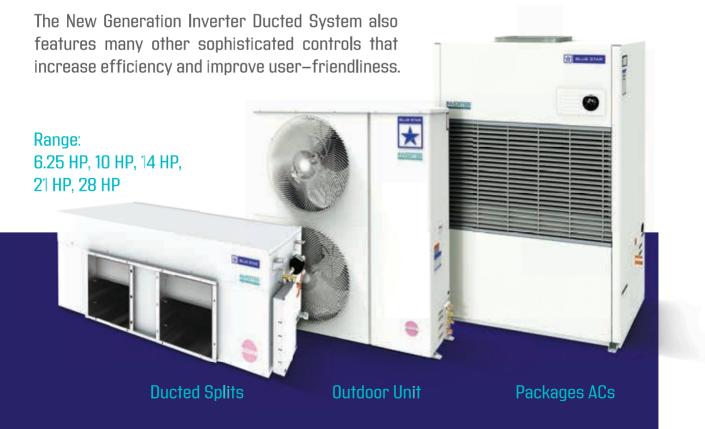


Blue Star is the market leader in the ducted air conditioning space for the last three decades. The widest range of products in this category is available with Blue Star which includes hiper. hisen, water cooled and air cooled. The First generation Inverter Ducted Systems gained wide acceptance across 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 NEW GENERATION INVERTER DUCTED SYSTEM

Blue Star's New 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.

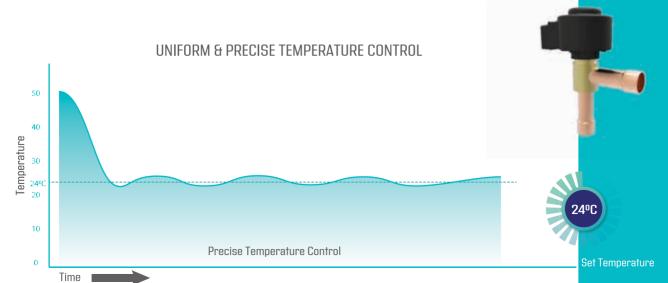


ADVANCED INVERTER COMPRESSORS AND CONTROLS

New generation 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.





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%.







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.

REFRIGERANT COOLED HEAT SINK

Inverter PCBs are refrigerant cooled with unique heat sink. This design enhances reliability at higher ambient temperature 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 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.

URBAN HEAT EFFECT



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 systems.

The return on investment will be less than 12 months.

CONVENTIONAL SYSTEM



INVERTER DUCTED SYSTEM





Suited for coastal areas:

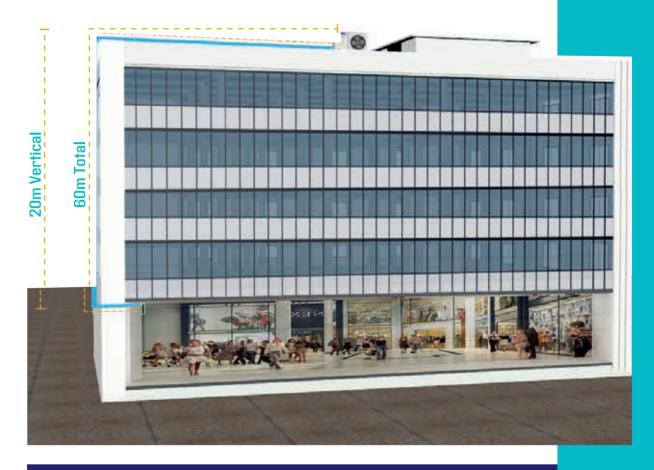
Specially—treated and coated blue fins are used in the heat exchangers which not only improve heat transfer rates but are also resistant to corrosion, resulting in longer life.



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 60m. 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 non-standard AHUs by the specially designed AHU kits.

A single AHU kit allows integration of AHUs up to a capacity of 22TR.

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



AHU Kit Range: 5TR to 22TR.



TOUCH SCREEN CONTROLLER FOR DUCTED SPLITS

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













Touch Screen Controller Device





SPECIAL CONTROL FEATURES

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

Group control

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.



