



The new degree of comfort.™

Cased/Uncased Coils For Gas And Oil Furnaces



RCF- Series

featuring Industry Standard R-410A
Refrigerant
Airflow Capacity
600-1,900 CFM [283-897 L/s]

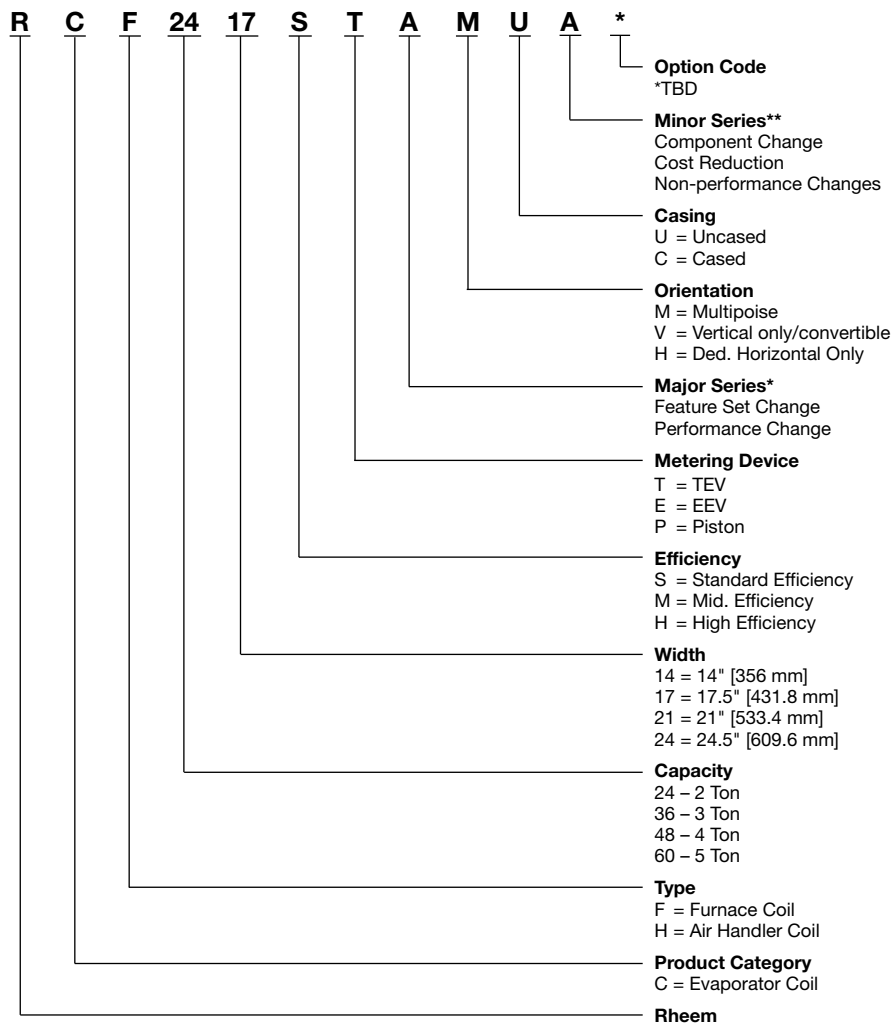


- Rheem® Indoor Furnace cased coils and replacement uncased coils are designed for use with Rheem outdoor units and are available for vertical upflow or downflow, and horizontal left or horizontal right airflow. When matched with Rheem outdoor units, the coils provide a nominal capacity range from 18,000 BTU/HR [5.24 kW] to 60,000 BTU/HR [17.6 kW].
- Constructed of aluminum fins bonded to internally grooved aluminum tubing.
- Coils are tested at the factory with an extensive refrigerant leak check.
- Coils have copper sweat refrigerant connections.
- Feature two sets of 3/4" [14.1 mm] N.P.T. Condensate drain connections for ease of connection.
- Chatleff metering device connections, at inlet and outlet of TXV and equalizer connections.
- Approved for system application with variety of Rheem outdoor units.
- Condensate drain pan is constructed of high grade, heat resistant, corrosion free thermal-set material.
- Compatible with Germicidal Light System (UV resistant)
- Bi-Directional airflow eliminates the need to switch any internal components from horizontal left to right.
- Unique drain pan design maximizes application flexibility and condensate removal.
- N-Coil design maximizes performance and minimizes height required at installation.
- Coils are AHRI certified for system application with a variety of Rheem outdoor units.

