







THE NEW REFERENCE FOR 'SLEEK' AND 'SAVINGS'.



Blue Star is India's leading HVAC solution provider with more than 75 years of experience in the industry. The Company is always committed to launching products that are perfectly suited to the tropical conditions prevailing in India.

Apart from its wide range of products and solutions, Blue Star is also committed to providing world-class service and after-sales support to its customers through its service network across the length and breadth of the country. The new VRF V S is a Side Discharge VRF System with many distinguishing features relevant for use in India.

The VRF V S, developed, tested and validated in Blue Star's NABL-accredited R&D lab, and manufactured at the company's state-of-the-art manufacturing facility in Dadra, is sleek, compact, powerful and efficient.

What's more, the VRF V S comes with a range of indoor units suitable for a variety of needs and with many control options.



CUTTING EDGE R&D

Blue Star's innovations are created at the company's high—end R&D facilities that have been established over many decades by the brightest minds, using the latest equipment including many advanced engineering design software tools.

The Company's R&D facility is also equipped with the most advanced Psychrometric Test Lab. This Laboratory at Dadra has been certified to be in accordance with the Standard ISO/IEC 17025:2017 "General Requirements for the Competence of Testing & Calibration Laboratories" by The National Accreditation Board for Testing and Calibration Laboratories (NABL).



The scope of this accreditation includes many international and Indian standards like EN, AHRI, UAE, S, SASO, GSO, etc.

WORLD-CLASS MANUFACTURING

Blue Star's manufacturing prowess is spread out across seven state-of-theart manufacturing facilities in the country. The VRF V S system is manufactured at the modern Dadra facility which is constructed to match international standards.

The products manufactured at this ISO 9001:2015 and ISO 45001:2018 certified factory are not only sold across India but also exported to various countries across the globe.







OUTDOOR UNITS LINE-UP

Both Cool only and Heat Pump options are available:



Indoor Units Line-Up

Appearance	Туре	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					•			•				•		•	•			
Ĺ	Verticools								•	•		•		•	•				
	Concealed Splits		•	•	•	•			•										
-	Ductable IDUs					•			•		•		•		•	•	•	•	
	Floor Mounted Packaged Units															•		•	•
	Treated Fresh Air Units	3.5 TF	8 5.5	TR	6.8 TR														

	Treated Fresh Air Units	3.5 TR	5.5 TR	6.8 TR				
1k	AHU Kits	3 TR	5 TR	6.5 TR	8 TR	10 TR	12.5 TR	15 TR

COMPACT DESIGN

The VRF V S outdoor unit is extremely sleek and compact. Its light—weight design makes it suitable for mounting on the wall or in the balcony, which saves floor space.

In certain applications like residential complexes, a large number of outdoor units need to be mounted. These units can be fitted in the available balcony space of each apartment which allows the occupants to have their own independent unit within their premises for better control and service access.

Since many indoor units can be connected to a single outdoor unit, the number of exposed outdoor units is reduced, resulting in better exterior aesthetics.





UNIQUE FEATURES

Efficient DC Inverter Compressors

The VRF V S system is equipped with a specially designed inverter compressor and an intelligent control drive which assures:





Temperature control with + 0.5° C or - 0.5° C accuracy to ensure uncompromised comfort



Better internal oil lubrication resulting in reliable operation



Very low starting current, hence lower capacity generator is sufficient, which saves the cost on power back—up system



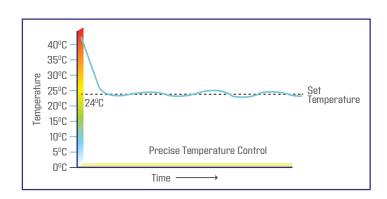
Part load operation maximum efficiency

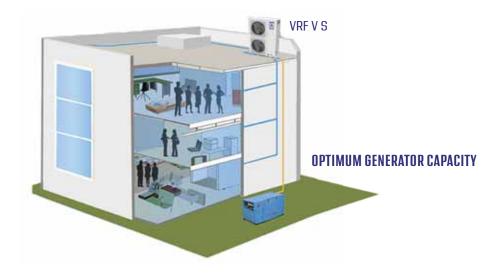


A specially designed motor with a permanent rare earth magnet and concentrated winding which increases the efficiency of the compressor by 7%



