



Coleman Technical Guide: HH8 Series - 18 SEER2 Horizontal Discharge Variable Speed Heat Pump

R-454B Single-Phase 2 nominal ton to 5 nominal ton



York International Corporation, 5005 York
Drive, Norman, OK 73069

6523475-CTG-A-0724

Supersedes: nothing

2024-07-15

Contents

| | |
|--|----|
| Description..... | 5 |
| Certification..... | 5 |
| Warranty summary..... | 6 |
| Features..... | 6 |
| Nomenclature..... | 7 |
| Physical and electrical data..... | 8 |
| Physical and electrical data notes..... | 8 |
| Dimensions..... | 9 |
| Dimensions notes..... | 9 |
| System charge table..... | 9 |
| System charge notes..... | 9 |
| Charging..... | 10 |
| Applications and accessories..... | 11 |
| Sound power rating cooling..... | 11 |
| Sound power rating heating..... | 11 |
| Mechanical specifications..... | 12 |
| Manufacture and certifications..... | 12 |
| Typical installation..... | 13 |
| Alternative installation clearances..... | 14 |
| Performance data - 2 ton..... | 15 |
| Cooling performance data - 2 ton..... | 15 |
| Cooling performance data notes..... | 15 |
| Heating performance data - 2 ton..... | 16 |
| Heating performance data notes..... | 16 |
| Performance data - 3 ton..... | 17 |
| Cooling performance data - 3 ton..... | 17 |
| Cooling performance data notes..... | 17 |
| Heating performance data - 3 ton..... | 18 |
| Heating performance data notes..... | 18 |
| Performance data - 4 ton..... | 19 |
| Cooling performance data - 4 ton..... | 19 |
| Cooling performance data notes..... | 19 |
| Heating performance data - 4 ton..... | 20 |
| Heating performance data notes..... | 20 |
| Performance data - 5 ton..... | 21 |
| Cooling performance data - 5 ton..... | 21 |
| Cooling performance data notes..... | 21 |
| Heating performance data - 5 ton..... | 22 |
| Heating performance data notes..... | 22 |
| Third-party trademarks notice..... | 22 |

Description

HH8 horizontal discharge variable speed heat pumps are the outdoor section of a high-efficiency heating and cooling system. The outdoor units are designed to be connected to a matching indoor coil with sweat connect lines. Match each HH8 unit with one ducted indoor unit. This unit is not designed for application in a ductless configuration. Sweat connect units are factory charged with refrigerant for a nominal sized matching indoor coil plus 15 ft of field-supplied lines.

Figure 1: Installation certification map

For installation in all US regions and Canada*



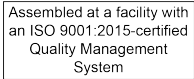
*Not currently certified for installation in localities requiring hurricane certification. Check local codes for specific requirements.

Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.simplygettingthejobdone.com and www.colemanac.com.

Additional rating information can be found at www.ahridirectory.org.

Certification



Warranty summary

Extended 10-year limited parts warranty.

Extended 10-year limited compressor warranty.

Extended parts and compressor warranties require online registration within 90 days of purchase for replacement or closing for new home construction.

The warranty does not apply to R-22 models, R410A models, three-phase models, or internet sales.

See the *Limited Warranty* certificate in the *User's Information Manual* for details.

Features

- **360 DC inverter driven technology:** With 360 DC inverter driven technology, compressor rotation direction and speed is controlled, optimizing energy usage and compressor stability through the range of operating conditions. This guarantees optimal space temperature control while providing quiet operation.
- **Pressure sensor:** This unit contains pressure sensing technology, which detects low pressure in cooling mode and high pressure in heating mode to protect the system from damage. Intelligent control can also be achieved by calculating the indoor coil temperature from system suction pressure.
- **Smaller outdoor form factor for installation flexibility:** This side-discharge outdoor unit saves roughly 35% space over traditional air conditioners. It offers the flexibility of wall, yard, or roof installation.
- **Stable temperature control means optimal comfort:** The DC inverter is able to provide full capacity at startup to cool or warm quickly and adjusts speed to prevent temperature fluctuation and energy loss.
- **Agency listed:** Safety certified by UL 60335-2-40:2022 Ed.4 and CSA C22.2#60335-2-40:2022 Ed.4. Performance certified to ANSI/AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.

Nomenclature

Table 1: Horizontal discharge AC and HP nomenclature

| Number | Category | Option | Description |
|--------|------------------|--------|--|
| 1 | Configuration | H | Horizontal discharge |
| 2 | Product type | C | Air conditioner |
| | | H | Heat pump |
| 3 | Efficiency | 3 | 13 SEER2 |
| | | 4 | 14 SEER2 |
| | | 5 | 15 SEER2 |
| | | 6 | 16 SEER2 |
| | | 7 | 17 SEER2 |
| | | 8 | 18 SEER2 |
| | | 9 | 19 SEER2 |
| 4, 5 | Capacity | 12 | 1 ton |
| | | 18 | 1.5 ton |
| | | 24 | 2 ton |
| | | 30 | 2.5 ton |
| | | 34 | 3 ton |
| | | 36 | 3 ton |
| | | 42 | 3.5 ton |
| | | 48 | 4 ton |
| 6 | Refrigerant | D | TBC |
| | | E | R-454B |
| 7 | Voltage | 2 | 208/230-1-60 |
| | | 3 | 208/230-3-60 |
| | | 4 | 460-3-60 |
| | | 5 | 575-3-60 |
| 8 | Control strategy | C | Communicating |
| | | B | Wireless (communicating) |
| | | S | Standard (conventional) |
| | | W | Wireless (conventional) |
| 9 | Factory option | 1 | Standard (no options) |
| | | 2 | Hard start kit |
| | | 3 | Coastal condenser coil |
| | | 4 | Coastal condenser coil with hard start kit |
| 10 | Generation | 1 | First generation |
| | | 2 | Second generation |
| 11 | Style | A | Style A |
| | | B | Style B |

Table 2: Model nomenclature example

| Number | 1 | 2 | 3 | 4, 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--------|---|---|---|------|---|---|---|---|----|----|
| Option | H | H | 8 | 24 | E | 2 | S | 1 | 1 | A |

