



MICRO - PROCESSOR CONTROLLED PACKAGED & DUCTABLE SPLIT UNITS



**VOLTAS LIMITED**  
EM&R Business Group



A TATA Enterprise



## THE VOLTAS INTELLISYS RANGE

The Voltas **INTELLISYS** range of Packaged and Ductable Split Units are designed to be the most **INTELLIGENT** and **COMPACT** systems, to cater to your total cooling requirements. Applications include offices, banks, departmental stores, entertainment centers, multiplexes, restaurants, fast food centers, residences, computer rooms, telephone exchanges, hospitals, auditoriums, conference halls, theatres, factories, control rooms, etc. Packaged & Ductable Split units are available in both Air-cooled and Water-cooled options.

### SIX POWERFUL FEATURES



#### Reliability

All products are made in our manufacturing plants, 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 level of reliability.



#### Clean Air

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



#### Energy Efficiency

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



#### Humidity Control

A highly efficient evaporator coil keeps the room humidity within the desired comfort range. Fine-tuning of humidity beyond this range can be provided as an option.



#### Space Saving

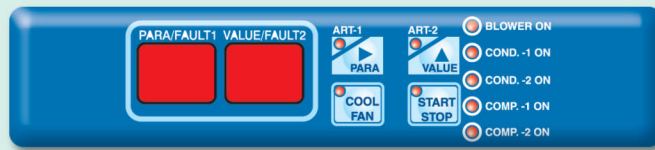
The outdoor condensing unit, in a Ductable split unit, is the **most compact** in the industry and can be placed on a ledge, terrace or a wall mounted bracket. The indoor unit can be ceiling suspended or loft mounted, a **unique advantage**.



#### Voltas Countrywide After Sales Service

A nation-wide 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 CONTROLLER



### EIGHT UNIQUE BENEFITS

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



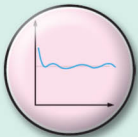
#### Power Saving

The Microprocessor controller switches off the condenser fan when the compressor cuts off, thereby saving valuable power.



#### Motor Protection

A unique Motor Protection device, which not only protects the compressor motor from single phasing and over load as in conventional devices, but also protects the compressor from under load, phase reversal and phase imbalances. This increases compressor life.



#### Precise Control

The electronic temperature sensor ensures precise control on temperature, as compared to a conventional thermostat.



#### Programmable Operation

An optional feature is the real-time clock, which enables programmable operation for one year including holidays. This avoids the need of an operator.

#### Fault Diagnostics

The microprocessor controller displays trip conditions enabling quicker identification of the fault and faster remedial action. This results in lower downtime of the unit.



#### Auto Re-start

Unlike conventional units, our units have a unique power-down memory, which ensures automatic restart of the unit as soon as power is restored. This saves the effort of restarting the unit.



#### Anti-Recycle timer

The microprocessor controller starts the compressor after asset delay, thereby enhancing its life. Frequent starts stops in the conventional units decrease the life of the compressor and the electrical switchgear.



#### Operation Friendly

Our units can be started and stopped with a single button and the microprocessor does the rest, thus making them very user friendly.



Control Rooms • Multiplexes • Auditoriums • Food Courts • Factories • Retail Outlets • Conference Halls

## COMPRESSORS

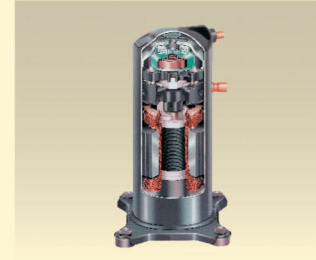
### Semi-Hermetic Compressor



(7.5 & 15 TR Units)

