

Cools five rooms with just one ODU.
Cools down your power bills upto 40%.

Free Match Inverter





Blue Star, India's leading Airconditioning and Refrigeration Company, is known for its innovative product design and development. Over the past decade, Blue Star has introduced many state-of-the-art products and solutions in the Indian market that have revolutionised the AC industry.

Now, Blue Star introduces Free Match, a range of advanced inverter splits that are best suited for premium residences, villas and light commercial spaces.

Free Match Inverter

Blue Star's Free Match Inverter ACs come with a unique advantage of optimising system capacity by selecting the outdoor unit capacity close to the maximum indoor capacity, that will be used at the same time.

The system also comes with an advanced inverter that changes the speed of the compressor, based on the input from the EXV (Electronic Expansion Valve) fitted for each indoor unit which can operate from 0 to 480 steps. The opening of the EXV is dependent on both internal and external loads. This results in delivering the optimum capacity and maintaining the precise set temperature.

With the single outdoor and compressor advantage, the units enhance system efficiency during part-load conditions. This occurs as the compressor runs at a relatively lower RPM in part-load conditions whereas the COPs are higher. System efficiency is further improved when the entire condenser area is available even for smaller capacities. This will drop the condensing temperature of the refrigerant resulting in higher capacity and lower power consumption.

The unique Free Match System design, Inverter Compressors, Electronic Expansion Valves and Controllers make the system extremely efficient and can save even up to 40% on running costs.



Capacity optimisation of ODU



Uniform temperature



Reduced running cost



Reduced noise



Cooling + heating functions



Built-in self-diagnostics



Space-saving ODUs



Choice of IDUs



Quick and convenient installation



Operates in extreme ambient temperatures



Flexible pipe design

Unmatched benefits of the Free Match Inverter:



Space-saving – One for many

To give you an advantage like no other, the Free Match Inverter Split AC offers solutions like no other. It eliminates the need to set up multiple ODUs for every split which helps save space and reduce clutter.



Conventional Split Airconditioners



Free Match Inverter



Power saving – Sensible cooling

The outdoor units are powered by twin rotary DC inverter compressors that modulate capacities from as low as 10% to a full 100% of designed capacity. This range combined with the intelligent controller and Electronic Expansion Valves for each IDU, enables the system to deliver the exact capacity based on internal and external loads, thus delivering enormous power savings in part-load conditions.





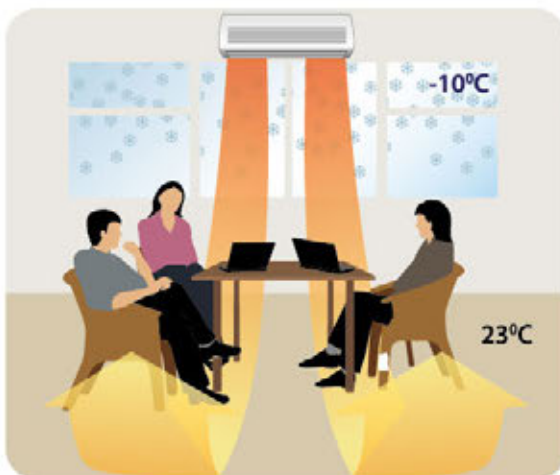
Choice of IDUs

With Blue Star's Free Match Inverter Split AC, one ODU can drive up to five individual IDUs of any of the following types – Cassette, Hi-Wall Split, Hide Away, Floor-cum-Ceiling Mount or Wall Console.

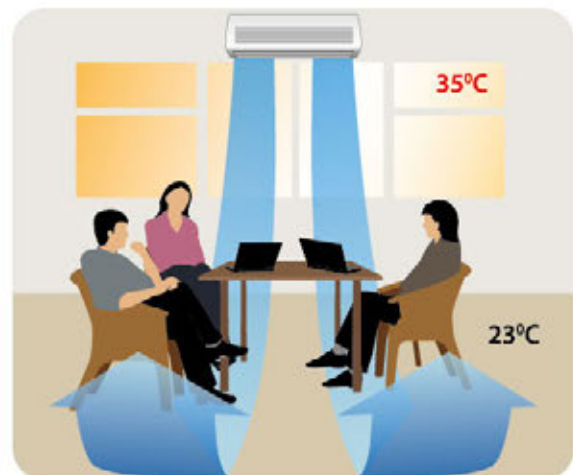


Cooling + Heating – The AC for all seasons

These ACs can operate for your airconditioning needs in both summer and winter. Moreover, the power consumption of this heating system is just one third of conventional electric heaters.



