

MICRO-PROCESSOR CONTROLLED DUCTABLE SPLIT UNITS



VOLTAS INTELLISYS RANGE WITH R410a

A comfortable future begins with sustainable cooling solutions. Voltas is committed to providing innovative HVAC solutions that benefit our customers as well as the environment. Our proactive development of R410a refrigerant systems are designed to be the most INTELLIGENT and COMPACT, to cater to your total sustainable cooling requirements.

Key Benefits of R410a

R410a is a Azeotropic refrigerant. A blend Of HFC-32 (50% by wt.) & HFC-125 (50% by wt.) Diflouromethane & Pentafluoroethane.

R410a has following benefits over other green refrigerants and hence the best sustainable Environment friendly refrigerant alternate.

- Eco-friendly refrigerant
- Increased efficiency
- Proven long-term HCFC replacement
- The temperature glide for R410a is less than 0.17K
- Higher volumetric refrigeration capacity
- Non inflammable refrigerant unlike R32 used by other manufacturer

NINE POWERFUL FEATURES



Energy Efficiency

A range of sophisticated components such as a highly energy efficient compressor, internally grooved crosshatched copper tube coil with matched circuitry, and a microprocessor controller, result in a low power consumption.



Low Noise, Compact Indoor & Outdoor Units

Superior engineering coupled with technologically advanced components, ensure low noise levels, indoors and outdoors. Our new design IDUs and ODUs are more compact, saving valuable space.



Higher False Ceiling Heights

Low height IDUs enable higher false ceiling heights, improving the aesthetics.



Space Saving

The outdoor condensing unit, in a ductable split unit, are more compact and can be placed on a ledge, terrace or a wall-mounted bracket. The indoor unit can be ceiling-suspended or loft-mounted, a unique advantage.



Humidity Control

A highly-efficient evaporator coil keeps the room humidity within the desired comfort range.



Equalization Of Compressor Runtime

The Microprocessor Controller ensures equal running of compressors in multiple compressor units. This ensures a longer life for compressors.



Indoor Air Quality

Special synthetic woven filters remove fine dust particles to give clean air at all times. The filters are easily removable and washable.



Reliability

Our manufacturing plants are equipped with the latest and sophisticated tooling and machinery, backed by a modern R&D facility. The products are best-in-class, designed specially for tropical conditions, with high levels of reliability.



Voltas Countrywide After Sales Service

A nationwide service network backs every unit. After the initial warranty period, Voltas offers annual service schemes. More than 90% of the customers have opted for these schemes. You cannot get a better insurance.

MICROPROCESSOR-BASED LCD CONTROLLER FOR DUCTABLE UNITS

The microprocessor controller installed on all the units, offers you the following benefits:



Energy saving

Special Energy Save Mode available to run unit efficiently. Auto switch-off of the condenser fans along with compressor.



Anti-recycle timer

For starting the compressor after a set delay, to enhance its life.



Self-Diagnosis function

Constant monitoring of errors with alarms.



Inbuilt temperature sensor

For precise control within $\pm 0.5^{\circ}\text{C}$.



On / Off timer

As a standard feature for setting the start and stop time in a day.



4 modes of operation

Cool, Dry, Fan and Energy Save.



Motor protection device

For protection from phase reversal, single phasing, over-load and phase imbalances.



Fan speed selection

Low, Medium, High, Auto.



Auto start mode

For automatic start, after a power failure. (User can enable and disable according to the requirement)



Large LCD screen

Blue/White backlit LCD for easy readability.