Quieter operation





Unique Design

- CFD analysis ensures that the outdoor units are designed for maximum airflow with minimum pressure drop
- Condenser coil made of helical inner-grooved copper tubes for maximum heat transfer efficiency
- Aluminium-coated fins for corrosion resistance
- Refrigerant-cooled heat sink ensures reliable operation even at ambient temperatures as high as 56°C
- Weather-proof design comes with powder-coated sheet metal enclosure
- Special BLDC type fan motor is 30% more efficient than conventional motors and gives flexible capacity control with a unique fan speed control design logic
- Conformal Coating for PCBs: All the PCBs are coated with a special acrylic-based polymer film that adheres to the norms of circuit board topology and protects PCBs from the harmful effects of moisture, heat, fungus, chemicals and dust



With the above special design considerations, Blue Star's VRF V S System can work non-stop even at 56° C, and is well-suited for Indian tropical conditions.

Efficiency with Flexibility

The efficiently engineered VRF V S system gives a full load COP as high as 3.8. This leads to huge power—saving while offering you utmost comfort.

The VRF V S system is well-suited for part load operation, which allows great functionality even with only a few units connected and running while other units are switched off.

The overall efficiency of the system increases during part loads, thanks to special inverter compressors and other unique controls. The system is ideal for applications like residences wherein part load operations are common.





Demand Control Mode for Economy Operation

By enabling the Demand Control mode, the capacity of the unit can be set at 25%, 50%, 75%, or 100% as per the requirement. This will enable optimal utilisation of air conditioning capacity to match the required demand in load, which in turn can result in enormous power savings with higher overall efficiency.

Setting higher inside—temperatures will reduce the power consumption considerably This scenario will be very common in applications where higher inside—temperatures are preferred by the occupants.

Optimal selection of backup power generator for running the air conditioning system. The generator power need not be at full capacity if the air conditioners are required to operate only in a few important areas during a power failure.

During low ambient temperature conditions, a lower air conditioning capacity will be sufficient to cool the space.



Quiet Mode

Quiet mode is a unique feature which will ensure silent operation of the units. This feature is especially useful for night time operation in residences or when the outdoor units are located close to occupied areas.

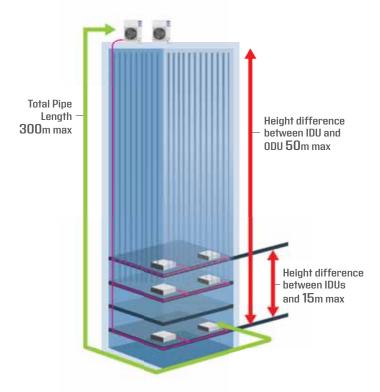
In this mode, both the compressor and condenser fan housed in the outdoor unit operate at a lower optimal speed, thereby reducing operating noise.

The start time and end time of this feature can be set to suit the required time of the operation.



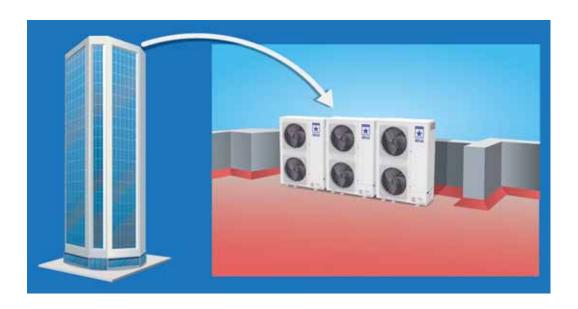


ENHANCED AESTHETICS WITH LONG REFRIGERANT PIPING



The VRF V S system is designed to support refrigerant pipe lengths running as long as 300 metres. This helps situate the outdoor unit away from the conditioned space, a feature that can vastly improve the aesthetics of any building.