Heating Mode



Cooling Mode



Precision control – Accurately adjusts to your needs

The outdoor unit of Blue Star's Free Match series is equipped with one Electronic Expansion Valve for each of the five indoor units the ODU can drive. This regulates the flow of refrigerant to each IDU based on changes in the load using PID logic, which helps maintain near-accurate room temperatures within $\pm 0.5^{\circ}\text{C}$ of the set temperature.





Optimum capacity – Install as per your need

A typical residence, two bedrooms and a living room, requires 4.5 TR (3X1.5 TR) of airconditioning. However, only two rooms (living and one bedroom or two bedrooms at night) are occupied at most points in time. Earlier, systems would have required three IDUs and ODU to be installed, each of 1.5 TR capacity. With Free Match, you need to install only one 3 TR ODU that drives up to three 1.5 TR IDUs. The system feeds the two working IDUs at most points of time, thus optimising use of capacity and saving both investment and running costs. Needless to say, the efficient Inverter Compressor works at a higher speed to ramp up the capacity and maintain comfortable indoor conditions in all three rooms if all three IDUs are switched on at the same time on a rare occasion.

Conventional Split Airconditioners



Installed Capacity is 4.5 TR

Free Match Inverter



Installed Capacity is 3 TR



Flexible installation – Place it wherever you need it

Blue Star Free Match Systems offer great flexibility in terms of pipe routing. With this flexibility, the maximum distance between an IDU and the ODU can range up to 25 metres and the distance between two IDUs can be maintained up to 7.5 metres.





Wide operating range – Unfazed by extreme temperatures

These machines cool in ambient temperatures as high as 48°C and heat at temperatures as low as -15°C. This feature makes the Free Match Systems suitable for any weather condition across the country.

| Range Mode | Outdoor Temperature Range °C |
|------------|------------------------------|
| Cooling | -5~48°C |
| Heating | -15~27°C |



Self-diagnosis – Displays the trouble all by itself

Fitted with advanced controllers, Blue Star's Free Match Systems enable self-diagnosis of any operating errors. Error codes are displayed on the indoor and outdoor units that help identify corrective actions quickly, reducing downtime of the system in case of faults.

| Error Code | Malfunction |
|------------|--|
| E1 | High Pressure protection of compressor |
| E2 | Shut down for anti-freeze protection |
| E3 | Low pressure protection of compressor |
| E4 | Discharge temp. Protection of compressor |
| E5 | Compressor overload protection |
| E6 | Communication error |
| E7 | Mode conflict |





Low noise

Since the Electronic Expansion Valves are fitted in the outdoor unit, the noise of gas expansion is no longer in the indoor unit. This makes them quieter during operation. What's more, the blowers in the IDUs are of low-noise design which makes the indoor units extremely silent as well.

Even the ODUs are quiet. Since they use low-noise twin rotary compressors and specially designed fans, the operation noise is drastically reduced.



Reduced electrical load – Saves on costs

Optimum use of capacity and the lower power consumption of the Blue Star Free Match System also means that all electrical systems can be of lower rating, to the extent of 33% for a 2 BHK apartment and even higher for an apartment complex. Thus saving cost of Initial power sanction, gensets, cabling, switchgear, etc.



Conventional Split Airconditioners



Free Match Inverter



Eco-friendly refrigerant – Helps the earth breathe easy

Free Match Systems operate on R410A - a green gas that has zero ODP (Ozone Depletion Potential). So using Free Match not only helps you save power, but also helps protect the environment.