Physical and electrical data

Table 3: Physical and electrical data

| Outdoor unit model | HH824E2S11 | HH836E2S11 | HH860E2S11 |
|--|---------------------------|-------------|-------------|
| Unit supply voltage | 208/230 V, 1 phase, 60 Hz | | |
| Normal voltage range ¹ (V) | 187 — 252 | | |
| Minimum circuit ampacity (A) | 24 | 28 | 37 |
| Maximum overcurrent device ² (A) | 35 | 35 | 45 |
| Compressor type | Twin rotary | Twin rotary | Twin rotary |
| Compressor rated load | 16.8 | 19.0 | 27.0 |
| Crankcase heater | Yes | Yes | Yes |
| Base pan heater | Yes | Yes | Yes |
| Fan diameter (in.) | 21.89 | 24.4 | 21.85 |
| Fan motor rated HP | 1/7 | 1/3 | 1/5 |
| Fan motor rated load (A) | 0.80 | 1.50 | 1.00 |
| Fan motor nominal RPM | 870 | 850 | 880 |
| Fan motor nominal CFM | 2235 | 3350 | 4820 |
| Coil face area (sq. ft.) | 7.49 | 10.76 | 14.87 |
| Coil rows deep | 2 | 2 | 2.6 |
| Coil fins per inch | 17 | 18 | 18 |
| Liquid refrigerant piping outdoor unit (field installed) | 3/8 | 3/8 | 3/8 |
| Vapor refrigerant piping outdoor unit (field installed) ^{3,4} | 5/8 | 3/4 | 7/8 |
| Unit charge (lb-oz) | 5-01 | 7-07 | 11-00 |
| Charge (oz/ft) | 0.54 | 0.57 | 0.6 |
| Operating weight (lb) | 116.8 | 185.2 | 244.7 |

Physical and electrical data notes

1. Rated in accordance with AHRI Standard 110-2016, utilization range A.
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. For applications with non-standard vapor line sizes, see [Applications and accessories](#).
4. The unit charge provided is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant piping. For refrigerant piping lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

Dimensions

Table 4: Dimensions

| Unit model | Dimensions (in.) | | | Refrigerant connection service valve (in.) | |
|------------|------------------|--------|--------|--|-------|
| | A | B | C | Liquid | Vapor |
| HH824E2S11 | 29 1/2 | 35 3/7 | 13 2/5 | 3/8 | 5/8 |
| HH836E2S11 | 34 4/9 | 43 1/3 | 17 5/7 | | 3/4 |
| HH860E2S11 | 57 1/2 | 38 2/5 | 13 | | 7/8 |

Dimensions notes

- All dimensions are in inches and are subject to change without notice.
- The overall height is from the bottom of the base pan to the top of the fan guard.
- The overall length and width include screw heads.

System charge table

Table 5: System charge table

| Outdoor unit model | HH824E2S11 | HH836E2S11 | HH860E2S11 |
|--------------------------|------------------------|------------|------------|
| Required metering device | 5A1 | 5C1 | 5C1 |
| Indoor coil model | Additional charge (oz) | | |
| JHC24*C | 0 | — | — |
| JHC36*D | 11.2 | 0 | — |
| JHC42*F | — | 1.6 | — |
| JHC48*G | — | — | -4.8* |
| JHC60*H | — | — | 0** |
| JHC60*J | — | — | 3.04 |
| JHE24*C | 0 | — | — |
| JHE30*D | 11.2 | — | — |
| JHE36*D | 11.2 | 0 | — |
| JHE42*F | — | 1.6 | — |
| JHE48*G | — | — | -4.8* |
| JHE60*H | — | — | 0** |
| JHE60*J | — | — | 3.04 |
| CT(F,M,U)30*C | 0 | — | — |
| CT(F,M)30*D | 11.2 | 0 | — |
| CT(F,M,U)36*D | 11.2 | 0 | — |
| CT(F,M,U)48*F | — | 1.6 | — |
| CT(F,M,U)60*G | — | — | -4.8* |
| CT(F,M,U)60*H | — | — | 0** |
| CT(F,M)60*J | — | — | 3.04 |

System charge notes

- For applications that require a TXV, use S1-1TVM5A1 or S1-1TVM5C1 per this table.
- Use a TXV kit with these indoor units to obtain system performance.
- Systems matched with furnaces or air handlers that are not equipped with blower-off delays may require blower time delay.
- Do not use CTF or CTU coils in horizontal applications.

- The charge adders shown in the table do not indicate that coils are rated for every application. Refer to the performance data tables in the Technical Guide for actual performance for specified system matches. Obtain certified system ratings from www.ahridirectory.org.
- All of the combinations shown in the table require advanced main air circulating fan indoor product.

Note:

*This row is a system match if the outdoor unit is configured as a 4 ton model.

**This row is a system match if the outdoor unit is configured as a 4 ton or 5 ton model.

Charging

1. Check the unit factory charge listed on the unit nameplate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and 15 ft of interconnecting line tubing.
2. Verify the TXV and additional charge required for the specific matched indoor unit in the system using [Table 5](#).
3. Add additional charge for the amount of interconnecting line tubing greater than 15 ft at the rate specified in [Table 3](#).
4. For indoor matches requiring additional charge, weigh in the refrigerant for the specific matched indoor unit and the actual lineset length.
5. After weighing in the charge adders for the matched indoor unit and lineset, verify the system operation against the temperatures and pressures in the charging chart for the outdoor unit. Locate the charging charts on the outdoor unit and also in the *Service Data Application Guide* at www.simplygettingthejobdone.com. Follow the charging procedure in the *Installation Manual* according to the type of indoor metering device in the system, and allow 10 min after each charge adjustment for the system operation to stabilize. Record the charge adjustment made to match the charging chart.
6. For downflow installations and horizontal right installations, some indoor units require additional charging adjustments to ensure correct equipment operation. Refer to the *Installation Manual* for the outdoor unit.
7. Permanently stamp the unit nameplate with the total system charge, which is defined as follows: total system charge = base charge (as shipped) + charge adder for matched indoor unit + charge adder for actual lineset length + charge adjustments to match the charging chart.

Applications and accessories

Table 6: Minimum and maximum operating limit conditions

| Ambient temperature limits | Outdoor coil °F (°C) | |
|----------------------------|----------------------|-----------|
| | DB cool | DB heat |
| Minimum | 35 (2) | -13 (-25) |
| Maximum | 125 (52) | 75 (24) |

- ① **Note:** The maximum refrigerant piping equivalent length is 131 ft for HH824E2S11 units, 148 ft for HH836E2S11 units, and 246 ft for HH860E2S11 units.

The following accessories are compatible with H Series heat pumps:

TXV kits (S1-1TVM*): For applications that require a TXV, use S1-1TVM5A1 or S1-1TVM5C1. See [Table 5](#).

Filter drier: Use a field-supplied R-454B bi-flow liquid-line filter drier.

