



DP13HM COMMERCIAL

Cooling Capacity: 34,000 - 57,500 BTU/h
Heating Capacity: 33,800 - 57,000 BTU/h

3, 4, & 5-TON THREE-PHASE
PACKAGED HEAT PUMPS
13 SEER

■ Contents

| | |
|-------------------------------|----|
| Nomenclature..... | 2 |
| Product Specifications..... | 3 |
| Expanded Cooling Data..... | 4 |
| Expanded Heating Data..... | 10 |
| Heat Kit Electrical Data..... | 11 |
| Airflow Data..... | 12 |
| Dimensions..... | 13 |
| Wiring Diagram..... | 14 |
| Accessories..... | 15 |



■ Standard Features

- Energy-efficient compressor with internal relief valve
- Fully charged with R-410A chlorine-free refrigerant
- EEM blower motor
- Convertible airflow: horizontal or downflow
- Copper tube / aluminum fin condenser coil
- All-aluminum evaporator coils
- Totally enclosed, permanently lubricated condenser fan motor
- Electric heat kit available as a field-installed accessory
- AHRI Certified; ETL Listed

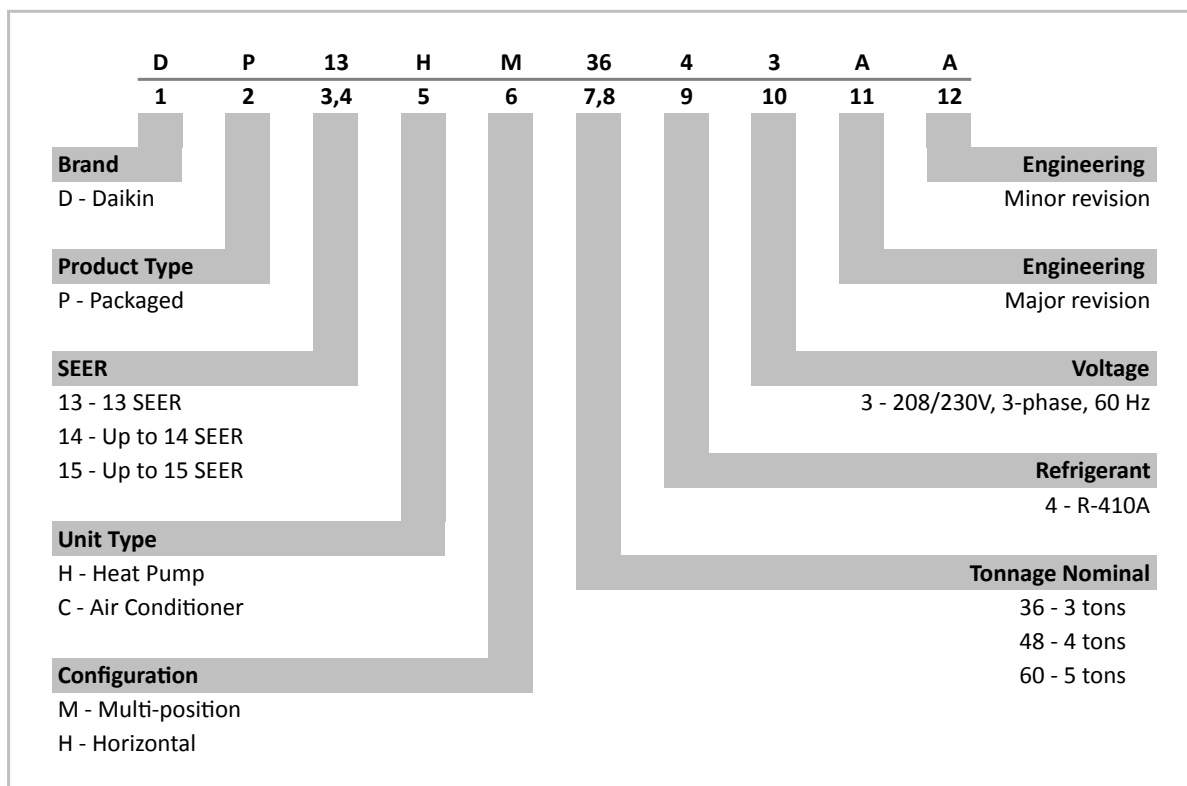
■ Cabinet Features

- Heavy-gauge galvanized-steel cabinet
- Attractive Nickel Gray powder-paint finish
- Fully insulated blower compartment with convenient access panels
- Louvered condenser coil protection
- One footprint; two heights



* Complete warranty details available from your local dealer or at www.daikincomfort.com.

NOMENCLATURE



SPECIFICATIONS

| | DP13HM 3643A* | DP13HM 4843A* | DP13HM 6043A* |
|--|------------------|------------------|------------------|
| COOLING CAPACITY | | | |
| Total BTU/h | 34,600 | 47,000 | 56,000 |
| Sensible BTU/h | 26,900 | 37,600 | 42,000 |
| SEER / EER | 13/11 | 13/11 | 13/10.9 |
| Decibels | 80 | 80 | 80 |
| AHRI #s | 6345692 | 6345693 | 6345694 |
| HEATING CAPACITY | | | |
| BUT/h (47°F) | 34,600 | 47,000 | 55,500 |
| C.O.P (47°F) | 3.5 | 3.7 | 3.6 |
| BUT/h (17°F) | 19,000 | 27,000 | 31,200 |
| C.O.P (17°F) | 2.1 | 2.3 | 2.2 |
| HSPF | 7.7 | 8.0 | 8.0 |
| EVAPORATOR MOTOR | | | |
| Type | EEM | EEM | EEM |
| Wheel (DxW) | 10 x 9 | 10 x 9 | 10 x 9 |
| Nominal Cooling CFM | 1,200 | 1,690 | 1,775 |
| FLA/LRA | 3.8 / -- | 5.8 / -- | 7.6 / -- |
| No. of Speeds | 5 | 5 | 5 |
| Horsepower - RPM | ½ - 1,050 | ¾ - 1,050 | 1 - 1,050 |
| EVAPORATOR COIL | | | |
| Face Area (ft ²) | 4.55 | 6.20 | 6.20 |
| Rows Deep/ Fin per Inch | 4 / 14 | 4 / 14 | 4 / 14 |
| All-Aluminum | X | X | X |
| Drain Size (NPT) | ¾" | ¾" | ¾" |
| Refrigerant Charge (oz.) | 128 | 200 | 220 |
| CONDENSER FAN / COIL | | | |
| Horsepower - RPM | ¼ - 830 | ¼ - 1,075 | ¼ - 1,075 |
| FLA/ LRA | 1.5 / 3.0 | 1.4 / 2.9 | 1.4 / 2.9 |
| Fan Diameter / # Fan Blades | 22/4 | 22/3 | 22/3 |
| Face Area (ft ²) | 16.83 | 19.24 | 21.04 |
| Rows Deep/ Fin per Inch | 1 / 22 | 2 / 16 | 2 / 16 |
| COMPRESSOR | | | |
| Quantity / Type | 1 / Scroll | 1 / Scroll | 1 / Scroll |
| Stage | Single | Single | Single |
| Compressor RLA/ LRA | 10.4 / 73 | 13.7 / 83.1 | 16.0 / 110 |
| ELECTRICAL DATA | | | |
| Voltage/ Phase/ Frequency | 208-230/3/60 | 208-230/3/60 | 208-230/3/60 |
| Total Unit Amps | 15.7 | 21.0 | 25.0 |
| Min. Circuit Ampacity ¹ | 18.3 | 24.3 | 29.0 |
| Max. Overcurrent Protection ² | 25 amps | 35 amps | 45 amps |
| SHIPPING WEIGHT (LBS) | 400 | 485 | 495 |

¹ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

² May use fuses or HACR-type circuit breakers of the same size as noted.

Note: Always check the S&R plate for electrical data on the unit being installed.

