



BLUE STAR

BLUE STAR DUCTED AND PACKAGED ACs

SUPERIOR ON
EVERY COUNT.



Blue Star is India's leading HVAC&R company, renowned for its excellence in the commercial air conditioning sector. With a vast presence across the country, including numerous offices, modern manufacturing facilities and a robust network of dedicated employees and channel partners, Blue Star stands at the forefront of technological innovation and customer satisfaction.

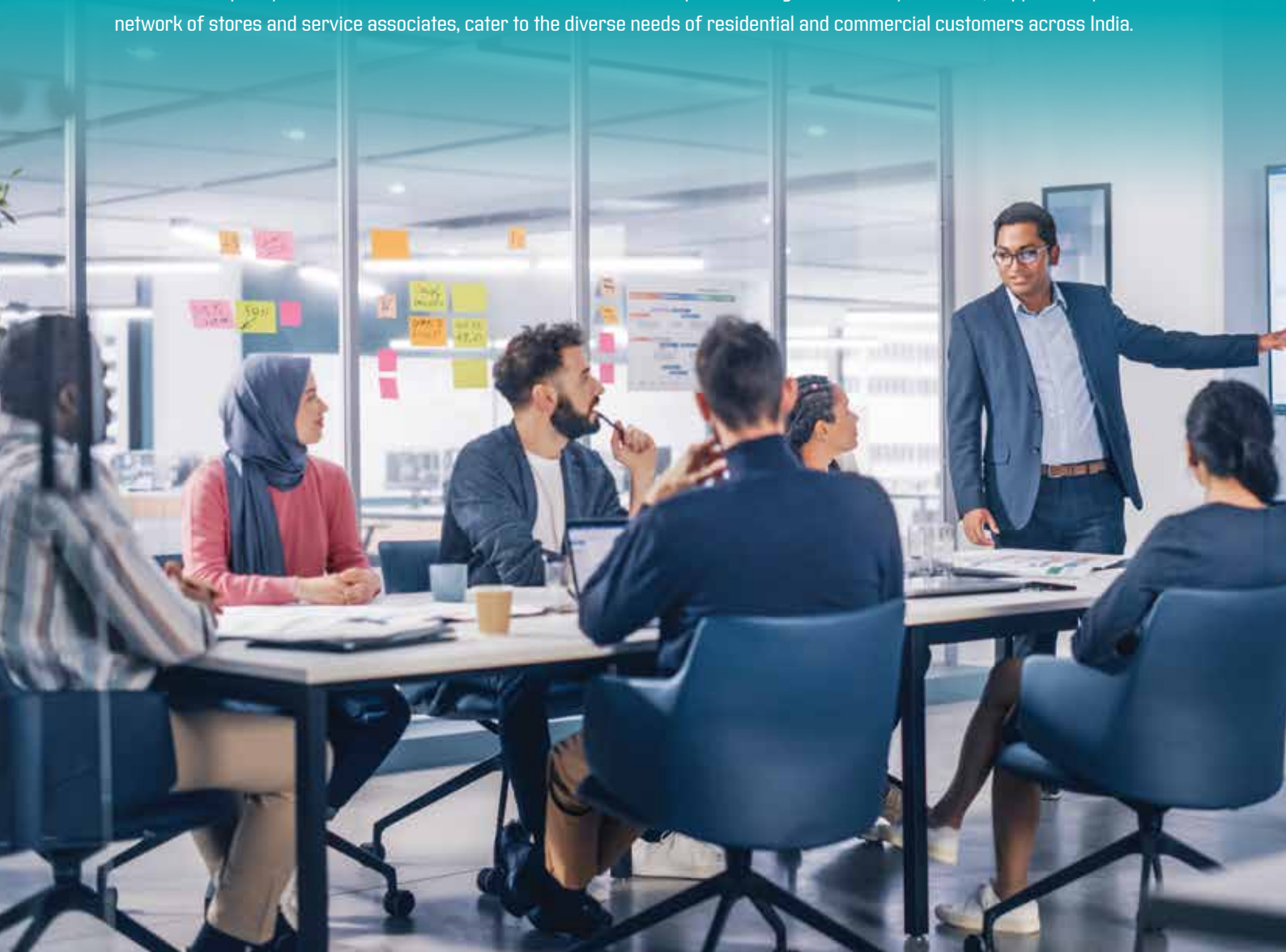
With more than eight decades of experience in air conditioning, Blue Star Ltd. has established itself as an industry leader in India. The Company has installed millions of tons of air conditioning and boasts a network of over 600 trained and dedicated dealers across the country, solidifying its position as the undisputed market leader in ducted systems.

