



BLUE STAR

## PACKAGED ACs AND DUCTED SPLITS

NOTHING COMES CLOSE TO THEIR COOLING.  
OR THEIR WIDE RANGE.





With more than seven decades of experience in air conditioning, over a million tons installed and over 500 trained and dedicated dealers across the country, Blue Star has been the undisputed market leader in ducted systems in India.

Our leadership has not been limited to sales, service, reach and range alone. We have achieved major technological innovations in the field, resulting in unique products being introduced into the markets over the last few decades.

Blue Star was the first to introduce scroll technology in ducted systems over a decade ago. Then came the HiSen and HiPer Packaged ACs which were designed to cater specifically to high sensible heat and high ambient applications such as IT Parks and server banks. We also pioneered the HiPer Green Packaged unit for use in green building applications.

We have a wide range of air cooled and water cooled floor/ceiling mounted ductable ACs with various refrigerant options to suit customer needs.

# SALIENT FEATURES



Highly efficient units with scroll compressors



Designed to work effectively even in ambient temperatures as high as 50°C



Compatible with R410A eco-friendly refrigerant



Robust and reliable



Aesthetically superior



Service-friendly design

## THE DUCTED SYSTEMS RANGE

### Air Cooled Packaged ACs

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

In this range, the floor-mounted indoor unit houses the DIDW blower, coil, filters and compressor, while the outdoor unit houses the high-efficiency condenser and new-design propeller fan. The strategic design, which places the compressors in the proximity of the evaporator in the indoor unit, further enhances the efficiency of this system.



### Water Cooled Packaged ACs

Where water is available in plenty, our water cooled Packaged ACs offer higher efficiency than air cooled systems since water is a superior cooling medium compared to air. These systems come pre-charged and the unit comprises of the filter, blower, evaporator, compressor and water cooled condenser. These water cooled systems offer both higher efficiency as well as lower power consumption compared to air cooled systems.





#### **Air Cooled Ductable Splits**

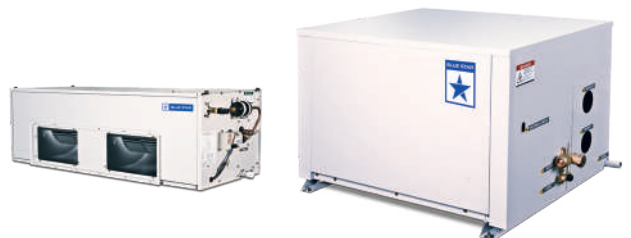
Where floor space is scarce but the AC unit can be housed above the false ceiling, ducted splits are the best choice. The indoor unit in our ductable splits houses the evaporator, DIDW blower and filter in a compact powder-coated sheet metal unit, while the outdoor unit houses the compressor, the condenser and the new-design propeller fan.



#### **Water Cooled Ductable Split Units:**



This is another innovation by Blue Star. Our water cooled ducted units are very much suitable for shopping malls, office complexes, serviced apartments, industrial air conditioning set-ups and any application with multiple tenants. The advantages are:



1. Independent control and power billing in multi-tenant premises.
2. Units can be mounted within the tenant's place.
3. Investment can be in a phased manner; no need to lock capital.
4. Aesthetically better as the outdoor unit is not exposed like in air cooled systems. Also, refrigerant pipe limitation is overcome as the condensing unit need not be kept in an open space and can be mounted near the IDU within the building.
5. New DSW-mini series units are available in smaller capacities: 1 TR, 1.5 TR, 2 TR, 2.5 TR.







PRODUCT LINE-UP



Air Cooled

| Appearance  | Type  | 43 TR | 5.5 TR | 6 TR | 8.5 TR | 9 TR | 11 TR | 12 TR | 16.5 TR | 18 TR | 22 TR | 24 TR |
|---|---|-------|--------|------|--------|------|-------|-------|---------|-------|-------|-------|
|  | Air Cooled Ducted Split Air Conditioners with R410A | ■     | ■      |      | ■      |      | ■     |       | ■       |       | ■     |       |
|  | Air Cooled Packaged Air Conditioners with R410A     |       |        | ■    |        | ■    |       | ■     |         | ■     |       | ■     |

| Appearance   | Type  | 3 TR | 5.5 TR | 8.5 TR | 8.75 TR | 11 TR | 16.5 TR | 22 TR |
|--|---|------|--------|--------|---------|-------|---------|-------|
|   | Air Cooled Ducted Split Air Conditioners with R22 / R407C | ■    | ■      | ■      | ■       | ■     | ■       | ■     |
|  | Air Cooled Packaged Air conditioners with R22 / R407C     |      | ■      |        | ■       | ■     | ■       | ■     |