Product Line-up

Outdoor Unit

| Appearance | HP | Minimum no. of IDUs | Maximum no. of IDUs |
|---|-----|---------------------|---------------------|
|  | 1.5 | 1 | 2 |
| | 1.8 | 1 | 2 |
| | 2.5 | 2 | 3 |
| | 2.8 | 2 | 4 |
| | 3.5 | 2 | 4 |
| | 4.4 | 2 | 5 |

Free Match Indoor Units Range

| Appearance | Type | 0.6 TR | 0.75 TR | 1 TR | 1.5 TR | 1.75 TR | 2 TR |
|---|-----------------------------|--------|---------|------|--------|---------|------|
|  | Hi-Wall Units | ○ | ○ | ○ | ○ | | |
|  | Cassettes | | | ○ | ○ | | ○ |
|  | Concealed Splits | | ○ | ○ | ○ | ○ | ○ |
|  | Wall Mounted Consoles | | ○ | ○ | ○ | | |
|  | Floor/Ceiling Mounted Units | | ○ | ○ | ○ | | ○ |





Wide Range of Indoor Units

Hi-Wall Units

- Four models 0.6TR to 1.5TR
- Compact unit
- Effective air filtration
- Wide air supply angle
- Low noise
- Vertical auto swing function
- Wireless Remote Controller with LCD display



Cassettes

- Three models 1TR to 2TR (Compact and Large together)
- Four way air flow with wide reach
- Compact design
- Built-in water drain pump
- Washable air filter
- LED display
- Fresh-air connection
- Wired and Wireless Remote Controller



Concealed Splits

- Five models 0.8TR to 2TR
- Slim and compact design
- Low height (200mm)
- Fan speed control
- Low noise level
- Flexible installation
- Wired and Wireless Remote Controller



Floor/Ceiling Mounted units

- Four models 0.8TR to 2TR
- Floor and Ceiling convertible installation
- Large air flow
- Digital temperature display
- Wired and Wireless Remote Controller



Wall Mounted Consoles

- Three models 0.8TR to 1.5TR
- Sleek and elegant design
- Advanced 3D air flow
- 7 speed fan motor
- Effective air filtration
- Auto swing
- Wireless Remote Controller



Intelligent Controllers



Wired Remote Controller



Wireless Remote Controller



Wireless Remote Controller for Wall Mounted Console



I feel

The remote controller has a sensor which sends the input of the room temperature to the indoor unit. The temperature regulation is based on this input and not the return-air temperature sensed near the indoor unit as in the conventional systems. This ensures maximum comfort for occupants.



Auto Mode

The units will run on cool mode when the temperature is above 25°C and will shift to heat mode when the temperature is below 22°C. If the temperature is between 22°C to 25°C, the units will run on fan mode.



Mode Conflict Protection

The operating mode of the first indoor unit shall be set in the outdoor unit. Even if the subsequent indoor units are set in different modes by mistake, all the indoor units will still run in the mode set by the first indoor unit.



Turbo Mode

When the unit is on turbo mode, the indoor fans run on high speed mode automatically. This enables the system to reach the set conditions in a very short time.