Blue Star places a strong emphasis on research and development, consistently focusing on energy-efficient, eco-friendly and sustainable products. This commitment ensures that Blue Star's commercial air conditioning systems are of the highest quality and reliability. The Company has been at the forefront of major technological innovations, introducing unique products to the market over the past decades. Blue Star was the pioneer in introducing scroll technology into ducted systems more than two decades ago. Following this, the Company introduced the HiSen and HiPer Packaged Air Conditioning Systems, designed specifically for high sensible heat and high ambient applications such as IT parks and server banks.

Blue Star's leadership in the commercial air conditioning market is underscored by its end-to-end solutions, which encompass design, manufacturing, installation, commissioning and maintenance. The company's expertise extends to specialised contracting activities, including electrification, plumbing, and fire-fighting services, ensuring a comprehensive and seamless experience for its clients.

The product range from Blue Star includes a wide variety of air-cooled and water-cooled floor/ceiling mounted ductable air conditioning systems, available with various refrigerant options to meet diverse customer needs.

As a company committed to excellence, Blue Star Ltd. continues to lead the market with its innovative solutions and unwavering dedication to quality and customer satisfaction. Blue Star's extensive product range and turnkey solutions, supported by an extensive network of stores and service associates, cater to the diverse needs of residential and commercial customers across India.



Unmatched Quality and Safety with Blue Star's QCO-Compliant Ducted Air Conditioners

Blue Star brings you the first BIS-certified ducted air conditioners under the new Quality Control Order (QCO). Implemented by the Government of India, the QCO ensures the highest quality standards for air conditioners and their components. With Blue Star, you can trust that your ducted unit meets rigorous safety, performance and energy efficiency regulations.

QCO Compliance: Blue Star ducted units are fully certified and meet the latest QCO regulations, effective from October 1st, 2023.



ISI Mark of Excellence: Our ducted units feature the ISI mark, a testament to quality and safety, endorsed by the Bureau of Indian Standards (BIS).

IS 8148 Standards: Designed in accordance with IS 8148 standards, our units guarantee exceptional performance, durability, and energy efficiency.



Blue Star ducted air conditioners come with unmatched quality, cutting-edge innovation, and assured customer satisfaction in the commercial air conditioning sector.

THE DUCTED SYSTEMS RANGE

Air Cooled Packaged ACs

Blue Star has been a pioneer in the manufacturing of floor-mounted Packaged ACs for over three decades. These systems are highly popular in commercial applications due to their service-friendliness and extended ducting capabilities.

The floor-mounted indoor unit in this range houses the DIDW blower, coil, filters and compressor, while the outdoor unit contains the high-efficiency condenser and newly designed propeller fan. The strategic design, which places the compressors close to the evaporator in the indoor unit, significantly enhances the system's efficiency.



Water Cooled Packaged ACs

In locations where water is readily available, Blue Star's water cooled Packaged ACs offer superior efficiency compared to air cooled systems. Water, being a superior cooling medium, enables these systems to achieve higher efficiency with lower power consumption.

These systems come with factory pre-charged refrigerant and include a filter, blower, evaporator, compressor and water cooled condenser. The combination of these components ensures that Blue Star's water cooled systems provide excellent performance and energy savings.