Water Cooled

| Appearance  | Type   | 1 TR | 1.5 TR | 2 TR | 2.5 TR | 3 TR | 5.5 TR | 8.75 TR | 11 TR | 16.5 TR |
|---|--|------|--------|------|--------|------|--------|---------|-------|---------|
|  | DSW - Mini Series Condensing Unit with R410A | ■    | ■      | ■    | ■      |      |        |         |       |         |
| DSW - Mini series - Indoor Units  |  |      |        |      |        |      |        |         |       |         |
|  | Hi-Wall                                      | ■    | ■      | ■    |        |      |        |         |       |         |
|  | Cassette                                     |      | ■      | ■    | ■      |      |        |         |       |         |
|  | Concealed Type                               | ■    | ■      | ■    | ■      |      |        |         |       |         |

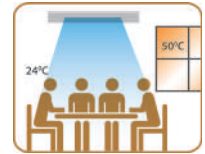
| Appearance  | Type   | 1 TR | 1.5 TR | 2 TR | 2.5 TR | 3 TR | 5.5 TR | 8.75 TR | 11 TR | 16.5 TR |
|---|--|------|--------|------|--------|------|--------|---------|-------|---------|
|  | Ducted Split Air Conditioner with R22 & 407C |      |        |      |        | ■    | ■      | ■       | ■     |         |
|  | Packaged Air Conditioners with R22 & 407C    |      |        |      |        |      | ■      |         | ■     | ■       |

## FEATURES

**50°C**

### Operation at Higher Ambients

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



### Lower Noise Levels

The outdoor units of these ducted systems are fitted with bird-wing design, high-efficiency fans. This lowers noise levels significantly.



### Lower Running Cost

The high-efficiency fan used in these systems has specially designed blades and offers better air flow. This, along with more coil face area, helps in reducing the condensing temperature, and thereby lowers power consumption and running cost.



### Service-friendly Design

The design of the outdoor unit in the ducted systems range is such that it offers easy access to the compressors and the control panel on the side. And the fan motor assembly on the front panel is easily removable for repair. Also, the condenser coil is much easier to clean.



### Scroll Compressor-driven

Due to their inherent design characteristics, scroll compressors have very high volumetric efficiency. They are ideal for air conditioning applications where the compression ratio is not very high. All Blue Star Packaged ACs and Ducted Splits use scroll compressors.



### Intelligent Microprocessor Controller

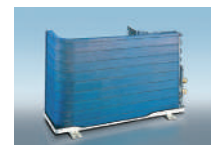
All units are controlled by microprocessor-based controllers with the following features:

- 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 temp. control +/- 10°C
- Provision for fire alarm input



### Blue Fin Condenser and Corrosion-resistant Body

All units have special blue fins and are made of galvanised sheets which are powder-coated after fabrication, making them corrosion-resistant while looking elegant, and also improving the overall life of the system.



### Wide Voltage Range

The ducted systems can function across a wide voltage range of 360-440V, which makes them a rare breed



Wide voltage range



#### Multi-compressor Advantage

Most of these ducted systems use more than one compressor. This gives them the advantage of high part-load efficiencies since the entire evaporator surface is available to the system even during part-load conditions.



#### Run-time Equalisation

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



#### Hydrophilic Coating

The aluminium fins used on the evaporator coil have a hydrophilic coating. This coating helps retain the moisture on the fins from where they drain to the bottom by gravity. This helps reduce the moisture carry-over with the supply air.



#### EPE Insulation

The evaporator section of the indoor unit is insulated using fire-retardant EPE insulation. This reduces loss of cooling.



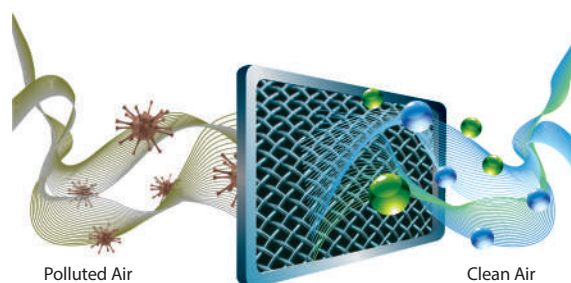
#### DIDW Blower Design

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



#### Efficient Air Filters

Air filters made of a non-woven polyester media enclosed in HDPE mesh are provided. These are efficient and can be cleaned easily.







## ADVANTAGE BLUE STAR

### **Seven Decades of Expertise**

With over 5 decades of experience in air conditioning, Blue Star is the undisputed market leader in ducted systems.

