
BLUE STAR
INVERTER
THE NEW REFERENCE FOR 'SLEEK' AND 'SAVINGS'.
VRF V S
100% INVERTER

Blue Star is India's leading HVAC solutions provider with more than 75 years of experience in this industry.

Blue Star is always committed to come up with products very suitable for Indian tropical conditions. VRF V S is new Side Discharge VRF System with many distinguishing features very relevant for India.

VRF VS that was developed, tested and validated in our NABL accredited R&D lab is being manufactured in Blue Star's State of the art manufacturing facility at Dadra. It is very sleek and compact , powerful and efficient product.

Apart from its wide range of products and solutions, Blue Star is also committed to its customers with wide service network across the length and breadth of the country.

VRF V S - Outdoor Units Line up

4HP	5HP	6HP	8HP	10HP	12HP	14HP	16HP

Indoor Units Line up

Appearance	Type	0.6TR	0.8TR	1TR	1.3TR	1.5TR	1.6TR	1.7TR	2TR	2.3TR	2.5TR	2.8TR	3TR	3.2TR	4TR	5TR	6TR	8TR	10TR
	Hi-Wall Units		●	●	●	●		●	●		●	●							
	Four-Way Cassettes			●	●	●		●	●	●		●		●	●	●			
	Compact Cassettes	●	●	●	●	●													
	One-Way Cassettes	●	●	●	●		●		●										
	Two-Way Cassettes	●	●	●	●	●		●	●										
	Floor Cum Ceiling Mounted Units					●			●				●		●	●			
	Verticools								●	●		●		●	●				
	Concealed Splits		●	●	●	●			●										
	Ductable IDUs					●			●		●		●		●	●	●	●	
	Floor Mounted Packaged Units															●		●	●

Treated Fresh Air Unit	3.5 TR	5.5 TR	6.8 TR

AHU Kit	5TR	6.5 TR	8 TR	10 TR	12.5 TR	15 TR

Wide Range of Controllers

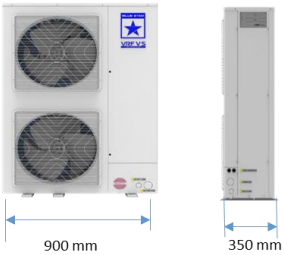
VRF V S Features

Compact Design with Less Foot Print

Sleek and Compact Design:

This unit is very suitable for applications where floor space is limited or not available.

Light weight and compact construction makes it suitable for mounting on wall or balconies saving floor area.



Efficient DC Inverter Compressors

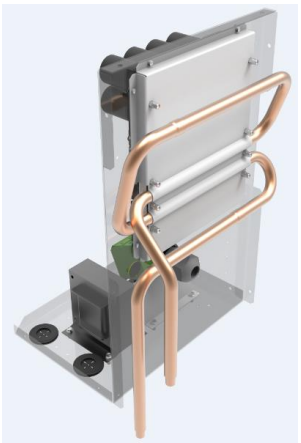
Optimally selected inverter compressors used in these units are very efficient at partial load conditions.

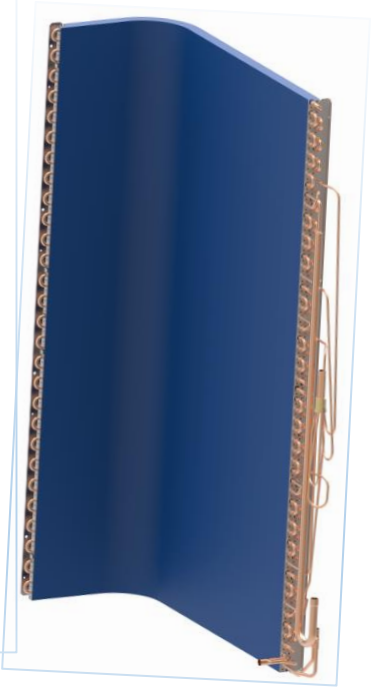
Special design motor with permanent rare earth magnet and concentrated winding increases the efficiency of the compressor by 7%