The height difference between outdoor and indoor units can be as high as 50 metres, making the VRF V S system suitable for highrise buildings too.



Heat Pump Option

The VRF V S system is also available with a heat pump option. While the cooling mode takes care of the summer requirements, the heating mode which uses a heat pump unit takes care of the winter heating requirements, making this system an all—weather air conditioning companion, useful throughout the year.



VRF V S for Special Applications

AHUs can be integrated with the VRF V S outdoor units with the help of Blue Star's AHU control kits.

With the company's specially-designed AHU kit, customised AHUs can be connected to the outdoor units to suit various applications like pharmaceutical air conditioning requirements, operation theatres in hospitals and event halls, etc. which require non-standard cooling.

With the help of AHU kits, Blue Star's Side Discharge VRF V S System can be used for a variety of applications without any limitations. Along with AHUs, other conventional VRF indoor units can also be integrated with the system. This feature is unique to the company's VRF V S System.





SOPHISTICATED CONTROLLERS

The VRF V S system comes with a versatile range of controller options including:

- Standalone wired and wireless remotes
- Group Controller for controlling a group of indoor units
- Wi-Fi-based Central Control System through Tab for controlling a large number of indoor units
- Computer-based control
- Web-based control from remote locations using a smart phone and an advanced mobile app
- Key Card and Motion Sensor
- BMS integration and home automation
- Tenant Billing System for multi-tenant premises



Wi-Fi-based Central Control System

The Wi-Fi-based Centralised Control System enables the user to operate multiple indoor units from a central location with the help of a dedicated Android or IOS-based tab from anywhere in its Wi-Fi range within the conditioned space.

Up to 16 outdoor units with multiple indoor units can be controlled using this system. The Wi-Fi-based device is designed to be conveniently mounted on a wall or ceiling.

The outdoor unit(s) can be located remotely up to a maximum distance of 800 metres away, and connected through RS485 communication wire to the device that generates the Wi-Fi signal.



Home Automation System

The Blue Star Side Discharge VRF V S System can be integrated and operated with any of the home automation systems used in residences for other services like the lighting system and the home theatre system which have a special interface device. Air conditioners can be operated along with other devices through a common handheld tab.



KEY CARD AND MOTION SENSOR CONTROL

The VRF V S indoor units can be switched ON or OFF through a key card or motion sensor without disconnecting the power. This feature is very useful for applications in hotels, hospitals, hostel rooms and other places that use key card access to turn the indoor units on and off.

This feature is built into most of the indoor units.

The unit can also be integrated with motion sensors wherever required.





RANGE OF INDOOR UNITS TO ENHANCE INTERIOR AESTHETICS

HI-WALL UNITS





Efficiently Designed



Available in 8 models starting from 0.8TR



Multiple fan speed options



Flexible air flow pattern



Multilevel filtration

Technical Specifications:					-			-	
Model No.		VHW-10B	VHW-12B	VHW-16B	VHW-18B	VHW-20B	VHW-24B	VHW-30	VHW-34
0 1: 0 ::	TR	0.8	1.0	1.3	1.5	1.7	2.0	2.5	2.8
Cooling Capacity	kW	2.9	3.5	4.7	5.3	6	7	8.8	10
Heating Consolts	TR	0.9	1.1	1.5	1.7	1.9	2.2	2.8	3.1
Heating Capacity	kW	3.2	3.9	5.2	5.8	6.6	7.7	10.0	10.9
Electrical Power Supply		230V, Single Phase, 50 Hz AC supply							
Air Flow (Hi/Med/Lo)	CFM	325/275/200	375/320/275	450/405/305	500/410/320	585/530/485	640/545/490	875/720/560	945/720/560
Sound Level	dB(A)	30	31	33	37	41	43	43	43
Fan Motor Input Power	W	30	30	30	30	50	50	105	105
Current	A	0.2	0.2	0.24	0.24	0.36	0.36	0.6	0.6
Filter Specification		Dust & Health Filters	Dust & Health Filters	Dust & Health Filters	Dust & Health Filters	Dust & Health Filters	Dust & Health Filters	Dust	Filter
Refrigerant Pipe Connections									
Liquid Pipe - Dia	mm	6.35	6.35	6.35	6.35	9.5	9.5	9.5	9.5
Gas Pipe – Dia	mm	9.5	9.5	12.7	12.7	15.9	15.9	15.9	15.9
Type of Pipe Connection					Flar	red			
Net Dimensions (WxHxD)	mm	845 x 300 x 193	845 x 300 x 193	960 x 320 x 215	960 x 320 x 215	1110 x 335 x 215	1110 x 335 x 215	1350X258X326	1350X258X326
Net Weight	kg	10	10	12	12	15	15	18.5	18.5