### **State of The Art Production Facilities**

We have 5 world-class manufacturing facilities across the country to produce various HVAC products starting from small room ACs to big chillers. These factories are equipped with the latest automated machine tools, experienced engineers and quality control systems. We also have an experienced R&D team to develop world-class products for our customers.

### **Cooling Solutions Made Easy**

Our engineers offer the right and optimal solutions for your various air conditioning needs. Starting from cooling load calculations to well designed air-distribution systems and equipment layouts, all before starting the project.

### **Superior Project Management**

Air conditioning of commercial spaces requires meticulous planning and timely execution as it involves coordination with architects, interior designers, consultants and various other professional agencies. With our well-trained dealers, we offer solutions for quality and timely execution of air conditioning projects for various applications.

### **After Sales Support**

Blue Star provides after sales service through offices spread across 32 cities. There is a network of well trained dealers across the country to take care of all our customers' service needs. With well-networked and well-trained service personnel able to reach customer locations within very short notice periods, we ensure that our customers can enjoy air conditioning with the most minimal interruption.



Air Cooled Ducted Split Air Conditioners - R1/R2 Series

| DESCRIPTION              | UNITS          | DSA361R1/R2  | DSA661R1/R2                | DSA1021R1/R2     | DSA1052R1/R2     | DSA1322R1/R2     | DSA1321R1/R2     | DSA1982R1/R2                        | DSA2642R1/R2      |
|--------------------------|----------------|--|----------------------------|------------------|------------------|------------------|------------------|-------------------------------------|-------------------|
| Nominal Cooling Capacity | TR             | 3.0  | 5.5                        | 8.5              | 8.75             | 11.0             | 11.0             | 16.5                                | 22.0              |
|                          | Btu/Hr         | 36,000   | 66,000                     | 1,02,000         | 1,05,000         | 1,32,000         | 1,32,000         | 1,98,000                            | 2,64,000          |
|                          | Kcal/Hr        | 9,072  | 16,632                     | 25,704           | 26,460           | 33,264           | 33,264           | 49,900                              | 66,528            |
| Refrigerant              |                | R1 Series: R 22 ; R2 Series: R 407C                    |                            |                  |                  |                  |                  |                                     |                   |
| Power Supply             |                | 380/420 V, 3 PH., 50HZ, AC                             |                            |                  |                  |                  |                  |                                     |                   |
| External Finish          |                | Pure Polyester Powder Coated GI Steel Housing          |                            |                  |                  |                  |                  |                                     |                   |
| Indoor Unit              |                |  |                            |                  |                  |                  |                  |                                     |                   |
| Dimensions               | W X D X H (mm) | 950 X 575 X 380  | 1175 X 635 X 460           | 1500 X 635 X 460 | 1500 X 635 X 460 | 1860 X 635 X 460 | 1860 X 635 X 460 | 2035 X 1085 X 550                   | 2135 X 1215 X 690 |
| Power Supply             |                | 380/420 V, 3 PH., 50HZ, AC Supply                      |                            |                  |                  |                  |                  |                                     |                   |
| Type of Blower           |                | Centrifugal Forward Curved, Double Inlet, Double Width |                            |                  |                  |                  |                  |                                     |                   |
| Nominal Air Flow         | CMH            | 2040   | 3740                       | 5780             | 5950             | 7480             | 7480             | 11560                               | 14940             |
|                          | CFM            | 1200   | 2200                       | 3400             | 3500             | 4400             | 4400             | 6600                                | 8800              |
| Capacity Control         |                | 0,100%   | 0,100%                     | 0,100%           | 0,50%,100%       | 0,50%,100%       | 0,100%           | 0,33%, 66%, 100%                    | 0,50%,100%        |
| Air filter               |                | Non Woven Polyester Media Enclosed by HDPE Mesh        |                            |                  |                  |                  |                  |                                     |                   |
| Controller               |                | Microprocessor based with LCD Display                  |                            |                  |                  |                  |                  |                                     |                   |
| Outdoor Unit             |                |  |                            |                  |                  |                  |                  |                                     |                   |
| No of ODUs               | per Unit       | 1  | 1                          | 1                | 1                | 2                | 1                | 2                                   | 2                 |
| Compressor type          |                | Recip  | Hermetically Sealed Scroll |                  |                  |                  |                  |                                     |                   |
| No of compressors/ ODU   |                | 1  | 1                          | 1                | 2                | 1                | 1                | 1                                   | 1                 |
| Dimensions               | W X D X H (mm) | 1020 X 420 X 690                                       | 1020 X 420 X 950           | 1190 X 550 X 950 | 1435 X 635 X 950 | 1020 X 420 X 935 | 1435 X 625 X 950 | 1020 X 416 X 950 / 1435 X 635 X 950 | 1435 X 635 X 950  |
| Power Supply             |                | 415V, Three Phase, 50 Hz, AC Supply                    |                            |                  |                  |                  |                  |                                     |                   |
| Condenser Type           |                | Air-Cooled FTHX Type                                   |                            |                  |                  |                  |                  |                                     |                   |
| Condenser Fan Type       |                | Propeller Type   |                            |                  |                  |                  |                  |                                     |                   |
| Indoor Unit Weight       | kg.            | 50   | 55                         | 85               | 85               | 105              | 105              | 150                                 | 210               |
| Outdoor Unit weight      | kg/ODU         | 80   | 90                         | 160              | 170              | 90               | 190              | 90 Kg+90 Kg                         | 190               |

