

# VRF V<sup>PLUS</sup>

100% INVERTER



100% capacity at 43°C.  
Non-stop cooling even at 56°C.







Blue Star is India's leading HVAC solutions provider. Our expertise in providing air conditioning solutions to diverse segments comes from our experience of over 7 decades in the industry.

Today, the Company is a market leader in almost every aspect of the cooling business – Room ACs, VRFs, Packaged and Ducted Splits and Chillers in the air conditioning space and Water Coolers, Deep Freezers and Cold Rooms amongst refrigeration and cooling products.

Apart from its wide range of products and solutions for which the Company offers technical and service support across the length and breadth of the country, Blue Star is also known for its commitment to technology. Over the decades, Blue Star has been the pioneer in introducing the latest technologies in the industry to the Indian market. We brought in the first scroll and then the tandem scroll packaged units to give our customers a heads-up in power savings. We developed the first high-performance packaged units that cool high sensible loads even at high ambients. We switched to eco-friendly refrigerants well ahead of others. We introduced Inverter technology in various product ranges. And we developed unique VRF solutions to suit the tropical climatic conditions of the Indian subcontinent.

## Cutting-edge R&D

Blue Star's innovations are born at the high-end R&D establishment that has been painstakingly put together over decades, with the brightest brains and the latest equipment in place.

Recognised by the Department of Science and Industrial Research (DSIR) - Ministry of Science and Technology, Government of India, Blue Star's R&D wing has enabled the Company to file more than 25 patents and win many prestigious innovation awards.



CII Design Excellence Award 2017

Blue Star's R&D wing is equipped with advanced engineering design softwares such as Pro ENGINEER, Solid Edge, PRO-Mechanic, Rhino, Alias and ANSYS Fluent. There are also advanced software tools employed for system design, product performance rating, selection and heat exchanger optimisation.

## World-class Testing Facilities

Blue Star's infrastructure for conducting various performance tests on new products is one of the largest in the country, ensuring that every product and technology is tested vigorously before being productionised.

The Company's chiller Testing Facility is AHRI-certified.



Products designed are also subject to various reliability tests before they are cleared for manufacturing. These include endurance, vibration and shock tests along with life-cycle and ageing tests to rigorously evaluate design reliability.

All Blue Star products are designed to perform in tropical weather conditions with high ambients, high humidity, under extreme voltage conditions and fluctuations. All designs are tested for performance under high ambient conditions and extreme power conditions as prevalent in India.

## Advanced Psychrometric Test Lab at Dadra

Blue Star's Dadra factory has a modern Psychrometric Test Lab that can simulate and test VRFs under various conditions. All machines manufactured at the factory are rigorously tested for various parameters at this facility before despatch. Customers too can witness actual performance tests conducted on the new VRF V Plus before despatch of their machines, making Blue Star one of the few companies in the air conditioning industry offering this facility.



Psychrometric Test Lab





The Psychrometric Laboratory at the Dadra R&D Facility has been assessed and accredited in accordance with the Standard ISO/IEC 17025:2005 "General Requirements for the competence of Testing & Calibration Laboratories" by The National Accreditation Board for Testing and Calibration Laboratories (NABL)

The scope of accreditation includes international standards like ISO, EN, AHRI, UAE.S, SASO, GSO etc and Domestic Standard ISO.

These Laboratories are the first in the country to get NABL accreditation for Energy Rating Standards like SASO 2663, QS.SASA 2663, Bahrain Energy Rating, ESMA UAE.S 5010.1 and UAE.S 5010.5

## World-class Manufacturing

Blue Star's manufacturing strength is spread across seven state-of-the-art manufacturing facilities across the country. The new Blue Star VRF V Plus units are manufactured at the contemporary and modern factory at Dadra. Set up to international standards, the products manufactured at this ISO 9001-2008 certified factory are not only sold across India but also exported to various countries across the globe too.

Dadra Factory



Panel Punching Machine



## Ensuring an Excellent Finish

Blue Star's production facilities use raw materials that are of the highest quality, including corrosion resistant, galvanised steel for enhanced life and rust protection. The equipment used to process the steel include CNC machines such as the Amada Punch press, Hydraulic Press and specialised microprocessor-based protection and resistance welders. All these machines ensure superior quality in cabinet fabrication with tight tolerances.

All products are powder coated by specialised process equipment from Nordson of the USA on fully conveyerised lines. These equipments are fitted with electro-mechanical oscillators that ensure an even powder coating. A 'smart spray' mechanism senses movement of the conveyor and geometry of the component to adjust powder flow.







