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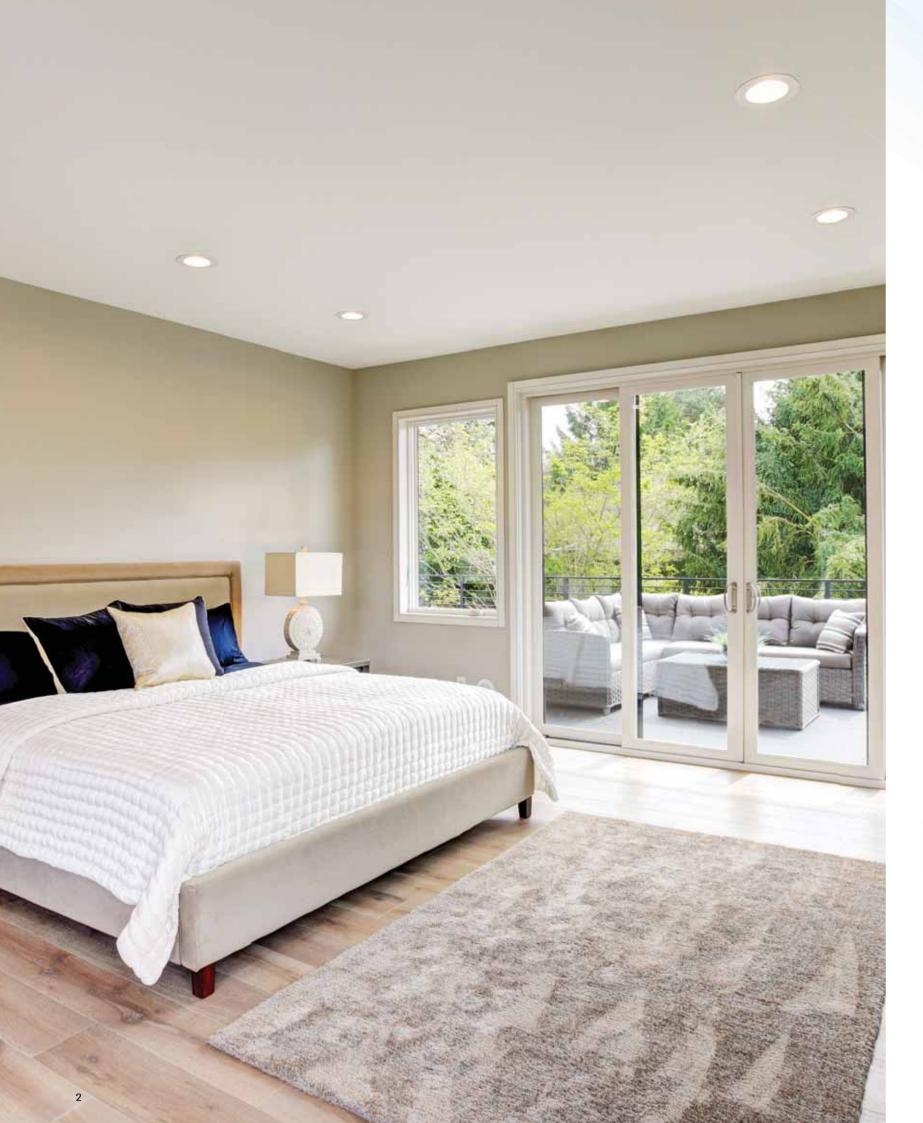
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ABOUT BLUE STAR ____

Blue Star is India's leading HVAC Company with nearly eight decades of experience in the field providing a whole gamut of expert cooling solutions. From room ACs through VRFs to large chillers, from water coolers to freezers and sophisticated medical equipment, Blue Star offers refrigeration and preservation solutions that cool the three things life depends upon: air, food and water.

Blue Star also exports various air conditioning units to Middle East, African, SAARC and ASEAN countries.