Air Cooled Ductable Split Units

When floor space is limited but there's room above the false ceiling, Blue Star's Air Cooled Ductable Split Units are the ideal solution. The indoor unit is a compact, powder-coated sheet metal enclosure that houses the evaporator, DIDW blower and filter. The outdoor unit contains the compressor, condenser and a newly designed propeller fan. This setup ensures efficient cooling without occupying valuable floor space.

Water Cooled Ductable Split Units

Blue Star's Water Cooled Ductable Split Units are a groundbreaking innovation, perfect for shopping malls, office complexes, serviced apartments and industrial air conditioning. These units are especially beneficial for applications with multiple tenants.

Advantages:

1. **Independent Control and Billing:** Each tenant can have independent control and power billing, ensuring fairness and transparency.
2. **Flexible Installation:** Units can be mounted within the tenant's space, providing flexibility and convenience.
3. **Phased Investment:** Investment can be made in phases as required, avoiding the need to lock up capital upfront.
4. **Enhanced Aesthetics:** Unlike air cooled systems, these units do not have exposed outdoor components, providing a cleaner look. The condensing unit can be mounted near the indoor unit within the building, overcoming refrigerant pipe limitations.
5. **Versatile Capacities:** The new Water Cooled Ductable Split (DSW)-mini series units are available in smaller capacities of 1 TR, 1.5 TR, 2 TR and 2.5 TR, making them suitable for a variety of applications.



PRODUCT LINE-UP

Air Cooled

Appearance	Type	3 TR	4.3 TR	5.5 TR	8.5 TR	11 TR	16.5 TR	22 TR	23 TR
	Air Cooled Ducted Split Air Conditioners	☒	☒	☒	☒	☒	☒	☒	
	Air Cooled Packaged Air Conditioners			☒	☒	☒	☒		☒

Water Cooled

Appearance	Type	1 TR	1.5 TR	2 TR	2.5 TR
	Water Cooled Mini Series Condensing Unit	☒	☒	☒	☒
Water Cooled Mini Series – Indoor Units					
	Hi-Wall	☒	☒	☒	
	Concealed Type	☒	☒	☒	☒
	Cassette		☒	☒	☒

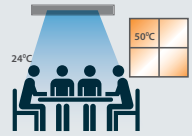
Appearance	Type	3 TR	5.5 TR	11 TR	16.5 TR
	Water Cooled Ducted Split Air Conditioners	☒	☒	☒	
	Water Cooled Packaged Air Conditioners		☒	☒	☒

FEATURES

50°C

Operation at Higher Ambient Temperatures

The condenser in this new series of ducted systems is designed to operate effectively at higher ambient temperatures, up to 50°C. This ensures efficient cooling even during harsh summer months, without tripping.



Lower Noise Levels

Equipped with bird-wing design, high-efficiency fans, the outdoor units of these ducted systems significantly reduce noise levels.



Lower Running Costs

These systems feature high-efficiency fans with specially designed blades for better airflow. Combined with a larger coil face area, this design reduces the condensing temperature, leading to lower power consumption and running costs.



Service-Friendly Design

The outdoor unit's design offers easy access to compressors and the control panel on the side. The fan motor assembly on the front panel is easily removable for repair and the condenser coil is much easier to clean.



Scroll Compressor Driven

Scroll compressors, known for their high volumetric efficiency, are used in Blue Star Packaged ACs and Ducted Splits for capacities of 5.5 TR and above. These compressors are ideal for air conditioning applications with moderate compression ratios.