EXPANDED COOLING DATA — DP13HM3643 **

| IDB | AIRFLOW | Outdoor Ambient Temperature | | | | | | | | | | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | |
|-------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|-------|------|------|------|-------|------|------|------|
| | | 65°F | | | | 75°F | | | | 85°F | | | | 95°F | | | | 105°F | | | | 115°F | | | |
| | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 |
| 70 | MBh | 34.2 | 35.5 | 38.8 | - | 33.4 | 34.6 | 37.9 | - | 32.6 | 33.8 | 37.0 | - | 31.8 | 33.0 | 36.1 | - | 30.2 | 31.3 | 34.3 | - | 28.0 | 29.0 | 31.8 | - |
| | S/T | 0.78 | 0.65 | 0.45 | - | 0.81 | 0.67 | 0.47 | - | 0.83 | 0.69 | 0.48 | - | 0.85 | 0.71 | 0.49 | - | 0.89 | 0.74 | 0.51 | - | 0.89 | 0.75 | 0.52 | - |
| | ΔT | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | kW | 2.40 | 2.45 | 2.53 | - | 2.58 | 2.64 | 2.73 | - | 2.75 | 2.81 | 2.91 | - | 2.90 | 2.96 | 3.06 | - | 3.02 | 3.09 | 3.20 | - | 3.13 | 3.20 | 3.31 | - |
| | HI PR | 218 | 235 | 248 | - | 245 | 263 | 278 | - | 278 | 300 | 316 | - | 317 | 341 | 360 | - | 357 | 384 | 405 | - | 394 | 424 | 448 | - |
| | LO PR | 107 | 114 | 124 | - | 113 | 120 | 131 | - | 118 | 125 | 137 | - | 124 | 131 | 144 | - | 130 | 138 | 150 | - | 134 | 143 | 156 | - |
| | MBh | 33.2 | 34.4 | 37.7 | - | 32.4 | 33.6 | 36.8 | - | 31.7 | 32.8 | 36.0 | - | 30.9 | 32.0 | 35.1 | - | 29.3 | 30.4 | 33.3 | - | 27.2 | 28.2 | 30.9 | - |
| | S/T | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.45 | - | 0.79 | 0.66 | 0.46 | - | 0.81 | 0.68 | 0.47 | - | 0.85 | 0.71 | 0.49 | - | 0.85 | 0.71 | 0.49 | - |
| | ΔT | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 17 | 13 | - | 19 | 16 | 12 | - | 18 | 15 | 12 | - |
| | kW | 2.38 | 2.43 | 2.51 | - | 2.56 | 2.62 | 2.71 | - | 2.73 | 2.79 | 2.88 | - | 2.87 | 2.94 | 3.04 | - | 3.00 | 3.07 | 3.17 | - | 3.10 | 3.18 | 3.28 | - |
| | HI PR | 216 | 232 | 245 | - | 242 | 261 | 275 | - | 276 | 297 | 313 | - | 314 | 338 | 357 | - | 353 | 380 | 401 | - | 390 | 420 | 443 | - |
| | LO PR | 106 | 113 | 123 | - | 112 | 119 | 130 | - | 116 | 124 | 135 | - | 122 | 130 | 142 | - | 128 | 136 | 149 | - | 133 | 141 | 154 | - |
| MBh | 30.7 | 31.8 | 34.8 | - | 29.9 | 31.0 | 34.0 | - | 29.2 | 30.3 | 33.2 | - | 28.5 | 29.6 | 32.4 | - | 27.1 | 28.1 | 30.8 | - | 25.1 | 26.0 | 28.5 | - | |
| S/T | 0.72 | 0.60 | 0.41 | - | 0.74 | 0.62 | 0.43 | - | 0.76 | 0.64 | 0.44 | - | 0.79 | 0.66 | 0.45 | - | 0.82 | 0.68 | 0.47 | - | 0.82 | 0.69 | 0.48 | - | |
| ΔT | 19 | 16 | 12 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 15 | 12 | - | |
| kW | 2.32 | 2.37 | 2.44 | - | 2.50 | 2.55 | 2.64 | - | 2.66 | 2.72 | 2.81 | - | 2.80 | 2.86 | 2.96 | - | 2.92 | 2.99 | 3.09 | - | 3.02 | 3.09 | 3.20 | - | |
| HI PR | 209 | 225 | 238 | - | 235 | 253 | 267 | - | 267 | 288 | 304 | - | 304 | 328 | 346 | - | 343 | 369 | 389 | - | 378 | 407 | 430 | - | |
| LO PR | 103 | 109 | 120 | - | 109 | 116 | 126 | - | 113 | 120 | 131 | - | 119 | 126 | 138 | - | 124 | 132 | 144 | - | 129 | 137 | 149 | - | |
| 75 | MBh | 34.8 | 35.8 | 38.8 | 41.6 | 34.0 | 35.0 | 37.9 | 40.6 | 33.2 | 34.1 | 37.0 | 39.7 | 32.4 | 33.3 | 36.1 | 38.7 | 30.7 | 31.6 | 34.3 | 36.8 | 28.5 | 29.3 | 31.7 | 34.1 |
| | S/T | 0.89 | 0.79 | 0.60 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.94 | 0.84 | 0.64 | 0.41 | 0.97 | 0.87 | 0.66 | 0.42 | 1.00 | 0.90 | 0.68 | 0.44 | 1.00 | 0.91 | 0.69 | 0.44 |
| | ΔT | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | 19 | 16 | 11 | 19 | 18 | 15 | 10 |
| | kW | 2.42 | 2.47 | 2.55 | 2.63 | 2.61 | 2.66 | 2.75 | 2.84 | 2.77 | 2.84 | 2.93 | 3.03 | 2.92 | 2.99 | 3.09 | 3.20 | 3.05 | 3.12 | 3.22 | 3.34 | 3.16 | 3.23 | 3.34 | 3.46 |
| | Amps | 7.8 | 8.0 | 8.2 | 8.5 | 8.4 | 8.6 | 8.8 | 9.1 | 9.0 | 9.3 | 9.5 | 9.9 | 9.6 | 9.9 | 10.2 | 10.5 | 10.2 | 10.5 | 10.8 | 11.2 | 10.8 | 11.1 | 11.4 | 11.8 |
| | HI PR | 220 | 237 | 250 | 261 | 247 | 266 | 281 | 293 | 281 | 303 | 320 | 333 | 320 | 345 | 364 | 380 | 360 | 388 | 409 | 427 | 398 | 428 | 452 | 472 |
| | LO PR | 108 | 115 | 126 | 134 | 114 | 122 | 133 | 141 | 119 | 126 | 138 | 147 | 125 | 133 | 145 | 154 | 131 | 139 | 152 | 162 | 135 | 144 | 157 | 167 |
| | MBh | 33.8 | 34.8 | 37.6 | 40.4 | 33.0 | 34.0 | 36.8 | 39.5 | 32.2 | 33.2 | 35.9 | 38.5 | 31.4 | 32.3 | 35.0 | 37.6 | 29.8 | 30.7 | 33.3 | 35.7 | 27.6 | 28.5 | 30.8 | 33.1 |
| | S/T | 0.84 | 0.76 | 0.57 | 0.37 | 0.88 | 0.78 | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.93 | 0.83 | 0.63 | 0.40 | 0.96 | 0.86 | 0.65 | 0.42 | 0.97 | 0.87 | 0.66 | 0.42 |
| | ΔT | 22 | 20 | 16 | 11 | 22 | 20 | 17 | 11 | 22 | 20 | 17 | 11 | 22 | 20 | 17 | 11 | 22 | 20 | 16 | 11 | 20 | 19 | 15 | 11 |
| | kW | 2.40 | 2.45 | 2.53 | 2.61 | 2.58 | 2.64 | 2.73 | 2.82 | 2.75 | 2.81 | 2.91 | 3.00 | 2.90 | 2.96 | 3.06 | 3.17 | 3.02 | 3.09 | 3.20 | 3.31 | 3.13 | 3.20 | 3.31 | 3.43 |
| | Amps | 7.7 | 7.9 | 8.1 | 8.4 | 8.3 | 8.5 | 8.8 | 9.1 | 9.0 | 9.2 | 9.5 | 9.8 | 9.6 | 9.8 | 10.1 | 10.4 | 10.1 | 10.4 | 10.7 | 11.1 | 10.7 | 11.0 | 11.3 | 11.7 |
| HI PR | 218 | 235 | 248 | 259 | 245 | 263 | 278 | 290 | 278 | 300 | 316 | 330 | 317 | 341 | 360 | 376 | 357 | 384 | 405 | 423 | 394 | 424 | 448 | 467 | |
| LO PR | 107 | 114 | 124 | 133 | 113 | 120 | 131 | 140 | 118 | 125 | 137 | 146 | 124 | 131 | 144 | 153 | 130 | 138 | 150 | 160 | 134 | 143 | 156 | 166 | |
| MBh | 31.2 | 32.1 | 34.7 | 37.3 | 30.4 | 31.3 | 33.9 | 36.4 | 29.7 | 30.6 | 33.1 | 35.5 | 29.0 | 29.9 | 32.3 | 34.7 | 27.5 | 28.4 | 30.7 | 32.9 | 25.5 | 26.3 | 28.4 | 30.5 | |
| S/T | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 0.77 | 0.59 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.93 | 0.83 | 0.63 | 0.40 | 0.93 | 0.84 | 0.63 | 0.41 | |
| ΔT | 22 | 20 | 17 | 11 | 22 | 20 | 17 | 12 | 22 | 20 | 17 | 12 | 22 | 21 | 17 | 12 | 22 | 20 | 17 | 12 | 21 | 19 | 16 | 11 | |
| kW | 2.34 | 2.39 | 2.46 | 2.55 | 2.52 | 2.58 | 2.66 | 2.75 | 2.68 | 2.74 | 2.83 | 2.93 | 2.83 | 2.89 | 2.99 | 3.09 | 2.95 | 3.01 | 3.11 | 3.22 | 3.05 | 3.12 | 3.23 | 3.34 | |
| Amps | 7.5 | 7.7 | 7.9 | 8.2 | 8.1 | 8.3 | 8.5 | 8.8 | 8.7 | 8.9 | 9.2 | 9.5 | 9.3 | 9.5 | 9.8 | 10.2 | 9.9 | 10.1 | 10.4 | 10.8 | 10.4 | 10.7 | 11.0 | 11.4 | |
| HI PR | 212 | 228 | 240 | 251 | 237 | 256 | 270 | 281 | 270 | 291 | 307 | 320 | 308 | 331 | 350 | 365 | 346 | 372 | 393 | 410 | 382 | 411 | 434 | 453 | |
| LO PR | 104 | 111 | 121 | 129 | 110 | 117 | 128 | 136 | 114 | 121 | 133 | 141 | 120 | 128 | 139 | 148 | 126 | 134 | 146 | 155 | 130 | 138 | 151 | 161 | |

