

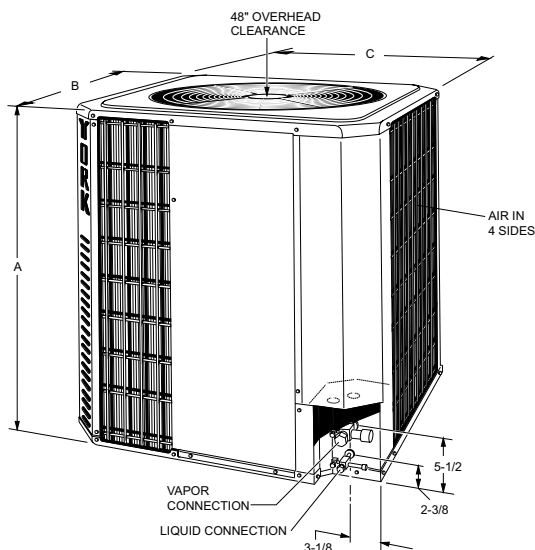
## Outdoor Split System Air Conditioner 1 Thru 5 Tons

MODELS: H\*DB012 THRU 060  
10 SEER

### PHYSICAL AND ELECTRICAL DATA - (1 Phase)

| MODELS                                    |                   | H4DB         | H4DB  | H4DB  | H4DB  | H4DB  | H4DB  | H5DB                | H4DB                |
|-------------------------------------------|-------------------|--------------|-------|-------|-------|-------|-------|---------------------|---------------------|
|                                           |                   | 012          | 018   | 024   | 030   | 036   | 042   | 048                 | 060                 |
| UNIT SUPPLY VOLTAGE                       |                   | 208/230-1-60 |       |       |       |       |       |                     |                     |
| NORMAL VOLTAGE RANGE <sup>1</sup>         |                   | 187 to 252   |       |       |       |       |       |                     |                     |
| MIN. CIRCUIT AMPACITY                     |                   | 10.8         | 13.0  | 15.2  | 16.9  | 23.0  | 27.2  | 31.9                | 37.6                |
| MAX. OVERCURRENT DEVICE AMPS <sup>2</sup> |                   | 15           | 20    | 25    | 25    | 35    | 40    | 50                  | 55                  |
| COMPRESSOR TYPE                           |                   | Recip        | Recip | Recip | Recip | Recip | Recip | Scroll <sup>3</sup> | Scroll <sup>3</sup> |
| COMPRESSOR AMPS                           | RATED LOAD        | 8.0          | 9.7   | 11.5  | 12.8  | 17.1  | 20.5  | 24.4                | 28.8                |
|                                           | LOCKED ROTOR      | 35.0         | 54.0  | 60.0  | 68.0  | 86.0  | 120   | 14.0                | 165                 |
| CRANKCASE HEATER                          |                   | NO           | NO    | NO    | NO    | YES   | YES   | NO                  | NO                  |
| FAN MOTOR AMPS                            | RATED LOAD        | 0.8          | 0.5   | 0.8   | 0.8   | 1.6   | 1.6   | 1.4                 | 1.6                 |
|                                           | LOCKED ROTOR      | 1.7          | 1.7   | 1.7   | 1.7   | 3.12  | 3.12  | 3.12                | 3.5                 |
| FAN DIAMETER INCHES                       |                   | 18           | 18    | 18    | 18    | 18    | 18    | 18                  | 24                  |
| FAN MOTOR                                 | RATED HP          | 1/8          | 1/12  | 1/8   | 1/8   | 1/4   | 1/4   | 1/4                 | 1/4                 |
|                                           | NOMINAL RPM       | 1075         | 1100  | 1075  | 1075  | 1100  | 1100  | 1100                | 850                 |
|                                           | NOMINAL CFM       | 1950         | 1850  | 1950  | 1950  | 2150  | 2200  | 2200                | 3000                |
| COIL                                      | FACE AREA SQ. FT. | 9.4          | 9.4   | 9.4   | 11.3  | 11.3  | 14.1  | 14.1                | 20.0                |
|                                           | ROWS DEEP         | 1            | 1     | 1     | 1     | 1     | 1     | 1                   | 1                   |
|                                           | FIN / INCH        | 16           | 16    | 16    | 18    | 18    | 18    | 16                  | 18                  |
| LIQUID LINE OD                            |                   | 3/8          | 3/8   | 3/8   | 3/8   | 3/8   | 3/8   | 3/8                 | 3/8                 |
| VAPOR LINE OD                             |                   | 5/8          | 5/8   | 5/8   | 3/4   | 3/4   | 7/8   | 7/8                 | 7/8                 |
| OPERATING WEIGHT LBS.                     |                   | 120          | 124   | 134   | 135   | 140   | 155   | 176                 | 210                 |