Blue Star is known for its innovation and R&D. As societal and industrial needs evolve, the Company is ready with new products and solutions that are tailor—made for each new application, ensuring a perfect balance of performance, size and cost in every case.

Blue Star's VRFs are among the most preferred VRF systems in the Indian marketplace. With a wide range of VRF solutions, Blue Star serves every market requirement for VRF systems. Now, Blue Star introduces its latest range of VRF solutions – the VRF LITE – which is specifically designed and manufactured to suit aspiring homes and smaller businesses which wish to take advantage of VRF system benefits but have found them too large for their needs so far.



THE VRF LITE _____

The premium air conditioning solution for smaller spaces.

Designed to deliver every feature, benefit and the kind of performance that is expected of a VRF system, the VRF Lite is Blue Star's newest addition to their growing range of VRF systems and solutions. It packs all the advantages of a larger VRF system into a smaller unit that is designed specifically to meet the needs of smaller businesses, compact spaces and homes that wish to upgrade to VRF efficiency and sophistication.



Compact for easy installation in smaller spaces



Quiet operation to suit high—end homes and compact spaces



Versatile use of multiple indoor units to suit every room



Sophisticated and smart controls that come with modern VRF systems



All the advantages of a central air conditioning system without the size, space requirement, ducting and cost



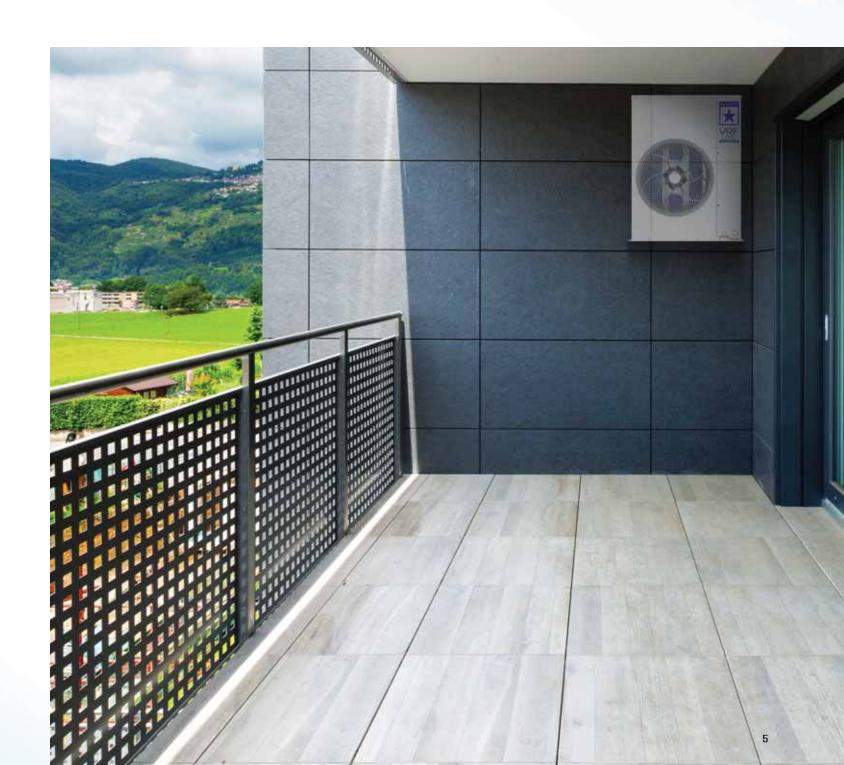
A VRF for your premises.

Blue Star's VRF LITE is an ideal choice for villas, residences, resorts, hospital rooms and cabin spaces in office buildings, which till now could only aspire for a VRF system but couldn't find the space for it. Which means even you can now get one. That's a happy thought, isn't it?

SMALL IN SIZE BIG ON PERFORMANCE ____

The Blue Star VRF LITE comes with an outdoor unit that is extremely compact and sleek and does not compromise either on efficiency or on power. It is designed and engineered to be easily installed in a small balcony or in a shaft area using just wall brackets, and without taking up your floor space.