Air Cooled Packaged Air Conditioners- Inverter Type

DESCRIPTION	UNITS	DPAI-601R3A	DPAI-961R3A	DPAI-1321R3A	DPAI-1982R3A	DPAI-2642R3A
	HP	6.25	10	14	21	28
Nominal Cooling Capacity	TR	5	8	11	16.5	22
	Btu/Hr.	60000	96000	132000	198000	264000
Refrigerant		R410A				
Power supply (AC)	V/Ph/Hz	415V, 3 phase, 50Hz				
External Finish		Pure Polyester Power Coated GI Stee				

			INDOOR UNIT				
Dimensions							
Width	mm	900	1160	1160	1500	1500	
Depth	mm	660	660	660	750	930	
Height	mm	1700	1700	1700	1750	1950	
Weight of indoor unit	kg	185	235	250	410	480	
Power Supply (AC)		415V, Three Phase, 50 Hz					
Type of Blower		Centrifugal forward curved, double inlet, double width					
Nominal Air flow	CFM	2200	3750	4400	6600	8800	
Nullillal All. How	СМН	3740	6371	7470	11210	14940	
Compressor Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)	
Compressed time		Hannatiaally agalad	Determ DC Inventor	Hermetically Sealed	Hermetica	ally Sealed	
Compressor type		Hermetically sealed Rotary DC Inverter Inverter Scroll Inverter Scroll Inverter Scroll					
Air Filter		Non woven polyester media enclosed in HDPE mesh					
Controller		Innovative intelligent inverter controller with touch screen display					
Capacity Control		Stepless					

OUTDOOR UNIT							
Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)	
Dimensions							
Width	mm	1020	1320	1435	1435 +1020	1435 +1435	
Height	mm	925	925	947	947+925	947+947	
Depth	mm	416	416	635	635+416	635+635	
Weight	kg	50	65	130	130+50	130+130	
Power Supply (AC) to motor		230V, 1 ph, 50Hz	415V, 3 ph, 50Hz		230V, 1 ph, 50Hz		
Condenser Fan type				Propeller			

 $Specifications \ are \ subject \ to \ change \ without \ any \ prior \ notification \ due \ to \ continuous \ product \ improvement$

Air Cooled Ducted Split Air Conditioners- Inverter Type

DESCRIPTION	UNITS	DSAI-601R3A/B	DSAI-961R3A/B	DSAI-1321R3A/B	DSAI-1982R3A/B	DSAI-2642R3A/B	
	HP	6.25	10	14	21	28	
Nominal Cooling Capacity	TR	5	8	11	16.5	22	
	Btu/Hr.	60000	96000	132000	198000	264000	
Refrigerant			R410A				
Power supply (AC)	V/Ph/Hz	415V, 3 phase, 50Hz					
External Finish		Pure Polyester Power Coated GI Stee					
Capacity Control		Stepless					

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)		215V, Single Phase, 50 Hz					
Type of Blower		Centrifugal forward curved, double inlet , double width					
Nominal Air flow	CFM	2200	3400	4400	6600	8800	
Nullillal All. How	СМН	3740	5770	7470	11210	14940	
Air Filter		Nonwoven polyester media enclosed in HDPE mesh					
Controller		Innovative intelligent inverter controller with touch screen display					

OUTDOOR UNIT								
Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11 TR + 11TR)		
Dimensions								
Width	mm	1020	1320	1320	1320+1020	1320+1320		
Height	mm	925	925	1495	1495+925	1495+947		
Depth	mm	416	416	416	416+416	416+635		
Weight	kg	95	125	155	155 + 95	155+155		
Compressor Quantity	No.	1	1	1	2 (11TR + 5.5TR)	2 (11TR + 11TR)		
Compressor type		Hermetica v sealed	L Dotony DC Inventor	Hermetically Sealed	Hermetically Sealed			
Compressor Type		nermentally sealed	Rulary DC Inverter	Inverter Scroll	Inverter Scroll + Fixed Scroll			
Power Supply (AC) to motor		230V, 1 ph, 50Hz 415V, 3 ph, 50Hz 230V, 1 ph, 50Hz						
Condenser Fan type		Propeller						





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