Superior internal oil lubrication results in reliable operation

Unique Design

- With CFD analysis, outdoor units are designed for maximum airflow with minimum pressure drop
- Condenser coil are made out of helical inner grooved copper tubes for maximum heat transfer efficiency
- Coated Aluminium fins for corrosion resistance
- Refrigerant cooled heat sink ensures reliable operation even at very high ambient temperature as high as 56 deg. C
- Weather proof design with Power coated sheet metal enclosure





Special BLDC Motor

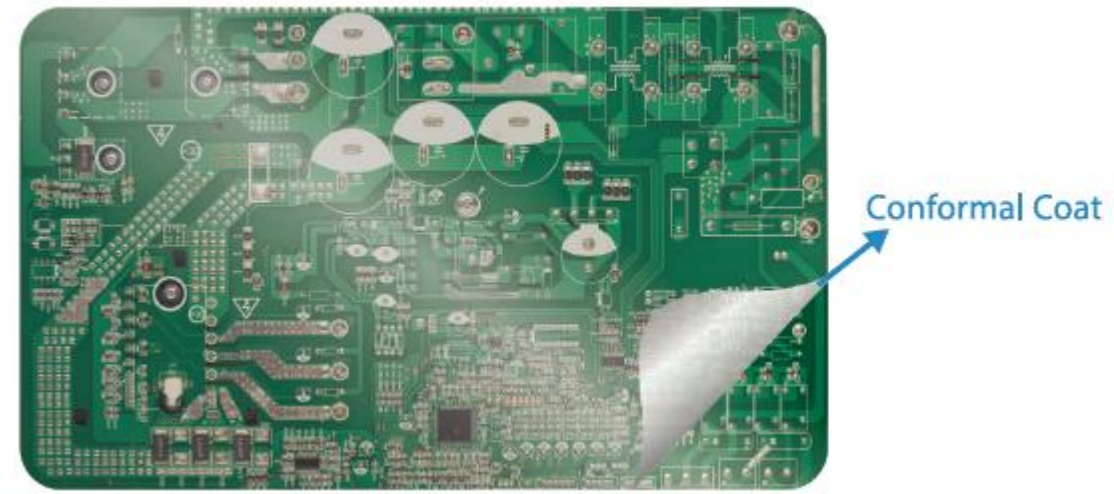
Special BLDC type fan motor used in this unit is 30% more efficient as compared to conventional motors.

It gives flexible capacity control with unique speed control design logic

Conformal Coating for PCBs

All the PCBs are coated with a special acrylic-based polymer film. This special conformal coat adheres to the norms of circuit board topology

This special coating protects PCBs from the harmful effects of Moisture, Heat, Fungus, Chemical , Dust