- Low Power Consumption
- Lowest Down time
- Longest Life

### Scroll Compressor



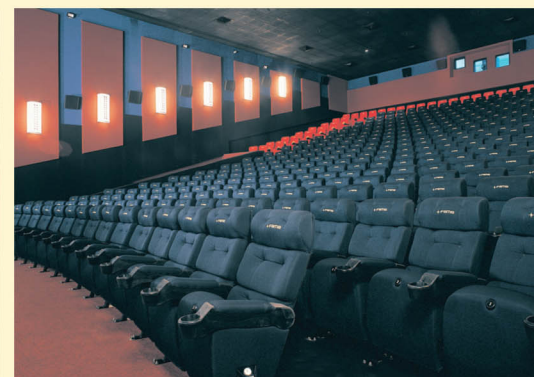
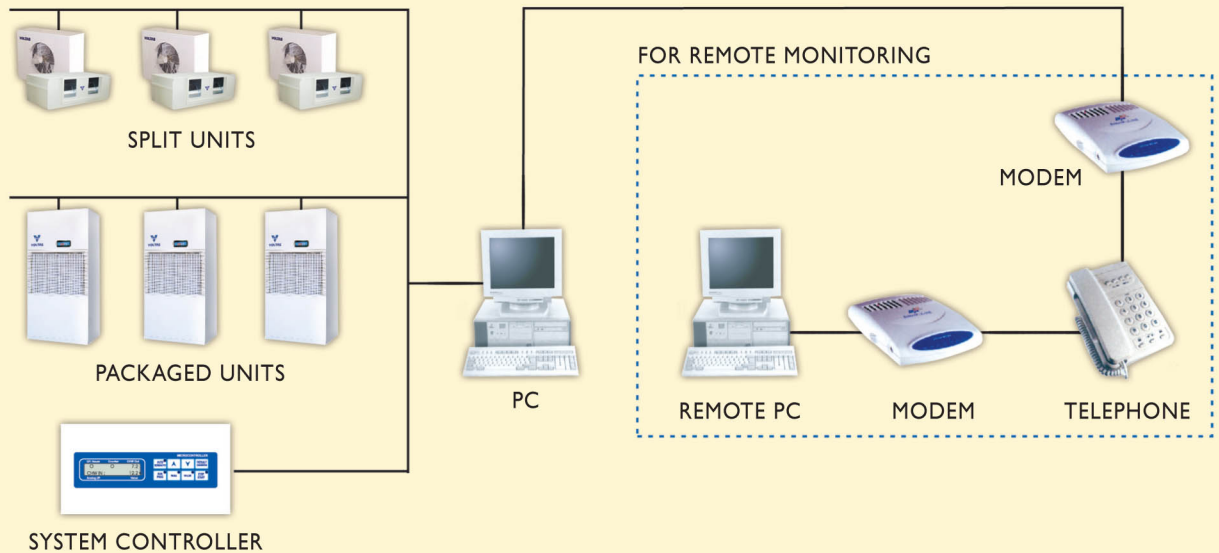
(5.5, 8.75, 11 & 17 TR units)

- Power saving
- Balanced Design
- Enhanced Reliability

## MONITORING AT YOUR FINGER TIPS

### The VSCADA System

- ◆ The Voltas Supervisory Control And Data Acquisition system (VSCADA) enables link-up of all the Packaged and/or Ductable Split units in a building to a Personal Computer
- ◆ This enables Operation & Monitoring of each unit from the PC
- ◆ Remote Monitoring from anywhere on the globe is also possible through a modem link-up



Restaurants • Multiplexes • Auditoriums • Banks • Theatres • Conference Halls

## TECHNICAL DATA - DUCTABLE SPLIT UNITS

### SCROLL COMPRESSOR UNITS - R22

Nominal TR	5.5 TR	8.5 TR	8.75 TR	11 TR	17 TR	22 TR
No. of Compressor	1	1	2	2	1	2

#### EVAPORATOR UNITS

MODEL	DEU55CZG	DEU85CZG	DEU85C2ZG	DEU110CZG	DEU110CIZG	DEU170CZG	DEU220CKG
Airflow in CFM	2200	3400	3400	4400	4400	6800	8800
Evaporator Fan	Centrifugal Forward Curved, Double Inlet Double Width						
Power Supply	230 V - 1PH - 50Hz						
Length (mm)	1228	1508	1508	1906	1906	2148	2100
Depth (mm)	662	795	795	750	750	825	1240
Height (mm)	407	407	407	470	470	520	640
Bare weight (kg)	65	100	100	125	125	180	220