Sound power rating cooling

Table 7: Sound power data- stage 2- cooling - octave band sound power level (db re. 1-pW)

| Outdoor unit model | Power level 63 (Hz) | Power level 125 (Hz) | Power level 250 (Hz) | Power level 500 (Hz) | Power level 1000 (Hz) | Power level 2000 (Hz) | Power level 4000 (Hz) | Power level 8000 (Hz) | dBA | SQI |
|--------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|------|
| HH824E2S11 | 65 | 64 | 63 | 62 | 60 | 56 | 49 | 57 | 65 | 19.1 |
| HH836E2S11 | 70 | 70 | 70 | 68 | 65 | 59 | 53 | 47 | 70 | 19.1 |
| HH860E2S11 | 71 | 75 | 71 | 70 | 66 | 60 | 57 | 54 | 71 | 19.0 |

Sound power rating heating

Table 8: Sound power data- stage 2- heating - octave band sound power level (db re. 1-pW)

| Outdoor unit model | Power level 63 (Hz) | Power level 125 (Hz) | Power level 250 (Hz) | Power level 500 (Hz) | Power level 1000 (Hz) | Power level 2000 (Hz) | Power level 4000 (Hz) | Power level 8000 (Hz) | dBA | SQI |
|--------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|------|
| HH824E2S11 | 71 | 69 | 64 | 64 | 61 | 58 | 52 | 48 | 66 | 19.1 |
| HH836E2S11 | 71 | 68 | 70 | 67 | 64 | 58 | 54 | 49 | 69 | 19.1 |
| HH860E2S11 | 73 | 77 | 72 | 71 | 67 | 63 | 64 | 56 | 73 | 19.0 |

Mechanical specifications

Take note of the mechanical specifications outlined in the following sections.

Manufacture and certifications

- Units shall be assembled at a facility with an ISO 9001:2015-certified Quality Management System.
- Units shall be certified by UL 60335-2-40:2022 Ed.4 and CSA C22.2#60335-2-40:2022 Ed.4 and performance certified to ANSI/AHRI Standard 210/240.
- Units shall be sound tested according to ANSI/AHRI Standard 270.
- Certified matched system ratings will be available for download from the AHRI online directory at www.ahridirectory.org.

Unit application

- Units shall be approved for cooling operation between 35°F and 125°F without modification.
- Units shall be approved for heating operation between -13°F and 75°F without modification.
- Units shall be approved for linesets up to an equivalent length of 131 ft for HH824E2S11 units, 148 ft for HH836E2S11 units, and 246 ft for HH860E2S11 units without modification.
- Units shall be approved for installation at a minimum of 8 in. (long side) and 6 in. (short side) of a flat vertical wall without modification, according to the instructions in the technical literature. See [Figure 2](#).
- Units shall be designed to 73 dBA or less to minimize sound pollution.

Unit access

- Units shall be factory leak checked, run tested, and shipped with a holding charge of R-454B refrigerant.
- Unit cabinet components shall be G90 equivalent steel finished with powder-coat paint rated at a minimum of 1,000 h under ASTM B117 testing.
- Units shall be constructed with a high-pressure switch for system protection.
- Units shall be constructed with all badging and labels applied at the factory.

Unit components

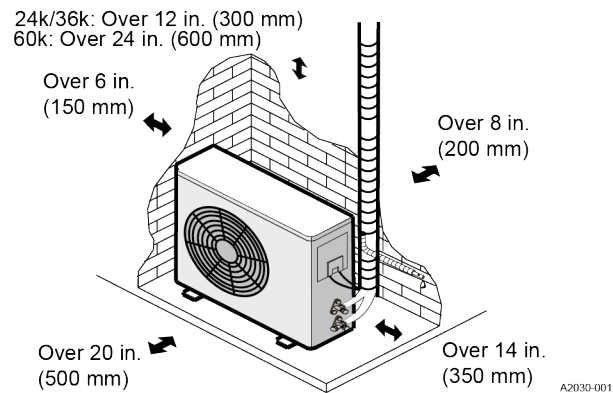
- Compressor shall be hermetic with internal electrical overload protection and internal overpressure protection.
- Compressor shall be mounted on neoprene vibration isolators that do not require the removal of transportation clips or brackets.
- Outdoor fan shall be direct drive with horizontal air discharge for low sound levels.
- Outdoor fan blades shall be swept-wing to minimize sound (applies to select models).
- Outdoor fan motor shall be totally enclosed with permanently lubricated ball bearings motors approved for vertical shaft applications.
- Outdoor fan motor shall be ECM construction with permanently lubricated ball bearing motors approved for vertical shaft applications.

Unit warranties

- Unit manufacturer shall provide a 5-year compressor warranty without a requirement for unit registration.

Typical installation

Figure 2: Minimum clearances when selecting a location



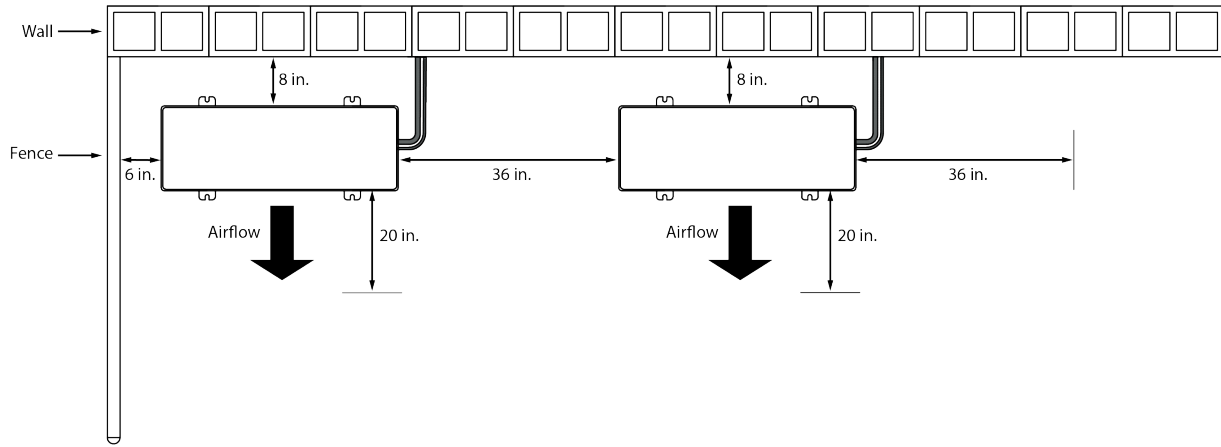
CAUTION

Caution

Take care to prevent ice from damaging the unit. Damage may occur from ice falling onto unit from a sloped roof or from a vertical drip line due to a partial overhang.