Intelligent Microprocessor Controller

All units are controlled by microprocessor-based controllers with features including:

- Seven-segment LCD display
- Auto restart after power failure
- Fault display
- Run-time equalisation
- Non-volatile memory
- Touch-key on/off switch
- Single-phasing and phase reversal protection
- Time delay for compressor operation
- Accurate temperature control $\pm 1^\circ\text{C}$



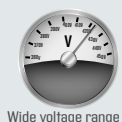
Blue Fin Condenser and Corrosion-Resistant Body

All units feature special blue fins and are constructed from galvanized sheets, which are powder-coated after fabrication. This makes them corrosion-resistant and elegant, improving the overall lifespan of the system.



Wide Voltage Range of Operation

These ducted systems can operate across a wide voltage range of 360–440V, making them highly versatile.



Wide voltage range



Multi-Compressor Advantage

Higher capacity ducted systems utilise more than one compressor, providing high part-load efficiencies. The entire evaporator surface is available even during part-load conditions, enhancing performance.



Run-Time Equalisation

The intelligent controller ensures that all compressors (in multi-compressor units) run for an equal number of hours, ensuring uniform wear.



Hydrophilic Coating

The aluminum fins on the evaporator coil have a hydrophilic coating that retains moisture, allowing it to drain by gravity. This reduces moisture carry-over with the supply air.



EPE Insulation

The evaporator section of the indoor unit is insulated with fire-retardant EPE insulation, which reduces cooling loss and meets safety requirements.



DIDW Blower Design

These systems use advanced DIDW type centrifugal blowers with forward-curved blades, offering higher air throw.