Air Cooled Packaged Air Conditioners - R1/R2 Series

| DESCRIPTION              | UNITS          | DPA661R1/R2  | DPA1052R1/R2      | DPA1322R1/R2      | DPA1321R1/R2      | DPA1983R1/R2      | DPA2642R1/R2      |
|--------------------------|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nominal Cooling Capacity | TR             | 5.5  | 8.75              | 11.0              | 11.0              | 16.5              | 22.0              |
|                          | Btu/Hr         | 66,000   | 1,05,000          | 1,32,000          | 1,32,000          | 1,98,000          | 2,64,000          |
|                          | Kcal/Hr        | 16,632   | 26,460            | 33,264            | 33,264            | 49,896            | 66,528            |
| Refrigerant              |                | R1 Series: R 22 ; R2 Series: R 407C                    |                   |                   |                   |                   |                   |
| Power Supply             |                | 380/420 V , 3 PH. , 50HZ , AC Supply                   |                   |                   |                   |                   |                   |
| External Finish          |                | Pure Polyester Powder Coated GI Steel Housing          |                   |                   |                   |                   |                   |
| Indoor Unit              |                |  |                   |                   |                   |                   |                   |
| Dimensions               | W X D X H (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 1750 | 1500 X 930 X 1950 |
| Type of Blower           |                | Centrifugal Forward Curved, Double Inlet, Double Width |                   |                   |                   |                   |                   |
| Nominal Air Flow         | CMH            | 3740   | 5950              | 7475              | 7475              | 11210             | 14950             |
|                          | CFM            | 2200   | 3500              | 4400              | 4400              | 6600              | 8800              |
| Power Supply             |                | 415V, Three Phase, 50 Hz, AC Supply                    |                   |                   |                   |                   |                   |
| External Finish          |                | Pure Polyester Powder Coated GI Steel Housing          |                   |                   |                   |                   |                   |
| Compressor type          |                | Hermetically Sealed Scroll                             |                   |                   |                   |                   |                   |
| No of compressors Unit   |                | 1  | 2                 | 2                 | 1                 | 3                 | 2                 |
| Capacity Control         |                | 0, 100%  | 0, 50%, 100%      | 0, 50%, 100%      | 0, 100%           | 0, 33%, 66%, 100% | 0, 50%, 100%      |
| Air filter               |                | Non Woven Polyester Midea Enclosed by HDPE Mesh        |                   |                   |                   |                   |                   |
| Controller               |                | Microprocessor based with LCD Display                  |                   |                   |                   |                   |                   |
| Outdoor Unit             |                |  |                   |                   |                   |                   |                   |
| No of ODUs               | per Unit       | 1  | 2                 | 2                 | 1                 | 3                 | 2                 |
| Dimensions               | W X D X H (mm) | 1020 X 420 X 950                                       | 1020 X 420 X 950  | 1020 X 420 X 950  | 1435 X 635 X 950  | 1020 X 420 X 950  | 1435 X 635 X 950  |
| Power Supply             |                | 230V, Single Phase, 50 Hz, AC Supply                   |                   |                   |                   |                   |                   |
| Condenser Type           |                | Air-Cooled FTHX type                                   |                   |                   |                   |                   |                   |
| Condenser Fan            | Type           | Propeller type   |                   |                   |                   |                   |                   |
| Indoor Unit Weight       | kg.            | 195  | 250               | 270               | 260               | 430               | 500               |
| Outdoor Unit weight      | kg/ODU         | 50   | 50                | 50                | 130               | 50                | 130               |