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction service valves.
 Shaded area reflects ACCA (TVA) conditions
 Amps = outdoor unit amps (comp.+fan)
 kW = Total system power

EXPANDED COOLING DATA — DP13HM4843** (CONT.)

| IDB | AIRFLOW | Outdoor Ambient Temperature | | | | | | | | | | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | |
|-------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|-------|------|------|------|-------|------|------|------|------|------|
| | | 65°F | | | | 75°F | | | | 85°F | | | | 95°F | | | | 105°F | | | | 115°F | | | | | |
| | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | | |
| 80 | 1902 | MBh | 49.2 | 50.3 | 53.7 | 57.4 | 48.0 | 49.1 | 52.4 | 56.1 | 46.9 | 47.9 | 51.2 | 54.7 | 45.8 | 46.8 | 49.9 | 53.4 | 43.5 | 44.4 | 47.4 | 50.7 | 40.3 | 41.1 | 44.0 | 47.0 | |
| | | S/T | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 1.00 | 0.81 | 0.60 | 1.00 | 1.00 | 0.84 | 0.62 | 1.00 | 1.00 | 0.87 | 0.65 | 1.00 | 1.00 | 0.87 | 0.65 | |
| | | ΔT | 24 | 23 | 20 | 16 | 23 | 23 | 20 | 16 | 23 | 23 | 20 | 16 | 22 | 23 | 20 | 16 | 21 | 21 | 21 | 20 | 16 | 19 | 20 | 19 | 15 |
| | 1692 | kW | 3.26 | 3.33 | 3.44 | 3.54 | 3.51 | 3.59 | 3.70 | 3.82 | 3.73 | 3.81 | 3.93 | 4.06 | 3.92 | 4.01 | 4.14 | 4.28 | 4.09 | 4.18 | 4.31 | 4.46 | 4.23 | 4.32 | 4.46 | 4.62 | |
| | | Amps | 7.9 | 8.0 | 8.3 | 8.6 | 8.4 | 8.6 | 8.9 | 9.2 | 9.1 | 9.3 | 9.6 | 10.0 | 9.7 | 9.9 | 10.3 | 10.6 | 10.3 | 10.6 | 10.9 | 11.3 | 10.9 | 11.2 | 11.5 | 11.9 | |
| | | HI PR | 223 | 240 | 253 | 264 | 250 | 269 | 284 | 296 | 284 | 306 | 323 | 337 | 324 | 348 | 368 | 383 | 364 | 392 | 414 | 431 | 402 | 433 | 457 | 477 | |
| | 1483 | LO PR | 109 | 116 | 127 | 135 | 116 | 123 | 134 | 143 | 120 | 128 | 139 | 148 | 126 | 134 | 146 | 156 | 132 | 141 | 153 | 163 | 137 | 145 | 159 | 169 | |
| | | MBh | 47.8 | 48.8 | 52.1 | 55.7 | 46.6 | 47.7 | 50.9 | 54.4 | 45.5 | 46.5 | 49.7 | 53.1 | 44.4 | 45.4 | 48.5 | 51.8 | 42.2 | 43.1 | 46.1 | 49.2 | 39.1 | 39.9 | 42.7 | 45.6 | |
| | | S/T | 0.95 | 0.89 | 0.73 | 0.54 | 0.99 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 0.98 | 0.80 | 0.60 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.83 | 0.62 | |
| | 85 | 1902 | ΔT | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 24 | 24 | 21 | 17 | 23 | 23 | 21 | 17 | 21 | 22 | 19 | 15 |
| | | | kW | 3.29 | 3.36 | 3.46 | 3.57 | 3.54 | 3.62 | 3.73 | 3.85 | 3.76 | 3.84 | 3.97 | 4.10 | 3.96 | 4.04 | 4.17 | 4.31 | 4.12 | 4.21 | 4.35 | 4.50 | 4.26 | 4.36 | 4.50 | 4.65 |
| | | | Amps | 7.9 | 8.1 | 8.3 | 8.6 | 8.5 | 8.7 | 9.0 | 9.3 | 9.2 | 9.4 | 9.7 | 10.1 | 9.8 | 10.0 | 10.3 | 10.7 | 10.4 | 10.6 | 11.0 | 11.4 | 11.0 | 11.2 | 11.6 | 12.0 |
| 1692 | | HI PR | 225 | 242 | 255 | 266 | 252 | 271 | 287 | 299 | 287 | 309 | 326 | 340 | 327 | 352 | 371 | 387 | 368 | 396 | 418 | 436 | 406 | 437 | 462 | 481 | |
| | | LO PR | 110 | 117 | 128 | 137 | 117 | 124 | 135 | 144 | 121 | 129 | 141 | 150 | 127 | 135 | 148 | 158 | 133 | 142 | 155 | 165 | 138 | 147 | 160 | 171 | |
| | | MBh | 48.6 | 49.5 | 51.9 | 55.3 | 47.5 | 48.4 | 50.7 | 54.0 | 46.3 | 47.2 | 49.5 | 52.8 | 45.2 | 46.1 | 48.2 | 51.5 | 42.9 | 43.8 | 45.8 | 48.9 | 39.8 | 40.5 | 42.5 | 45.3 | |
| 1483 | | S/T | 1.00 | 0.96 | 0.87 | 0.70 | 1.00 | 0.96 | 0.87 | 0.70 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.99 | 0.80 | 1.00 | 1.00 | 0.95 | 0.81 | |
| | | ΔT | 26 | 26 | 24 | 21 | 26 | 26 | 25 | 21 | 25 | 26 | 25 | 21 | 25 | 25 | 25 | 22 | 23 | 24 | 25 | 21 | 22 | 22 | 23 | 20 | |
| | | kW | 3.26 | 3.33 | 3.44 | 3.54 | 3.51 | 3.59 | 3.70 | 3.82 | 3.73 | 3.81 | 3.93 | 4.06 | 3.92 | 4.01 | 4.14 | 4.28 | 4.09 | 4.18 | 4.31 | 4.46 | 4.23 | 4.32 | 4.46 | 4.62 | |
| 1902 | | Amps | 7.9 | 8.0 | 8.3 | 8.6 | 8.4 | 8.6 | 8.9 | 9.2 | 9.1 | 9.3 | 9.6 | 10.0 | 9.7 | 9.9 | 10.3 | 10.6 | 10.3 | 10.6 | 10.9 | 11.3 | 10.9 | 11.2 | 11.5 | 11.9 | |
| | | HI PR | 223 | 240 | 253 | 264 | 250 | 269 | 284 | 296 | 284 | 306 | 323 | 337 | 324 | 348 | 368 | 383 | 364 | 392 | 414 | 431 | 402 | 433 | 457 | 477 | |
| | | LO PR | 109 | 116 | 127 | 135 | 116 | 123 | 134 | 143 | 120 | 128 | 139 | 148 | 126 | 134 | 146 | 156 | 132 | 141 | 153 | 163 | 137 | 145 | 159 | 169 | |
| 1692 | MBh | 44.8 | 45.7 | 47.9 | 51.1 | 43.8 | 44.6 | 46.8 | 49.9 | 42.8 | 43.6 | 45.6 | 48.7 | 41.7 | 42.5 | 44.5 | 47.5 | 39.6 | 40.4 | 42.3 | 45.1 | 36.7 | 37.4 | 39.2 | 41.8 | | |
| | S/T | 0.96 | 0.93 | 0.84 | 0.68 | 1.00 | 0.96 | 0.87 | 0.70 | 1.00 | 0.99 | 0.89 | 0.72 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.96 | 0.78 | | |
| | ΔT | 27 | 26 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 26 | 26 | 25 | 22 | 25 | 25 | 25 | 22 | 25 | 25 | 23 | 20 | | |
| 1483 | kW | 3.19 | 3.25 | 3.35 | 3.46 | 3.43 | 3.50 | 3.61 | 3.73 | 3.64 | 3.72 | 3.84 | 3.96 | 3.83 | 3.91 | 4.04 | 4.17 | 3.99 | 4.07 | 4.21 | 4.35 | 4.12 | 4.21 | 4.35 | 4.50 | | |
| | Amps | 7.7 | 7.8 | 8.1 | 8.3 | 8.2 | 8.4 | 8.7 | 9.0 | 8.9 | 9.1 | 9.4 | 9.7 | 9.5 | 9.7 | 10.0 | 10.3 | 10.0 | 10.3 | 10.6 | 11.0 | 10.6 | 10.9 | 11.2 | 11.6 | | |
| | HI PR | 216 | 232 | 245 | 256 | 242 | 261 | 275 | 287 | 276 | 297 | 313 | 327 | 314 | 338 | 357 | 372 | 353 | 380 | 401 | 418 | 390 | 420 | 443 | 462 | | |
| LO PR | 106 | 113 | 123 | 131 | 112 | 119 | 130 | 139 | 116 | 124 | 135 | 144 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 133 | 141 | 154 | 164 | | | |