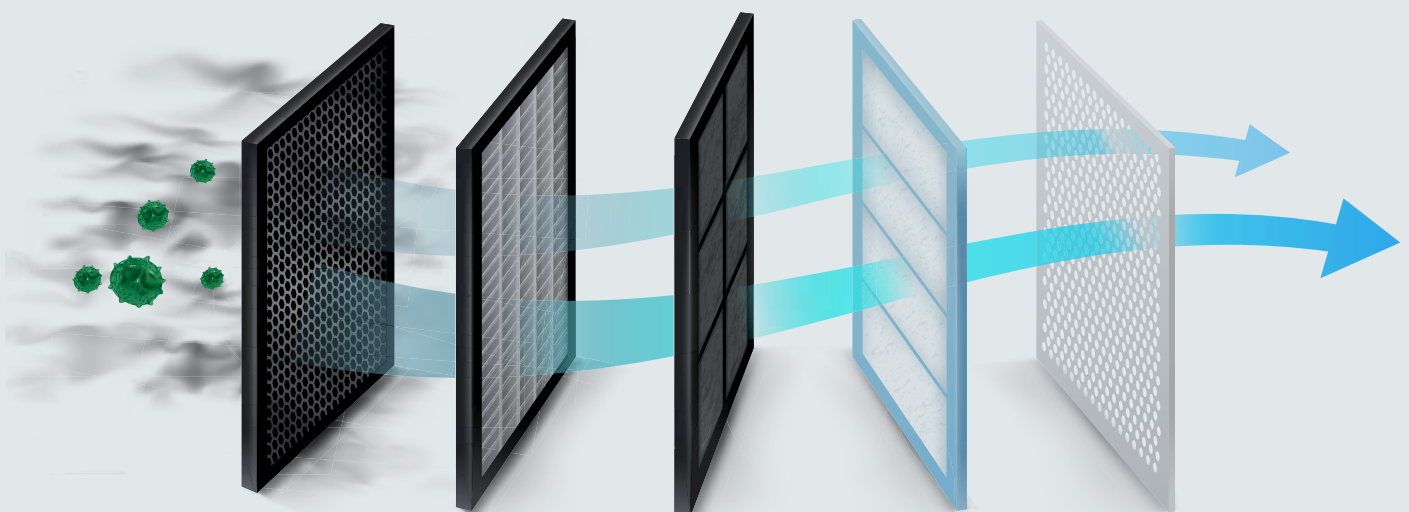


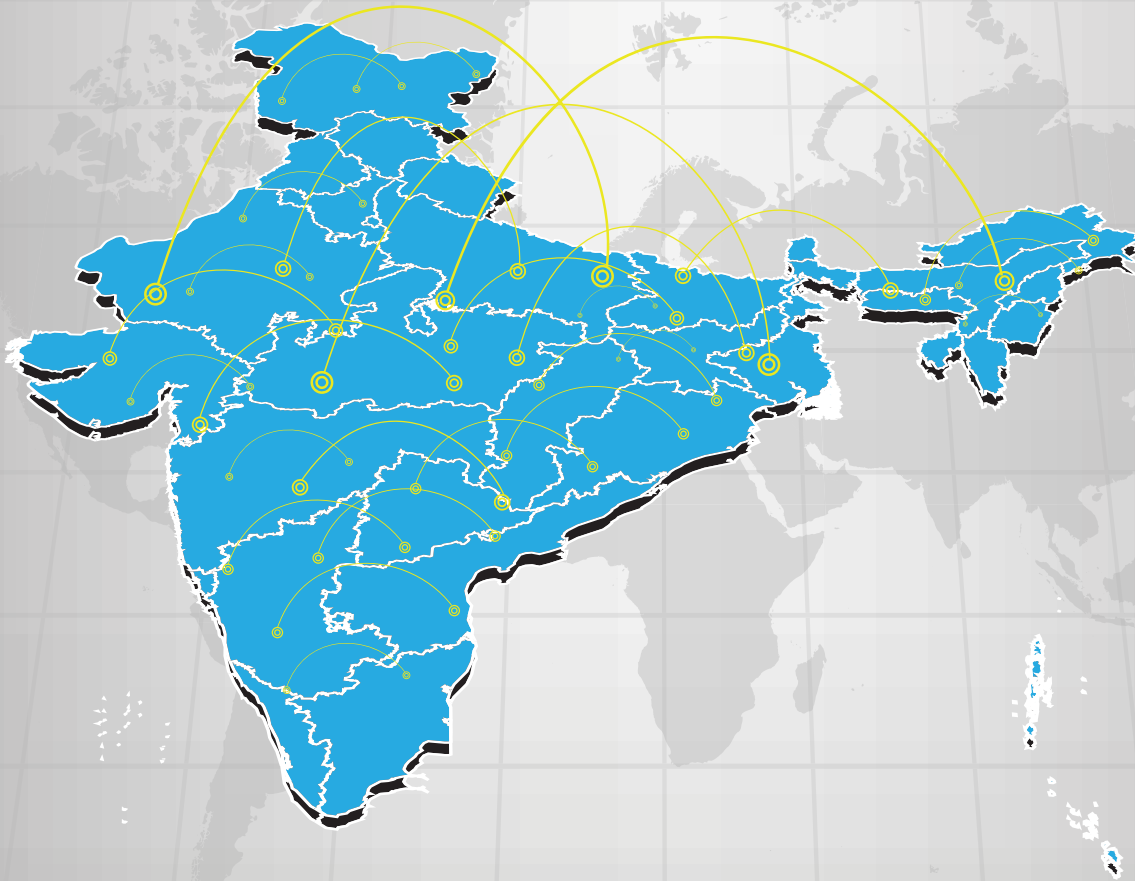
Efficient Air Filters

The systems are equipped with air filters made of non-woven polyester media enclosed in HDPE mesh. These filters are efficient and easy to clean.

Polluted Air

Clean Air





ADVANTAGE BLUE STAR

Eight Decades of Expertise

With over eight decades of experience in the air conditioning field, Blue Star is the undisputed market leader in ducted systems.

State-of-the-Art Manufacturing Facilities

Blue Star boasts seven world-class manufacturing facilities across the country, producing a wide range of HVAC products from small room ACs to large chillers. These factories are equipped with the latest automated machine tools, experienced engineers and rigorous quality control systems.

