



BLUE STAR



NEXT GENERATION
INVERTER
DUCTED SYSTEM

Next Generation Inverter Ducted System
LOWER ENERGY CONSUMPTION.
HIGHER COMFORT.



Blue Star is the market leader in the ducted air conditioning space for the last three decades. The widest range of products in this category is available with Blue Star which includes hi-per, hi-sen, water cooled and air cooled. The First generation Inverter Ducted Systems gained wide acceptance across the segments like retail, light commercial, offices and educational Institutes.

Blue Star is proud to introduce the new generation Inverter ducted System which shifts the paradigm of energy efficiency to the next level. The new generation inverter ducted systems are designed with high efficient Inverter compressors, super precise electronic expansion valves and advanced electronics which will bring the efficiency levels closer to the VRF systems.

BLUE STAR'S NEXT GENERATION INVERTER DUCTED SYSTEM

Blue Star's Next Generation Inverter Ducted System is designed with an advanced energy-efficient inverter compressor technology and unique logic control which modulate the capacity of the system precisely to meet the actual load requirement inside the conditioned space.

The Next Generation Inverter Ducted System also features many other sophisticated controls that increase efficiency and improve user-friendliness.



Indoor Unit



Outdoor Unit

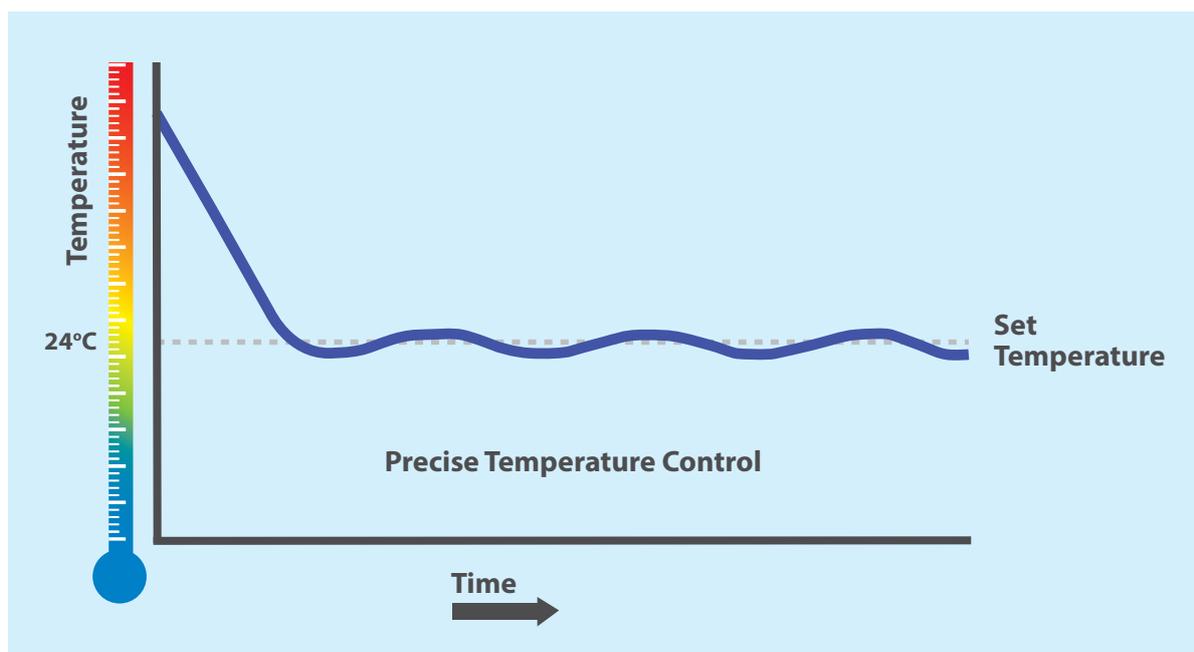
ADVANCED INVERTER COMPRESSORS AND CONTROLS

Next Gen inverter ducted units are equipped with the latest technology inverter compressors. These compressors can handle variable compression ratios effectively and handle variable load requirements efficiently.

The special electronic expansion valves with 3000 steps used in these systems will take care of the precise control of temperature in steps of 0.1°C.



UNIFORM & PRECISE TEMPERATURE CONTROL



High efficient Design - Outstanding Performance

With Blue Star's expertise in ducted system design, the new generation inverter ducted units have been designed with special oversized indoor and outdoor coils. These special design heat exchangers result in efficient performance of the system during various part-load and full-load conditions.

Higher Ambient operation

Most of the air conditioners are designed to operate only up to 45°C beyond which machines shall trip. India is a tropical country where the temperature soars beyond 42°C during summer. The urban heat effect will further add the working conditions by 3 to 4°C.

