

# Packaged ACs & Ducted Splits



An unmatched range to meet diverse needs.

# The Leaders in Packaged ACs

Whatever be your airconditioning requirement, your quest to find the right airconditioning ends here. Being India's leading airconditioning company and No. 1 in Packaged ACs, Blue Star offers an unmatched range in energy efficient airconditioning systems to suit your requirements perfectly, be it an office, a showroom, a restobar, an entertainment centre, or any other commercial space.

Having pioneered the introduction of Packaged ACs based on scroll compressor technology over a decade ago, Blue Star now offers its unmatched range in both air cooled and water cooled options. In addition, Blue Star offers you a choice of indoor unit configurations – floor mounted or ceiling suspended.

The floor mounted indoor unit configuration is ideal for catering to very large open spaces which necessarily need ducting over long distances. The ceiling suspended indoor unit configuration is ideal where floor space is not available.

Of course, Blue Star's Packaged ACs come in a wide range of capacities and models to choose from. An optimum selection of units offer you tangible benefits in terms of space saving, redundancy, flexibility, power saving, and even cost saving on related accessories such as transformers, switch-gears, generators, etc.

## Product Line-up

Tonnage (TR)	3.0	5.5	8.5	8.75	11	16.5	17	22
Air Cooled Ducted Splits	●	●	●	●	●		●	●
Air Cooled Packaged ACs		●		●	●	●		●
Water Cooled Packaged ACs		●			●	●		

**34 Models**

Eco-friendly refrigerant comes optional with all models.



## Features & Benefits

Blue Star's Packaged AC range comes packed with features that offer enormous benefits to commercial applications.

### Top-of-the-Line Efficiency & Reliability

These scroll-based systems offer you major benefits of high efficiency, low power bills and increased reliability.



#### **The Scroll Compressor Advantage**

The highly energy efficient and extremely reliable scroll compressor powers these machines, offering you the vital advantages of quick and efficient cooling, lower power bills and minimal maintenance costs.



#### **Power Savings**

The entire AC system – the energy efficient scroll compressor, the precisely balanced refrigeration system, the optimally selected heat exchangers, etc. – are designed to consume minimum power, thus saving enormously on your power bills.



#### **Exceeds ECBC Norms**

All Blue Star Packaged Airconditioners meet ECBC norms with respect to energy efficiency. In fact, most of the models have EERs (Energy Efficiency Ratio) far in excess of the stipulated ECBC norms.

#### **Part Load Operation**

In multiple compressor models and in installations where multiple units operate in parallel, intelligent control ensures that only as many compressors run as are required to cater to the heat load at any point of time. This ensures efficiency of operation, longer compressor life and significant power savings.

**Multi**

#### **Run Time Equalisation**

In Packaged ACs with multiple compressors, microprocessor control ensures that each compressor runs for equal duration, thus distributing the load equally across compressors, ensuring longer compressor life.



## Exceptional User Benefits



### **Refreshing Indoor Air Quality**

Blue Star's Packaged ACs allow controlled fresh air intake and also ensure filtration down to 20 microns using high performance washable, synthetic, woven media filters. This results in creating a refreshing ambience inside the airconditioned space with very high indoor air quality.



### **Flexibility and Redundancy**

Multiple unit installations allow for redundancy in the entire airconditioning system. When any unit is on standby for maintenance or repair, the other units continue to function and cool the premises. Similarly, multiple compressors in the larger units with independent refrigerant circuits add to the redundancy within each system.



### **'Zone-Wise' Cooling**

Multiple unit installations also allow 'zoning' of the premises, whereby different zones can be cooled by individual units. This would enable zone-wise switching on and off of airconditioning.



### **Smart Microprocessor Control**

The intelligent microprocessor control is loaded with the following features:

- Auto switch on or off of compressors in multi-compressor units to suit part load and save power
- Memory backup of settings through power failures
- Auto restart after power failure
- Runtime equalisation of the compressor
- Built-in time delay to protect compressors from instant start/restart
- Fault diagnostics to facilitate speedy correction



### **Designed for Speedy Project Completion**

Packaged ACs from Blue Star are factory-assembled, factory-tested for leaks and ready-flanged for quicker connection to the ducts. This helps in speedy installation and project completion.