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker
3. Bristol Scroll



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

| UNIT MODEL<br>HDB | DIMENSIONS |        |        | REFRIGERANT CONNECTION<br>LINE SIZE |       |
|-------------------|------------|--------|--------|-------------------------------------|-------|
|                   | A          | B      | C      | LIQUID                              | VAPOR |
| 012               | 20-1/8     | 24     | 24     | 3/8                                 | 5/8   |
| 018               | 20-1/8     | 24     | 24     |                                     |       |
| 024               | 20-1/8     | 24     | 24     |                                     |       |
| 030               | 24-1/8     | 24     | 24     |                                     | 3/4   |
| 036               | 24-1/8     | 24     | 24     |                                     |       |
| 042               | 30-1/8     | 24     | 24     |                                     |       |
| 048               | 30-1/8     | 24     | 24     | 7/8                                 |       |
| 060               | 31-1/8     | 34-1/2 | 34-1/2 |                                     |       |

## R-22 SYSTEM CHARGING PROCEDURE

Additional R-22 Charge / Orifice Size for Various Matched Systems

| OUTDOOR UNITS                    | H4DB012                   | H4DB018                                 | H4DB024 | H4DB030    | H4DB036 | H4DB042  | H5DB048 | H4DB060    |  |
|----------------------------------|---------------------------|-----------------------------------------|---------|------------|---------|----------|---------|------------|--|
| UNIT ORIFICE(S) <sup>1</sup>     | 49, 51                    | 53, 55                                  | 59, 61  | 65, 67, 69 | 73, 75  | 73,78,81 | 81, 84  | 87, 90, 93 |  |
| FACTORY CHARGE, LBS. - OZ.       | 3 - 7                     | 3 - 14                                  | 3 - 10  | 4 - 7      | 4 - 9   | 5 - 9    | 6 - 0   | 8 - 0      |  |
| INDOOR COIL                      | COIL ORIFICE <sup>2</sup> | SYSTEM ORIFICE + ADDITIONAL CHARGE, OZ. |         |            |         |          |         |            |  |
| G1FA/G1UA024S14, 17              | 59                        | 49 + 8                                  | 53 + 2  | 59 + 2     | -       | -        | -       | -          |  |
| G1FA/G1UA030S14                  | 65                        | -                                       | 57 + 4  | 57 + 4     | 67 + 0  | -        | -       | -          |  |
| G1FA/G1UA036S14, 17, 21          | 73                        | -                                       | -       | 59 + 6     | 67 + 2  | 73 + 0   | -       | -          |  |
| G1FA/G1UA048S17                  | 84                        | -                                       | -       | -          | -       | 75 + 14  | 81 + 0  | -          |  |
| G1FA/G1UA048S21, 24              | 84                        | -                                       | -       | -          | -       | 75 + 21  | 81 + 5  | 84 + 6     |  |
| G1FA/G1UA060S21, 24              | 90                        | -                                       | -       | -          | -       | -        | -       | 84 + 6     |  |
| G1NA030S17H                      | 57                        | -                                       | 55 + 4  | 57 + 7     | -       | -        | -       | -          |  |
| G1NA030S17K                      | 63                        | -                                       | -       | -          | 67 + 4  | -        | -       | -          |  |
| G1NA036S17J                      | 67                        | -                                       | -       | -          | -       | 73 + 2   | -       | -          |  |
| G1NA036S21C                      | 67                        | -                                       | -       | -          | -       | 73 + 2   | -       | -          |  |
| G1NA048S21D                      | 78                        | -                                       | -       | -          | -       | 75 + 8   | 78 + 3  | 84 + 0     |  |
| G2FD024S(H)14, 17                | 61                        | 51 + 10                                 | 57 + 4  | 55 + 4     | -       | -        | -       | -          |  |
| G2FD030S(H)17                    | 65                        | -                                       | 57 + 6  | 59 + 6     | 67 + 2  | -        | -       | -          |  |
| G2FD035S(H)14                    | 65                        | -                                       | 57 + 6  | 59 + 5     | 67 + 0  | 73 + 0   | -       | -          |  |
| G2FD036S(H)17                    | 75                        | -                                       | -       | 59 + 10    | 67 + 6  | 73 + 3   | -       | -          |  |