Air Cooled Ducted Split Air Conditioners - R3 Series

| DESCRIPTION              | UNITS    | DSA522R3   | DSA661R3                          | DSA1021R3    | DSA1321R3    | DSA1982R3                   | DSA2642R3                   |
|--------------------------|----------|--|-----------------------------------|--------------|--------------|-----------------------------|-----------------------------|
| Nominal Cooling Capacity | TR       | 4.3  | 5.5                               | 8.5          | 11           | 16.5                        | 22                          |
|                          | Btu/Hr   | 51000  | 66000                             | 102000       | 132000       | 198000                      | 264000                      |
|                          | K.Cal/Hr | 13000  | 16630                             | 25704        | 33264        | 49900                       | 66528                       |
| Refrigerant              |          | R 410A   |                                   |              |              |                             |                             |
| Power supply             | V/Ph/Hz  | 230V,Single Ph, 50Hz AC                                | 380/ 420 V, 3 ph, 50Hz, AC Supply |              |              |                             |                             |
| External Finish          |          | Pure Polyester Powder Coated GI Steel Housing          |                                   |              |              |                             |                             |
| Indoor Unit              |          |  |                                   |              |              |                             |                             |
| Dimensions (WXDXH)       | mm       | 1245X730X310   | 1140X630X 485                     | 1840X630X485 | 1840X630X485 | 2035X1085X555               | 2115X1005X865               |
| Power supply             | V/Ph/Hz  | 230V,Single Ph, 50Hz AC                                |                                   |              |              |                             |                             |
| Type of Blower           |          | Centrifugal Forward Curved, Double Inlet, Double Width |                                   |              |              |                             |                             |
| Nominal Air Flow         | CMH      | 2700   | 3740                              | 5780         | 7480         | 11560                       | 14960                       |
|                          | CFM      | 1600   | 2200                              | 3400         | 4400         | 6600                        | 8800                        |
| Air Filter               |          | Non Woven Polyester Media Enclosed by HDPE Mesh        |                                   |              |              |                             |                             |
| Controller               |          | Microprocessor based with LCD Display                  |                                   |              |              |                             |                             |
| Net Weight               | kg.      | 56   | 55                                | 90           | 90           | 150                         | 210                         |
| Outdoor Unit             |          |  |                                   |              |              |                             |                             |
| Quantity per unit        | No.      | 1  | 1                                 | 1            | 1            | 2                           | 2                           |
| Compressor Type          |          | Rotary Type  | Hermetically Sealed Scroll Type   |              |              |                             |                             |
| No. of Compressor/ODU    |          | 2  | 1                                 | 1            | 1            | 1                           | 1                           |
| Dimensions (WXDXH)       | mm       | 1020X420X935   | 1020X420X935                      | 1230X550X950 | 1435X635X950 | 1435X635X950 + 1020X420X935 | 1435X635X950 + 1435X635X950 |
| Power Supply             | V/Ph/Hz  | 230V,Single Ph, 50Hz AC                                | 380/ 420 V, 3 ph, 50Hz, AC Supply |              |              |                             |                             |
| Condenser Type           |          | Air Cooled FTHX  |                                   |              |              |                             |                             |
| Condenser Fan Type       |          | Propeller Type   |                                   |              |              |                             |                             |
| Net Weight               | kg       | 90   | 55                                | 75           | 90           | 90+55                       | 90+90                       |

Specifications are subject to change due to regular product upgradation.