#### AIR COOLED CONDENSING UNITS

Model	DCUSC55G DCUSC55YG	DCUSC875DG	DCUSC2875G DCUSC2875YG	DCUSC55G DCUSC55YG	DCUSC110DG	DCUSC875DG	DCUSC110DG
Condenser fan	Propeller						
Power Supply	415 V - 3PH - 50Hz						
No. Of Units	1	1	1	2	1	2	2
Bare weight (kg)	100	160	162	100	180	160	180
Length (mm)	920	1320	1320	920	1650	1320	1650
Depth (mm)	460	460	460	460	475	460	475
Height (mm)	750	960	960	750	960	960	960

#### WATER COOLED CONDENSING UNITS

Model	DCUWSC55	DCUWSC875D
Power Supply	415 V - 3PH - 50Hz	
No. Of Units	1	1
Bare weight (kg)	120	190
Length (mm)	900	900
Depth (mm)	665	665
Height (mm)	515	515

### RECIPROCATING SEMI-HERMATIC COMPRESSOR UNITS - R22

Nominal TR	7.5 TR	15 TR
<b>EVAPORATOR UNITS</b>		
MODEL	DEU85CZG	DEU170CZG
Airflow in CFM	3000	6000
Evaporator Fan	Centrifugal Forward Curved, Double Inlet Double Width	
Power Supply	230 V - 1PH - 50 Hz	
Length (mm)	1508	2148
Depth (mm)	795	825
Height (mm)	407	520
Bare Weight in (kg)	100	180

#### AIRCOOLED CONDENSING UNITS

MODEL	DCUSH75G	DCUSH75G
Condenser fans	Propeller	
Power Supply	415 V - 3PH - 50 Hz	
No. Of Units	1	2
Bare weight (kg)	180	180
Length (mm)	1320	1320
Depth (mm)	575	575
Height (mm)	750	750

#### WATERCOOLED CONDENSING UNITS

MODEL	DCUWSH75	DCUWSH75
Power Supply	415 V - 3PH - 50 Hz	
No. Of Units	1	2
Bare weight (kg)	150	150
Length (mm)	900	900
Depth (mm)	665	665
Height (mm)	615	615



## TECHNICAL DATA - PACKAGED UNITS

### SCROLL COMPRESSOR UNITS - R22

Nominal TR	5.5 TR	8.5 TR	11 TR	17 TR	22 TR	22 TR
<b>PACKAGED UNIT</b>						
<b>Model: Water-cooled</b>	DPUWSC55	DPUWSC875D	DPUWSC110	DPUWSC170CD		DPUWSC220CD
No. of Compressor	1	1	2	2		2
Bare weight (kg)	280	320	400	500		600
<b>Model: Air-cooled</b>	DPUASC55	DPUASC875D	DPUASC110	DPUASC170CD	DPUASC220HD	
No. of Compressor	1	1	2	2	2	2
Bare weight (kg)	220	240	320	400	500	
Airflow in CFM	2200	3400	4400	6800	8800	8800
Evaporator fan	Centrifugal Forward Curved, Doubled Inlet Doubled Width					
Power Supply	415V - 3PH - 50Hz					
Length (mm)	900	900	1220	1490	1600	2040
Depth (mm)	660	660	740	745	935	745
Height (mm)	1850	1850	1750	1790	2080	1790