As with all larger VRF systems, a single outdoor unit can handle multiple indoor units in the VRF LITE as well. Also, since the common outdoor unit is restricted to mounting at just one place, the VRF LITE does not affect the aesthetics of the exteriors of the premises. All to make the VRF LITE perfect for air conditioning residential spaces with multiple rooms, offices with several cabins, or in any other similar application.



ADVANCED FEATURES FOR HIGH-END APPLICATIONS ____

100% special inverter compressor driven

The uniquely designed twin rotary inverter compressor used in the VRF LITE ensures efficient and powerful performance.

- Compressor specifically developed for handling variable loads efficiently and effectively
- Regulates temperature to the precise point down by 0.5C for uncompromising comfort
- Low starting current, so lower capacity backup generators
- Compressor's efficiency further increased by 7% by using a specially designed motor with a permanent rare—earth magnet





Designed for high ambient temperatures

The VRF LITE keeps interiors cool even when temperatures outside soar up to 56°C. This has been made possible by careful selection of components and design that provides reliable operation even at high ambient temperatures.

The VRF LITE also uses a special refrigerant-cooled PCB design which increases the reliability of inverter PCBs under



Quiet operation

The VRF LITE has been designed inside out to be a quiet yet powerful performer.

- Silent inverter compressors as compared to conventional
- Special sound attenuation jackets used to further dampen
- Condenser fans powered by BLDC motors for smooth and efficient operation



those temperature conditions.

Weather-proof design

The ODU of the VRF LITE is weather-proof. It doesn't deteriorate easily even when exposed to extreme ambient conditions.

- Outer cabinets made with a special powder-coated steel sheet
- Condensers equipped with corrosion resistant pre-coated aluminium blue fins, making them safe for use in coastal areas
- PCBs protected by a special conformal coating in order to enhance their reliability

Comfort needs two options

The VRF LITE comes in two variants: Cooling Only and Cooling and Heating.

While the Cooling Only model operates as a cooling air conditioner providing comfort cooling, the Cooling and Heating model can also warm interiors during winters. It can warm the interiors even when the outside temperature goes down to -10° C. By offering you both options, the VRF LITE takes care of the comfort of the occupants whether it is a hot summer day or a cold winter night.



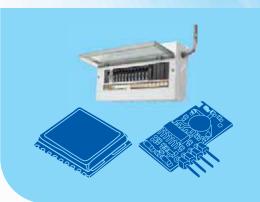
Wide ambient temperature operating range

Blue Star's VRF LITE can function effectively across a very wide range of ambient temperatures: from 10° C to 56° C while in the Cooling Mode and from -10° C to 24° C while in the Heating Mode.



A special circuit for lower bills

The VRF LITE system features a special power factor correction circuit designed to improve power factor to 0.95 or higher, making them compliant with electricity regulatory standards besides ensuring lower electricity bills as well.





Wide Operating Voltage Range

The Blue Star VRF LITE is designed to be reliable and can operate across a wide input voltage range from 185V to 265V. This ensures both uninterrupted and efficient air conditioning besides lower breakdowns due to low or high voltages within this range.

Servicing from the ODU itself

A special software tool reduces the need to physically enter the conditioned space during service, to troubleshoot the VRF LITE. Access to all indoor units is possible through a laptop connected to the outdoor unit. Our special software allows troubleshooting from the outdoor unit itself without disturbing the occupants.





Safer Installation

By using an optional refrigerant distribution kit, refrigerant piping can be completed without a brazing process, which helps reduce installation time. The entire piping can then be laid with just flared connections.

This makes the process safer too since refrigerant piping can be laid without carrying gas cylinders into the space. The installation of the unit can even take place in a space that is being used with minimum disturbance to the occupants.