| G2FD036S(H)21                    | 75                        | -                                       | -       | 59 + 10    | 67 + 8  | 73 + 5   | -       | -          |  |
| G2FD042S(H)21                    | 78                        | -                                       | -       | -          | -       | 75 + 8   | 81 + 1  | -          |  |
| G2FD046S(H)17                    | 78                        | -                                       | -       | -          | -       | 73 + 7   | 81 + 0  | 84 + 0     |  |
| G2FD048S(H)21, 24                | 84                        | -                                       | -       | -          | -       | 75 + 20  | 81 + 8  | 84 + 3     |  |
| G2FD060S(H)24                    | 90                        | -                                       | -       | -          | -       | -        | 81 + 13 | 84 + 6     |  |
| G2FD061H24                       | 90                        | -                                       | -       | -          | -       | -        | -       | 90 + 5     |  |
| G1HD024                          | 59                        | 49 + 8                                  | 55 + 5  | 59 + 18    | -       | -        | -       | -          |  |
| G1HD036                          | 69                        | -                                       | -       | 57 + 11    | 65 + 7  | 69 + 22  | -       | -          |  |
| G1HD048                          | 81                        | -                                       | -       | -          | -       | 75 + 14  | 78 + 5  | 81 + 2     |  |
| G1HD060                          | 93                        | -                                       | -       | -          | -       | -        | -       | 84 + 9     |  |
| F2RP018                          | 53                        | 49 + 5                                  | 53 + 0  | -          | -       | -        | -       | -          |  |
| F2RC024                          | 61                        | -                                       | 53 + 2  | 59 + 2     | -       | -        | -       | -          |  |
| F2RC030                          | 65                        | -                                       | -       | -          | 67 + 0  | -        | -       | -          |  |
| F2RC036                          | 73                        | -                                       | -       | -          | 67 + 2  | 73 + 0   | -       | -          |  |
| F2RC/F2RP/FP024                  | 61                        | -                                       | -       | 59 + 4     | -       | -        | -       | -          |  |
| F2RP/FP030                       | 65                        | -                                       | -       | 59 + 6     | 67 + 2  | -        | -       | -          |  |
| F2RP/FP036                       | 75                        | -                                       | -       | -          | -       | 75 + 6   | -       | -          |  |
| F2FP040                          | 63                        | -                                       | -       | 57 + 15    | -       | -        | -       | -          |  |
| F2RP/FP042                       | 78                        | -                                       | -       | -          | -       | 75 + 8   | 78 + 3  | -          |  |
| F2FP045                          | 78                        | -                                       | -       | -          | -       | 78 + 25  | -       | -          |  |
| F2FP048                          | 84                        | -                                       | -       | -          | -       | -        | 78 + 11 | 84 + 6     |  |
| F2FP060                          | 90                        | -                                       | -       | -          | -       | -        | -       | 84 + 8     |  |
| REFRIGERANT LINE ADDER OZ. / FT. | 0.66                      | 0.66                                    | 0.68    | 0.68       | 0.68    | 0.70     | 0.70    | 0.70       |  |

1. These orifices are packed in the instruction/warranty packet of each outdoor unit.
2. These orifices are factory-mounted in the flow control device of each indoor coil.

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
2. Verify the orifice size and the additional charge required for the specific evaporator coil in the system using the table above:
3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
4. Permanently mark the unit nameplate with the total system charge. Total System Charge=Base Charge (as shipped) +adder for evaporator +adder for line set.
5. If the orifice in the evaporator was changed verify the evaporator nameplate has been marked with the correct orifice size.

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035-17467-000 Rev D (1001)  
 Supersedes: 035-17467-000 Rev. C (1000)