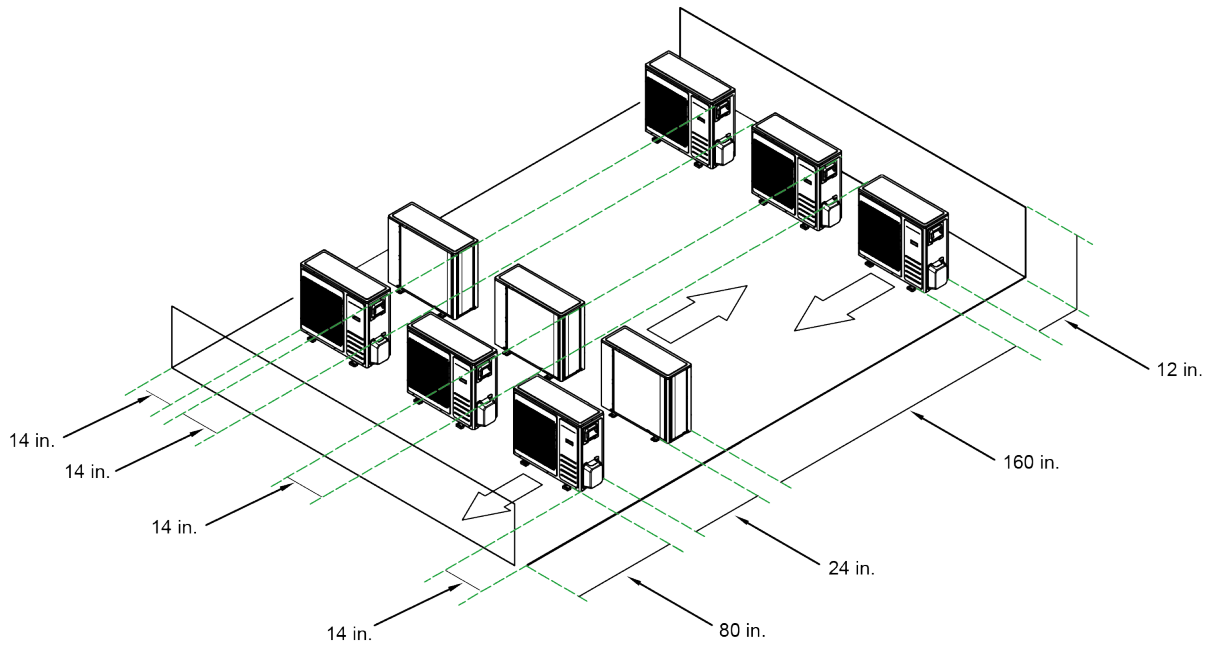
Alternative installation clearances

Figure 3: Alternative installation clearances



A2167-001

Figure 4: Alternative installation clearances for multiple units



A2163-001

Performance data - 2 ton

See the following tables for cooling and heating performance data for the HH824E2S11 unit.

Cooling performance data - 2 ton

Table 9: Cooling performance data - 2 ton

| Air temperature entering outdoor unit (°F) | Indoor CFM | 600 | | | | | 800 | | | | | 1000 | | | | | | | | | |
|--|-------------------|----------------------|------|------|------|------|----------------------|------|------|------|------|----------------------|------|------|------|------|----------------------|----|----|----|----|
| | | Indoor dry bulb (°F) | | | | | Indoor wet bulb (°F) | | | | | Indoor dry bulb (°F) | | | | | Indoor wet bulb (°F) | | | | |
| | | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 |
| 55 | Total capacity | 22.4 | 25.6 | 25.9 | 28.5 | 31.6 | 25.1 | 26.8 | 26.9 | 29.5 | 32.5 | 27.9 | 28.0 | 28.1 | 30.5 | 33.4 | | | | | |
| | Sensible capacity | 22.4 | 22.3 | 19.1 | 19.1 | 15.9 | 25.1 | 25.0 | 20.8 | 20.7 | 16.5 | 27.9 | 27.8 | 22.6 | 22.4 | 17.1 | | | | | |
| | kW | 0.95 | 1.11 | 1.11 | 1.09 | 1.07 | 1.12 | 1.20 | 1.21 | 1.19 | 1.17 | 1.27 | 1.27 | 1.28 | 1.26 | 1.24 | | | | | |
| 65 | Total capacity | 22.3 | 24.9 | 25.1 | 27.6 | 30.4 | 24.6 | 26.0 | 26.0 | 28.5 | 31.3 | 27.0 | 27.2 | 27.0 | 29.5 | 32.2 | | | | | |
| | Sensible capacity | 22.3 | 21.8 | 18.4 | 18.7 | 14.9 | 24.6 | 24.4 | 20.3 | 20.5 | 15.8 | 27.0 | 27.1 | 22.3 | 22.3 | 16.8 | | | | | |
| | kW | 1.16 | 1.27 | 1.28 | 1.28 | 1.26 | 1.31 | 1.37 | 1.38 | 1.38 | 1.36 | 1.44 | 1.45 | 1.46 | 1.45 | 1.44 | | | | | |
| 75 | Total capacity | 22.2 | 24.3 | 24.4 | 26.6 | 29.3 | 24.1 | 25.3 | 25.1 | 27.6 | 30.1 | 26.1 | 26.4 | 25.9 | 28.5 | 31.1 | | | | | |
| | Sensible capacity | 22.2 | 21.4 | 17.7 | 18.3 | 13.8 | 24.1 | 23.8 | 19.9 | 20.2 | 15.1 | 26.1 | 26.3 | 22.1 | 22.2 | 16.5 | | | | | |
| | kW | 1.37 | 1.44 | 1.44 | 1.46 | 1.45 | 1.50 | 1.54 | 1.55 | 1.57 | 1.56 | 1.61 | 1.62 | 1.65 | 1.65 | 1.64 | | | | | |
| 85 | Total capacity | 21.5 | 23.3 | 23.1 | 25.6 | 28.2 | 23.3 | 24.3 | 24.0 | 26.4 | 28.9 | 25.2 | 25.3 | 24.9 | 27.3 | 29.8 | | | | | |
| | Sensible capacity | 21.5 | 20.8 | 17.3 | 17.7 | 13.8 | 23.3 | 23.3 | 19.3 | 19.6 | 14.9 | 25.2 | 25.3 | 21.4 | 21.5 | 16.1 | | | | | |
| | kW | 1.59 | 1.63 | 1.64 | 1.66 | 1.66 | 1.71 | 1.74 | 1.75 | 1.77 | 1.77 | 1.82 | 1.83 | 1.84 | 1.85 | 1.86 | | | | | |
| 95 | Total capacity | 20.8 | 22.4 | 21.9 | 24.6 | 27.1 | 22.5 | 23.2 | 22.9 | 25.3 | 27.8 | 24.3 | 24.2 | 23.9 | 26.1 | 28.4 | | | | | |
| | Sensible capacity | 20.8 | 20.2 | 16.9 | 17.1 | 13.7 | 22.5 | 22.7 | 18.7 | 18.9 | 14.6 | 24.3 | 24.2 | 20.7 | 20.8 | 15.6 | | | | | |
| | kW | 1.81 | 1.83 | 1.83 | 1.85 | 1.88 | 1.93 | 1.94 | 1.94 | 1.97 | 1.99 | 2.04 | 2.04 | 2.03 | 2.06 | 2.07 | | | | | |
| 105 | Total capacity | 19.3 | 20.4 | 20.1 | 23.3 | 24.8 | 20.6 | 21.2 | 21.1 | 23.6 | 25.5 | 22.2 | 22.1 | 22.2 | 24.1 | 26.1 | | | | | |
| | Sensible capacity | 19.3 | 18.2 | 15.5 | 16.0 | 12.5 | 20.6 | 20.2 | 17.1 | 17.6 | 13.3 | 22.2 | 22.1 | 18.7 | 19.3 | 14.3 | | | | | |
| | kW | 2.01 | 2.02 | 2.02 | 2.18 | 2.09 | 2.17 | 2.17 | 2.17 | 2.34 | 2.20 | 2.27 | 2.27 | 2.27 | 2.43 | 2.29 | | | | | |
| 115 | Total capacity | 17.7 | 18.3 | 18.3 | 21.9 | 22.5 | 18.7 | 19.1 | 19.3 | 21.9 | 23.1 | 20.0 | 19.9 | 20.5 | 22.0 | 23.8 | | | | | |
| | Sensible capacity | 17.6 | 16.2 | 14.0 | 14.9 | 11.2 | 18.4 | 17.6 | 15.4 | 16.3 | 12.0 | 19.3 | 19.1 | 16.7 | 17.8 | 13.0 | | | | | |
| | kW | 2.20 | 2.20 | 2.20 | 2.50 | 2.30 | 2.40 | 2.40 | 2.40 | 2.70 | 2.40 | 2.50 | 2.50 | 2.50 | 2.80 | 2.50 | | | | | |
| 125 | Total capacity | 12.2 | 12.3 | 12.5 | 15.8 | 15.3 | 12.9 | 12.8 | 13.4 | 15.5 | 15.8 | 13.6 | 13.5 | 14.4 | 15.2 | 16.3 | | | | | |
| | Sensible capacity | 12.2 | 12.3 | 12.0 | 13.1 | 9.3 | 12.9 | 12.8 | 13.0 | 14.2 | 10.1 | 13.6 | 13.5 | 14.0 | 15.2 | 11.1 | | | | | |
| | kW | 1.54 | 1.54 | 1.54 | 1.83 | 1.55 | 1.65 | 1.65 | 1.64 | 1.94 | 1.66 | 1.74 | 1.73 | 1.73 | 2.02 | 1.74 | | | | | |