Blow Mode



Sleep Mode



Self-Diagnosis



Wide Angle



LED Display



On/Off Timer



Energy Saver



Auto Restart



Auto Defrosting Force



Air flow Direction Control



Technical Specifications

Outdoor Unit

| DESCRIPTION | | UNITS | FM 14 - F | FM 17 - F | FM 24 - F | FM 27 - F | FM 33 - F | FM 42 - F |
|-----------------------------------|---------|-------------|---|-----------|-----------|-----------|-----------|-----------|
| Nominal Cooling Capacity | | TR | 1.2 | 1.4 | 2 | 2.2 | 2.75 | 3.5 |
| | | HP | 1.5 | 1.8 | 2.5 | 2.8 | 3.5 | 4.4 |
| Cooling Capacity* | | kW | 4.1 | 5 | 7 | 8 | 9.8 | 12.3 |
| | | Btu/hr | 14,000 | 17,000 | 24,000 | 27,300 | 33,400 | 42,000 |
| Heating Capacity** | | kW | 4.4 | 5.6 | 8.5 | 9.4 | 11 | 13 |
| | | Btu/hr | 15,000 | 19,000 | 29,000 | 32,000 | 37,500 | 44,300 |
| Sound Pressure level*** | | dBA | 56 | 56 | 58 | 59 | 54 | 54 |
| Refrigerant | | | R 410A | R 410A | R 410A | R 410A | R 410A | R 410A |
| Refrigerant Pre Charge | | kg | 1.35 | 1.35 | 2.2 | 2.2 | 3.6 | 4.8 |
| Power Supply | | | 220 - 240 Volts, 1 ϕ , 50 Hz AC Supply | | | | | |
| Power Input | Cooling | kW | 1.15 | 1.55 | 2.20 | 2.48 | 3.03 | 3.59 |
| | Heating | kW | 1.18 | 1.54 | 2.35 | 2.55 | 3.01 | 3.54 |
| Overall Dimensions | Width | mm | 899 | 899 | 955 | 955 | 950 | 1015 |
| | Depth | mm | 378 | 378 | 396 | 396 | 412 | 440 |
| | Height | mm | 596 | 596 | 700 | 700 | 840 | 1103 |
| Compressor | | | Inverter Rotary | | | | | |
| No. of compressors | | | 1 | 1 | 1 | 1 | 1 | 1 |
| Condenser | | | Tube Fin Type | | | | | |
| Material | | | Copper Tubes, Aluminum Fins | | | | | |
| Condenser Fan | | | Axial Fan | | | | | |
| No. of Fans | | | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant Pipe Connection Size* | Gas | mm ϕ | 9.52 | 9.52 | 9.52 | 9.52 | 15.9 | 15.9 |
| | | Inch ϕ | 3/8 | 3/8 | 3/8 | 3/8 | 5/8 | 5/8 |
| | Liquid | mm ϕ | 6.35 | 6.35 | 6.35 | 6.35 | 9.52 | 9.52 |
| | | Inch ϕ | 1/4 | 1/4 | 1/4 | 1/4 | 3/8 | 3/8 |
| Maximum no. of IDUs | | | 2 | 2 | 3 | 4 | 4 | 5 |
| Max. Equivalent Pipe Length | | m | 20 | 20 | 70 | 70 | 70 | 80 |
| Net Weight | | kg | 43 | 43 | 59 | 60 | 73 | 102 |

Notes:

*FM33F has four sets of pipe connections:

a. 5/8"(15.9mm), 3/8"(9.52mm) b. 1/2"(12.7mm), 1/4"(6.35mm) c. 3/8"(9.52mm), 1/4"(6.35mm) d. 3/8"(9.52mm), 1/4"(6.35mm)

*FM42F has five sets of pipe connections:

a. 5/8"(15.9mm), 3/8"(9.52mm) b. 1/2"(12.7mm), 1/4"(6.35mm) c. 1/2"(12.7mm), 1/4"(6.35mm), d. 3/8"(9.52mm), 1/4"(6.35mm) e. 3/8"(9.52mm), 1/4"(6.35mm)

**Nominal cooling capacities are based on the following conditions:

Indoor temperature: 27°CDB, 19°CWB; Outdoor temperature: 35°CDB

***Nominal heating capacities are based on the following conditions:

Indoor temperature: 27°CDB; Outdoor temperature: 7°CDB, 6°CWB

***As tested in semi Anechoic chamber. Actual value maybe higher according to ambient noise level.

Floor/Ceiling Mounted Units

| Model | | | FCM09FM | FCM12FM | FCM18FM | FCM24FM |
|----------------------------------|-------------|-------------|---|--------------|--------------|--------------|
| Nominal Cooling Capacity | | TR | 0.75 | 1 | 1.5 | 2 |
| Capacity | Cooling | kW | 2.5 | 3.5 | 5 | 7.1 |
| | Heating | kW | 2.8 | 3.85 | 5.5 | 8 |
| Electrical Power Supply | | | 220 - 240 Volts, 1 ϕ , 50 Hz AC Supply | | | |
| Air Volume | | cmh | 650 | 650 | 950 | 1250 |
| | | cfm | 380 | 380 | 560 | 735 |
| Sound Pressure Level* | | dBA | 40/36 | 40/36 | 45/40 | 48/44 |
| Fan Motor | Input Power | W | 55 | 55 | 110 | 110.0 |
| Refrigerant Pipe Connection Size | Gas | mm ϕ | 9.5 | 9.5 | 12.7 | 15.9 |
| | | Inch ϕ | 3/8 | 3/8 | 1/2 | 5/8 |
| | Liquid | mm ϕ | 6.35 | 6.35 | 6.35 | 9.5 |
| | | Inch ϕ | 1/4 | 1/4 | 1/4 | 3/8 |
| | Type | | Flare Connection | | | |
| Drain Connection | OD | mm ϕ | 17 | 17 | 17 | 17 |
| Overall Dimensions W x D x H | | mm | 1220x700x225 | 1220x700x225 | 1220x700x225 | 1220x700x225 |
| Net Weight | | kg | 40 | 40 | 40 | 45 |
| Coil | | | Tube Fin Type | | | |
| Material | | | Copper Tubes, Aluminium Fins | | | |