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction service valves.
 Shaded area reflects AHRI conditions
 Amps = outdoor unit amps (comp.+fan)
 kW = Total system power

EXPANDED COOLING DATA — DP13HM6043** (CONT.)

| IDB | AIRFLOW | Outdoor Ambient Temperature | | | | | | | | | | | | Entering Indoor Wet Bulb Temperature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|-------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|-----|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----|-----|-----|-----|------|-----|-----|------|------|------|------|------|------|------|------|------|------|-------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 65°F | | | | 75°F | | | | 85°F | | | | 95°F | | | | 105°F | | | | 115°F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | 59 | 63 | 67 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 2000 | MBh | 57.0 | 58.3 | 62.3 | 66.6 | 55.7 | 56.9 | 60.8 | 65.0 | 54.4 | 55.6 | 59.4 | 63.5 | 53.1 | 54.2 | 57.9 | 61.9 | 50.4 | 51.5 | 55.0 | 58.8 | 46.7 | 47.7 | 51.0 | 54.5 | S/T | 0.94 | 0.88 | 0.72 | 0.54 | 1.00 | 0.91 | 0.74 | 0.56 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 1.00 | 0.82 | 0.61 | ΔT | 25 | 24 | 21 | 16 | 26 | 24 | 21 | 17 | 24 | 24 | 21 | 17 | 23 | 24 | 21 | 17 | 21 | 22 | 19 | 15 | kW | 4.00 | 4.09 | 4.22 | 4.36 | 4.32 | 4.41 | 4.56 | 4.71 | 4.60 | 4.70 | 4.86 | 5.02 | 4.84 | 4.95 | 5.12 | 5.29 | 5.05 | 5.17 | 5.34 | 5.53 | 5.23 | 5.35 | 5.53 | 5.73 | Amps | 7.9 | 8.0 | 8.3 | 8.6 | 8.4 | 8.6 | 8.9 | 9.2 | 9.1 | 9.3 | 9.6 | 10.0 | 9.7 | 9.9 | 10.3 | 10.6 | 10.3 | 10.6 | 10.9 | 11.3 | 10.9 | 11.2 | 11.5 | 11.9 | HI PR | 223 | 240 | 253 | 264 | 250 | 269 | 284 | 296 | 284 | 306 | 323 | 337 | 324 | 348 | 368 | 383 | 364 | 392 | 414 | 431 | 402 | 433 | 457 | 477 | LO PR | 109 | 116 | 127 | 135 | 116 | 123 | 134 | 143 | 120 | 128 | 139 | 148 | 126 | 134 | 146 | 156 | 132 | 141 | 153 | 163 | 137 | 145 | 159 | 169 | MBh | 55.4 | 56.6 | 60.5 | 64.6 | 54.1 | 55.3 | 59.0 | 63.1 | 52.8 | 54.0 | 57.6 | 61.6 | 51.5 | 52.6 | 56.2 | 60.1 | 48.9 | 50.0 | 53.4 | 57.1 | 45.3 | 46.3 | 49.5 | 52.9 | S/T | 0.90 | 0.84 | 0.68 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89 | 0.73 | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 1.00 | 0.96 | 0.78 | 0.58 | ΔT | 26 | 25 | 21 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 25 | 25 | 22 | 17 | 23 | 23 | 20 | 16 | kW | 3.97 | 4.05 | 4.19 | 4.32 | 4.28 | 4.38 | 4.52 | 4.67 | 4.56 | 4.66 | 4.81 | 4.98 | 4.80 | 4.91 | 5.08 | 5.25 | 5.01 | 5.12 | 5.30 | 5.48 | 5.19 | 5.31 | 5.49 | 5.68 | Amps | 7.8 | 8.0 | 8.2 | 8.5 | 8.4 | 8.6 | 8.8 | 9.1 | 9.1 | 9.3 | 9.5 | 9.9 | 9.6 | 9.9 | 10.2 | 10.5 | 10.2 | 10.5 | 10.8 | 11.2 | 10.8 | 11.1 | 11.4 | 11.8 | HI PR | 220 | 237 | 250 | 261 | 247 | 266 | 281 | 293 | 281 | 303 | 320 | 333 | 320 | 345 | 364 | 380 | 360 | 388 | 410 | 427 | 398 | 428 | 452 | 472 | LO PR | 108 | 115 | 126 | 134 | 114 | 122 | 133 | 141 | 119 | 126 | 138 | 147 | 125 | 133 | 145 | 154 | 131 | 139 | 152 | 162 | 135 | 144 | 157 | 167 | MBh | 51.1 | 52.2 | 55.8 | 59.6 | 49.9 | 51.0 | 54.5 | 58.3 | 48.7 | 49.8 | 53.2 | 56.9 | 47.5 | 48.6 | 51.9 | 55.5 | 45.2 | 46.2 | 49.3 | 52.7 | 41.8 | 42.8 | 45.7 | 48.8 | S/T | 0.86 | 0.81 | 0.66 | 0.49 | 0.90 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | ΔT | 26 | 25 | 22 | 17 | 27 | 25 | 22 | 18 | 27 | 25 | 22 | 18 | 27 | 26 | 22 | 18 | 26 | 25 | 22 | 18 | 25 | 24 | 21 | 16 | kW | 3.87 | 3.96 | 4.08 | 4.22 | 4.17 | 4.27 | 4.41 | 4.55 | 4.44 | 4.54 | 4.69 | 4.85 | 4.68 | 4.78 | 4.94 | 5.11 | 4.88 | 4.99 | 5.16 | 5.34 | 5.05 | 5.17 | 5.34 | 5.53 | Amps | 7.6 | 7.8 | 8.0 | 8.3 | 8.2 | 8.3 | 8.6 | 8.9 | 8.8 | 9.0 | 9.3 | 9.6 | 9.4 | 9.6 | 9.9 | 10.3 | 10.0 | 10.2 | 10.5 | 10.9 | 10.5 | 10.8 | 11.1 | 11.5 | HI PR | 214 | 230 | 243 | 253 | 240 | 258 | 273 | 284 | 273 | 294 | 310 | 323 | 311 | 334 | 353 | 368 | 350 | 376 | 397 | 414 | 386 | 416 | 439 | 458 | LO PR | 105 | 112 | 122 | 130 | 111 | 118 | 129 | 137 | 115 | 123 | 134 | 143 | 121 | 129 | 141 | 150 | 127 | 135 | 147 | 157 | 131 | 140 | 152 | 162 | | | | | | | | | | | | | | | | | | | | | |