Paint Shop



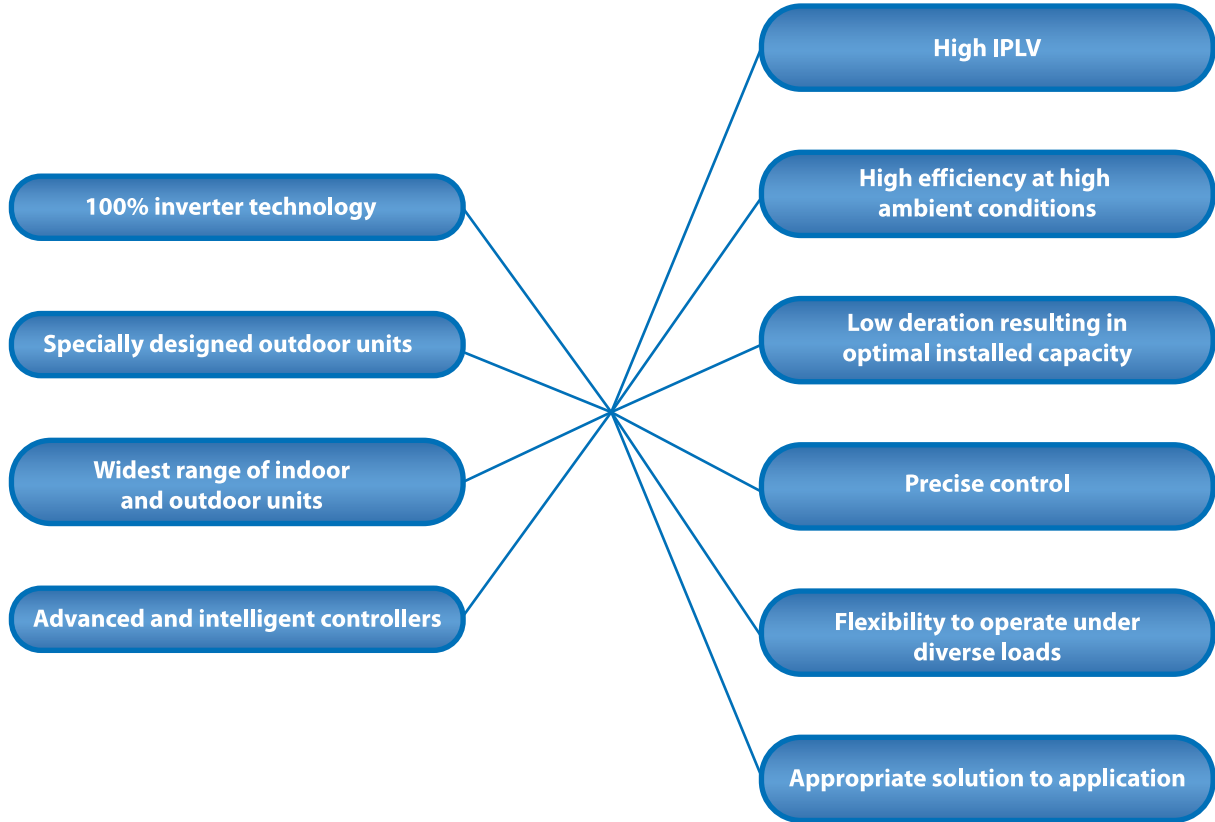
Panel Bending Machine



Blue Star is equipped with a high-tech coil manufacturing setup using imported Burr Oak machines that can manufacture high-efficiency plain coils as well as enhanced split fins for superior heat transfer.

The copper tubes are then processed by a bank of PLC-controlled Burr Oak machines that ensure perfect bonding between the copper tubes and fins for superior performance. The coils are then tested for fine leaks with ultra-sensitive electronic leak detectors to enhance reliability.

## VRF V Plus Advantage



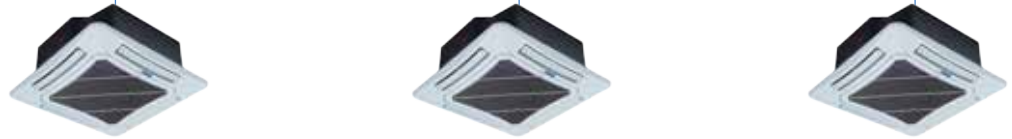


Outdoor Unit

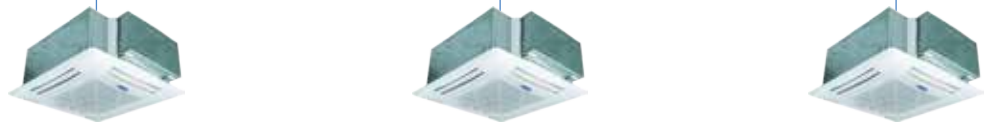
Hi-Wall Units



Four-Way Cassettes



Compact Cassettes



One-Way Cassettes



Two-Way Cassettes



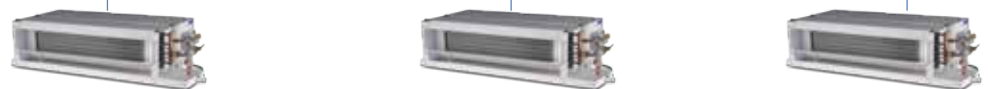
Floor Cum Ceiling Mounted Units



Verticools



Concealed Splits



Ductable IDUs



Floor Mounted Packaged Units



Air Handling Units





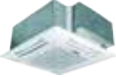







Heat Recovery Ventilation System




Treated Fresh Air Unit





## Product Line-up: Indoor Units


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					●			●				●		●	●			
	Verticoils								●	●		●		●	●				
	Concealed Splits		●	●	●	●			●										
	Ductable IDUs					●			●		●		●		●	●	●	●	●
	Floor Mounted Packaged Units															●		●	●


## Add-ons











	Treated Fresh Air Unit	3.5 TR	5.5 TR	6.8 TR
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	Heat Recovery Ventilation System	300 CMH	500 CMH	900 CMH
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	AHU Kit	5 TR	6.5 TR	8 TR	10 TR	12.5 TR	15 TR	20 TR	25 TR	32 TR
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	Ceiling Mounted Ductable IDUs AHU Type	11 TR	18 TR	20 TR
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	Floor Mounted Units AHU Type	18 TR	22 TR
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Appearance	Type
	Cordless Remote Controller
	Wired Controller
	Group Controller
	WiFi-based Central Controller
	PC Monitoring System
	Keycard Controller
	Tenant Billing System
	BMS Compatibility
	Mobile App
	Remote Monitoring Service
	Data Concentrator



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