Note:

*As tested in semi Anechoic chamber. Actual value may be higher according to ambient noise level.

Hi Wall Units

| MODEL | | | HW07FM | HW09FM | HW12FM | HW18FM |
|----------------------------------|-------------|-------------|---|-------------|-------------|-------------|
| Nominal Cooling Capacity | | TR | 0.6 | 0.75 | 1 | 1.5 |
| Capacity | Cooling | kW | 2.1 | 2.6 | 3.5 | 5.3 |
| | Heating | kW | 2.6 | 2.8 | 3.8 | 5.8 |
| Electrical Power Supply | | | 220 - 240 Volts, 1 ϕ , 50 Hz AC Supply | | | |
| Air Volume | | cmh | 450 | 500 | 630 | 850 |
| | | cfm | 265 | 295 | 370 | 500 |
| Sound Pressure Level* | | db A | 36/28 | 37/28 | 38/30 | 46/36 |
| Fan Motor | Input Power | W | 35 | 35 | 45 | 55 |
| Refrigerant Pipe Connection Size | Gas | mm ϕ | 9.52 | 9.52 | 9.52 | 12.7 |
| | | Inch ϕ | 3/8 | 3/8 | 3/8 | 1/2 |
| | Liquid | mm ϕ | 6.35 | 6.35 | 6.35 | 6.35 |
| | | Inch ϕ | 1/4 | 1/4 | 1/4 | 1/4 |
| | Type | | Flare Connection | | | |
| Drain Connection | OD | mm ϕ | 20 | 20 | 20 | 20 |
| Overall Dimensions | W x D x H | mm | 790x170x265 | 790x170x265 | 845x180x275 | 940x200x300 |
| Net Weight | | kg | 9 | 9 | 10 | 13 |
| Coil | | | Tube Fin Type | | | |
| Material | | | Copper Tubes, Aluminium Fins | | | |

Note:

*As tested in semi Anechoic chamber. Actual value may be higher according to ambient noise level.

Cassettes

| MODEL | | | CC12FM | CC18FM | LC24FM |
|----------------------------------|-------------|-------------|---|-------------|-------------|
| Nominal Cooling Capacity | | TR | 1 | 1.5 | 2 |
| Capacity | Cooling | kW | 3.5 | 5 | 7.1 |
| | Heating | kW | 4 | 5.5 | 8 |
| Electrical Power Supply | | | 220 - 240 Volts, 1 ϕ , 50 Hz AC Supply | | |
| Air Volume | | cmh | 600 | 600 | 1180 |
| | | cfm | 350 | 350 | 695 |
| Sound Pressure Level* | | db A | 46 | 46 | 39 |
| Fan Motor | Input Power | W | 50 | 50 | 100 |
| Refrigerant Pipe Connection Size | Gas | mm ϕ | 9.5 | 12.7 | 15.9 |
| | | Inch ϕ | 3/8 | 1/2 | 5/8 |
| | Liquid | mm ϕ | 6.35 | 6.35 | 9.5 |
| | | Inch ϕ | 1/4 | 1/4 | 3/8 |
| | Type | | Flare Connection | | |
| Drain Connection | OD | mm ϕ | 31 | 31 | 31 |
| Overall Dimensions W x D x H | Body | mm | 570x570x230 | 570x570x230 | 840x840x240 |
| | Panel | mm | 650x650x50 | 650x650x50 | 950x950x60 |
| Net Weight | Body | kg | 18 | 18 | 30 |
| | Panel | kg | 2.5 | 2.5 | 6.5 |
| Coil | | | Tube Fin Type | | |
| Material | | | Copper Tubes, Aluminium Fins | | |

Note:

*As tested in semi Anechoic chamber. Actual value may be higher according to ambient noise level.