| | | 85 | 2000 | MBh | 58.0 | 59.2 | 62.0 | 66.1 | 56.7 | 57.8 | 60.5 | 64.6 | 55.3 | 56.4 | 59.1 | 63.0 | 54.0 | 55.0 | 57.6 | 61.5 | 51.3 | 52.3 | 54.8 | 58.4 | 47.5 | 48.4 | 50.7 | 54.1 | S/T | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.99 | 0.89 | 0.72 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.98 | 0.79 | 1.00 | 1.00 | 0.99 | 0.80 | ΔT | 26 | 26 | 24 | 21 | 26 | 26 | 25 | 21 | 25 | 26 | 25 | 21 | 25 | 25 | 25 | 22 | 24 | 24 | 25 | 21 | 22 | 22 | 23 | 20 | kW | 4.03 | 4.12 | 4.25 | 4.40 | 4.35 | 4.45 | 4.60 | 4.75 | 4.63 | 4.74 | 4.90 | 5.06 | 4.88 | 4.99 | 5.16 | 5.34 | 5.09 | 5.21 | 5.39 | 5.57 | 5.28 | 5.40 | 5.58 | 5.78 | Amps | 7.9 | 8.1 | 8.3 | 8.6 | 8.5 | 8.7 | 9.0 | 9.3 | 9.2 | 9.4 | 9.7 | 10.1 | 9.8 | 10.0 | 10.3 | 10.7 | 10.4 | 10.6 | 11.0 | 11.4 | 11.0 | 11.2 | 11.6 | 12.0 | HI PR | 225 | 242 | 255 | 266 | 252 | 271 | 287 | 299 | 287 | 309 | 326 | 340 | 327 | 352 | 371 | 387 | 368 | 396 | 418 | 436 | 406 | 437 | 462 | 481 | LO PR | 110 | 117 | 128 | 137 | 117 | 124 | 135 | 144 | 121 | 129 | 141 | 150 | 127 | 135 | 148 | 158 | 133 | 142 | 155 | 165 | 138 | 147 | 160 | 171 | MBh | 56.3 | 57.4 | 60.2 | 64.2 | 55.0 | 56.1 | 58.8 | 62.7 | 53.7 | 54.8 | 57.4 | 61.2 | 52.4 | 53.4 | 56.0 | 59.7 | 49.8 | 50.8 | 53.2 | 56.7 | 46.1 | 47.0 | 49.2 | 52.5 | S/T | 0.94 | 0.91 | 0.82 | 0.66 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.93 | 0.76 | 1.00 | 1.00 | 0.94 | 0.76 | ΔT | 27 | 27 | 25 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 27 | 28 | 26 | 23 | 26 | 26 | 26 | 22 | 24 | 24 | 24 | 21 | kW | 4.00 | 4.09 | 4.22 | 4.36 | 4.32 | 4.41 | 4.56 | 4.71 | 4.60 | 4.70 | 4.86 | 5.02 | 4.84 | 4.95 | 5.12 | 5.29 | 5.05 | 5.17 | 5.34 | 5.53 | 5.23 | 5.35 | 5.53 | 5.73 | Amps | 7.9 | 8.0 | 8.3 | 8.6 | 8.4 | 8.6 | 8.9 | 9.2 | 9.1 | 9.3 | 9.6 | 10.0 | 9.7 | 9.9 | 10.3 | 10.6 | 10.3 | 10.6 | 10.9 | 11.3 | 10.9 | 11.2 | 11.5 | 11.9 | HI PR | 223 | 240 | 253 | 264 | 250 | 269 | 284 | 296 | 284 | 306 | 323 | 337 | 324 | 348 | 368 | 383 | 364 | 392 | 414 | 431 | 402 | 433 | 457 | 477 | LO PR | 109 | 116 | 127 | 135 | 116 | 123 | 134 | 143 | 120 | 128 | 139 | 148 | 126 | 134 | 146 | 156 | 132 | 141 | 153 | 163 | 137 | 145 | 159 | 169 | MBh | 52.0 | 53.0 | 55.5 | 59.2 | 50.8 | 51.8 | 54.2 | 57.9 | 49.6 | 50.5 | 52.9 | 56.5 | 48.4 | 49.3 | 51.6 | 55.1 | 46.0 | 46.8 | 49.1 | 52.3 | 42.6 | 43.4 | 45.4 | 48.5 | S/T | 0.91 | 0.87 | 0.79 | 0.64 | 0.94 | 0.91 | 0.82 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 0.99 | 0.96 | 0.87 | 0.70 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.91 | 0.73 | ΔT | 28 | 27 | 26 | 22 | 28 | 28 | 26 | 23 | 28 | 28 | 26 | 23 | 29 | 28 | 27 | 23 | 27 | 28 | 26 | 23 | 25 | 26 | 24 | 21 | kW | 3.90 | 3.99 | 4.12 | 4.25 | 4.21 | 4.30 | 4.44 | 4.59 | 4.48 | 4.58 | 4.73 | 4.89 | 4.72 | 4.83 | 4.99 | 5.16 | 4.92 | 5.03 | 5.20 | 5.38 | 5.10 | 5.21 | 5.39 | 5.58 | Amps | 7.7 | 7.8 | 8.1 | 8.3 | 8.2 | 8.4 | 8.7 | 9.0 | 8.9 | 9.1 | 9.4 | 9.7 | 9.5 | 9.7 | 10.0 | 10.3 | 10.0 | 10.3 | 10.6 | 11.0 | 10.6 | 10.9 | 11.2 | 11.6 | HI PR | 216 | 232 | 245 | 256 | 242 | 261 | 275 | 287 | 276 | 297 | 313 | 327 | 314 | 338 | 357 | 372 | 353 | 380 | 401 | 418 | 390 | 420 | 443 | 462 | LO PR | 106 | 113 | 123 | 131 | 112 | 119 | 130 | 139 | 116 | 124 | 135 | 144 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 133 | 141 | 154 |

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction service valves.
 Shaded area reflects AHRI conditions
 Amps = outdoor unit amps (comp.+fan)
 kW = Total system power