Air Cooled Packaged Air Conditioners - R3 Series

| DESCRIPTION              | UNITS          | DPA721 R3  | DPA1081 R3       | DPA1441 R3        | DPA1442 R3        | DPA2163 R3                          | DPA2882 R3        |
|--------------------------|----------------|--|------------------|-------------------|-------------------|-------------------------------------|-------------------|
| Nominal Cooling Capacity | TR             | 6.0  | 9.00             | 12.0              | 12.0              | 18.0                                | 24.0              |
|                          | Btu/Hr         | 72,000   | 1,08,000         | 1,44,000          | 1,44,000          | 2,16,000                            | 2,88,000          |
|                          | Kcal/Hr        | 18,144   | 27,216           | 36,288            | 36,288            | 54,432                              | 72,576            |
| Refrigerant              |                | R 410A   |                  |                   |                   |                                     |                   |
| Power Supply             |                | 380/420 V, 3 PH. , 50HZ, AC Supply                     |                  |                   |                   |                                     |                   |
| External Finish          |                | Pure Polyester Powder coated GI Steel Housing          |                  |                   |                   |                                     |                   |
| Indoor Unit              |                |  |                  |                   |                   |                                     |                   |
| Dimensions               | W X D X H (mm) | 930 X 660 X 1700                                       | 930 X 660 X 1700 | 1260 X 760 X 1700 | 1260 X 760 X 1700 | 1500 X 835 X 1830                   | 1500 X 930 X 1950 |
| Type of Blower           |                | Centrifugal Forward curved, Double Inlet, Double Width |                  |                   |                   |                                     |                   |
| Nominal Air Flow         | CMH            | 4080   | 6120             | 8155              | 8155              | 12230                               | 16310             |
|                          | CFM            | 2400   | 3600             | 4800              | 4800              | 7200                                | 9600              |
| Power Supply             |                | 415V, Three Phase, 50 Hz, AC Supply                    |                  |                   |                   |                                     |                   |
| Compressor type          |                | Hermetically Sealed Scroll                             |                  |                   |                   |                                     |                   |
| No of compressors/ Unit  |                | 1  | 1                | 1                 | 2                 | 3                                   | 2                 |
| Compressor configuration |                | Solo   | Solo             | Solo              | Tandem            | Tandem+Solo                         | Tandem            |
| No of Circuits           |                | 1  | 1                | 1                 | 1                 | 2                                   | 1                 |
| Capacity Control         |                | 0, 100%  | 0, 100%          | 0, 100%           | 0, 50%, 100%      | 0, 33%, 66%, 100%                   | 0, 50%, 100%      |
| Air filter               |                | Non Woven Polyester Media Enclosed by HDPE Mesh        |                  |                   |                   |                                     |                   |
| Controller               |                | Microprocessor based with LCD Display                  |                  |                   |                   |                                     |                   |
| Outdoor Unit             |                |  |                  |                   |                   |                                     |                   |
| No of ODUs               | per Unit       | 1  | 1                | 1                 | 1                 | 2 (1 X 12TR + 1 X 6TR)              | 2                 |
| Dimensions               | W X D X H (mm) | 1020 X 420 X 950                                       | 1190 X 550 X 950 | 1435 X 625 X 950  | 1435 X 625 X 950  | 1435 X 625 X 950 + 1020 X 420 X 950 | 1435 X 625 X 950  |
| Power Supply             |                | 230V, Single Phase, 50 Hz, AC Supply                   |                  |                   |                   |                                     |                   |
| Condenser Type           |                | Air-cooled FTHX type                                   |                  |                   |                   |                                     |                   |
| Condenser Fan            | Type           | Propeller type   |                  |                   |                   |                                     |                   |
| Indoor Unit Weight       | kg.            | 200  | 250              | 300               | 300               | 500                                 | 580               |
| Outdoor Unit weight      | kg/ODU         | 50   | 80               | 92                | 92                | 92+ 50                              | 92                |

## Water Cooled Ducted Split Air Conditioners - R1/R2 Series

| DESCRIPTION                    | UNITS          | DSW361R1/R2  | DSW661R1/R2                | DSW1052R1/R2     | DSW1322R1/R2     |
|--------------------------------|----------------|--|----------------------------|------------------|------------------|
| Nominal Cooling Capacity       | TR             | 3.0  | 5.5                        | 8.75             | 11.0             |
|                                | Btu/Hr         | 36,000   | 66,000                     | 1,05,000         | 1,32,000         |
|                                | Kcal/Hr        | 9,072  | 16,632                     | 26,460           | 33,264           |
| Refrigerant                    |                | R1 Series: R 22 ; R2 Series: R 407C                    |                            |                  |                  |
| Power Supply                   |                | 380/420V, 3PH,50HZ,AC SUPPLY                           |                            |                  |                  |
| External Finish                |                | Pure Polyester Powder Coated GI Steel Housing          |                            |                  |                  |
| Indoor Unit                    |                |  |                            |                  |                  |
| Dimensions                     | W X D X H (mm) | 950 X 575 X 380  | 1175 X 635 X 460           | 1500 X 635 X 460 | 1860 X 635 X 460 |
| Type of Blower                 |                | Centrifugal Forward curved, Double Inlet, Double Width |                            |                  |                  |
| Nominal Air Flow               | CMH            | 2040   | 3740                       | 5950             | 7480             |
|                                | CFM            | 1200   | 2200                       | 3500             | 4400             |
| Power Supply                   |                | 230V, 1 Ph, 50 Hz, ac supply                           |                            |                  |                  |
| Capacity Control               |                | 0, 100%  | 0, 100%                    | 0, 50%, 100%     | 0, 50%, 100%     |
| Air filter                     |                | Non Woven Polyester Media Enclosed by HDPE Mesh        |                            |                  |                  |
| Controller                     |                | Microprocessor based with LCD display                  |                            |                  |                  |
| Condensing Unit                |                |  |                            |                  |                  |
| No of cds. units               | per Unit       | 1  | 1                          | 1                | 1                |
| Compressor type                |                | Recip  | Hermetically Sealed Scroll |                  |                  |
| No of compressors/ unit        |                | 1  | 1                          | 2                | 2                |
| Dimensions                     | W X D X H (mm) | 800 X 655 X 545  | 800 X 655 X 545            | 1170 X 640 X 630 | 1170 X 640 X 630 |
| Power Supply                   |                | 415V, Three Phase, 50 Hz, AC Supply                    |                            |                  |                  |
| Condenser Type                 |                | Water-Cooled, Shell & Tube Type                        |                            |                  |                  |
| Cooling water required at 32°C | USGPM          | 11   | 20                         | 31               | 40               |
|                                | CMH            | 2.5  | 4.5                        | 7                | 9.1              |
| Indoor Unit Weight             | kg.            | 50   | 55                         | 85               | 105              |
| Outdoor Unit weight            | kg/ODU         | 130  | 156                        | 215              | 215              |