## *Designed for the Designer*

*Blue Star's unmatched range of Packaged ACs offer architects, interior designers and consultants the flexibility to design a space with minimal constraints.*



### **Low-Height IDUs**

Blue Star's Ducted Split IDUs are low-height and therefore need less space between the false ceiling and the roof. This allows the interior designer greater flexibility to design interiors with better ceiling height, as well as design a creative false ceiling.



### **Low-Noise Units**

Better acoustic insulation and the use of state-of-the-art parts such as dynamically balanced blowers ensure quiet operation of the Blue Star Indoor Units, making it suitable for even noise-sensitive applications. This gives the designer more options to place the units to suit the interior plan.



### **Smaller Trapdoors**

Blue Star's Ducted Split Indoor Units need amongst the smallest trapdoors required by such systems in the market. This makes the trapdoor a minimalistic feature in the total design plan.



### **Compact and Low-Noise ODUs**

Blue Star's Outdoor Units are designed to be compact, thus occupying less space on the terrace, or on parapets. In addition, adequate attention has been given to their design to ensure a very low noise level.



## A Technologically Advanced AC

The latest technology has been incorporated to ensure that Blue Star Packaged ACs are truly high-performance cooling machines.



### **Optimum Component Selection**

Blue Star's world-class product design ensures a well synchronised, efficient system as a result of optimisation of key components, namely the compressor, expansion valve, blowers, motors and filter drier.



### **Anticorrosion Blue Fin Condenser**

Blue fin condensers increase the corrosion resistance of the coils, thus enhancing the life of the system.



### **Built-in Safety Controls**

To protect your investment from damage and costly repair, Blue Star systems come with built-in safety controls:

- HP/LP switch protects compressors against high or low pressures
- Power quality protector prevents compressor failure due to phase reversal, reverse polarity, phase imbalance, etc.
- In-built thermal/temperature protection



### **Sturdy Outdoor Units for Longer Life**

The powder-coated galvanised steel housing of Blue Star's units as well as the thicker gauge of metal used ensure protection from rust and longer body life.



### **Fire Retardant Imported EPE Insulation**

All IDUs are insulated with fire retardant imported EPE insulation to ensure both safety and efficiency of cooling.



### **Other Features**

- Dynamically balanced Kruger fans add to the reliability of the higher capacity models
- Double inlet, double width forward curved centrifugal fan coupled with V belt driven by TEFC motor ensures high air flow
- IP-54 standard motors operate under all weather conditions





## ***Advantage Blue Star***

### ***Experts in Airconditioning***

Six and a half decades of experience has honed Blue Star's expertise in the field, and has made it the undisputed Expert in airconditioning today. In fact, Blue Star's pioneering streak shows in the fact that it is the first to introduce scroll compressor technology in Packaged ACs in India. Over time, Blue Star has built a redoubtable reputation for delivering world-class commercial airconditioning solutions. Little wonder that one in every two commercial spaces in India is airconditioned by Blue Star today.

### ***State-of-the-art Production Line***

Blue Star produces world-class products from its five world-class manufacturing facilities across the country. Hi-tech plants that are well equipped with every test, development and quality control system required to produce the best airconditioning systems in the country.

### ***High Quality Execution***

- Accurate heat load calculations before proposal to ensure precise tonnage calculation
- Well-designed air distribution systems to avoid 'hot' and 'cold' spots
- Computer-aided duct designing to ensure efficient and minimal ducting
- Precise tools and tackles used at every installation to ensure professional finish
- Well laid-out processes and procedures to ensure efficient time-bound installation

### ***Superior Project Management Skills***

Airconditioning of commercial spaces require meticulous planning and timely execution, since it involves coordination with architects, interior designers, consultants and allied agencies. Blue Star and its dealers offer you rich expertise which makes project execution smooth and hassle free.

