



**TRANE®**



# BDHA

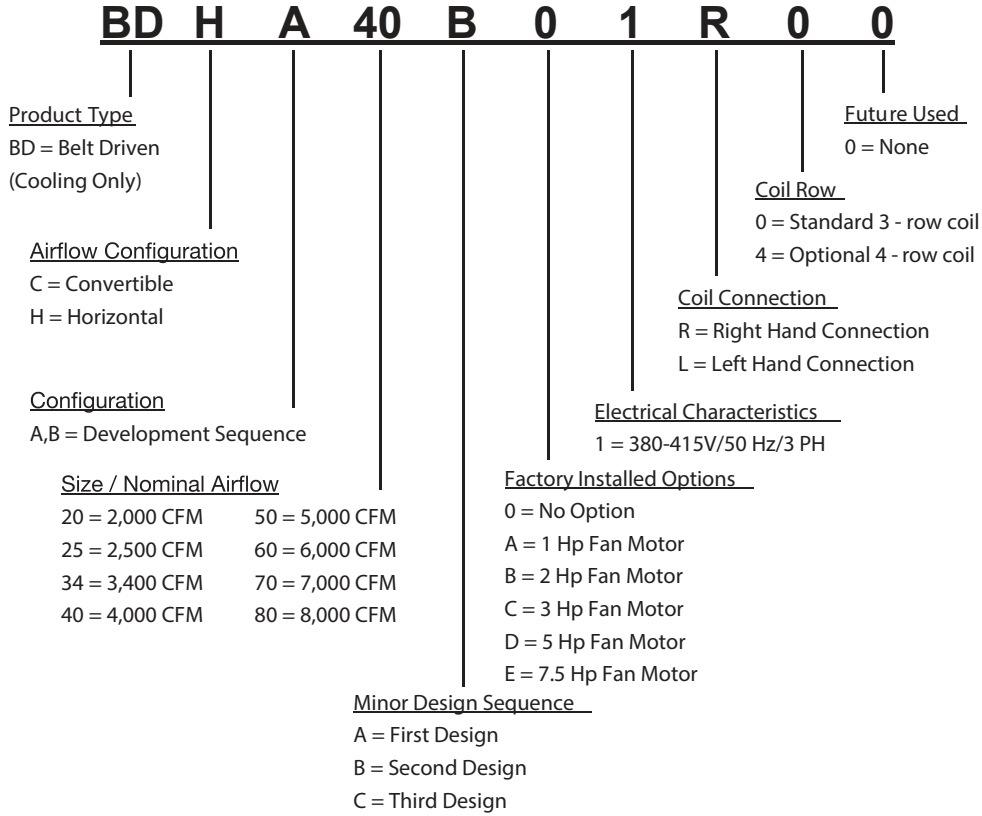
*Chilled Water*

*Air Handling Units*

*2,000 - 8,000 CFM 50 Hz*



# Model Nomenclature



## General Data

### Product Specification

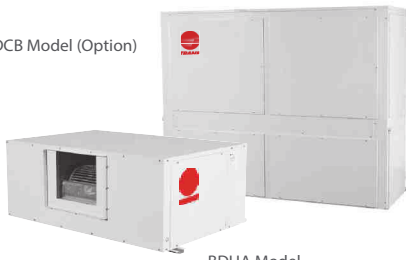
| MODEL                        |     | BDHA20  | BDHA25            | BDHA34            | BDHA40            | BDHA50              | BDHA60              | BDHA70              | BDHA80              |
|------------------------------|-----|---|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
| Rated - Volts/Ph/Hz          |     | 380-415/3/50                                  | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50        | 380-415/3/50        | 380-415/3/50        | 380-415/3/50        |
| <b>SYSTEM DATA</b>           |     |   |                   |                   |                   |                     |                     |                     |                     |
| Nominal Airflow              | CFM | 2,000   | 2,500             | 3,400             | 4,000             | 5,000               | 6,000               | 7,000               | 8,000               |
| Nominal Capacity             | MBH | 60  | 75                | 100               | 120               | 160                 | 180                 | 210                 | 240                 |
| Water Inlet Connection Size  | in  | 1 1/4   | 1 1/4             | 1 1/4             | 1 1/2             | 2                   | 2                   | 2                   | 2                   |
| Water Outlet Connection Size | in  | 1 1/4   | 1 1/4             | 1 1/4             | 1 1/2             | 2                   | 2                   | 2                   | 2                   |
| Water Connection Type        |     | Steel Pipe - MPT                              |                   |                   |                   |                     |                     |                     |                     |
| <b>COIL</b>                  |     |   |                   |                   |                   |                     |                     |                     |                     |
| Fin Type                     |     | Slit Uncoated                                 | Slit Uncoated     | Slit Uncoated     | Slit Uncoated     | Slit Uncoated       | Slit Uncoated       | Slit Uncoated       | Slit Uncoated       |
| Fins per inch*               |     |   |                   |                   |                   |                     |                     |                     |                     |
| 3-Row coil                   |     | 14  | 14                | 14                | 14                | 14                  | 14                  | 14                  | 14                  |
| 4-Row coil                   |     | 12  | 13                | 14                | 13                | 14                  | 14                  | 14                  | 14                  |
| Drain Connection Size        | in  | 1   | 1                 | 1                 | 1                 | 1                   | 1                   | 1                   | 1                   |
| <b>FAN</b>                   |     |   |                   |                   |                   |                     |                     |                     |                     |
| Fan Type                     |     | Double Inlet Centrifugal Forward Curved Wheel |                   |                   |                   |                     |                     |                     |                     |
| Dai. x Width                 |     | 10 x 10                                       | 10 x 10           | 10 x 8            | 10 x 10           | 12 x 12             | 12 x 12             | 15 x 15             | 15 x 15             |
| Qty                          |     | 1   | 1                 | 2                 | 2                 | 2                   | 2                   | 2                   | 2                   |
| Drive Type                   |     | Adjustable Belt Drive                         |                   |                   |                   |                     |                     |                     |                     |
| <b>STANDARD FAN MOTOR</b>    |     |   |                   |                   |                   |                     |                     |                     |                     |
| Qty of Motor                 |     | 1   | 1                 | 1                 | 1                 | 1                   | 1                   | 1                   | 1                   |
| Motor Output Power           | hp  | 3/4   | 1                 | 2                 | 2                 | 2                   | 2                   | 2                   | 3                   |
| No. of Speed                 |     | 1   | 1                 | 1                 | 1                 | 1                   | 1                   | 1                   | 1                   |
| V/ph/Hz                      |     | 380-415/3/50                                  | 380-415/3/50      | 380-415/3/50      | 380-415/3/50      | 380-415/3/50        | 380-415/3/50        | 380-415/3/50        | 380-415/3/50        |
| RLA                          |     | 1.61  | 1.99              | 3.66              | 3.66              | 3.66                | 3.66                | 3.66                | 5.08                |
| <b>RETURN FILTER</b>         |     |   |                   |                   |                   |                     |                     |                     |                     |
| Filter Type                  |     | Washable Air Filter                           |                   |                   |                   |                     |                     |                     |                     |
| <b>DIMENSION (HxWxD)</b>     |     |   |                   |                   |                   |                     |                     |                     |                     |
| Packing (Shipping)           | mm  | 673 x 1,410 x 970                             | 673 x 1,410 x 970 | 673 x 1,778 x 970 | 772 x 1,778 x 970 | 920 x 2,152 x 994   | 920 x 2,152 x 994   | 980 x 2,470 x 1,325 | 980 x 2,470 x 1,325 |
| Unit (Net)                   | mm  | 520 x 1,406 x 916                             | 520 x 1,406 x 916 | 520 x 1,774 x 916 | 620 x 1,774 x 916 | 798 x 2,059 x 1,260 | 798 x 2,059 x 1,260 | 850 x 2,366 x 1,320 | 850 x 2,366 x 1,320 |
| <b>WEIGHT</b>                |     |   |                   |                   |                   |                     |                     |                     |                     |
| Unit (Net) 3-Row Coil        | kg  | 90  | 92                | 139               | 141               | 181                 | 190                 | 214                 | 240                 |
| Unit (Net) 4-Row Coil        | kg  | 92  | 96                | 145               | 148               | 191                 | 201                 | 226                 | 235                 |