SMART CONTROLS FOR A SMART SOLUTION ___

A versatile range of controller options

- Standalone Wired and Wireless Control handsets
- Group controller for controlling a small group of indoor units
- Wi-Fi based Central Control System through a tab for controlling a large number of indoor units
- PC based control system
- Web-based control from remote locations using a smart phone
- Operational control of indoor units with inputs through key card or motions sensor
- Third party BMS integration
- Smart Home Automation System





 $^{ ext{l}}$



DESCRIPTION	UNITS	IVRFB-04SCA/SHA	IVRFB-05SCA/SHA	IVRFB-06SCA/SHA				
Capacity	HP	4	5	6				
01:	TR	3.2	4	4.8				
Cooling Capacity *	kW	11.2	14.0	16.8				
	TR	3.5	4.4	5.3				
Heating Capacity **	kW	12.4	15.5	18.6				
Operating Temperature Range								
Cooling Mode	°C		10°C to 56°C					
Heating Mode	°C		–10°C to 24°C					
Electrical Power Supply		220 – 24	40 V, Single Phase, 50 Hz AC Powi	er supply				
Refrigerant		R410A						
Maximum Number of Indoor Units		6 7		8				
Refrigerant Pre-charge Quantity	kg	3.3	3.7	4.2				
Air Quantity	CFM	4000	4000	4000				
Net Dimensions WxDxH (mm)	mm	900 X 350 X 1214	900 X 350 X 1214	900 X 350 X 1214				
Net Weight	kg	91	97	108				
Sound Level	dBA	57	58	58				
Compressor Type			Hermetically Sealed DC Inverter Twin Rotary					
Refrigerant Pipe Connections								
Liquid – Dia.	mm	9.5	9.5	9.5				
Gas – Dia.	mm	15.9	15.9	19.1				
Air–Cooled Condenser								
Туре			Tube Fin Type					
Fan Type			Axial Flow					
Motor Type			Brushless DC					
Motor Quantity	No.	1	1	1				

^{*}Nominal cooling capacities are based on: 27°C DB, 19°C WB indoor, and 35°C DB, 25°C WB outdoor temperatures, and 10m refrigerant pipe length
** Nominal heating capacities are based on: 20°C DB indoor and 7°C DB, 6°C WB outdoor temperatures, and 10m refrigerant pipe length

The given specifications are subject to change without any prior notice due to continuous product improvement

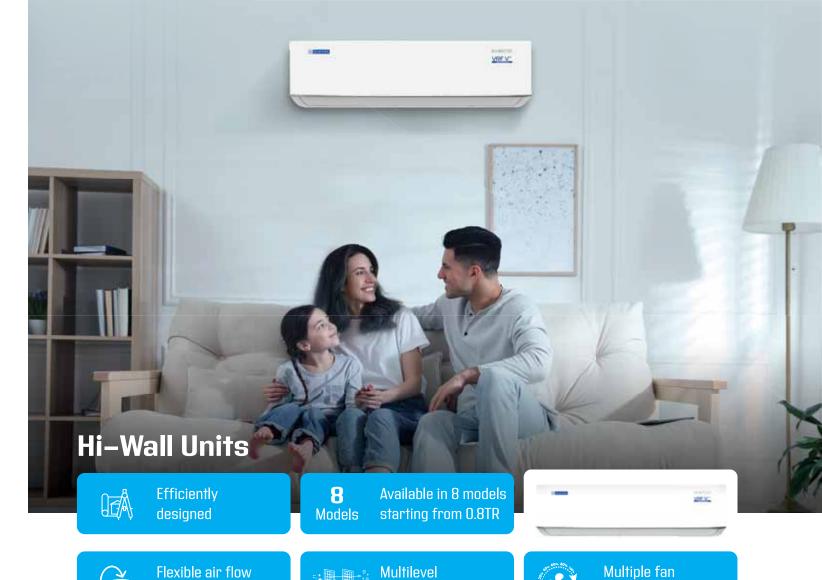
The given sound level values are based on the measurement taken in a semi anechoic chamber and may vary as per the actual ambient noise conditions

A WIDE RANGE OF INDOOR UNITS ___

The Blue Star VRF LITE is compatible with a wide range of indoor units. This gives flexibility to the customer or interior designer to choose a particular type of indoor unit for each interior space without any limitation. The VRF LITE can also be integrated through a kit with a customised air handling unit (AHU) for any non-standard requirements.