Concealed Splits

| MODEL | | | CS09FM | CS12FM | CS18FM | CS21FM | CS24FM |
|----------------------------------|-------------|-------------|---|-------------|-------------|--------------|--------------|
| Nominal Cooling Capacity | | TR | 0.75 | 1 | 1.5 | 1.75 | 2 |
| Capacity | Cooling | kW | 2.5 | 3.5 | 5 | 6 | 7.1 |
| | Heating | kW | 2.8 | 3.85 | 5.5 | 6.6 | 8 |
| Electrical Power Supply | | | 220 - 240 Volts, 1 ϕ , 50 Hz AC Supply | | | | |
| Air Volume | | cmh | 450 | 500 | 700 | 1000 | 1000 |
| | | cfm | 265 | 295 | 410 | 590 | 590 |
| Fan Motor | Input Power | W | 75 | 65 | 80 | 110 | 110 |
| Sound Pressure Level* | | db A | 37/31 | 39/32 | 41/33 | 42/34 | 42/34 |
| Refrigerant Pipe Connection Size | Gas | mm ϕ | 9.5 | 9.5 | 12.7 | 15.9 | 15.9 |
| | | Inch ϕ | 3/8 | 3/8 | 1/2 | 5/8 | 5/8 |
| | Liquid | mm ϕ | 6.35 | 6.35 | 6.35 | 9.5 | 9.50 |
| | | Inch ϕ | 1/4 | 1/4 | 1/4 | 3/8 | 3/8 |
| | Type | | Flare Connection | | | | |
| Drain Connection | OD | mm ϕ | 20 | 20 | 20 | 20 | 20 |
| Overall Dimensions W x D x H | | mm | 700x615x200 | 700x615x200 | 900x615x200 | 1100x615x200 | 1100x615x200 |
| Net Weight | | kg | 22 | 23 | 27 | 31 | 31 |
| Coil | | | Tube Fin Type | | | | |
| Material | | | Copper Tubes, Aluminium Fins | | | | |

Note:

*As tested in semi Anechoic chamber. Actual value may be higher according to ambient noise level.

Wall Mounted Console

| MODEL | | | WC09FM | WC12FM | WC18FM |
|----------------------------------|-------------|-------------|---|-------------|-------------|
| Nominal Cooling Capacity | | TR | 0.75 | 1 | 1.5 |
| Capacity | Cooling | kW | 2.6 | 3.5 | 5.3 |
| | Heating | kW | 2.8 | 3.8 | 5.8 |
| Electrical Power Supply | | | 220 - 240 Volts, 1 ϕ , 50 Hz AC Supply | | |
| Air Volume | | cmh | 480 | 550 | 650 |
| | | cfm | 280 | 325 | 385 |
| Sound Pressure Level* | | dB(A) | 40/24 | 40/32 | 46/35 |
| Fan Motor | Input Power | W | 35 | 35 | 45 |
| Refrigerant Pipe Connection Size | Gas | mm ϕ | 9.52 | 9.52 | 12.7 |
| | | Inch ϕ | 3/8 | 3/8 | 1/2 |
| | Liquid | mm ϕ | 6.35 | 6.35 | 6.35 |
| | | Inch ϕ | 1/4 | 1/4 | 1/4 |
| | Type | | Flare Connection | | |
| Drain Connection | OD | mm ϕ | 20 | 20 | 20 |
| Overall Dimensions W x D x H | | mm | 700x215x600 | 700x215x600 | 700x215x600 |
| Net Weight | | kg | 15 | 15 | 15 |
| Coil | | | Tube Fin Type | | |
| Material | | | Copper Tubes, Aluminium Fins | | |

Note:

*As tested in semi Anechoic chamber. Actual value may be higher according to ambient noise level.

All specifications are subject to change without notice.







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