

A **TATA** Enterprise

Micro-Processor Controlled Packaged & Ductable Split Units



VOLTAS

THE VOLTAS MICROPROCESSOR CONTROLLER



SEVEN 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.

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.

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.

Precise Control



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

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 re-starting the unit.

Anti-Recycle Timer



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

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.

INTELLIGENT SYSTEMS FROM VOLTAS

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 centres, restaurants, fast food centres, residences, computer rooms, telephone exchanges, hospitals, auditoriums, conference halls, theatres, factories, control rooms, etc. Packaged 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 a 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, result 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.

MOTOR PROTECTION DEVICE

- Scans and displays the current in each phase, sequentially. This enables monitoring of the power supply.
- Provides protection to the compressor motor not only from single phasing and overload as in conventional circuits, but also from **underload, phase reversal and phase imbalances**. This increases the compressor life.



ISO 9001 CERTIFICATION

COMPRESSORS

- Semi-Hermetic Reciprocating
- Hermetic Reciprocating
- Hermetic Scroll

Semi-Hermetic Compressor (7.5, 10 & 15 TR units)



- **Low Power Consumption**

The Voltas semi-hermetic compressor consumes the least amount of power, **comparable to scroll compressors**.

- **Lowest Down Time**

The Voltas semi-hermetic compressor is **field serviceable** unlike the compressors used by others, which have to be cut open for repairs. This reduces the down time.

- **Longest Life**

The Voltas semi-hermetic compressor has the **longest life** due to the rugged cast iron body and a lower operating speed of 1450 rpm.

Hermetic Compressor (5.5 TR units)



- Compact, efficient design
- Lower power consumption as compared to similar compressors

Scroll Compressor (5.5, 8.5, 11 & 16.6 TR units)



- **Power Saving**

Our compressor saves power as compared to hermetic compressors

- **Balanced Design**

A balanced design is achieved by effective compressor balancing and vibration isolation.

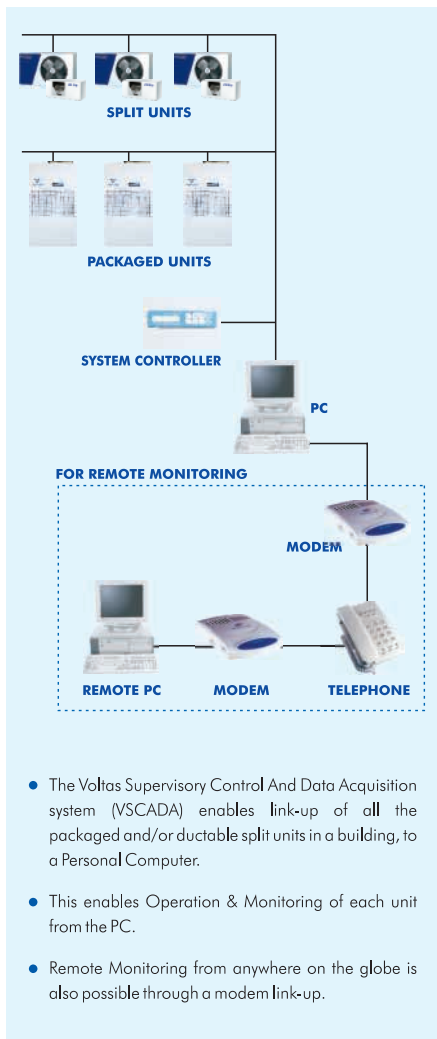
- **Enhanced Reliability**

Few moving parts result in longer life

YOU NAME IT, WE HAVE IT.

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.

TECHNICAL DATA

(Hermetic / Semi-Hermetic Compressor units)

DUCTABLE SPLIT UNITS

Nominal TR	5.5	7.5
Refrigerant	R-22	R-22
Compressor	Hermetic	Semi-Hermetic

EVAPORATOR UNIT

Model	DEU55	DEU55C	DEU85	DEU85C
Length (mm)	1190	1320	1190	1575
Depth (mm)	1030	660	1150	660
Height (mm)	560	460	560	460

CONDENSING UNIT

Model	DCUH55	DCUSH75
Number of fans	1 No	1 No
Motor	0.5 HP	0.5 HP
Bare weight (kg)	112	190
Length (mm)	920	1320
Depth (mm)	460	575
Height (mm)	750	750
Type of tubes	Cross-hatched high efficiency copper tubes	

PACKAGED UNITS

Nominal TR: Water-Cooled	6.0	7.5	10	15
Air-Cooled	5.5	7.5	10	15
Refrigerant	R-22	R-22	R-22	R-22
Compressor	Hermetic	Semi-Hermetic	Semi-Hermetic	Semi-Hermetic

Model: Water-Cooled	DPUWH60	DPUWSH75	DPUWSH100	DPUWSH150
Air-Cooled	DPUAH55	DPUASH75	DPUASH100	DPUASH150
Motor	0.75 HP	1.0 HP	2.0 HP	3.0 HP
Bare weight (kg)	280	300	400	500
Length (mm)	900	900	1220	1800
Depth (mm)	660	660	740	740
Height (mm)	1850	1850	1750	1850