Appearance	Туре	0.6TR	O.8TR	1.0TR	1.3TR	1.5TR	1.6TR	1.7TR	2.0TR	2.3TR	2.5TR	2.8TR	3.0TR	3.2TR	4.0TR	5.OTR
	Hi–Wall Units		•	•	•	•		•	•		•	•				
~	Four Way Cassettes			•	•	•		•	•	•		•		•	•	•
	Compact Cassttes	•	•	•	•	•										
	One Way Cassettes	•	•	•	•	•		•	•							
	Two Way Cassettes	•	•	•	•	•		•	•							
	Verticools								•	•		•		•	•	
BT.	Concealed Units		•	•	•	•			•							
	Ductable IDUs					•			•		•		•		•	•
Th	AHU Kits												•			•



Technical specifications

pattern

Description	UNITS	VHW-10B	VHW-12B	VHW-16B	VHW-18B	VHW-20B	VHW-24B	VHW-30	VHW-34
	TR	0.8	1.0	1.3	1.5	1.7	2.0	2.5	2.8
Nominal Cooling Capacity	kW	2.9	3.5	4.7	5.3	6	7	8.8	10
N	TR	0.9	1.1	1.5	1.7	1.9	2.2	2.8	3.1
Nominal Heating Capacity	kW	3.2	3.9	5.2	5.8	6.6	7.7	9.7	10.8
Electrical Power Supply					230V, Single P	hase, 50 Hz AC			
Air Flow (Hi/Med/Lo)	CFM	325/275/200	375/320/275	450/405/305	500/410/320	585/530/485	650/545/490	875/720/560	945/720/560
Sound Pressure Level	dB(A)	30	30	32	35	40	41	42	42
Fan Motor Input Power	W	30	30	30	30	50	50	105	105
Rated Current	Α	0.19	0.19	0.24	0.24	0.36	0.36	0.6	0.6
Refrigerant Pipe Connections—Dia.									
Liquid	mm	6.35	6.35	6.35	6.35	9.5	9.5	9.5	9.5
Gas	mm	9.5	9.5	9.5	9.5	15.9	15.9	15.9	15.9
Type of Connection	Type		Flared						
Drain Pipe Dia.	mm	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
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	1350 x 258 x 326	1350 x 258 x 326
Net Weight	kg	10	10	12	12	15	15	18.5	18.5

filtration

speed options

Notes: *Sound levels are based on measurements taken in a semi-anechoic chamber, and may vary depending on actual ambient noise conditions. As a result of continuous product improvement, the given specifications may vary without any prior notice.

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4-Way Cassettes



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



Fresh air provision



BLDC motor



Wide-angle flow



In-built drain pump



Multi Mode function

Technical specifications



Compact Cassettes



A Series

	39/1000					
DESCRIPTION	UNITS	VCC-08	VCC-10	VCC-12	VCC-16	VCC-18
Nominal Cooling Capacity	TR	0.6	0.8	1.0	1.3	1.5
Numinal Couling Capacity	KW	2.1	2.9	3.5	4.7	5.3
Non-teal Health Occupits	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			230 V, Si	ngle Phase , 50 Hz A	AC Supply	
Air Flow (Hi/Mid/Lo)	CFM	385/325/265	385/325/265	385/325/265	412/385/355	412/385/355
Sound Pressure Level	dB(A)	41	41	41	45	45
Fan Motor Input Power	Watts	35	35	35	35	35
Fan Motor Rated Current	Amperes	0.4	0.4	0.4	0.4	0.4
Refrigerant Pipe Connections						
Liquid – Dia.	mm	6.5	6.5	6.5	6.5	6.5
Gas -Dia.	mm	12.7	12.7	12.7	12.7	12.7
Type of Connecton	Туре			Flared		
Drain Pipe – Dia.	mm	25	25	25	25	25
Not Disconciona WuDull (see	Indoor Unit	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240
Net Dimensions WxDxH (mm)	Grill	670X670X50	670X670X50	670X670X50	670X670X50	670X670X50
Not Weight	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