New gen inverter ducted systems are designed to operate at the typical Indian higher ambient conditions.

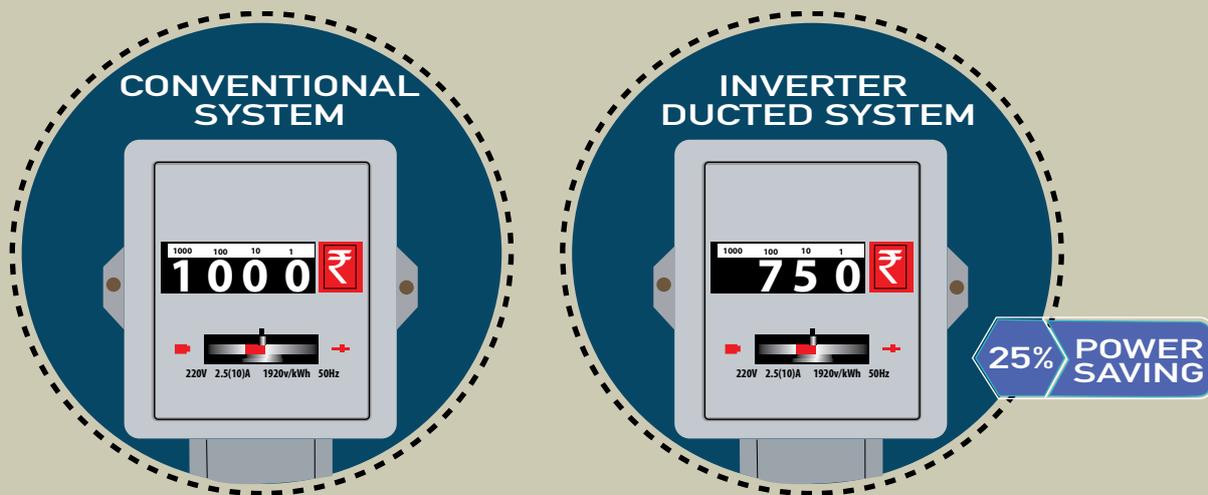
Inverter PCBs are refrigerant-cooled. The enhanced heat exchanger design along with the refrigerant-cooled PCBs result in reliable operation even at very high ambient temperatures like 52°C.



Power Savings:

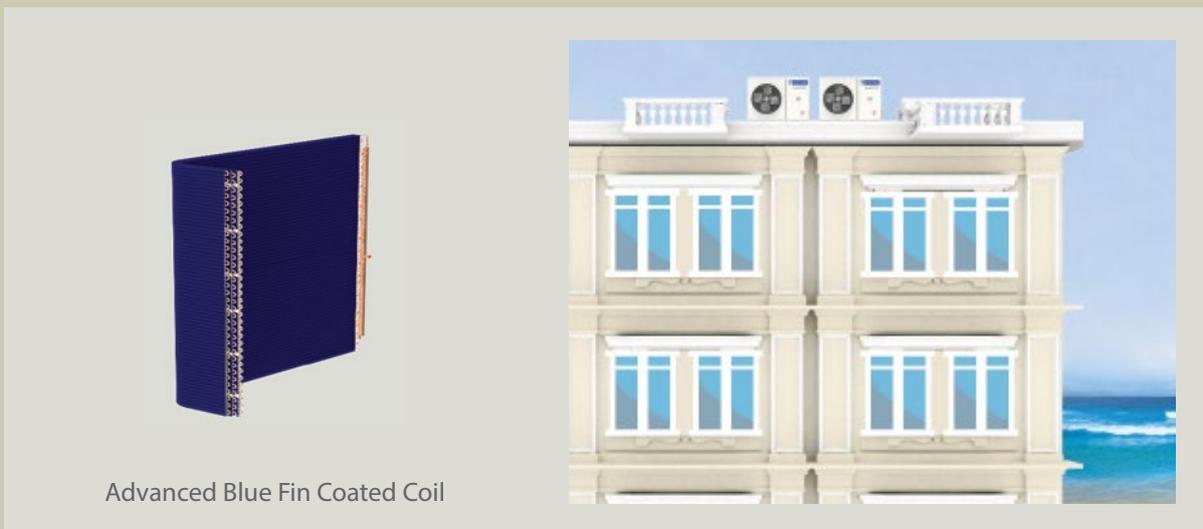
The high efficient inverter compressors, specially designed outdoor and indoor units, super precise electronic expansion valves and sophisticated electronics make the Blue Star's New Gen Inverter Ducted System, highly energy efficient. The Machines can also precisely regulate the capacity based on the internal loads and external ambient. These features offer phenomenal 25% annualised power saving compared to any conventional ducted system.