Cooling performance data notes

- All capacities include indoor fan heat. kW values are for the system (outdoor + indoor).
- Drive output is limited in the shaded area. Performance may vary and interpolation is not permissible.

Heating performance data - 2 ton

Table 10: Heating performance data - 2 ton

| Heating performance | Outdoor ambient temperature | | | | | | | | | |
|---------------------|-----------------------------|------|------|------|------|------|------|------|------|------|
| | 60 | 47 | 35 | 30 | 17 | 10 | 5 | 0 | -5 | -10 |
| MBH | 26.6 | 24.0 | 21.8 | 20.8 | 18.4 | 17.6 | 17.0 | 16.7 | 13.8 | 12.9 |
| kW | 1.8 | 1.95 | 1.96 | 1.96 | 1.96 | 2.20 | 2.37 | 2.51 | 2.16 | 2.35 |
| COP | 4.36 | 3.60 | 3.26 | 3.12 | 2.75 | 2.34 | 2.10 | 1.95 | 1.88 | 1.61 |

Heating performance data notes

- Calculations are based on a nominal CFM and an indoor dry bulb temperature of 70°F.
- kW indicates total system power.
- The shaded area represents the AHRI rating conditions at an outdoor ambient temperature of 47°F.
- The performance data provided is only for reference and is derived from AHRI nominal data. In certain applications, actual performance may deviate from these values.

Performance data - 3 ton

See the following tables for cooling and heating performance data for the HH836E2S11 unit.

Cooling performance data - 3 ton

Table 11: Cooling performance data - 3 ton

| Air temperature entering outdoor unit (°F) | Indoor CFM | 850 | | | | | 1125 | | | | | 1400 | | | | |
|--|-------------------|----------------------|------|------|------|------|----------------------|------|------|------|------|----------------------|------|------|------|------|
| | | Indoor dry bulb (°F) | | | | | Indoor dry bulb (°F) | | | | | Indoor dry bulb (°F) | | | | |
| | | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 |
| | | Indoor wet bulb (°F) | | | | | Indoor wet bulb (°F) | | | | | Indoor wet bulb (°F) | | | | |
| | | 57 | 62 | 62 | 67 | 72 | 57 | 62 | 62 | 67 | 72 | 57 | 62 | 62 | 67 | 72 |
| 55 | Total capacity | 28.7 | 35.9 | 37.2 | 39.2 | 43.8 | 33.5 | 37.8 | 39.4 | 41.4 | 46.4 | 38.6 | 39.9 | 41.8 | 43.8 | 49.1 |
| | Sensible capacity | 28.7 | 29.8 | 26.3 | 25.9 | 20.8 | 33.5 | 34.0 | 29.8 | 29.0 | 22.8 | 38.6 | 38.5 | 33.4 | 32.2 | 25.1 |
| | kW | 1.21 | 1.62 | 1.63 | 1.59 | 1.56 | 1.53 | 1.73 | 1.74 | 1.70 | 1.66 | 1.79 | 1.78 | 1.79 | 1.75 | 1.71 |
| 65 | Total capacity | 30.1 | 35.0 | 35.6 | 38.6 | 42.4 | 33.8 | 37.2 | 37.7 | 40.8 | 44.5 | 37.6 | 39.6 | 40.0 | 43.1 | 46.7 |
| | Sensible capacity | 30.1 | 29.7 | 25.7 | 25.6 | 20.4 | 33.8 | 33.9 | 29.0 | 28.7 | 22.3 | 37.6 | 38.3 | 32.5 | 32.1 | 24.3 |
| | kW | 1.59 | 1.87 | 1.87 | 1.85 | 1.82 | 1.85 | 1.98 | 1.98 | 1.96 | 1.94 | 2.04 | 2.04 | 2.05 | 2.02 | 1.99 |
| 75 | Total capacity | 31.6 | 34.0 | 34.0 | 38.1 | 41.0 | 34.0 | 36.5 | 36.0 | 40.1 | 42.6 | 36.7 | 39.2 | 38.2 | 42.3 | 44.3 |
| | Sensible capacity | 31.3 | 29.5 | 25.0 | 25.3 | 20.0 | 34.0 | 33.7 | 28.2 | 28.5 | 21.7 | 36.7 | 38.1 | 31.6 | 31.9 | 23.6 |
| | kW | 1.97 | 2.11 | 2.10 | 2.10 | 2.09 | 2.16 | 2.23 | 2.23 | 2.23 | 2.21 | 2.29 | 2.30 | 2.30 | 2.29 | 2.27 |
| 85 | Total capacity | 29.2 | 32.4 | 32.9 | 35.7 | 38.9 | 32.2 | 34.3 | 34.3 | 37.2 | 40.8 | 35.5 | 36.5 | 36.0 | 39.0 | 43.0 |
| | Sensible capacity | 29.2 | 28.9 | 24.3 | 24.2 | 19.2 | 32.2 | 32.6 | 27.6 | 27.2 | 20.9 | 35.5 | 36.5 | 31.1 | 30.3 | 22.9 |
| | kW | 2.29 | 2.39 | 2.38 | 2.40 | 2.39 | 2.47 | 2.52 | 2.51 | 2.52 | 2.52 | 2.59 | 2.59 | 2.58 | 2.59 | 2.59 |
| 95 | Total capacity | 26.9 | 30.8 | 31.7 | 33.2 | 36.8 | 30.5 | 32.2 | 32.7 | 34.3 | 39.1 | 34.3 | 33.8 | 33.9 | 35.6 | 41.6 |
| | Sensible capacity | 26.9 | 28.2 | 23.6 | 23.1 | 18.3 | 30.5 | 31.4 | 27.0 | 25.8 | 20.2 | 34.3 | 33.8 | 30.7 | 28.8 | 22.2 |
| | kW | 2.61 | 2.67 | 2.66 | 2.69 | 2.70 | 2.77 | 2.80 | 2.79 | 2.82 | 2.83 | 2.89 | 2.88 | 2.87 | 2.90 | 2.90 |
| 105 | Total capacity | 26.3 | 29.4 | 27.1 | 30.6 | 35.0 | 29.1 | 30.3 | 28.9 | 31.8 | 37.2 | 32.1 | 31.4 | 31.1 | 33.4 | 39.5 |
| | Sensible capacity | 26.3 | 26.6 | 20.9 | 22.2 | 17.9 | 29.1 | 28.8 | 24.4 | 24.5 | 19.8 | 31.6 | 31.2 | 28.2 | 27.0 | 22.0 |
| | kW | 3.11 | 3.19 | 2.83 | 3.05 | 3.25 | 3.29 | 3.30 | 3.15 | 3.26 | 3.42 | 3.45 | 3.34 | 3.44 | 3.35 | 3.50 |
| 115 | Total capacity | 25.7 | 28.0 | 22.4 | 27.9 | 33.2 | 27.7 | 28.4 | 25.1 | 29.3 | 35.2 | 29.9 | 29.0 | 28.2 | 31.1 | 37.4 |
| | Sensible capacity | 25.1 | 25.0 | 18.1 | 21.2 | 17.4 | 26.7 | 26.1 | 21.7 | 23.2 | 19.4 | 28.5 | 27.5 | 25.6 | 25.2 | 21.8 |
| | kW | 3.60 | 3.70 | 3.00 | 3.40 | 3.80 | 3.80 | 3.80 | 3.50 | 3.70 | 4.00 | 4.00 | 3.80 | 4.00 | 3.80 | 4.10 |
| 125 | Total capacity | 16.3 | 17.1 | 10.2 | 15.7 | 20.1 | 16.9 | 16.8 | 12.9 | 16.9 | 21.3 | 17.6 | 16.7 | 15.8 | 18.3 | 22.7 |
| | Sensible capacity | 16.3 | 17.0 | 10.2 | 15.0 | 12.5 | 16.9 | 16.8 | 12.9 | 15.9 | 14.1 | 17.6 | 16.7 | 15.8 | 17.0 | 16.0 |
| | kW | 1.93 | 1.99 | 1.40 | 1.71 | 2.05 | 2.06 | 2.02 | 1.79 | 1.89 | 2.18 | 2.13 | 2.01 | 2.13 | 2.01 | 2.25 |