R1 - With R22 refrigerant, R2 - With R407C refrigerant

## Water Cooled Packaged Air Conditioners - R1/R2 Series

| DESCRIPTION                    | UNITS          | DPW661R1/R2  | DPW1322R1/R2      | DPW1983R1/R2      |
|--------------------------------|----------------|--|-------------------|-------------------|
| Nominal Cooling Capacity       | TR             | 5.5  | 11.00             | 16.5              |
|                                | Btu/Hr         | 66,000   | 1,32,000          | 1,98,000          |
|                                | Kcal/Hr        | 16,632   | 33,264            | 49,896            |
| Refrigerant                    |                | R1 Series: R 22 ; R2 Series: R 407C                    |                   |                   |
|                                |                |  |                   |                   |
| Dimensions                     | W X D X H (mm) | 900 X 660 X 1700                                       | 1160 X 660 X 1700 | 1500 X 750 X 1800 |
| Type of Blower                 |                | Centrifugal Forward Curved, Double Inlet, Double Width |                   |                   |
| Nominal Air Flow               | CMH            | 3740   | 7475              | 11210             |
|                                | CFM            | 2200   | 4400              | 6600              |
| Cooling Coil                   |                | Inner Grooved Copper Tubes with Al Slit Fins           |                   |                   |
| Power Supply                   |                | 380/420V, Three Phase, 50 Hz, AC Supply                |                   |                   |
| External Finish                |                | Pure Polyester Powder coated GI steel housing          |                   |                   |
| Capacity Control               |                | 0, 100%  | 0, 50%, 100%      | 0, 33%, 66%, 100% |
| Air filter                     |                | Non Woven Polyester Media Enclosed by HDPE Mesh        |                   |                   |
| Controller                     |                | Microprocessor based with LCD Display                  |                   |                   |
|                                |                |  |                   |                   |
| Compressor type                |                | Hermetically Sealed Scroll                             |                   |                   |
| No of compressors/Unit         |                | 1  | 2                 | 3                 |
| Condenser                      | Type           | Shell & Tube Type                                      |                   |                   |
| Cooling water required at 32°C | USGPM          | 20   | 40                | 60                |
|                                | CMH            | 4.5  | 9.1               | 13.6              |
| Unit Weight                    | kg.            | 240  | 405               | 605               |



## Water Cooled Mini Series - Condensing Units

| DESCRIPTION                         | UNITS                                     | DSW121R3-O      | DSW181R3-O      | DSW241R3-O      | DSW301R3-O      |
|-------------------------------------|---|-----------------|-----------------|-----------------|-----------------|
| 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              |
| Electrical Power Supply             | 230V, Single Phase, 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 Flow Required at 32°C | US GPM                                    | 3               | 4.5             | 6               | 7.5             |
| Suction                             | mm(inch)                                  | 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                            | No.                                       | 1               | 1               | 1               | 1               |
| Type                                | Hermetically Sealed Rotary                |                 |                 |                 |                 |