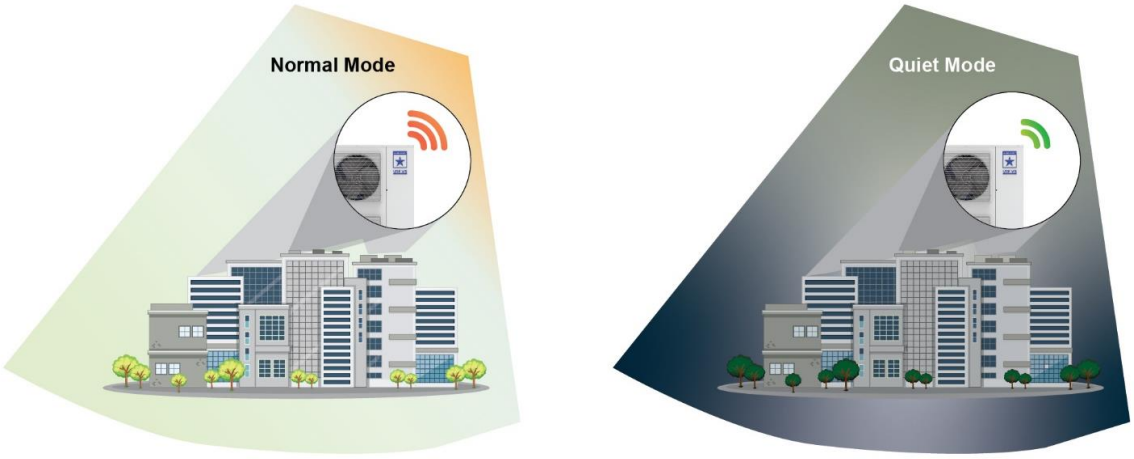
Economy Mode for Power Saving

In Economy mode, we can set the capacity of the unit at 25%, 50 % and 75% as per the requirement. This will help for optimal utilisation of capacity to match with the required load, which in turn can result in power savings

This feature also helps to run the system with lower capacity power back generator

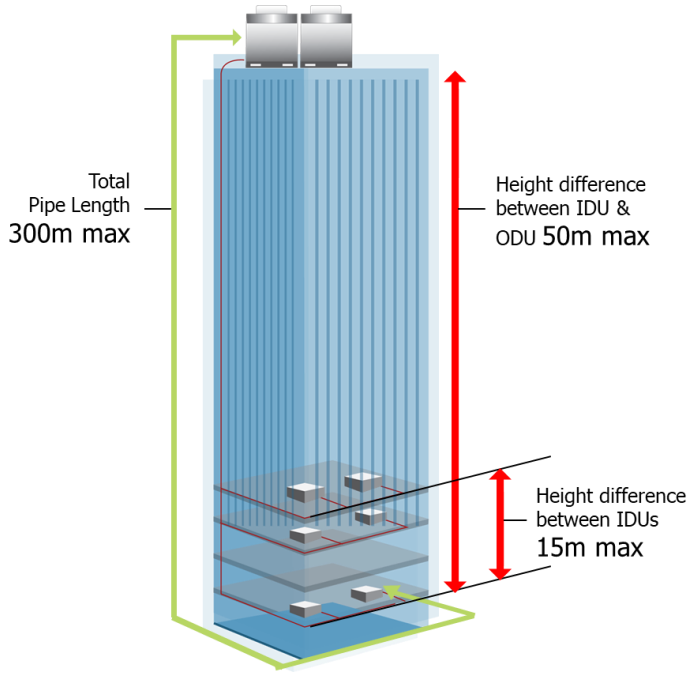
Quiet Mode Operation

Quiet mode operation is helpful in night time when ambient noise is relatively lower and noise from AC can be disturbing for the occupants in the nearby areas. With this feature, the outdoor unit can be made to operate at lower speed of condenser fan motor and compressor.



Longer Refrigerant Piping

Longer refrigerant pipe length as high as 300m total length is possible. Locating the outdoor unit away from the conditioned space can improve the aesthetics of the building. Level difference between outdoor and indoor units can be as high as 50 m.