### ***After Sales Support***

Blue Star believes in building close ties with the customer after perfect execution to ensure speedy backup, support and maintenance services. After sale service is therefore available on-call through Blue Star's offices in 17 cities across India, and through Blue Star's dealers and associates who cover almost every town and city in the country. Service technicians both in Blue Star and at the various dealerships undergo periodic training programmes conducted by experts from within and outside the country, to keep them up-to-date with the latest technologies and products.

## Air Cooled Ducted Split Airconditioners

Models	Units	DSA 361 R1	DSA 661 R1	DSA 1021R1	DSA 1052 R1	DSA 1322 R1	DSA 1321 R1	DSA 2042 R1	DSA 2642 R1
Nominal Cooling	K.Cal/Hr	9000	16500	25500	26250	33000	33000	51000	66000
Capacity	TR	3	5.5	8.5	8.75	11	11	17	22
<b>Indoor Unit</b>									
Dimensions	WXDXH (mm)	963 x 585 x 381	1220 x 650 x 450	1525 x 650 x 450	1525 x 650 x 450	1830 x 650 x 450	1830 x 650 x 450	2035 x 1035 x 550	2035 x 1190 x 690
Blower Fan	Type	Centrifugal Forward Curved Double Inlet, Double Width							
Nominal Air Flow	CMH	2040	3740	5800	5950	7480	7480	11600	14960
Power Supply		230 V - 1 PH - 50 Hz							
<b>Outdoor Unit</b>									
Dimensions	WXDXH (mm)	1020 x 416 x 686	1020 x 406 x 945	1200 x 550 x 945	1435 x 550 x 945	1020 x 406 x 954	1435 x 620 x 945	1200 x 550 x 945	1435 x 620 x 945
Quantity		1	1	1	1	2	1	2	2
Power Supply		415 V - 3 PH - 50 Hz							
Condenser Fan	Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Quantity	1	1	1	1	1	1	1	2
Indoor Unit Weight	kg	55	68	90	102	127	127	160	230
Outdoor Unit Weight	kg	80	95	160	190	95	220	160	220
Compressor	Type	Scroll							
Controller		Microprocessor - Pendant Controller							

## Air Cooled Packaged Airconditioners

Models	Units	DPA 661 R1	DPA 1052 R1	DPA 1321R1	DPA 1322 R1	DPA 1983 R1	DPA 2642 R2
Nominal Cooling	K.Cal/Hr	16500	26250	33000	33000	49500	66000
Capacity	TR	5.5	8.75	11	11	16.5	22
<b>Indoor Unit</b>							
Dimensions	WXDXH (mm)	900 x 660 x 1700	1160 x 660 x 1700	1160 x 660 x 1700	1160 x 660 x 1700	1500 x 750 x 1800	1500 x 930 x 2000
Blower Fan	Type	Centrifugal					
Nominal Air Flow	CMH	3740	5950	7480	7480	11220	14960
Power Supply		15 V - 3 PH - 50 Hz					
<b>Outdoor Unit</b>							
Dimensions	WXDXH (mm)	1020 x 406 x 954	1020 x 406 x 954	1435 x 620 x 947	1020 x 406 x 954	1020 x 406 x 954	1435 x 620 x 947
Quantity		1	2	1	2	3	2
Power Supply		230 V - 1 PH - 50 Hz					
Condenser Fan	Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Quantity	1	1	1	1	1	2
Indoor Unit Weight	kg	195	295	302	438	438	502
Outdoor Unit Weight	kg	86	86	120	86	86	120
Compressor	Type	Scroll					
Controller		Microprocessor - Pendant Controller					

## Water Cooled Packaged Airconditioners

Models	Units	DPW 661 R1	DPW 1322 R1	DPW 1983 R1
Nominal Cooling	K.Cal/Hr	16500	33000	49500
Capacity	TR	5.5	11	16.5
<b>Indoor Unit</b>				
Dimensions	WXDXH (mm)	900 x 600 x 170	1160 x 660 x 1700	1500 x 750 x 1800
Cooling Coil		Internally Grooved with Copper Tubing with Slit Fins		
Blower Fan	Type	Centrifugal	Centrifugal	Centrifugal
Nominal Airflow	CMH	3740	7480	11220
Power Supply		415 V - 3 Ph - 50 Hz		
Quantity	Qty	1	2	3
Weight	kg	253	390	556
Compressor	Type	Scroll		
Controller		Micro Processor - Pendant Controller		

Models with eco friendly refrigerant available as an option.