The return on investment will be less than 12 months.



Suited for coastal areas:

Specially-treated and coated blue fins are used in the heat exchangers which not only improve heat transfer rates but are also resistant to corrosion, resulting in longer life.



Enhanced Aesthetics

The next gen inverter ducted systems are designed with accumulators and intelligent oil control logic at various speeds.

This enables to have the piping length up to 60 m. The Outdoor units can be positioned in a terrace or in remote locations which shall help maintain external building aesthetics.



Multi Outdoor Advantage

The multi outdoor system can run uninterruptedly with one ODU even in a rare case of any failure of other ODU, this happens automatically and no manual intervention is required.

AHU Integration

Non-standard AHUs with different static and CFM will be required for special applications like hospitals, clean rooms, banquet halls, etc. Specially designed AHU kits facilitate this AHU integration.

Inverted ducted system's outdoor units can be coupled with nonstandard AHUs by the specially designed AHU kits.

A single AHU kit allows integration of AHUs up to a capacity of 33TR.

AHU Kit Range: 5TR to 33TR.

This feature is ideal for retrofit projects where we can replace the old conventional power gusting systems with energy efficient next generation Inverter systems.





Economy Mode

Economy mode helps optimise the total running cost by limiting the capacity of the system.

Lower Starting Current

In the conventional ducted system, starting current can be as high as 4 times the running current. This will result in oversizing the electrical components and the backup generators. The total power sanctions must also consider the starting current surge in to account which will be additional investments.

The inverter compressors can start in an unloaded condition which will require very low starting current. This will benefit in optimising the power requirements of the premises, electrical components and the generator sizing minimum by 30%.





Touch Screen Controller

The Blue Star Inverter Ducted System comes with a touch screen based controller and blue backlight. Controllers are elegant looking with many user friendly features.

Salient features of the Controller



Compressor status indication



Error reset



Room temperature display



Error indication



Wide temperature range 19 - 32°C



ON-OFF timer



Special Control Features

The New Generation Inverter Ducted System comes with a variety of control options.

Group Controls: Up to 16 units can be integrated and controlled through a group controller, this will enable to control the entire air conditioning from a single source.

BMS Integration: Inverter ducted units can be integrated with third-party BMS networks through Modbus RTU Communication Protocol using add-on cards. Up to 60 units can be connected to the MODBUS Master through optional converters.



Options are also available to convert to other protocols like Bacnet, Lonworks etc.

NEXT GENERATION INVERTER DUCTED SPLIT AIRCONDITIONERS

Technical Data

Description	Units	DSAI-601R3A	DSAI-961R3A	DSAI-1321R3A	DSAI-1982R3A		DSAI-2642R3A	
Nominal Cooling Capacity	HP	6.25	10	14	21		28	
	TR	5	8	11	16.5		22	
	Btu/Hr.	60000	96000	132000	198000		264000	
Refrigerant		R410A						
Power Supply(AC)		415 V, 3 Phase, 50 Hz						
External Finish		Pure Polyester Power Coated GI Steel						
Indoor Unit								
Dimensions								
Width	mm	1140	1485	1840	2035		2115	
Depth	mm	630	630	630	1085		1005	
Height	mm	485	485	485	555		865	
Weight of indoor unit	Kg	55	75	90	150		210	
Power Supply (AC)		230 V, Single Phase, 50 Hz						
Type of Blower		Centrifugal Forward Curved, Double Inlet, Double Width						
Nominal Airflow	CFM	2200	3400	4400	6800		8800	
	CMH	3740	5770	7470	11545		14940	
Capacity Control		Stepless						
Air Filter		Non woven Polyester media enclosed in HDPEmesh						
Controller		Innovative Intelligent Inverter Controller						
Outdoor Unit								
Quantity	Nos.	1	1	1	2		2	
		5TR (Inverter)	8TR(Inverter)	11TR(Inverter)	11TR (Inverter)	5.5TR (Fixed)	11TR (Inverter)	11TR(Fixed)
Dimensions								
Width	mm	1020	1320	1320	1320	1020	1320	1440
Height	mm	925	925	1495	1495	925	1495	920
Depth	mm	416	416	416	416	416	416	625
Compressor/per ODU		1	1	1	1	1	1	1
Weight of outdoor unit (Net)	Kg	95	125	155	155	95	155	170
Power Supply (AC)		415 V, 3 Phase, 50 Hz , AC						
Condenser Fan Type		Propeller						

*Specifications are subject to change due to continuous product improvement.



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Blue Star products comply with RoHS regulations as per E-Waste (Management & Handling) Rules, 2016. For disposal of E-Waste, kindly visit our website www.bluestarindia.com or call our customer care 1800 209 1177 (Toll Free) or 1860 266 6666.