Cooling performance data notes

- All capacities include indoor fan heat. kW values are for the system (outdoor + indoor).
- Drive output is limited in the shaded area. Performance may vary and interpolation is not permissible.

Heating performance data - 3 ton

Table 12: Heating performance data - 3 ton

| Heating performance | Outdoor ambient temperature | | | | | | | | | |
|---------------------|-----------------------------|------|------|------|------|------|------|------|------|------|
| | 60 | 47 | 35 | 30 | 17 | 10 | 5 | 0 | -5 | -10 |
| MBH | 36.0 | 32.4 | 30.1 | 29.1 | 26.6 | 25.8 | 25.2 | 24.0 | 22.7 | 19.3 |
| kW | 2.6 | 2.71 | 2.85 | 2.91 | 3.06 | 3.33 | 3.52 | 3.70 | 3.89 | 3.58 |
| COP | 4.05 | 3.50 | 3.09 | 2.93 | 2.54 | 2.27 | 2.10 | 1.90 | 1.71 | 1.58 |

Heating performance data notes

- Calculations are based on a nominal CFM and an indoor dry bulb temperature of 70°F.
- kW indicates total system power.
- The shaded area represents the AHRI rating conditions at an outdoor ambient temperature of 47°F.
- The performance data provided is only for reference and is derived from AHRI nominal data. In certain applications, actual performance may deviate from these values.

Performance data - 4 ton

You can configure the HH860E2S11 unit as a 4 ton model by adjusting the DIP switch settings. See the following tables for cooling and heating performance data for the HH860E2S11 unit configured as a 4 ton model.

Cooling performance data - 4 ton

Table 13: Cooling performance data - 4 ton - adjust DIP switch setting on 60k to configure 48k