CASSETTES





Compact (600 X 600) and Large (840 X 840) panel options



BLDC motor



Wide-angle flow



Fresh air provision



In built drain pump



Multi Mode function

Technical Specifications:

Large Cassettes

DESCRIPTION	UNITS	VLC-12	VLC-16	VLC-18	VLC-20	VLC-24	VLC-27	VLC-34	VLC-38	VLC-48	VLC-60 A
	TR	1	1.3	1.5	1.7	2	2.3	2.8	3.2	4	5
Nominal Cooling Capacity	kW	3.5	4.6	5.3	6	7	8.1	9.8	11.3	14.1	17.6
Naminal Hastina Conseitu	TR	1.1	1.4	1.7	1.9	2.2	2.5	3.1	3.5	4.4	5.5
Nominal Heating Capacity	kW	3.9	5.0	5.8	6.6	7.7	8.9	10.8	12.4	15.5	19.3
Electrical Power Supply	V/Ph/Hz					230 V, 1 Ph	ase, 50 Hz ac				
Air Flow	CFM	470/415/355	470/415/355	490/445/385	650/560/475	695/590/530	695/590/530	945/825/710	1095/855/770	1095/855/770	1295/1120/915
Sound Level	dB(A)	36	36	36	37	38	38	40	41	43	47
Fan Motor Input Power	W	48	48	48	59	59	59	98	98	98	120
Fan Motor Rated Current	A	0.4	0.4	0.4	0.5	0.5	0.5	0.8	0.8	0.8	0.6
Refrigerant Pipe Connections											
Liquid	mm		Φ 6.5					Φ 9.5			
Gas	mm		Φ 12.7				Ф1	5.9			Ф 19.1
Type of Connection						FI	ared				
Drainage Pipe Dia	mm						25				
Dimensions (WxDxH)	Indoor Unit		840 X 840 X 190			840 X 840 X 240		840X 840 X 320			910 X 910 X 293
	Grill	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	950 X 950 X 65	1040 X 1040 X 65
Net Weight	Indoor Unit	22.5	22.5	22.5	26.5	26.5	26.5	32.5	32.5	32.5	44.5
	Grill	7	7	7	7	7	7	7	7	7	8

Compact Cassettes

DESCRIPTION	UNITS	VCC-08	VCC-010	VCC-12	VCC-16	VCC-18				
	TR	0.6	0.8	1.0	1.3	1.5				
Nominal Cooling Capacity	KW	2.1	2.9	3.5	4.7	5.3				
Newtool Heating Operation	TR	0.6	0.9	1.1	1.5	1.7				
Nominal Heating Capacity	KW	2.3	3.2	3.9	5.2	5.8				
Electrical Power Supply		230Volts, Single Phase, 50Hz AC Supply								
Air Flow (Hi/Med/Lo)	CFM		385/325/265		412/38	35/355				
IDU Noise Level(Lo)	dB(A)		41	45						
Fan Motor Input Power	W	35								
Fan Motor Rated Current	A									
Refrigerant Pipe Connections										
Liquid	mm	Φ 6.5								
Gas	mm	Ф12.7								
Type of Connection		Flared								
Drain Pipe Dia	mm	mm 25								
Dimensione (Mr.Dr.II)	Indoor Unit	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240				
Dimensions (WxDxH)	Grill	670/670/50	670/670/50	670/670/50	670/670/50	670/670/50				
Not Words	Indoor Unit	20.5	20.5	20.5	20.5	20.5				
Net Weight	Grill	3.5	3.5	3.5	3.5	3.5				