### CONDENSER (AIR-COOLED UNIT)

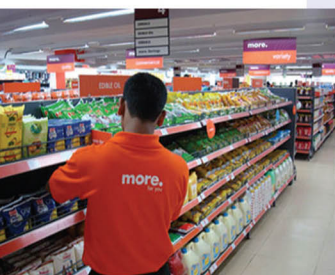
Model	DC55	DC875	DC55	DC875	DC110
Condenser fan	Propeller				
Power Supply	230V - 1PH - 50Hz				
No. Of Units	1	1	2	2	2
Bare weight (kg)	62	90	62	90	120
Length (mm)	920	1320	920	1320	1650
Depth (mm)	460	460	460	460	475
Height (mm)	750	960	750	960	960

### RECIPROCATING SEMI-HERMATIC COMPRESSOR UNITS - R22

Nominal TR	7.5 TR	15 TR	15 TR
<b>PACKAGED UNIT</b>			
<b>Model: Water-cooled</b>	DPUWSH75	DPUWSH150S	
No. of Compressor	1	2	2
<b>Model: Air-cooled</b>	DPUASH75		DPUASH150C
No. of Compressor	1	2	2
Airflow in CFM	3000	6000	6000
Evaporator fan	Centrifugal Forward Curved, Doubled Inlet Doubled Width		
Power Supply	415V - 3PH - 50Hz		
Bare weight (kg)	340	500	450
Length (mm)	900	1800	1490
Depth (mm)	660	740	745
Height (mm)	1850	1850	1790

### CONDENSER (AIR-COOLED UNIT)

Model	DC85	DC85
Evaporator fan	Propeller	
Power Supply	230V - 1PH - 50Hz	
No. Of Units	1	2
Bare weight (kg)	90	90
Length (mm)	1320	1320
Depth (mm)	460	460
Height (mm)	750	750

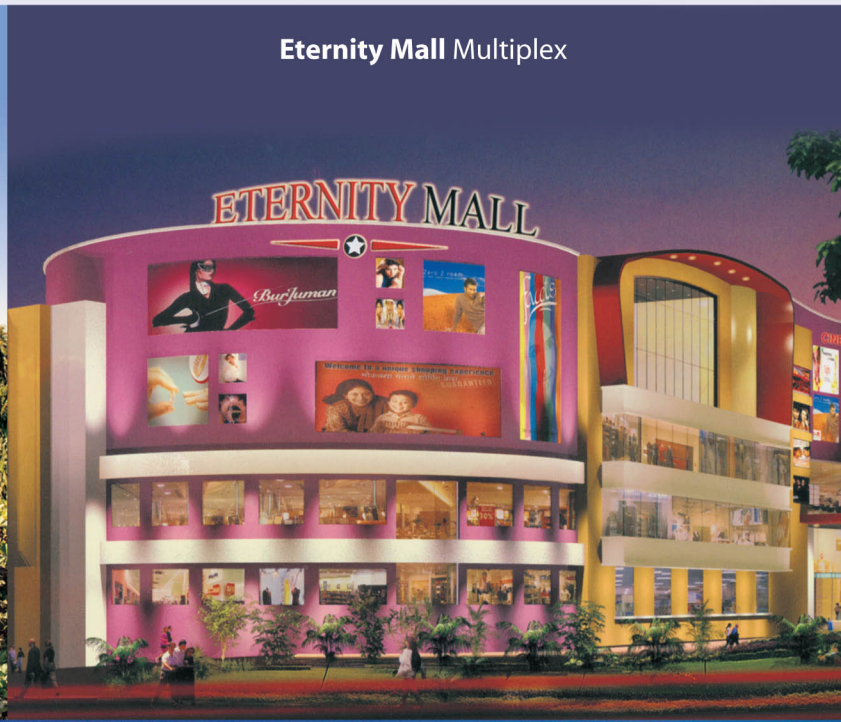


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S KumarsPrateek Apparels

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Eternity Mall Multiplex



Mega Mall - Largest Ductable Split Units project in India



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Star BazaarICI PrudentialBharti AXA  
Adlabs FilmsCinemaxInoxCinemet  
GodrejSankara Eye Hospital

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Backed by Voltas countrywide after sales service.

Authorised System Solutions Provider



**Electro - mechanical & Refrigeration Business Group**

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