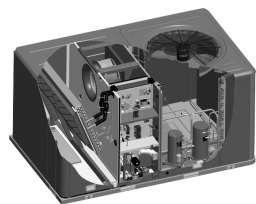


Quick Reference Guide  
**Precedent™ - Dual Fuel**  
 3 to 10 Tons Packaged Heat  
 Pumps



**Model Number:** DHC  
**Used With:** Duel Fuel Heat Pumps

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**Revision History**

Updated the Standard efficiency, 3 to 10 tons packaged rooftop performance data (heat pump) table.

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**Table 1. List of factory installed options<sup>(a)</sup>**

|   |  |
|---|--|
| 0-50% Motorized outside air damper                                  | Human interface - 5 inch color touchscreen     |
| Air-Fi® Wireless Communication Interface                            | LonTalk® Communication Interface (LCI)         |
| BACnet® Communication Interface (BCI-R)                             | Manual outside air damper                      |
| Barometric relief   | MERV 8 filters                                 |
| Black epoxy pre-coated condenser coil                               | MERV 13 filters                                |
| Clogged filter switch   | Multi-speed indoor fan system                  |
| Condensate overflow switch  | Multi-zone variable air volume (MZVAV)         |
| Demand control ventilation wiring                                   | Powered convenience outlet                     |
| Discharge air temperature sensing tube                              | ReliaTel™ controls                             |
| Economizer - comparative enthalpy                                   | Single zone variable air volume (SZVAV)        |
| Economizer - dry bulb   | Stainless steel drain pan                      |
| Economizer - low leak, dry bulb                                     | Stainless steel heat exchanger                 |
| Economizer - reference enthalpy                                     | Supply, return, and plenum air smoke detectors |
| Fan failure switch  | Through-the-base electric provision            |
| Frostat™  | Unit mounted circuit breaker                   |
| Fault detection & diagnostics (FDD); Meets CA Title 24 requirements | Unit mounted non-fused disconnect              |
| Hail guard  | Unpowered convenience outlet                   |
| Hinged access panels  |  |

(a) Verify option availability in product catalog.

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**Table 2. Standard efficiency, 3 to 10 tons packaged rooftop performance data (heat pump)**