| Air temperature entering outdoor unit (°F) | Indoor CFM | 1200 | | | | | 1600 | | | | | 2000 | | | | |
|--|-------------------|----------------------|------|----------------------|------|------|----------------------|------|----------------------|------|------|----------------------|------|----------------------|------|------|
| | | Indoor dry bulb (°F) | | Indoor wet bulb (°F) | | | Indoor dry bulb (°F) | | Indoor wet bulb (°F) | | | Indoor dry bulb (°F) | | Indoor wet bulb (°F) | | |
| | | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 |
| 55 | Total capacity | 36.0 | 43.9 | 42.0 | 49.5 | 51.0 | 41.1 | 49.2 | 47.8 | 56.9 | 53.9 | 45.9 | 54.2 | 53.3 | 64.0 | 56.5 |
| | Sensible capacity | 35.4 | 36.3 | 30.4 | 31.3 | 24.8 | 40.5 | 42.2 | 34.7 | 35.7 | 25.9 | 45.2 | 47.9 | 38.9 | 39.8 | 26.8 |
| | kW | 1.80 | 2.12 | 2.10 | 2.24 | 2.20 | 2.19 | 2.38 | 2.37 | 2.43 | 2.39 | 2.67 | 2.73 | 2.73 | 2.70 | 2.67 |
| 65 | Total capacity | 36.6 | 43.2 | 42.5 | 47.1 | 50.7 | 41.1 | 47.1 | 47.0 | 52.8 | 53.6 | 45.3 | 50.7 | 51.2 | 58.2 | 56.3 |
| | Sensible capacity | 35.7 | 35.7 | 29.6 | 30.1 | 23.6 | 40.2 | 40.7 | 33.6 | 34.0 | 25.4 | 44.4 | 45.5 | 37.3 | 37.7 | 26.8 |
| | kW | 2.19 | 2.50 | 2.49 | 2.56 | 2.53 | 2.56 | 2.73 | 2.73 | 2.75 | 2.73 | 3.02 | 3.05 | 3.05 | 3.03 | 3.01 |
| 75 | Total capacity | 37.1 | 42.5 | 43.1 | 44.6 | 50.4 | 41.0 | 45.0 | 46.2 | 48.6 | 53.4 | 44.7 | 47.3 | 49.1 | 52.3 | 56.1 |
| | Sensible capacity | 36.0 | 35.0 | 28.9 | 28.8 | 22.5 | 39.9 | 39.2 | 32.5 | 32.4 | 24.8 | 43.5 | 43.2 | 35.8 | 35.7 | 26.9 |
| | kW | 2.58 | 2.88 | 2.88 | 2.89 | 2.87 | 2.93 | 3.08 | 3.08 | 3.08 | 3.06 | 3.36 | 3.37 | 3.37 | 3.36 | 3.35 |
| 85 | Total capacity | 35.9 | 41.2 | 40.5 | 43.1 | 48.4 | 39.8 | 44.8 | 44.3 | 47.9 | 53.9 | 43.3 | 48.1 | 47.8 | 52.4 | 59.2 |
| | Sensible capacity | 34.8 | 34.8 | 28.7 | 29.0 | 22.0 | 38.6 | 39.5 | 32.5 | 33.3 | 24.6 | 42.1 | 44.0 | 36.0 | 37.3 | 27.0 |
| | kW | 2.89 | 3.21 | 3.21 | 3.23 | 3.14 | 3.27 | 3.42 | 3.42 | 3.44 | 3.40 | 3.73 | 3.72 | 3.72 | 3.74 | 3.74 |
| 95 | Total capacity | 34.8 | 39.9 | 38.0 | 41.6 | 46.4 | 38.5 | 44.6 | 42.4 | 47.1 | 54.5 | 41.9 | 49.0 | 46.5 | 52.4 | 62.3 |
| | Sensible capacity | 33.7 | 34.6 | 28.5 | 29.2 | 21.6 | 37.3 | 39.8 | 32.5 | 34.2 | 24.5 | 40.7 | 44.7 | 36.2 | 38.9 | 27.1 |
| | kW | 3.21 | 3.54 | 3.55 | 3.57 | 3.42 | 3.60 | 3.76 | 3.77 | 3.80 | 3.74 | 4.09 | 4.08 | 4.07 | 4.12 | 4.13 |
| 105 | Total capacity | 32.1 | 35.9 | 34.7 | 39.4 | 46.4 | 36.3 | 40.2 | 39.0 | 44.8 | 52.6 | 40.0 | 44.2 | 42.8 | 49.9 | 58.5 |
| | Sensible capacity | 30.7 | 31.3 | 26.3 | 27.8 | 21.6 | 34.7 | 35.6 | 30.0 | 32.8 | 23.7 | 38.4 | 39.7 | 33.3 | 37.4 | 25.5 |
| | kW | 3.41 | 3.67 | 3.68 | 3.89 | 4.21 | 4.00 | 3.98 | 4.04 | 4.30 | 4.52 | 4.65 | 4.39 | 4.49 | 4.76 | 4.92 |
| 115 | Total capacity | 29.4 | 31.8 | 31.4 | 37.2 | 46.3 | 34.0 | 35.8 | 35.5 | 42.5 | 50.7 | 38.1 | 39.4 | 39.1 | 47.4 | 54.6 |
| | Sensible capacity | 27.6 | 28.0 | 24.1 | 26.3 | 21.5 | 32.0 | 31.4 | 27.4 | 31.3 | 22.9 | 36.1 | 34.6 | 30.3 | 35.8 | 23.9 |
| | kW | 3.60 | 3.80 | 3.80 | 4.20 | 5.00 | 4.40 | 4.20 | 4.30 | 4.80 | 5.30 | 5.20 | 4.70 | 4.90 | 5.40 | 5.70 |
| 125 | Total capacity | 16.7 | 17.0 | 17.5 | 22.3 | 30.4 | 20.1 | 19.2 | 20.0 | 25.7 | 31.4 | 23.3 | 21.2 | 22.2 | 28.9 | 32.2 |
| | Sensible capacity | 16.3 | 16.3 | 14.6 | 16.8 | 14.9 | 19.6 | 17.8 | 16.5 | 20.2 | 15.1 | 22.7 | 19.0 | 18.2 | 23.4 | 15.0 |
| | kW | 2.21 | 2.21 | 2.21 | 2.65 | 3.56 | 2.74 | 2.50 | 2.59 | 3.08 | 3.68 | 3.36 | 2.88 | 3.05 | 3.61 | 3.88 |

Cooling performance data notes

- All capacities include indoor fan heat. kW values are for the system (outdoor + indoor).
- Drive output is limited in the shaded area. Performance may vary and interpolation is not permissible.

Heating performance data - 4 ton

Table 14: Heating performance data - 4 ton - adjust DIP switch setting on 60k to configure 48k

| Heating performance | Outdoor ambient temperature | | | | | | | | | |
|---------------------|-----------------------------|------|------|------|------|------|------|------|------|------|
| | 60 | 47 | 35 | 30 | 17 | 10 | 5 | 0 | -5 | -10 |
| MBH | 51.2 | 46.0 | 41.8 | 40.1 | 35.5 | 34.6 | 34.0 | 31.0 | 28.0 | 25.0 |
| kW | 3.9 | 3.85 | 3.90 | 3.92 | 3.97 | 4.42 | 4.75 | 4.53 | 4.32 | 4.11 |
| COP | 3.83 | 3.50 | 3.14 | 3.00 | 2.62 | 2.30 | 2.10 | 2.00 | 1.90 | 1.78 |

Heating performance data notes

- Calculations are based on a nominal CFM and an indoor dry bulb temperature of 70°F.
- kW indicates total system power.
- The shaded area represents the AHRI rating conditions at an outdoor ambient temperature of 47°F.
- The performance data provided is only for reference and is derived from AHRI nominal data. In certain applications, actual performance may deviate from these values.

Performance data - 5 ton

See the following tables for cooling and heating performance data for the HH860E2S11 unit.