EXPANDED HEATING DATA

DP13HM3643A*

| | OUTDOOR AMBIENT TEMPERATURE | | | | | | | | | | | | | | | | | |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 65 | 60 | 55 | 50 | 47 | 45 | 40 | 35 | 30 | 25 | 20 | 17 | 15 | 10 | 5 | 0 | -5 | -10 |
| MBh | 44.5 | 42.1 | 39.7 | 37.1 | 35.4 | 34.3 | 31.9 | 29.4 | 23.7 | 21.9 | 20.2 | 19.0 | 18.3 | 16.5 | 14.6 | 12.7 | 10.9 | 8.9 |
| T/R | 34.0 | 32.2 | 30.3 | 28.3 | 27.0 | 26.2 | 24.3 | 22.4 | 18.1 | 16.7 | 15.4 | 14.5 | 14.0 | 12.6 | 11.1 | 9.7 | 8.3 | 6.8 |
| kW | 3.08 | 3.02 | 2.95 | 2.89 | 2.86 | 2.83 | 2.77 | 2.71 | 2.60 | 2.54 | 2.48 | 2.44 | 2.42 | 2.35 | 2.29 | 2.23 | 2.17 | 2.11 |
| Amps | 15.2 | 14.2 | 13.4 | 12.6 | 12.2 | 12.0 | 11.4 | 10.9 | 10.5 | 10.1 | 9.6 | 9.4 | 9.3 | 8.9 | 8.4 | 8.0 | 7.5 | 6.8 |
| COP | 4.23 | 4.09 | 3.93 | 3.75 | 3.63 | 3.55 | 3.37 | 3.18 | 2.67 | 2.53 | 2.38 | 2.28 | 2.22 | 2.05 | 1.86 | 1.67 | 1.46 | 1.23 |
| EER | 14.5 | 14.0 | 13.4 | 12.8 | 12.4 | 12.1 | 11.5 | 10.9 | 9.1 | 8.6 | 8.1 | 7.8 | 7.6 | 7.0 | 6.4 | 5.7 | 5.0 | 4.2 |
| HI PR | 412 | 395 | 380 | 363 | 355 | 348 | 334 | 321 | 307 | 294 | 282 | 275 | 270 | 260 | 250 | 240 | 231 | 223 |
| LO PR | 138 | 128 | 120 | 110 | 104 | 100 | 92 | 82 | 74 | 66 | 58 | 54 | 52 | 44 | 38 | 32 | 28 | 22 |

DP13HM4843A*

| | OUTDOOR AMBIENT TEMPERATURE | | | | | | | | | | | | | | | | | |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 65 | 60 | 55 | 50 | 47 | 45 | 40 | 35 | 30 | 25 | 20 | 17 | 15 | 10 | 5 | 0 | -5 | -10 |
| MBh | 61.8 | 58.5 | 55.1 | 51.5 | 49.2 | 47.7 | 44.3 | 40.8 | 34.5 | 31.9 | 29.3 | 27.7 | 26.7 | 23.9 | 21.2 | 18.5 | 15.8 | 12.9 |
| T/R | 33.8 | 32.0 | 30.1 | 28.2 | 26.9 | 26.1 | 24.2 | 22.3 | 18.9 | 17.4 | 16.0 | 15.2 | 14.6 | 13.1 | 11.6 | 10.1 | 8.6 | 7.1 |
| kW | 4.12 | 4.04 | 3.96 | 3.88 | 3.83 | 3.80 | 3.72 | 3.64 | 3.40 | 3.33 | 3.25 | 3.21 | 3.18 | 3.10 | 3.02 | 2.95 | 2.87 | 2.80 |
| Amps | 20.1 | 18.8 | 17.7 | 16.7 | 16.2 | 15.9 | 15.1 | 14.4 | 13.8 | 13.3 | 12.7 | 12.4 | 12.3 | 11.7 | 11.1 | 10.5 | 9.8 | 9.0 |
| COP | 4.39 | 4.24 | 4.07 | 3.89 | 3.76 | 3.67 | 3.48 | 3.28 | 2.97 | 2.80 | 2.64 | 2.53 | 2.46 | 2.26 | 2.05 | 1.84 | 1.61 | 1.35 |
| EER | 15.0 | 14.5 | 13.9 | 13.3 | 12.8 | 12.6 | 11.9 | 11.2 | 10.1 | 9.6 | 9.0 | 8.6 | 8.4 | 7.7 | 7.0 | 6.3 | 5.5 | 4.6 |
| HI PR | 418 | 401 | 385 | 368 | 360 | 353 | 339 | 326 | 312 | 298 | 286 | 279 | 274 | 264 | 254 | 243 | 235 | 226 |
| LO PR | 135 | 125 | 117 | 107 | 102 | 98 | 90 | 80 | 72 | 64 | 57 | 53 | 51 | 43 | 37 | 31 | 27 | 21 |

DP13HM6043A*

| | OUTDOOR AMBIENT TEMPERATURE | | | | | | | | | | | | | | | | | |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 65 | 60 | 55 | 50 | 47 | 45 | 40 | 35 | 30 | 25 | 20 | 17 | 15 | 10 | 5 | 0 | -5 | -10 |
| MBh | 72.2 | 68.4 | 64.3 | 60.1 | 57.4 | 55.7 | 51.7 | 47.7 | 39.8 | 36.7 | 33.8 | 31.9 | 30.7 | 27.6 | 24.5 | 21.3 | 18.2 | 14.9 |
| T/R | 37.5 | 35.5 | 33.5 | 31.3 | 29.9 | 28.9 | 26.9 | 24.8 | 20.7 | 19.1 | 17.6 | 16.6 | 16.0 | 14.3 | 12.7 | 11.1 | 9.5 | 7.8 |
| kW | 4.98 | 4.88 | 4.78 | 4.67 | 4.62 | 4.57 | 4.48 | 4.38 | 4.20 | 4.10 | 4.01 | 3.95 | 3.91 | 3.81 | 3.71 | 3.62 | 3.52 | 3.42 |
| Amps | 25.4 | 23.7 | 22.3 | 21.1 | 20.4 | 20.1 | 19.0 | 18.2 | 17.5 | 16.8 | 16.1 | 15.8 | 15.6 | 14.9 | 14.1 | 13.4 | 12.5 | 11.5 |
| COP | 4.25 | 4.10 | 3.94 | 3.77 | 3.64 | 3.56 | 3.38 | 3.19 | 2.77 | 2.62 | 2.47 | 2.37 | 2.30 | 2.12 | 1.93 | 1.73 | 1.51 | 1.28 |
| EER | 14.5 | 14.0 | 13.5 | 12.9 | 12.4 | 12.2 | 11.5 | 10.9 | 9.5 | 9.0 | 8.4 | 8.1 | 7.9 | 7.2 | 6.6 | 5.9 | 5.2 | 4.4 |
| HI PR | 421 | 404 | 388 | 371 | 362 | 355 | 342 | 328 | 314 | 300 | 288 | 281 | 276 | 266 | 255 | 245 | 236 | 228 |
| LO PR | 134 | 124 | 116 | 107 | 101 | 97 | 89 | 79 | 72 | 64 | 56 | 52 | 50 | 43 | 37 | 31 | 27 | 21 |

Calculations are based on nominal CFM and 70°F indoor dry bulb.
High pressure is measured at the suction service valve (the larger valve).

kW = Total system power Amps = Outdoor unit amps (comp.+fan)
Low pressure is measured at the gauge port connection.