For more information, please contact **BLUE STAR LIMITED** • **Ahmedabad:** 2nd Floor, Shivalik-II, Near Shivrani Cross Road, 132 Feet Ring Road, Satellite, Ahmedabad - 380 015. Tel: (079) 40224000 • **Bangalore:** Ozone Manay Technology Park, SY.No 56/18 & 55/9, Hongasandra Village, Begur Hobli, Garvebhavipalya, Bangalore - 560068. Tel: (080) 41854000 • **Bhopal:** Star Arcade, 2nd Floor, Plot No.165A & 166, Zone-I, Maharana Pratap Nagar, Bhopal - 462 011. Tel: (0755) 4273378 • **Bhubaneswar:** 3A, Satya Nagar, 2nd Floor, Bhubaneswar - 751 007. Tel: (0674) 2508303 • **Chandigarh:** SCO 1, Madhya Marg, Sector 26, Chandigarh - 160 019. Tel: (0172) 5024000 • **Chennai:** No. 104, Old No. 46, Garuda Building, Cathedral Road, Chennai - 600 086. Tel: (044) 42444000 • **Goa:** 1st Floor, Buddhaseth Apts., Tonca, Caranzalem, Goa - 403 002 Tel: (0832) 2461671 • **Gurgaon:** Block 2-A, DLF Corporate Park, DLF Qutab Enclave, Phase III, Mehrauli-Gurgaon Road, Gurgaon - 122 002. Tel: (0124) 4094100 • **Guwahati:** 13, K.C. Patowari Road, Ulubari, Guwahati - 781 007. Tel: (0361) 2468495 / 2468496 • **Jaipur:** A-19, 1st Floor, Main Sahakar Path, Near Sahakar Bhavan, Jaipur - 302 001. Tel: (0141) 2744033-35 • **Kochi:** 2nd Floor, Millennium Plaza, MKK Nair Road, Alinchuvadu Junction, Kochi - 682 024. Tel: (0484) 4499000 • **Kolkata:** 7, Hare Street, Kolkata - 700 001. Tel: (033) 22134100 • **Lucknow:** 177/A, Faizabad Road, Lucknow 226 007. Tel: (0522) 4034000 • **Mumbai:** Blue Star House, 9-A, Ghatkopar Link Road, Saki Naka, Mumbai - 400 072. Tel: (022) 66884100 • **Nagpur:** 219, Bajaj Nagar, 1st Floor, South Ambazari Road, Nagpur - 440 010. Tel: (0712) 2249000 / 6624000 • **Pune:** 201/A, Nityanand Complex, 1st Floor, 247/A, Bund Garden Road, Pune - 411 001. Tel: (020) 41044000 / 26169332 • **Secunderabad:** 207, Sikh Road, Bantia Estate, Secunderabad - 500 003. Tel: (040) 44004100 • **Thiruvananthapuram:** T. C. IX/1490, 'Chandrika', Sasthamangalam, Thiruvananthapuram - 695 010. Tel: (0471) 2720025 / 65 • **Vadodara:** Ramakrishna Chambers, 7th Floor, Productivity Road, Alkapuri, Vadodara - 390 007. Tel: (0265) 2330334/6614100 • **Visakhapatnam:** D. No. 49-24-65/1, Near Senkarmattam Road, Madhura Nagar, Visakhapatnam - 530 016. Tel: (0891) 2748405 / 2748433.

• email: [coolingsolutions@bluestarindia.com](mailto:coolingsolutions@bluestarindia.com) • Visit us at: [www.bluestarindia.com](http://www.bluestarindia.com)