\*Note : 1. 3-Row coil is standard coil  
2. 4-Row coil is optional coil



# Features and Benefits

BDCB Model (Option)



BDHA Model



Proportional Thermostat (Option)



PICV Valve (Option)



Trane Control Valve (Option)



AHU Starter Panel (Option)

## Flexibility

Wide performance range availability with 4-row coil option helps increase application variety. Compact size unit allows it to be properly fit in the field.

BDHA unit is the general model for horizontal airflow application and BDCB unit is the optional model for BDHA40-80 vertical airflow application.

## Low Installation Cost

The unit shipped from factory with necessary accessories for operation make it inexpensive to install.

## General

Air handler units shall be completely factory assembled including coil, condensate drain pan, fan motor(s), filters in an insulated casing dedicated for horizontal application of BDHA model. Unit shall be rated in accordance with ARI Standard 210.

## Unit casing

Units casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized and finished with a polyester powder painted and weather resistant baked enamel finish. Casing is completely insulated with fire-retardant, permanent, odorless Polyethylene foam.

## Fans

Fans are double width, double inlet, multiblade centrifugal type. All fans statically and dynamically balanced and tested after being installed on properly sized hollow or solid shafts. Fan shafts do not pass through their first critical speed as unit comes up to rated rpm.

Fan housings constructed with deformed, streamlined inlets and side sheets. Fan bearings are grease lubricated ball bearings selected for 200,000 hours average life.

## Coils

Configured aluminium fin surface shall be mechanically bonded to internally enhanced copper tube and factory pressure and leak tested at 380 psig. Coil is arranged for draw through airflow and shall provide polyester powder painted drain pan constructed of galvanized steel with rubber insulator for BDHA.

## Filter

1-inch, washable aluminium filter shall be standard on air handlers. Filters shall be accessible from the side coil panel.

## Fan Motor

Motor bearings shall be permanently lubricated. oversized motor shall be available as an option for high static application.

## Accessories Oversized Motor

Field installed oversized motors shall be available for high static pressure applications.

## Discharge Plenum

Accessory discharge plenum shall be available for free blow.

## Option

### Trane Proportional Thermostat

monitors the adjustable control valve by 0-10 Vdc signal, 5 °C - 34 °C temperature setting and connectable with external sensor.

### “PICV” Pressure Independent Control Valve (Option-5 Years Warranty)

combines a differential pressure regulator with a 2-way control valve which supplies a specific constant flow for each degree of valve opening regardless of pressure variation in the system. Recommend to use with Trane Thermostat for precise temperature control.

### Trane Control Valve

controls the opening and closing of the pipe in the HVAC system for room temperature monitor. Recommend to use with Trane Thermostat for precise temperature control.

\*Control valve option cannot be factory installed inside unit. It will be provided separately.

### Trane AHU Starter Panel

particularly controls the HVAC system. Integrated with motor and compressor protection system, reliable according to UL/IEC/NEMA standard and easy to install.



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CFH-DS-1T March 25, 2019