Cutting-Edge Research & Development

Blue Star has robust R&D centres at the Thane Innovation Centre, Ashok M Advani Innovation Centre in Bhiwandi, Japan Innovation Centre, R&D Lab at Dadra and AHRI Certified Test Lab at Wada. Recognised by the Department of Science and Industrial Research (DSIR), these facilities have been meticulously developed over decades, equipped with the latest technology and staffed by some of the brightest minds in the field. Blue Star's R&D wing has enabled the company to file over 25 patents and win numerous prestigious innovation awards.

NABL Accredited Laboratories

Blue Star's laboratories, including the 33TR Psychrometric Laboratory at Dadra and the 5TR Lab at Wada, are NABL accredited. The scope of accreditation includes all international standards like ISO, EN, AHRI, UAE, SASO, GSO and domestic standard ISO. These laboratories are the first

in the country to receive NABL accreditation for energy rating standards such as SASO 2663, QSSASA 2663, Bahrain Energy Rating, ESMA UAES 5010.1, and UAES 5010.5, showcasing Blue Star's commitment to excellence and innovation in the HVAC industry.

Cooling Solutions Made Easy

Blue Star's engineers provide optimal air conditioning solutions tailored to various customer needs. Their services include cooling load calculations, well-designed air distribution systems and equipment layouts, ensuring seamless project execution from start to finish.

Superior Project Management

Air conditioning of commercial spaces requires meticulous planning and timely execution, involving coordination with architects, interior designers, consultants and other professional agencies. Blue Star, along with its well-trained dealers, offers solutions for quality and timely execution of air conditioning projects across various applications.

After Sales Support

Blue Star provides comprehensive after-sales service through offices spread across all major cities. A network of well-trained dealers is available nationwide to address customer service needs. With a well-coordinated and highly trained service team, Blue Star ensures prompt and efficient service, allowing customers to enjoy uninterrupted air conditioning.



Water–Cooled Ducted Split Air Conditioners

DESCRIPTION	UNITS	DSW361R3Q	DSW661R3Q	DSW1322R3Q
Nominal Cooling Capacity	TR	3	5.5	11
	Btu/Hr	36000	66000	132000
	K.Cal/Hr	9072	16630	33264
Refrigerant		R 410A		
Power supply	V/Ph/Hz	380/ 420 V, 3 Ph, 50Hz, AC Supply		
External Finish		Pure Polyester Power Coated GI Steel Housing		
Indoor Unit				
Dimensions (WDXH)	mm	881 x 522 x 361	1140 x 628 x 480	1834 x 628 x 480
Power supply	V/Ph/Hz	230V, Single Ph, 50Hz AC		
Type of Blower		Centrifugal Forward Curved, Double Inlet, Double Width		
Nominal Air Flow	CMH	2040	3740	7480
	CFM	1200	2200	4400
Air Filter		Non Woven Polyester Media Enclosed by HDPE Mesh		
Controller		Microprocessor based with LCD Display		
Net Weight	kg	45	48	83
Condensing Unit				
Quantity per unit	No.	1	1	1
Compressor Type		Hermetically sealed Rotary	Hermetically Sealed Scroll	
No. of Compressors		1	1	2
Dimensions (WDXH)	mm	666 x 637 x 521	666 x 637 x 521	1056 x 637 x 521
Power Supply	V/Ph/Hz	380/ 420 V, 3 Ph, 50Hz, AC Supply		
Condenser Type		Water Cooled– Shell & Tube		
Cooling water required at 32°C	USGPM	12	20	40
Net Weight	kg	120	149	200
Specifications are subject to change without any notice.				