Cooling performance data - 5 ton

Table 15: Cooling performance data - 5 ton

| Air temperature entering outdoor unit (°F) | Indoor CFM | 1200 | | | | | 1600 | | | | | 2000 | | | | |
|--|-------------------|----------------------|------|----------------------|------|------|----------------------|------|----------------------|------|-------|----------------------|------|----------------------|------|------|
| | | Indoor dry bulb (°F) | | Indoor wet bulb (°F) | | | Indoor dry bulb (°F) | | Indoor wet bulb (°F) | | | Indoor dry bulb (°F) | | Indoor wet bulb (°F) | | |
| | | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 | 80 | 80 | 75 | 80 | 80 |
| 55 | Total capacity | 40.0 | 54.8 | 55.5 | 60.1 | 62.3 | 47.8 | 57.8 | 58.3 | 64.2 | 64.6 | 55.5 | 60.6 | 60.9 | 68.1 | 66.8 |
| | Sensible capacity | 40.0 | 47.5 | 39.9 | 41.0 | 31.3 | 47.8 | 51.7 | 42.5 | 43.8 | 32.40 | 55.5 | 55.8 | 44.9 | 46.5 | 33.2 |
| | kW | 1.70 | 2.91 | 2.91 | 2.91 | 2.82 | 2.35 | 3.09 | 3.08 | 3.08 | 3.03 | 3.04 | 3.31 | 3.30 | 3.28 | 3.28 |
| 65 | Total capacity | 41.2 | 53.0 | 54.5 | 58.2 | 62.8 | 48.2 | 56.0 | 57.8 | 61.9 | 65.2 | 55.1 | 58.8 | 61.0 | 65.5 | 67.5 |
| | Sensible capacity | 41.2 | 45.3 | 39.6 | 39.7 | 31.7 | 48.2 | 50.2 | 42.8 | 42.7 | 33.0 | 55.1 | 55.0 | 45.8 | 45.6 | 34.1 |
| | kW | 2.23 | 3.20 | 3.27 | 3.29 | 3.26 | 2.85 | 3.41 | 3.45 | 3.46 | 3.45 | 3.52 | 3.66 | 3.66 | 3.68 | 3.68 |
| 75 | Total capacity | 42.5 | 51.2 | 53.6 | 56.4 | 63.3 | 48.7 | 54.2 | 57.4 | 59.7 | 65.8 | 54.8 | 57.1 | 61.0 | 62.9 | 68.2 |
| | Sensible capacity | 42.5 | 43.1 | 39.2 | 38.4 | 32.1 | 48.7 | 48.7 | 43.0 | 41.6 | 33.6 | 54.8 | 54.3 | 46.7 | 44.7 | 34.9 |
| | kW | 2.76 | 3.49 | 3.63 | 3.66 | 3.70 | 3.36 | 3.73 | 3.81 | 3.85 | 3.87 | 4.00 | 4.01 | 4.03 | 4.07 | 4.08 |
| 85 | Total capacity | 42.6 | 48.7 | 50.2 | 54.5 | 60.4 | 47.6 | 52.2 | 53.7 | 57.6 | 63.0 | 52.5 | 55.5 | 57.2 | 60.6 | 65.5 |
| | Sensible capacity | 42.6 | 41.5 | 36.6 | 36.4 | 30.0 | 47.6 | 47.3 | 40.8 | 40.2 | 31.8 | 52.5 | 52.9 | 44.9 | 43.9 | 33.4 |
| | kW | 3.36 | 3.76 | 3.91 | 4.00 | 4.05 | 3.86 | 4.06 | 4.14 | 4.21 | 4.25 | 4.39 | 4.41 | 4.42 | 4.46 | 4.50 |
| 95 | Total capacity | 42.6 | 46.3 | 46.8 | 52.6 | 57.4 | 46.5 | 50.2 | 50.1 | 55.5 | 60.2 | 50.2 | 53.9 | 53.4 | 58.2 | 62.7 |
| | Sensible capacity | 42.6 | 40.0 | 33.9 | 34.3 | 27.9 | 46.5 | 45.8 | 38.5 | 38.8 | 30.0 | 50.2 | 51.6 | 43.0 | 43.1 | 31.9 |
| | kW | 3.97 | 4.03 | 4.19 | 4.34 | 4.39 | 4.36 | 4.40 | 4.48 | 4.58 | 4.63 | 4.78 | 4.81 | 4.81 | 4.85 | 4.91 |
| 105 | Total capacity | 38.2 | 41.2 | 39.8 | 48.5 | 53.4 | 42.9 | 45.9 | 44.2 | 52.1 | 56.1 | 47.4 | 50.4 | 48.6 | 55.5 | 58.6 |
| | Sensible capacity | 38.2 | 35.6 | 29.4 | 32.1 | 25.1 | 42.9 | 41.4 | 34.1 | 37.0 | 27.5 | 47.4 | 47.2 | 38.8 | 41.6 | 29.7 |
| | kW | 4.09 | 4.17 | 4.05 | 4.67 | 4.80 | 4.73 | 4.75 | 4.54 | 5.14 | 5.07 | 5.34 | 5.41 | 5.11 | 5.63 | 5.41 |
| 115 | Total capacity | 33.7 | 36.0 | 32.7 | 44.3 | 49.3 | 39.3 | 41.5 | 38.3 | 48.6 | 51.9 | 44.5 | 46.9 | 43.7 | 52.8 | 54.5 |
| | Sensible capacity | 32.9 | 31.2 | 24.8 | 29.9 | 22.2 | 38.0 | 37.0 | 29.7 | 35.1 | 24.9 | 42.9 | 42.7 | 34.5 | 40.1 | 27.5 |
| | kW | 4.20 | 4.30 | 3.90 | 5.00 | 5.20 | 5.10 | 5.10 | 4.60 | 5.70 | 5.50 | 5.90 | 6.00 | 5.40 | 6.40 | 5.90 |
| 125 | Total capacity | 22.2 | 23.3 | 18.9 | 30.8 | 34.8 | 27.3 | 28.5 | 24.4 | 34.9 | 37.0 | 32.3 | 33.5 | 29.7 | 38.9 | 39.0 |
| | Sensible capacity | 22.2 | 23.3 | 18.1 | 25.0 | 17.4 | 27.3 | 28.5 | 22.6 | 30.1 | 20.1 | 32.3 | 33.5 | 27.1 | 35.0 | 22.7 |
| | kW | 2.82 | 2.82 | 2.31 | 3.52 | 3.68 | 3.55 | 3.57 | 2.98 | 4.13 | 3.93 | 4.33 | 4.35 | 3.69 | 4.77 | 4.21 |

Cooling performance data notes

- All capacities include indoor fan heat. kW values are for the system (outdoor + indoor).
- Drive output is limited in the shaded area. Performance may vary and interpolation is not permissible.

Heating performance data - 5 ton

Table 16: Heating performance data - 5 ton

| Heating performance | Outdoor ambient temperature | | | | | | | | | |
|---------------------|-----------------------------|------|------|------|------|------|------|------|------|------|
| | 60 | 47 | 35 | 30 | 17 | 10 | 5 | 0 | -5 | -10 |
| MBH | 57.6 | 54.0 | 47.3 | 44.5 | 37.2 | 38.0 | 38.5 | 35.6 | 32.4 | 29.3 |
| kW | 4.7 | 4.65 | 4.45 | 4.36 | 4.13 | 5.01 | 5.64 | 4.99 | 4.69 | 4.41 |
| COP | 3.56 | 3.40 | 3.12 | 2.99 | 2.64 | 2.22 | 2.00 | 2.09 | 2.03 | 1.95 |

Heating performance data notes

- Calculations are based on a nominal CFM and an indoor dry bulb temperature of 70°F.
- kW indicates total system power.
- The shaded area represents the AHRI rating conditions at an outdoor ambient temperature of 47°F.
- The performance data provided is only for reference and is derived from AHRI nominal data. In certain applications, actual performance may deviate from these values.

Third-party trademarks notice

Third-Party Trademarks Notice: For information about third-party trademarks, refer to the relevant company websites.