## Mini Series Indoor Unit - Concealed Type

| DESCRIPTION                  | UNITS   | DSW121R3-I       | DSW181R3-I       | DSW241R3-I       | DSW301R3-I       |
|------------------------------|---|------------------|------------------|------------------|------------------|
| Capacity                     | TR  | 1                | 1.5              | 2                | 2.5              |
|                              | Btu/Hr  | 12000            | 18000            | 24000            | 30000            |
| Dimensions W x H x D         | mm  | 1115 X 270 X 515 | 1115 X 270 X 515 | 1115 X 270 X 515 | 1055 X 310 X 705 |
| Net Weight                   | kg  | 29.00            | 30.00            | 30.00            | 31.00            |
| Sound Level                  | dBA   | 44               | 44               | 45               | 46               |
| Type of Blower               | DIDW Centrifugal Type                           |                  |                  |                  |                  |
| Airflow                      | CFM   | 350              | 550              | 700              | 875              |
| External Static Pressure     | Pa  | 10               | 15               | 20               | 25               |
| 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)       |
| Electrical Power Supply      | 230V, Single Phase, 50Hz, AC Power Supply       |                  |                  |                  |                  |
| Rated Current                | A   | 0.33             | 0.33             | 0.64             | 0.64             |
| Fan Motor Output Power       | Watts   | 62               | 62               | 150              | 150              |
| Quantity                     | No.   | 1                | 1                | 1                | 1                |
| Air Filter                   | Non-woven Polyester Media enclosed by HDPE Mesh |                  |                  |                  |                  |
| Controller                   | Micro Processor based with LCD display          |                  |                  |                  |                  |

## Mini Series Indoor Unit - Hi-wall

| DESCRIPTION                  | UNITS     | B1-3HW12LBTU                              | B1-3HW18LBTU    | B1-3HW24LBTU     |
|------------------------------|-----------|---|-----------------|------------------|
| Capacity                     | TR        | 1   | 1.5             | 2                |
|                              | Btu/Hr    | 12000                                     | 18000           | 24000            |
| Dimensions W x H x D         | (mm)      | 845 X 290 X 210                           | 970 X 300 X 225 | 1080 X 325 X 250 |
| Net Weight                   | kg        | 10.00                                     | 13.50           | 17.00            |
| Airflow                      | CFM       | 370                                       | 530             | 650              |
| Sound Level                  | dBA       | 33  | 37              | 38               |
| Refrigerant Pipe Connections |           |   |                 |                  |
| Liquid- Dia                  | mm (Inch) | 6.35 (1/4)                                | 6.35 (1/4)      | 6.35 (1/4)       |
| Suction - Dia                | mm (Inch) | 12.7 (1/2)                                | 12.7 (1/2)      | 15.9 (5/8)       |
| Electrical Power Supply      |           | 230V, Single Phase, 50Hz, AC Power Supply |                 |                  |
| Fan Motor Input Power        | Watts     | 55  | 70              | 95               |
| Rated Current                | A         | 0.4                                       | 0.5             | 0.55             |

\* Recommended Model. Actual model no. may be different due to regular product upgradation

## Mini Series Indoor Unit - Cassette Type

| DESCRIPTION                  | UNITS     | BS-3SD18YATU                              | BS-1SD24YATU    | BS-SD36SAU      |
|------------------------------|-----------|---|-----------------|-----------------|
| Capacity                     | TR        | 1.5                                       | 2               | 2.5             |
|                              | Btu/Hr    | 18000                                     | 24000           | 30000           |
| Dimensions - Body            | mm        | 840 X 840 X 240                           | 840 X 840 X 240 | 840 X 840 X 290 |
| Dimensions - Panel           | mm        | 952 X 952 X 60                            |                 |                 |
| Net Weight - Body            | kg        | 28.00                                     | 29.00           | 33.00           |
| Net Weight - Panel           | kg        | 7.00                                      | 7.00            | 7.00            |
| Airflow                      | CFM       | 700                                       | 780             | 1020            |
| Sound Level                  | dBA       | 34  | 41              | 48              |
| Refrigerant Pipe Connections |           |   |                 |                 |
| Liquid- Dia                  | mm (Inch) | 6.35 (1/4)                                | 9.5 (3/8)       | 9.5 (3/8)       |
| Suction - Dia                | mm (Inch) | 12.7 (1/2)                                | 15.9 (5/8)      | 15.9 (5/8)      |
| Electrical Power Supply      |           | 230V, Single Phase, 50Hz, AC Power Supply |                 |                 |
| Fan Motor Input Power        | Watts     | 58  | 74              | 74              |
| Rated Current                | A         | 0.4                                       | 0.6             | 0.6             |
| Drain Pump Motor Power       | Watts     | 12  | 12              | 12              |

\* Recommended Model. Actual model no. may be different due to regular product upgradation. Sound Level values are based on the measurement taken in a semi anechoic chamber. Actual values may vary depending on the external noise disturbances.









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