HEAT KIT ELECTRICAL DATA (BLOWER ONLY, HEAT MODE)

| MODEL & HEAT KIT USAGE | CIRCUIT #1 | | ACTUAL KW / BTU@ 240V |
|------------------------|------------------|------------------|-----------------------|
| | MCA ¹ | MOD ² | |
| DP13HM3643** | 3.8 / 3.8 | -- | -- |
| HKR3-15B | 39 / 45 | 60 / 60 | 15.0 / 51,000 |
| DP13HM4843** | 5.8 / 5.8 | -- | -- |
| HKR3-15B | 39 / 45 | 60 / 60 | 15.0 / 51,000 |
| HKR3-20B | 51 / 55 | 60 / 60 | 19.5 / 66,500 |
| DP13HM6043** | 7.6 / 7.6 | -- | -- |
| HKR3-15B | 39 / 45 | 60 / 60 | 15.0 / 51,000 |
| HKR3-20B | 51 / 55 | 60 / 60 | 19.5 / 66,500 |

¹ Minimum Circuit Ampacity @ 208 / 240 V

² Maximum Overcurrent Protection device @ 208 / 240 V

* Revision level that may or may not be designated

C Circuit Breaker option

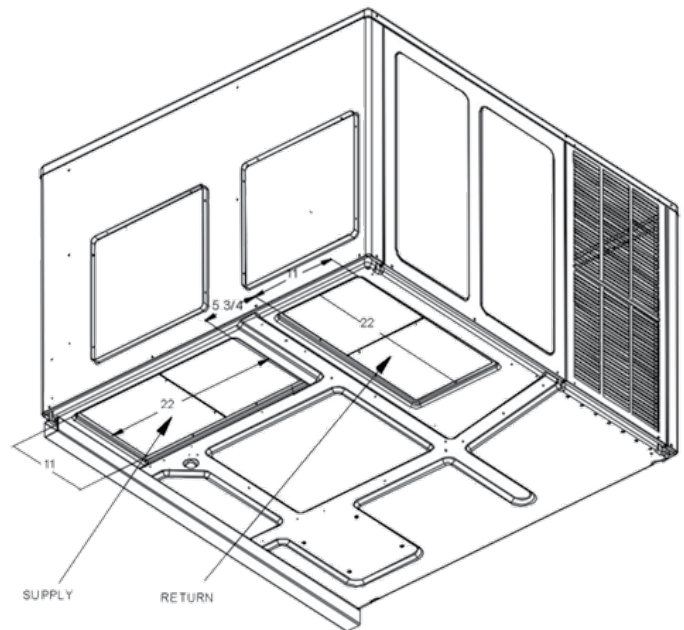
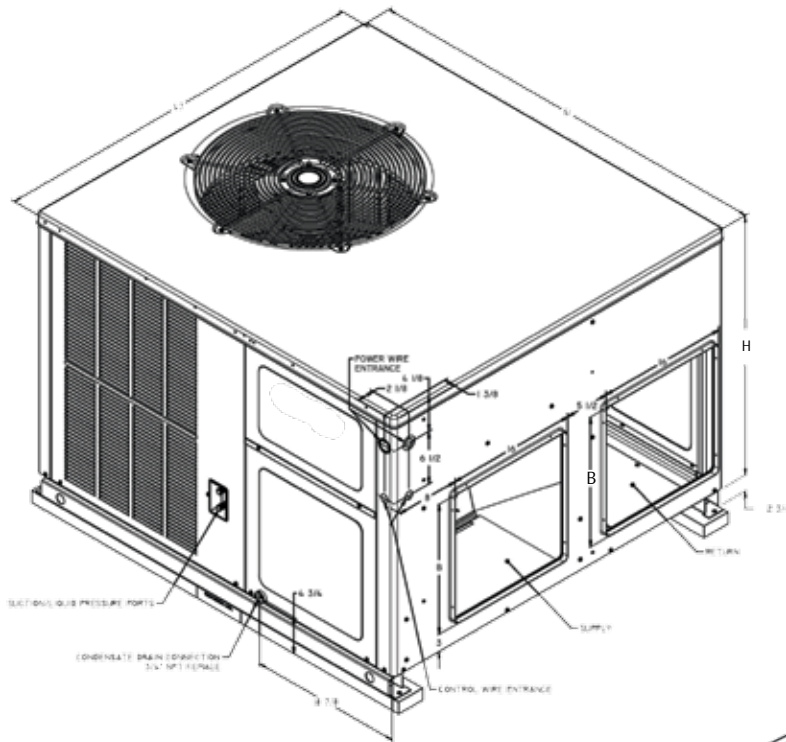
AIRFLOW DATA

| MODEL | SPEED | VOLTS | | E.S.P (IN. OF H ₂ O) | | | | | | | |
|-----------------|---------|-------|--------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| DP13HM 3643* | T1 | 230 | CFM Watts | 867 77 | 789 84 | 711 90 | 632 97 | 554 103 | --- | --- | --- |
| | T2 / T3 | 230 | CFM Watts | 1,272 223 | 1,222 230 | 1,173 236 | 1,123 243 | 1,074 249 | 1,024 256 | 974 262 | 925 269 |
| | T4 / T5 | 230 | CFM Watts | 1,446 287 | 1,396 293 | 1,347 300 | 1,297 306 | 1,248 313 | 1,198 319 | 1,148 326 | 1,099 332 |
| DP13HM 4843* | T1 | 230 | CFM Watts | 1,451 255 | 1,404 264 | 1,356 273 | 1,309 282 | 1,262 291 | 1,215 299 | 1,168 308 | 1,121 317 |
| | T2 / T3 | 230 | CFM Watts | 1,809 444 | 1,762 453 | 1,715 462 | 1,667 471 | 1,620 479 | 1,573 488 | 1,526 497 | 1,479 506 |
| | T4 / T5 | 230 | CFM Watts | 1,885 484 | 1,838 493 | 1,790 502 | 1,743 510 | 1,696 519 | 1,649 528 | 1,602 537 | 1,555 546 |
| DP13HM 6043* | T1 | 230 | CFM Watts | 1,774 444 | 1,731 453 | 1,688 463 | 1,645 473 | 1,602 483 | 1,559 493 | 1,515 503 | 1,472 512 |
| | T2 / T3 | 230 | CFM Watts | 1,891 515 | 1,848 525 | 1,804 535 | 1,761 544 | 1,718 554 | 1,675 564 | 1,632 574 | 1,589 584 |
| | T4 / T5 | 230 | CFM Watts | 2,105 646 | 2,062 656 | 2,018 666 | 1,975 676 | 1,932 686 | 1,889 696 | 1,846 705 | 1,803 715 |

NOTES

- Data shown is dry coil. Wet coil pressure drop is approximately 0.1" H₂O, for two-row indoor coil; 0.2" H₂O, for three-row indoor coil; and 0.3" H₂O, for four-row indoor coil.
- Data shown does not include filter pressure drop, approx. 0.08" H₂O.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM/TON. USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM. See Repair Parts list.
- Reduce airflow by 2% for 208-volt operation.