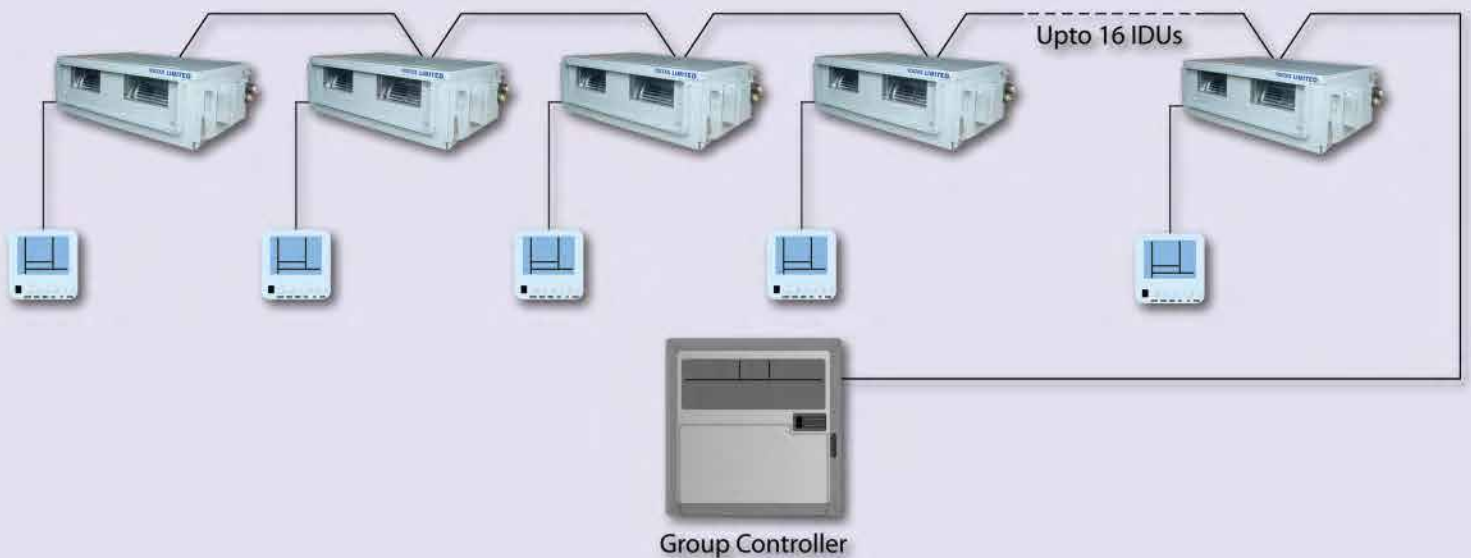
OPTIONAL ACCESORIES



Group Controller

- Controls & Monitors upto 16 IDUs
- Central Mode selection: Auto, Cool, Dry, Heat, Fan only
- Temp. Setting Range: 17°C to 30°C
- Daily and Weekly Scheduling
- Fan speed control: H/M/L/Auto
- Clear & bright LCD display screen with blue backlit with more parameters display

Realtime Monitoring & BMS Compatible with RS485



TECHNICAL DATA - DUCTABLE SPLIT UNITS (R410A)

INDOOR UNIT						
Model number		ACDEU60CZGIMR410	ACDEU90CZGIMR410	ACDEU120CZGIMR410	ACDEU180CZGIMR410	
Nominal Cooling Capacity	KW	21.0	31.6	42.12	63.2	
	TR	6.0	9.0	12.0	18.0	
Nominal Air Flow	CMH	3900	6120	7800	11700	
	CFM	2300	3600	4600	6900	
Power Supply	Ph-V-Hz	1Ph - 230V - 50Hz				
Unit Dimension	Length	mm	1301	1510	1906	2150
	Height	mm	480	480	480	520
	Depth	mm	670	750	750	825
Packing Dimension	Length	mm	1510	1770	2195	2460
	Height	mm	660	660	660	725
	Depth	mm	770	965	965	1115
Weight	Net	kg	65	100	125	180

OUTDOOR UNIT						
Model number		ACDCUSC60DGIMR410	ACDCUSC90DGIMR410	ACDCUSC60DGIMR410 x 2	ACDCUSC90DGIMR410 x 2	
Power Supply	Ph-V-Hz	3Ph - 415V - 50Hz				
Compressor Type		Hermetic sealed Scroll				
No. Of Compressor/Unit		1	1	1	1	
Condenser Fan		Propellor type				
Condenser Fan Qty/ODU		1	2	1	2	
Unit Dimension	Length	mm	920	1320	920	1320
	Height	mm	755	960	755	960
	Depth	mm	450	575	450	575
Packing Dimension	Length	mm	1050	1500	1050	1500
	Height	mm	825	1130	825	1130
	Depth	mm	530	725	530	725
Weight	Net	kg	100	160	100	160
Refrigerant		R410a				

CONTROLLER		Microprocessor based with LCD Display
Controller Functions		On/Off
		MODE: Cool, Dry, Fan, Auto
		Economy Mode
		Temperature Setting
		24 hours ON/OFF Timer
		Fan Speed: High/Med/Low
		Auto Re-Start
		Turbo/Quick Chill

NOTE:

- Units dispatched from factory will be without refrigerant charge.
- Microchannel heat exchanger of aluminium construction available as an option for condenser coils.

SPECTRUM OF HVAC PRODUCTS & SYSTEMS



PACKAGED & DUCTABLE SPLIT UNIT



VARIABLE REFRIGERANT FLOW SYSTEM (VRF)



ENERGY EFFICIENT AIR COOLED SCREW CHILLER



ENERGY EFFICIENT WATER COOLED SCREW CHILLER



AIR COOLED SCROLL CHILLER



WATER COOLED SCROLL CHILLER



AIR COOLED RECIPROCATING CHILLER



WATER COOLED RECIPROCATING CHILLER



DOUBLE EFFECT VAM



CO-GEN VAPOUR ABSORPTION MACHINE (VAM)



PROCESS REFRIGERATION PACKAGE



IAQ & ENERGY REDUCTION SYSTEM



COILOTRON (UV FOR AHU COILS)



STP EA ODOUR / H₂S REMOVAL SYSTEM



AIR HANDLING UNIT

VOLTAS

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