CONDENSER (AIR-COOLED UNIT)

Model	DC 55	DC 85	2*DC 55	2*DC 85
Number of fans	1 No.	1 No	1 No	1 No
Motor	0.5 HP	0.5 HP	0.5 HP	0.5 HP
Number of Units	1 No	1 No	2 Nos	2 Nos
Bare weight (kg)	62	90	2 x 62	2 x 90
Length (mm)	920	1320	2 x 920	2 x 1320
Depth (mm)	460	460	2 x 460	2 x 460
Height (mm)	750	750	2 x 750	2 x 750
Type of tubes	Cross-hatched high efficiency copper tubes			

* Product development is a continuous process in Voltas, hence specifications and technical data are subject to alterations without notice.

TECHNICAL DATA

(Scroll Units)

DUCTABLE SPLIT UNITS

Nominal TR	5.5	8.5
Refrigerant	R-22	R-22
Compressor	Scroll	Scroll

EVAPORATOR UNIT

Model	DEU55	DEU55C	DEU85	DEU85C
Length (mm)	1190	1320	1190	1575
Depth (mm)	1030	660	1150	660
Height (mm)	560	460	560	460

CONDENSING UNIT

Model	DCUSC55	DCUSC85
Number of fans	1 No	1 No
Motor	0.5 HP	0.5 HP
Number of Units	1 No	1 No
Bare weight (kg)	112	190
Length (mm)	920	1320
Depth (mm)	460	575
Height (mm)	750	750
Type of tubes	Cross-hatched high efficiency copper tubes	

PACKAGED UNITS

Nominal TR	5.5	8.5	11.0	16.6
Refrigerant	R-22	R-22	R-22	R-22
Compressor	Scroll	Scroll	Scroll	Scroll

Model: Water-Cooled	DPUWSC55	DPUWSC85	DPUWSC110	DPUWSC166
Air-Cooled	DPUASC55	DPUASC85	DPUASC110	DPUASC166
Motor	0.75 HP	1.0 HP	2.0 HP	3.0 HP
Bare weight (kg)	280	300	400	500
Length (mm)	900	900	1220	1800
Depth (mm)	660	660	740	740
Height (mm)	1850	1850	1750	1850

CONDENSER (AIR-COOLED UNIT)

Model	DC 55	DC85	2*DC55	2*DC85
Number of fans	1 No	1 No	1No	1 No
Motor	0.5 HP	0.5 HP	0.5 HP	0.5 HP
Number of Units	1 No	1 No	2 Nos	2 Nos
Bare weight (kg)	62	90	2 x 62	2 x 90
Length (mm)	920	1320	2 x 920	2 x 1320
Depth (mm)	460	460	2 x 460	2 x 460
Height (mm)	750	750	2 x 750	2 x 750
Type of tubes	Cross-hatched high efficiency copper tubes			

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OFFICE	TELEPHONE	FAX
WESTERN REGION		
MUMBAI (BRANCH)	(022) 4167754 (022) 4167755	3742416 3711405
Nagpur	(0712) 265697	265697
Nashik	(0253) 582169	582169
Goa	(0832) 229824	229824
Indore	(0731) 498616 98270 70325	498616
PUNE (BRANCH)	(020) 5511028 (020) 5512432	5512410 5512431
Aurangabad	(0240) 550510 (0240) 320510	320510
AHMEDABAD (Branch)	(079) 5504494 (079) 5506387	5509687
Baroda	(0265) 345035 (0265) 351706	332098
Surat	(0261) 422761	422761
Silvassa	(0260) 640363	640363
Rajkot	(0281) 78124	-

EASTERN REGION

KOLKATA (BRANCH)	(033) 2209221 (033) 2209764	2200108
JAMSHEDPUR (BRANCH)	(0657) 434322 (0657) 431062	432201

SOUTHERN REGION

CHENNAI (BRANCH)	(044) 4342762 (044) 4323250	4342178
Madurai	(0452) 526926	-
Coimbatore	(0422) 230350 (0422) 235739	301515
BANGALORE (BRANCH)	(080) 2274791 (080) 2210692	2270172
Mangalore	(0824) 453316	453316
HYDERABAD (BRANCH)	(040) 3702964 (040) 3703936	3703882
COCHIN (BRANCH)	(0484) 390567 (0484) 395694	395984
Thiruvananthapuram	(0471) 338873	-
Calicut	(0495) 325433	-

NORTHERN REGION

DELHI (BRANCH)	(011) 3238501 (011) 3238499	3234390
Chandigarh	(0172) 647826 (0172) 663669	604625
LUCKNOW (BRANCH)	(0522) 238531 (0522) 238533	272698
Ghaziabad	(0575) 734969	741335

Backed by: Voltas countrywide after sales service.



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Air Conditioning & Refrigeration Business Group

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Visit us on: www.voltasltd.com

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