Water–Cooled Packaged Air Conditioners

DESCRIPTION	UNITS	DPW661R3Q	DPW1322R3Q	DPW1983R3Q
Nominal Cooling Capacity	TR	5.5	11	16.5
	Btu/Hr	66000	132000	198000
	K.Cal/Hr	16630	33264	49890
Refrigerant		R 410A		
Power supply	V/Ph/Hz	380/ 420 V, 3 Ph, 50Hz, AC Supply		
External Finish		Pure Polyester Power Coated GI Steel Housing		
Dimensions (WDXH)	mm	900 x 662 x 1544	1160 x 662 x 1662	1500 x 750 x 1763
Type of Blower		Centrifugal Forward Curved, Double Inlet, Double Width		
Nominal Air Flow	CMH	3740	7480	11210
	CFM	2200	4400	6600
Air Filter		Non Woven Polyester Media Enclosed by HDPE Mesh		
Controller		Microprocessor based with LCD Display		
Compressor Type		Hermetically Sealed Scroll		
Condenser Type		Water Cooled– Shell & Tube		
Cooling water required at 32°C	USGPM	20	40	60
Net Weight	kg	240	405	605
Specifications are subject to change without any notice.				



Water Cooled Mini Series – Condensing Units

DESCRIPTION	UNITS	DSW121R3-0	DSW181R3-0	DSW241R3-0	DSW301R3-0
Nominal Cooling Capacity	TR	1	1.5	2	2.5
	Btu/Hr	12000	18000	24000	30000
External Finish	Pure Polyester Powder Coated GI Steel				
Refrigerant	R410A				
Dimensions (W x D x H)	mm	750 x 425 x 430	750 x 425 x 430	750 x 425 x 430	750 x 425 x 430
Net Weight	kg	59	67	68	70
Sound Level	dB (A)	52	52	54	55
Power Supply	230V, Single Ph, 50Hz, AC Power Supply				
Condenser Type		Shell & Tube	Shell & Tube	Shell & Tube	Shell & Tube
(Water In) Pipe Size	mm/inch	25/ 1 BSP			
(Water Out) Pipe Size	mm/inch	25/ 1 BSP			
Cooling water required at 32°C	inch	3	4.5	6	7.5
Suction	US GPM	12.7(1/2)	12.7 (1/2)	12.7 (1/2)	15.9 (5/8)
Liquid	mm(inch)	6.35 (1/4)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
Quantity	mm(inch)	1	1	1	1
Type	Hermetically Sealed Rotary				



Mini Series Indoor Unit – Concealed Type

DESCRIPTION	UNITS	DSW121R3-IA	DSW181R3-IA	DSW241R3-IA	DSW301R3-I
Nominal Cooling Capacity	TR	1	1.5	2	2.5
	Btu/Hr	12000	18000	24000	30000
Dimensions (W x D x H)	mm	1060 x 220 x 515	1060 x 220 x 515	1210 x 220 x 515	1055 x 310 x 705
Net Weight	kg	26	27	29	31.00
Sound Level	dBA	35	36	38	46
Type of Blower	DIDW Centrifugal Type				
Airflow	CFM	430-240	460-265	700-590	875
External Static Pressure	Pa	0-30	0-30	0-30	0-30
Refrigerant Pipe Connections					
Liquid- Dia	mm (inch)	6.35 (1/4)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
Suction - Dia	mm (inch)	12.7 (1/2)	12.7(1/2)	12.7 (1/2)	15.9 (5/8)
Power Supply	230V, Single Ph, 50Hz, AC Power Supply				
Rated Current	A	0.33	0.33	0.64	0.64
Fan Motor Output Power	Watt	37	62	74	150
Quantity	No.	1	1	1	1
Air Filter	Nylon Mesh				
Controller	Micro Processor based with LCD display				



Mini Series Indoor Unit – Hi-wall

DESCRIPTION	UNITS			
Nominal Cooling Capacity	TR	1	1.5	2
	Btu/Hr	12000	18000	24000





Mini Series Indoor Unit – Cassette Type

DESCRIPTION	UNITS			
Nominal Cooling Capacity	TR	1.5	1.5	2.5
	Btu/Hr	18000	24000	30000



Notes



To know more about Blue Star, visit
www.bluestarindia.com, email us at
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