4-Way Large Cassettes



A Series

	,			1							
DESCRIPTION		VLC-12	VLC-16	VLC-18	VLC-20	VLC-24	VLC-27	VLC-34	VLC-38	VLC-48	VLC-60A
0 1: 0 ::	TR	1	1.3	1.5	1.7	2	2.3	2.8	3.2	4	5
Cooling Capacity	KW	3.5	4.6	5.3	6.0	7.0	8.1	9.8	11.3	14.1	17.6
	TR	1.1	1.4	1.7	1.9	2.2	2.5	3.1	3.5	4.4	5.5
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					230 Volts, S	ingle phase, 50	Hz AC Supply				
Air Flow (Hi/Mid/Lo)	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 (Lo)	dB (A)	36	36	36	37	38	38	40	41	43	46
Fan Motor Input Power	W	48	48	48	59	59	59	98	98	98	120
Fan motor Rated Current	Amperes	0.4	0.4	0.4	0.5	0.5	0.5	0.8	0.8	0.8	0.6
Refrigerant Pipe Connections											
Liquid–Dia.	mm	6.5	6.5	6.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Gas- Dia.	mm	12.7	12.7	12.7	15.9	15.9	15.9	15.9	15.9	15.9	19.1
Type of Connection	Type					Fla	red				
Drain Pipe Dia.	mm	25	25	25	25	25	25	25	25	25	25
Net Dimensions	Indoor Unit		840x840x190		840x840x240			840x840x320			910x910x293
WxDxH (mm)	Gri ll	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	1040x1040x65
Not Weight (kg)	Indoor Unit	22.5	22.5	22.5	26.5	26.5	26.5	32.5	32.5	32.5	44.5
Net Weight (kg)	Grill	7	7	7	7	7	7	7	7	7	8.0



Technical specifications

DESCRIPTION	UNITS	VOC-08A	VOC-10A	VOC-12A	VOC-16A	VOC-18A	VOC-20A	V0C-24
0 11 0 11	TR	0.6	0.8	1	1.3	1.5	1.7	2
Cooling Capacity	KW	2.1	2.8	3.5	4.6	5.3	6	7.1
	TR	0.7	0.9	1.1	1.4	1.7	1.9	2.25
Heating Capacity	kW	2.5	3.2	3.9	4.9	5.8	6.6	8
Electrical Power supply	V/Ph/Hz			230 Volt	s, Single Phase, 5	50 Hz AC		
Air Flow (Hi/Mid/Lo)	CFM	353/294/265	353/294/265	353/294/265	488/353/294	524/393/332	530/400/336	550/440/350
Sound pressure level	dB(A)	36/32/28	36/32/28	36/32/28	40/35/30	41/38/35	41/38/35	42/39/37
Fan Motor power input	W	30	30	30	45	45	45	46
Fan Motor Rated Current	Α	0.24	0.24	0.24	0.36	0.36	0.36	0.37
Refrigerand Pipe Connections								
Gas- Dia.	mm	12.7	12.7	12.7	12.7	12.7	12.7	15.9
Liquid–Dia.	mm	6.35	6.35	6.35	6.35	6.35	6.35	12.7
Type of Connection	Туре				Flared			
Drain pipe Dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Dimensions Body (WXHXD)	mm	990X178X385	990X178X385	990X178X385	990X178X385	990X178X385	990X178X385	1204X189X443
Dimensions Panel (WXHXD)	mm	1200X55X460	1200X55X460	1200X55X460	1200X55X460	1200X55X460	1200X55X460	1350X25X505
Net Weight (Body)	kg	20	20	20	21	21	21	19.5
Net Weight (Panel)	kg	4.2	4.2	4.2	4.2	4.2	4.2	4

Notes: *Sound levels are based on measurements taken in a semi-anechoic chamber, and may vary depending on actual ambient noise conditions. As a result of continuous product improvement, the given specifications may vary without any prior notice.

