5780	5780	7300
Length-mm	797	988	1370	1370	1813	1813	2329
Depth-mm	262	262	262	262	314	314	314
Height-mm	395	395	395	395	479	479	479
Net weight-Kg	14	24	31	34	45	50	70





EVAPORATORS - SLIM DUAL FLOW

Key features:

Sturdy stainless steel body
Silent operation
Ultra sleek design

MEDIUM TEMPERATURE APPLICATION

Models	VCRI-SDM022	VCRI-SDM035	VCRI-SDM045	VCRI-SDM060
Capacity KW@6KTD, -4C SST, R404a	2.2(7500)	3.5(12000)	4.5(15000)	6(20500)
Air throw (meter)	3.6	4.5	5.7	6.4
Air volume (CFM)	824	1236	1648	2060
Fan-qty(size)	2 (254)	3 (254)	4 (254)	5 (254)
Fan watts-total	36	54	72	90
Dis. inlet-mm	9.5	9.5	9.5	9.5
Suc. outlet-mm	19	19	19	19
Length-mm	855	1285	1610	1960
Depth-mm	590	590	590	590
Height-mm	235	235	235	235
Net weight-Kg	12	15	21	30



SMART CONTROLLER

Powerful combination of expertise in system control.

Certifications

UL, NSF and CE certifications, IP65 frontal protection and approved for R290 and R600.

Mobile Operation

Remote monitoring and control from IOS, Android and PC.

Smart Built-In Data Logger

Records up to 74 days of data: Date, time, temperatures, and events (compressor, fan, defrost, and door etc.). Data can be downloaded to a windows PC using a converter and free-to-download app. 21 CFR Part 11 compliance.

Smart Defrost

Saves energy by preventing unnecessary defrost cycles. Defrost cycle is not changed when power goes off.

Smart Preventive Maintenance

Avoids compressor outage by monitoring compressor runtime and sending preventive maintenance alerts.

Smart Cooling Control

Saves energy by adjusting cooling loads according to door events or business hours.

Smart Air Circulation

Maintains uniform temperature throughout the room by circulating air periodically during refrigeration off-cycle.

CERTIFIED BY:





VOLTAS | COMMERCIAL REFRIGERATION

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CORPORATE HEAD OFFICE: Voltas Limited, Voltas House A, Dr. Babasaheb Ambedkar Road, Chinchpokli, Mumbai - 400033, Phone: 022-66566666. **BRANCHES:** **DELHI:** Voltas Limited, A - 43, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi - 110044, Phone: 011-66505550. **HARYANA:** Voltas Limited, A - 43, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi. Phone: 011-66505582. **GHAZIABAD:** Voltas Limited, D-15, R.S. Plaza, 3rd Floor, Raj Nagar, RDC, Ghaziabad - 201001, Ph. 0120-6404801. **CHANDIGARH:** Voltas Limited, Plot No. 194-195, First Floor, Industrial Area Phase-2, Chandigarh - 160002, Phone: 0172-4111800. **LUCKNOW:** Voltas Limited, Shalimar Titanium, Block - C, 4th floor, Office Nos. 410 - 412, Plot No. TCG - 1/1, Opp. Indira Gandhi Pratishthan, Vibhuti Khand, Gomti Nagar, Lucknow - 226 010, Phone: 0522-6566961. **JAIPUR:** Voltas Limited, Diamond Tower, 201-203, Purani Chungi, Ajmer Road, Jaipur-302021, Phone: 0141-2972015. **HYDERABAD:** Voltas Limited, 7-2-1735, Sanath Nagar, Hyderabad-500018, Phone: 040-66743001. **VIJAYAWADA:** Voltas Limited, #23-2-7, Bhagat Singh Road, Next to Naadars Function Hall, Satyanarayanapuram, Vijayawada - 520011, For institutional Enquiry - 8186052052. **BANGALORE:** Voltas Limited, 7th Floor, 701- Pride Huikul 116, Lalbagh Road, Bangalore- 560027, Phone: 08022535600. **CHENNAI:** Voltas Limited, No. 624, Anna Salai, Chennai - 600018, Phone: 66760333/11. **KOCHI:** Voltas Limited, Ambanant building, 39/3522, M.G. Road, Ravipuram, Kochi-682016, Phone: 0484-6605555. **COIMBATORE:** Voltas Limited, 1413, Trichy Road, Coimbatore - 641018, Phone: 0422-6502419/6530080. **MUMBAI:** Voltas Limited, Voltas House B, 2nd Floor, T.B. Kadam Marg, Chinchpokli, Mumbai - 400033, Phone: 022-66566333. **PUNE:** Voltas Limited, Equitorial Forum, 2nd & 3rd Floor, Mumbai-Pune Road, Wakadewadi, Pune - 411003, Phone: 020-66011776. **THANE:** Voltas Limited, Unit II, 1st Floor, 2nd Pokhran Road, Thane-400601, Phone: 022-67920106/07. **NAGPUR:** Adisun Trade Center, 5th Floor, Plot No. 38, Dhaga Layout, Near Crazy Castle, Nagpur - 440010, Phone: 9823036996. **AHMEDABAD:** Voltas Limited, A-301, Shivalki Corporate Park, Shivranjini Crossroad Satellite, Ahmedabad- 380015, Phone: 0790-66301190/91. **INDORE:** 501-B, 5th floor, NRK Business Park, Block B-1, PU-4, Sch.no.54 Vijay Nagar Square, A.B.Road, Indore-452010, M.P., Phone: 0731-4043512 & 4046393. **RAIPUR:** Voltas Limited, Kunwar Ben Karsam Bhai Chamber, Shop No. 419/420, 4th Floor, New Timber Market, Mandi Market, Devendra Nagar, Raipur - 492001, Ph: 4033886. **KOLKATA:** Voltas Limited, Unit No. 805, 8th Floor, Godrej Waterside Tower - 2, Plot No. - 5, Block DP, Sector - V, Salt Lake, Kolkata - 700091, Phone: 033-66266200-205. For Institutional Inquiry - 9771491152. **PATNA:** Voltas Limited, Maharaja Complex, 306-A, 3rd Floor, Frazer Road, Patna-800001, For Institutional Inquiry - 7091091400 / 7707008848. **JAMSHEDPUR:** Voltas Limited, Voltas House, 3rd Floor, Main Road, Bistupur, Jamshedpur - 831001, Phone: 0657-6455921. For Institutional Inquiry - 9234509877 / 0657-6622378. **BHUBANESWAR:** Voltas Limited, B-15, 2nd Floor, Arihant Plaza, Shaheed Nagar, Bhubaneswar-751007, Phone: 0674 -2544919/18. For Institutional Inquiry - 09937140010. **GUWAHATI:** Voltas Limited, Upasana Palace Building, 6th Floor, Dr. Rajendra Prasad Road, Near Ganesh Mandir, Ganeshguri, Guwahati - 781006. For Institutional Inquiry - 9706982628.

✳ In India, E-Waste (Management and Handling) Rules 2016 r/w E-Waste Management Amendment Rules 2018 has been notified by the Ministry of Environment, Forests and Climate Change Government of India. Voltas Limited (Voltas) stands committed to implement E-Waste Rules. Voltas has done tie-up with the government authorized E-Waste Recycler for facilitating our Channel partners/customers to dispose and/or discard Electrical and Electronic Products after its end-of-life (when a product/part is non-operational or non-repairable) and including spare parts. The authorised Recycler has expertise in assisting Voltas in fulfilling their compliances related to EPR and E-waste Management. Channel partners/customers need to get in touch with Voltas Call Centre (9650694555) to dispose and/or discard Electrical and Electronic Products after its end-of-life. Channel partners/Consumers should contribute to resource conservation and prevent potential environmental problems by a simple action - the proper depositing of their old consumer durable products, its accessories or defective spares with authorized Recyclers. E-waste should be disposed of separately from the general waste stream via designated collection facilities identified by Voltas.

*Features are available in select models only. T & C apply. As a continuous policy of product innovations at Voltas, design and specifications are subject to change without prior notice.