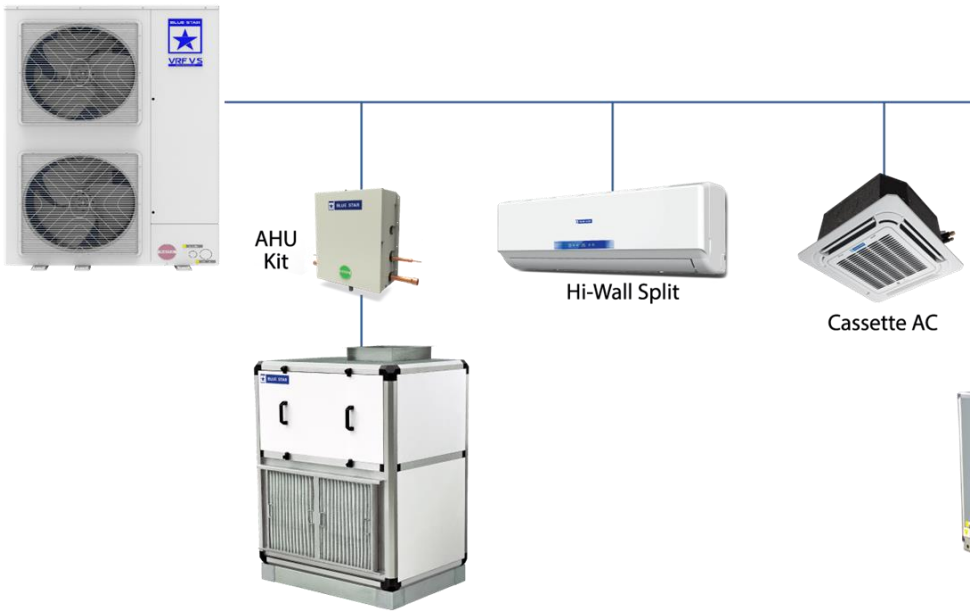
AHU Operation with VRF V S System

AHUs can be integrated with VRF V S outdoor units with the help of AHU kits.

With specially designed Blue Star AHU kit, we can connect customised AHUs to VRF outdoor units to suit various applications like pharma requirements, operation theatres in hospitals, function halls, banquet hall etc.

With the help of AHU kits, Blue Star's Side Discharge VRF System can be used for variety of applications without any limitation.

Along with AHUs, other conventional VRF indoor units can also be integrated. This feature is very unique to Blue Star VRF System.



Key Card and Motion Sensor Control

This feature is very useful in applications like hotels, hospitals or hostel rooms for ON/OFF of the indoor units through key card access.

This feature is inbuilt with most of the indoor units.

This can also be integrated with motion sensors as per the requirement.

Technical Data- VRF V S

Side Discharge VRF Outdoor Units - Technical Data									
Description	**Unit**	**IVRFB-04SC/SH**	**IVRFB-05SC/SH**	**IVRFB-06SC/SH**	**IVRFB-08SC/SH**	**IVRFB-10SC/SH**	**IVRFB-12SC/SH**	**IVRFB-14SC/SH**	**IVRFB-16SC/SH**
Capacity	**HP**	**4**	**5**	**6**	**8**	**10**	**12**	**14**	**16**
Nominal Cooling Capacity	TR	3.2	4	4.8	6.4	8	9.6	11.2	12.8
	kW	11.2	14.0	16.9	22.4	28.0	33.6	39.4	45.0
Nominal Heating Capacity	kW	12.3	15.4	18.6	24.6	31.0	37.0	43	49.5
Dimensions WxDxH	mm	900 x 350 x 1215	900 x 350 x 1215	900 x 350 x 1215	1020 x 420 x 1465	1020 x 420 x 1465	1020 x 420 x 1465	1320X420X1640	1320X420X1640
Net Weight	kg	95/97	101/103	111/114	153/156	163/166	176/180	236/240	238/242
Operating Temperature Range	Cooling Mode	10 deg.C to 56 deg. C							
	Heating Mode	-10 deg.C to 24 deg. C							
Electrical Power Supply		220-240/1PH/50Hz ±10%		380-415/3PH/50Hz ±10%					
Refrigerant		R410A							
Refrigerant Pre Charge	kg	3.3	3.7	4.2	5.7	7.9	9	11	11.5
Compressor	Quantity-No.	1	1	1	1	1	1	1	1
	Type	Hermetically Sealed Twin Rotary DC Inverter						Hermetically Sealed DC Inverter Scroll	
Type of Condenser		Tube Fin Type Air cooled							
Fan Type		Axial Flow Type							
No. of Fan	No	1	1	1	2	2	2	2	2
Air Quantity	CFM	4000	4000	4000	5500	6400	6400	7700	7700
Motor Type		Brushless DC							
Motor Quantity	No.	1	1	1	2	2	2	2	2
Power supply to Motor		230V, 50Hz, Single Phase							
Field Suction Pipe-OD	mm	Φ15.9	Φ15.9	Φ19.01	Φ22.2	Φ22.2	Φ28.6	Φ28.6	Φ28.6
Field Liquid Pipe-OD	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7

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NOBODY COOLS BETTER™