| Nominal Size (Tons)                          | 3 (DHC)                          | 4 (DHC)         | 5 (DHC)                          | 6 (DHC)                           | 7.5 (DHC)                          | 8.5 (DHC)                          | 10 (DHC)                           |
|--|----------------------------------|-----------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|
| <b>Cooling Performance</b>                   |                                  |                 |                                  |                                   |                                    |                                    |                                    |
| Supply Air (cfm)                             | 1,200                            | 1,600           | 2,000                            | 2,400                             | 3,000                              | 3,400                              | 4,000                              |
| Tot / Sens Cap (MBh)                         | 36.4/28.0                        | 48.8/39.1       | 61.0/49.1                        | 78.9/ 59.5                        | 96.2/ 74.7                         | 105.9/ 83.6                        | 123.6/ 96.3                        |
| EER/SEER                                     | 3 = 12.5/15.7<br>4,W = 12.5/15.6 | 13.0/16.5       | 3 = 12.8/16.2<br>4,W = 12.8/16.0 | 12.1                              | 11.8                               | 3,4 = 12.0<br>W = 11.8             | 11.5                               |
| SEER2/EER2 <sup>(a)</sup>                    | 15.6/12.5                        | 16.1/12.5       | 16.1/12.5                        | -                                 | -                                  | -                                  | -                                  |
| IEER <sup>(b)</sup>                          | N/A                              | N/A             | N/A                              | 15.5                              | 15.5                               | 15.5                               | 15.5                               |
| <b>Gas Heating Performance<sup>(c)</sup></b> |                                  |                 |                                  |                                   |                                    |                                    |                                    |
| Low Heat (Input/output) - (Btu)              | 60,000/48,600                    | 60,000/48,600   | 60,000/48,600                    | 80,000/64,800                     | 120,000/97,200                     | 120,000/97,200                     | 150,000/121,500<br>105,000/85,050  |
| Medium Heat (Input/output) - (Btu)           | 80,000/64,800                    | 100,000/81,000  | 100,000/81,000                   | 120,000/97,200                    | 150,000/121,500<br>105,000/85,050  | 150,000/121,500<br>105,000/85,050  | 200,000/162,000<br>140,000/113,400 |
| High Heat (Input/output) - (Btu)             | 100,000/81,000                   | 130,000/105,300 | 150,000/121,500                  | 150,000/121,500<br>105,000/85,050 | 200,000/162,000<br>140,000/113,400 | 200,000/162,000<br>140,000/113,400 | 250,000/202,500<br>175,000/141,750 |
| <b>Heating Performance</b>                   |                                  |                 |                                  |                                   |                                    |                                    |                                    |
| High Temperature Btu/h Rating                | 32,200                           | 44,000          | 57,000                           | 75,000                            | 87,000                             | 93,000                             | 118,000                            |
| COP  | 3.60                             | 3.60            | 3.60                             | 3,4 = 3.50<br>W = 3.48            | 3,4 = 3.50<br>W = 3.48             | 3,4 = 3.63<br>W = 3.61             | 3,4 = 3.63<br>W = 3.61             |
| COP2   | 3.50                             | 3.60            | 3.60                             | -                                 | -                                  | -                                  | -                                  |
| Low Temperature Btu/h Rating                 | 21,400                           | 24,000          | 34,400                           | 40,000                            | 49,000                             | 57,000                             | 61,000                             |
| COP  | 2.30                             | 2.30            | 2.30                             | 2.25                              | 2.25                               | 2.25                               | 2.25                               |
| COP2   | 2.10                             | 2.30            | 2.30                             | -                                 | -                                  | -                                  | -                                  |
| HSPF   | 8.8                              | 8.8             | 8.9                              | NA                                | NA                                 | NA                                 | NA                                 |
| HSPF2 <sup>(a)</sup>                         | 8.0                              | 8.4             | 8.5                              | -                                 | -                                  | -                                  | -                                  |
| <b>Other Information</b>                     |                                  |                 |                                  |                                   |                                    |                                    |                                    |
| Net Weight (Lbs)                             | 553                              | 750             | 754                              | 892                               | 906                                | 918                                | 1294                               |
| Roof Curb                                    | BAYCURB042*                      |                 | BAYCURB043*                      |                                   | BAYCURB043*                        |                                    | BAYCURB044*                        |
| Unit Cabinet Size                            | F                                |                 | C                                |                                   | D                                  |                                    | E                                  |
| Filters <sup>(d)</sup> - Type Furnished      | Throwaway                        |                 | Throwaway                        |                                   | Throwaway                          |                                    | Throwaway                          |
| Number Size Recommended                      | (2) 20x35x2                      |                 | (4) 16x25x2                      |                                   | (4) 20x25x2                        |                                    | (3) 20x25x2, (2) 20x30x2           |

(a) COP2 and HSPF2 are rated at AHRI conditions and calculated in accordance with AHRI Standard 210/240-2023. Airflow and net capacity not shown.  
 (b) 16.0/16.5 IEER for multi-speed/SZVAV option.  
 (c) Refer to catalog for heating note. 81% steady state efficiency, two-stage gas heat standard on DHC models.  
 (d) Optional 2" MERV 8 and MERV 13 filters also available.

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**Table 3. Unit MCA and MOP electrical data (dual fuel)**

| DHC | Volts     | Standard Indoor Motor |     | Oversize Indoor Motor |     |
|-----|-----------|-----------------------|-----|-----------------------|-----|
|     |           | MCA                   | MOP | MCA                   | MOP |
| 036 | 208-230/3 | 23                    | 30  | 20                    | 30  |
|     | 460/3     | 13                    | 15  | 10                    | 15  |
|     | 575/3     | 9                     | 15  | -                     | -   |
| 048 | 208-230/3 | 29                    | 40  | 24                    | 35  |
|     | 460/3     | 14                    | 15  | 11                    | 15  |
|     | 575/3     | 10                    | 15  | -                     | -   |
| 060 | 208-230/3 | 32                    | 45  | 27                    | 40  |
|     | 460/3     | 15                    | 20  | 12                    | 15  |
|     | 575/3     | 12                    | 15  | -                     | -   |
| 074 | 208-230/3 | 42                    | 50  | -                     | -   |
|     | 460/3     | 19                    | 25  | -                     | -   |
|     | 575/3     | 21                    | 25  | -                     | -   |
| 092 | 208-230/3 | 43                    | 50  | -                     | -   |
|     | 460/3     | 20                    | 25  | -                     | -   |
|     | 575/3     | 22                    | 25  | -                     | -   |
| 102 | 208-230/3 | 46                    | 60  | -                     | -   |
|     | 460/3     | 22                    | 25  | -                     | -   |
|     | 575/3     | 23                    | 25  | -                     | -   |
| 120 | 208-230/3 | 49                    | 60  | -                     | -   |
|     | 460/3     | 24                    | 30  | -                     | -   |
|     | 575/3     | 23                    | 30  | -                     | -   |