CONCEALED UNITS





Powder-coated construction for longer life



Multiple speed options



Service-friendly design

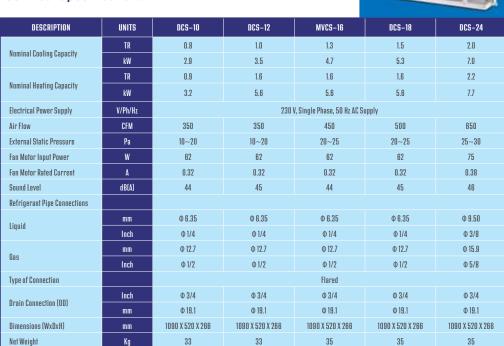


Ideal for residences, hotel rooms and hostels



Quieter in operation

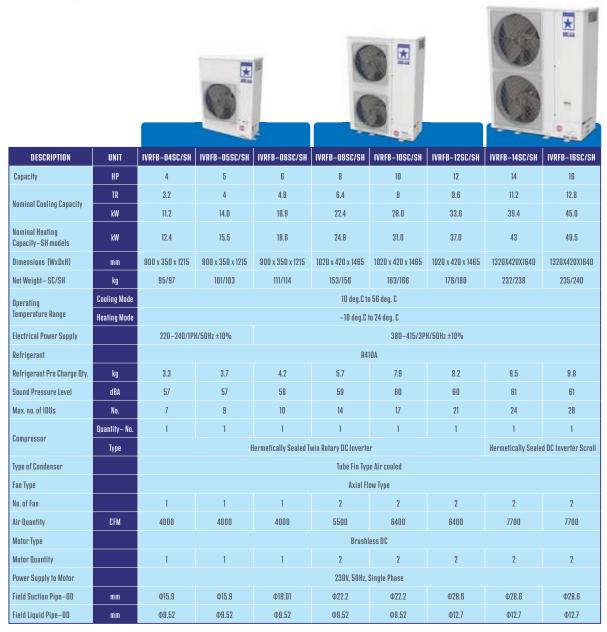
Technical Specifications:



Note: Other Indoor Units are available as mentioned in Indoor Units Line-up

OUTDOOR UNITS

Technical Specifications:



Note:

- Nominal cooling capacities are based on the following conditions:
 Indoor temperature: 27°CDB, 19°CWB; Outdoor temp.: 35°CDB, 25°CWB; Piping length: 10m, Height difference: 0m.
- Nominal heating capacities are based on the following conditions:
 Indoor temperature: 20°CDB; Outdoor temp.: 7°CDB, 6°CWB; Piping length: 10m, Height difference: 0m.
- 3. The values given in the table for noise levels are based on measurement taken in anechoic chamber and may vary as per the actual ambient noise conditions.
- 4. Specifications are subject to change without prior notice due to continuous product improvement.

WIDE SERVICE NETWORK

Blue Star offers world—class 'Gold Standard' customer support across India, with over 25 office locations and more than 500 dealers to cover most Tier 1, 2 and 3 cities and towns, in order to swiftly cater to the service needs of customers during and after the warranty period.

Leveraging technology such as the use of dedicated applications, a 24x7 call centre to take service complaints, and an intranet communication that connects all of Blue Star's highly-trained service personnel, the service turnaround is speedy and precise, ensuring minimum downtime of critical equipment.

Additionally, the company's Genuine Spare Parts depots across the country are well—stocked with all parts, especially the in—demand ones, so that no repair needs to wait too long for the arrival of a part.



NOTES



Authorized Dealer



Scan QR Code-Blue Star Customer Care Mobaile App



viveka@adpsystems.co.in



9373712123/8975012123



Adress- L-3, Shubhashri Wood Co-op Housing Society, Pimple Sudagar, Pune 411027

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