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Technical specifications

DESCRIPTION	UNITS	DCS-10A	DCS-12A	DCS-16A	DCS-18A	DCS-24A		
Caalina Canaaik	TR	0.8	1	1.3	1.5	2		
Cooling Capacity	kW	2.9	3.5	4.7	5.3	7		
U	TR	0.9	1.1	1.4	1.7	2.2		
Heating Capacity	kW	3.2	3.8	5.1	5.7	7.6		
Electrical Power Supply		230 Volts, Single Phase, 50 Hz AC supply						
Air Flow	CFM	430–240	430-240	460-265	460-265	700–590		
External Static Pressure	Pa	0-30	0-30	0-30	0-30	0-30		
Fan Motor Input Power	W	37	37	62	62	74		
Fan Motor Rated Current	А	0.4	0.4	0.6	0.6	0.8		
Sound Level	dBA	32	32	34	34	36		
Refrigerant Pipe Connections-Dia.								
Liquid	mm	6.35	6.35	6.35	6.35	9.52		
Gas	mm	12.7	12.7	12.7	12.7	15.87		
Drain Connection (OD) — Dia.	mm	19 mm						
Overall Dimensions (W X D X H)	mm	1060X515X222	1060X515X222	1060X515X222	1060X515X222	1210X515X222		
Net Weight	kg	26	26	27	27	29		

Notes:

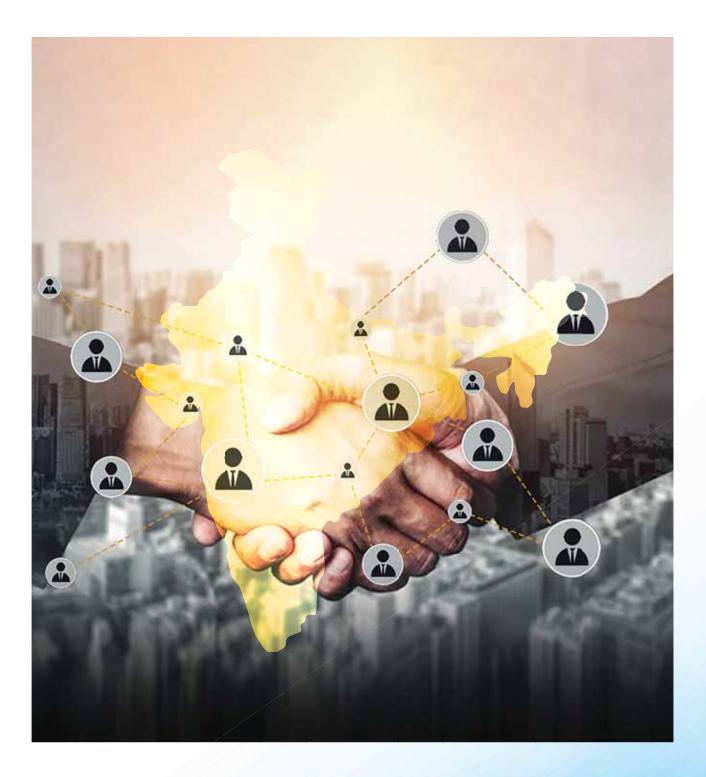
- Sound levels are measured in anechoic chamber at 1.5 m below from the centre of the unit.
- Actual sound levels experienced in field conditions can be more due to operating conditions as well as due to background noise.
- Bottom suction sound levels will be around 4 dB(A) more than the back suction values given above.

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.



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