**Table 4. Unit indoor fan data (heat pump)**

| WHC | Volts     | Standard HP - RPM | Oversize HP - RPM |
|-----|-----------|-------------------|-------------------|
| 036 | 208-230/3 | 0.75/MULT         | 1.5/MULT          |
|     | 460/3     | 0.75/MULT         | 1.5/MULT          |
|     | 575/3     | 0.75/MULT         | 1.5/MULT          |
| 048 | 208-230/3 | 1/MULT            | 1.5/MULT          |
|     | 460/3     | 1/MULT            | 1.5/MULT          |
|     | 575/3     | 1/MULT            | 1.5/MULT          |
| 060 | 208-230/3 | 1/MULT            | 1.5/MULT          |
|     | 460/3     | 1/MULT            | 1.5/MULT          |
|     | 575/3     | 1/MULT            | 1.5/MULT          |
| 074 | 208-230/3 | 2.75/MULT         | -                 |
|     | 460/3     | 2.75/MULT         | -                 |
|     | 575/3     | 2.75/MULT         | -                 |
| 092 | 208-230/3 | 2.75/MULT         | -                 |
|     | 460/3     | 2.75/MULT         | -                 |
|     | 575/3     | 2.75/MULT         | -                 |
| 102 | 208-230/3 | 2.75/MULT         | -                 |
|     | 460/3     | 2.75/MULT         | -                 |
|     | 575/3     | 2.75/MULT         | -                 |
| 120 | 208-230/3 | 2.75/MULT         | -                 |
|     | 460/3     | 2.75/MULT         | -                 |
|     | 575/3     | 2.75/MULT         | -                 |

**Table 5. Unit dimensional data**

|                                 | Cabinet Size (Digit 30) |        |          |          |
|---------------------------------|-------------------------|--------|----------|----------|
|                                 | C                       | D      | E        | F        |
| Unit Length UL                  | 88 5/8                  | 88 5/8 | 99 11/16 | 69 7/8   |
| Unit Width UW                   | 53 1/4                  | 53 1/4 | 63 3/16  | 44 1/4   |
| Unit Height UH                  | 40 7/8                  | 46 7/8 | 50 7/8   | 40 7/8   |
| Clearance C1                    | 48                      | 48     | 48       | 48       |
| Clearance C2                    | 36                      | 36     | 36       | 36       |
| Clearance C3                    | 36                      | 36     | 36       | 36       |
| Clearance C4                    | 36                      | 36     | 36       | 36       |
| Clearance C5                    | 72                      | 72     | 72       | 72       |
| Curb Length CL                  | 84 1/2                  | 84 1/2 | 84 1/2   | 65 13/16 |
| Curb Width CW                   | 50 3/8                  | 50 3/8 | 60 3/8   | 41 7/16  |
| Supply Length SL <sup>(a)</sup> | 18 1/2                  | 18 1/2 | 18 1/2   | 16 3/4   |
| Supply Width SW <sup>(a)</sup>  | 34 3/8                  | 34 3/8 | 34 3/8   | 17 7/8   |
| Return Length RL <sup>(a)</sup> | 18 1/4                  | 18 1/4 | 18 1/4   | 14 9/16  |
| Return Width RW <sup>(a)</sup>  | 34 3/8                  | 34 3/8 | 34 3/8   | 25 3/16  |

(a) Dimensions are for roof curb openings and not duct inserts. Reference the product catalog for duct insert dimensions.