DIMENSIONS



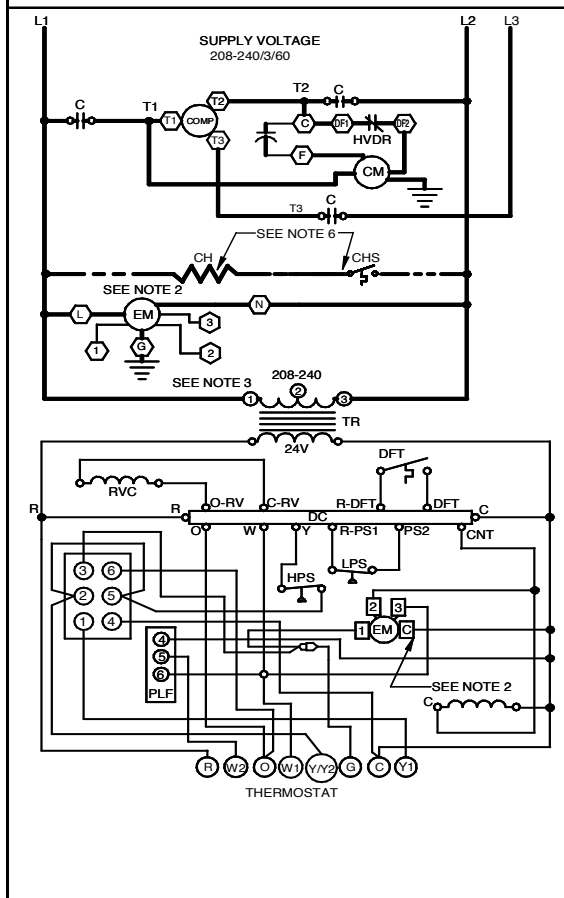
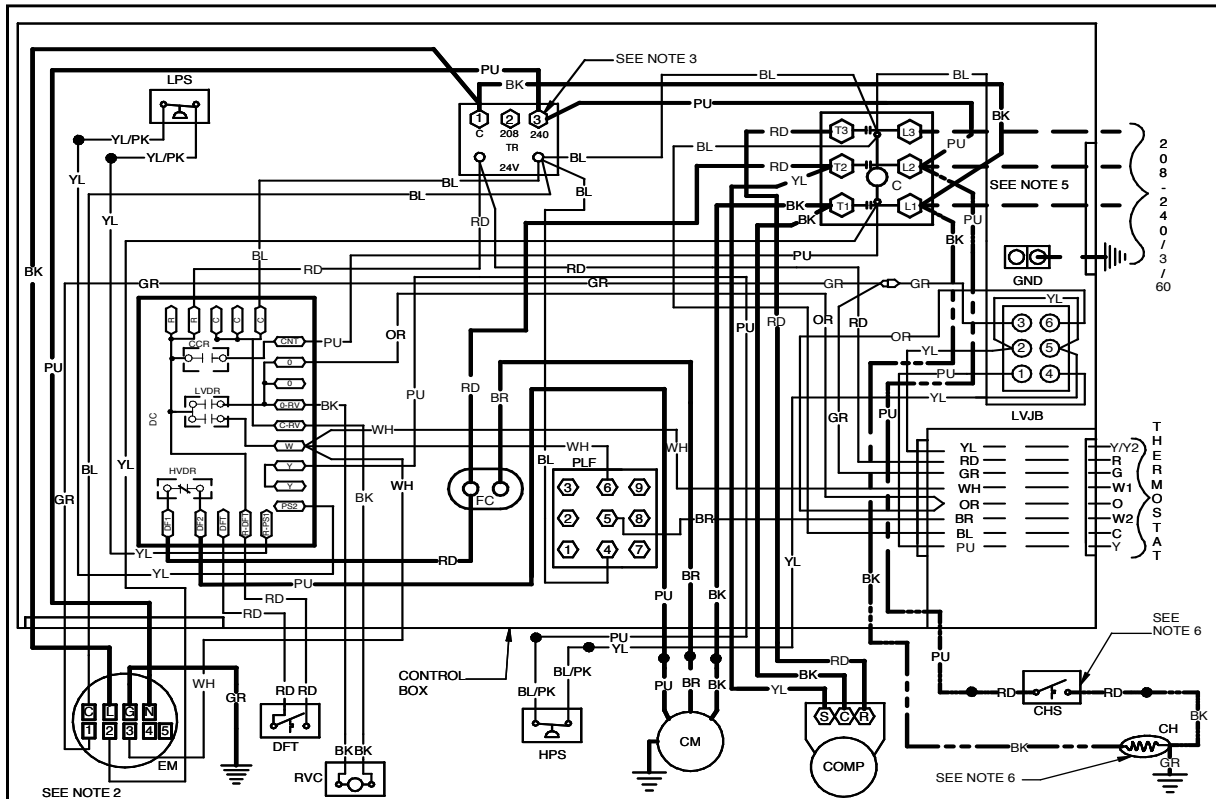
DIMENSIONS

| MODEL | W" | D" | H" | B | H |
|------------|----|----|------------------|-----|--------------------|
| DP13HM3643 | 47 | 51 | 34 $\frac{3}{4}$ | 16" | 32 $\frac{1}{2}$ " |
| DP13HM4843 | 47 | 51 | 42 $\frac{3}{4}$ | 18" | 40" |
| DP13HM6043 | 47 | 51 | 42 $\frac{3}{4}$ | 18" | 40" |

FILTERS

| MODEL | DIMENSIONS | QTY. |
|-------------------------------------|----------------|------|
| DP13HMMFR102 (for medium models) | 16" x 25" x 2" | 1 |
| DP13HMMFR103 (for large models) | 20" x 25" x 2" | 2 |

WIRING DIAGRAM — DP13HM36-6043**



| COMPONENT LEGEND | | FACTORY WIRING | | WIRE CODE | |
|------------------|----------------------------|----------------|-----------------------|-----------|--------|
| C | CONTACTOR | — | LINE VOLTAGE | BK | BLACK |
| CCR | COMPRESSOR CONTACTOR RELAY | — | LOW VOLTAGE | BL | BLUE |
| CH | CRANKCASE HEATER | --- | OPTIONAL HIGH VOLTAGE | BR | BROWN |
| CHS | CRANKCASE HEATER SWITCH | --- | FIELD WIRING | GR | GREEN |
| CM | CONDENSER MOTOR | --- | HIGH VOLTAGE | OR | ORANGE |
| COMP | COMPRESSOR | --- | LOW VOLTAGE | PU | PURPLE |
| DC | DEFROST CONTROL | --- | | RD | RED |
| DFT | DEFROST THERMOSTAT | | | WH | WHITE |
| EM | EVAPORATOR MOTOR | | | YL | YELLOW |
| GND | EQUIPMENT GROUND | | | | |
| HVDR | HIGH VOLTAGE DEFROST RELAY | | | | |
| LPS | LOW PRESSURE SWITCH | | | | |
| LVDR | LOW VOLTAGE DEFROST RELAY | | | | |
| LVJB | LOW VOLTAGE JUNCTION BOX | | | | |
| PLF | FEMALE PLUG / CONNECTOR | | | | |
| RVC | REVERSING VALVE COIL | | | | |
| TR | TRANSFORMER | | | | |
| HPS | HIGH PRESSURE SWITCH | | | | |

- NOTES:**
- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
 - TO CHANGE EVAPORATOR MOTOR SPEED MOVE WHITE AND YELLOW LEADS FROM EM*2 AND *3 TO *4 AND *5. IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
 - FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
 - START ASSIST FACTORY EQUIPPED WHEN REQUIRED
 - USE COPPER CONDUCTORS ONLY
 - USE N.E.C. CLASS 2 WIRE
 - CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY INSTALLED OPTION
 - ECONOMIZER PLUG LOCATED IN THE RETURN AIR COMPARTMENT. REMOVE MALE PLUG, ATTACH FEMALE PLUG TO THE ECONOMIZER ACCESSORY.

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

ACCESSORIES

| ITEM | DESCRIPTION | FITS CHASSIS SIZE |
|----------------|---|-------------------|
| 20464501NGK | Horizontal Duct Cover | Medium |
| 20464502NGK | Horizontal Duct Cover | Large |
| DDNECNJPCHMM | Downflow Economizer | Medium |
| DDNECNJPCHML | Downflow Economizer | Large |
| DDNIFRPGA | Downflow Internal Filter Rack | All Sizes |
| DPHFRA | External Horizontal Filter Rack | All Sizes |
| DHZECNJPGCHM | Horizontal Economizer | Medium |
| DHZECNJPGCHL | Horizontal Economizer | Large |
| DDN25FDPGCHMM | 25% Manual Downflow Fresh Air Damper | Small & Med. |
| DDN25FDPGCHML | 25% Manual Downflow Fresh Air Damper | Large |
| DHZ25FDPGCHMM | 25% Manual Horizontal Fresh Air Damper | Medium |
| DHZ25FDPGCHML | 25% Manual Horizontal Fresh Air Damper | Large |
| DDN25MFDPGCHMM | 25% Motorized Downflow Fresh Air Damper | Small & Med. |
| DDN25MFDPGCHML | 25% Motorized Downflow Fresh Air Damper | Large |
| DHZ25MFDPGCHMM | 25% Motorized Horizontal Fresh Air Damper | Medium |
| DHZ25MFDPGCHML | 25% Motorized Horizontal Fresh Air Damper | Large |
| OT/EHR18-60 | Outdoor Thermostat and Emergency Heat Relay Kit | All Sizes |
| OT18-60A | Outdoor Thermostat Kit with Lockout Stat | All Sizes |
| D14CRBPGCHMA | Roof Curb | All Sizes |
| SQRPG101/102 | Square-to-Round Adapter w/ 16" Round for Downflow Application | Small & Med. |
| SQRPG103 | Square-to-Round Adapter w/ 18" Round for Downflow Application | Large |
| SQRPGH101/102 | Square-to-Round Adapters (16" x 14") | Small & Med. |
| SQRPGH103 | Square-to-Round Adapters (18" x 14") | Large |

NOTES