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Model Number Identification



| MODELS AVAILABLE | |
|------------------|---------------|
| RCF2414STAMCA | RCF4821STSVUA |
| RCF2417STAMCA | RCF4824STSVUA |
| RCF2417MTAMCA | RCF6024STAVUA |
| RCF2421MTAMCA | RCF2417HTAMCA |
| RCF3617STAMCA | RCF2421HTAMCA |
| RCF3621STAMCA | RCF3624HTAMCA |
| RCF3621MTAMCA | RCF4824HTAMCA |
| RCF3624MTAMCA | RCF6024HTAMCA |
| RCF4821STAMCA | RCF2417HTAVUA |
| RCF4824STAMCA | RCF2421HTAVUA |
| RCF6024STAMCA | RCF3624HTAVUA |
| RCF2414STAVUA | RCF4824HTAVUA |
| RCF2417STAVUA | RCF6024HTAVUA |
| RCF2417MTAVUA | RCF2417SPAVUA |
| RCF2421MTAVUA | RCF3617SPAVUA |
| RCF3617STAVUA | RCF3621SPAVUA |
| RCF3621STAVUA | RCF4821SPAVUA |
| RCF3621MTAVUA | RCF4824SPAVUA |
| RCF3624MTAVUA | |

[] Designates Metric Conversions

Table 1: Coil Specifications/Airflow Pressure Drop

| Coil Model (-)CF | Approx. Design Cooling Air Flow Range CFM [L/s] | Face Area Sq. Ft. [m ²] | Fins-in./ Rows Deep | Wet Coil Static Pressure Drop (Inches W.C.) [kPa] @ CFM [L/s] – (Coil-Only) | | | | | | | | | | | | | |
|------------------|---|-------------------------------------|---------------------|---|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | 600 [283] | 700 [330] | 800 [378] | 900 [425] | 1000 [472] | 1100 [519] | 1200 [566] | 1300 [614] | 1400 [661] | 1500 [708] | 1600 [755] | 1700 [802] | 1800 [850] | 1900 [897] |
| 2414S | 600/900 [283/425] | 4.56 [.42] | 16 / 2 | 0.17 | 0.22 | 0.28 | 0.34 | — | — | — | — | — | — | — | — | — | — |
| 2417S | 600/900 [283/425] | 4.56 [.42] | 16 / 2 | 0.13 | 0.16 | 0.21 | 0.25 | — | — | — | — | — | — | — | — | — | — |
| 2417M | 600/900 [283/425] | 4.56 [.42] | 16 / 2 | 0.11 | 0.15 | 0.18 | 0.22 | — | — | — | — | — | — | — | — | — | — |
| 2421M | 600/900 [283/425] | 5.70 [.52] | 16 / 2 | 0.11 | 0.15 | 0.18 | 0.22 | — | — | — | — | — | — | — | — | — | — |
| 2421H | 600/900 [283/425] | 5.70 [.52] | 16 / 2 | 0.11 | 0.15 | 0.18 | 0.22 | — | — | — | — | — | — | — | — | — | — |
| 3617S | 700/1300 [330/614] | 5.70 [.52] | 16 / 2 | 0.11 | 0.15 | 0.18 | 0.22 | 0.27 | 0.31 | 0.37 | 0.42 | — | — | — | — | — | — |
| 3621S | 700/1300 [330/614] | 5.70 [.52] | 16 / 2 | 0.11 | 0.15 | 0.18 | 0.22 | 0.27 | 0.31 | 0.37 | 0.42 | — | — | — | — | — | — |
| 3621M | 700/1400 [330/661] | 8.55 [.79] | 16 / 2 | 0.06 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.24 | 0.27 | 0.31 | — | — | — | — | — |
| 3624H | 700/1400 [330/661] | 9.98 [.93] | 14 / 3 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.23 | — | — | — | — | — |
| 4821S | 1100/1800 [519/850] | 8.55 [.79] | 16 / 2 | 0.06 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.24 | 0.27 | 0.31 | 0.35 | 0.39 | 0.43 | 0.48 | — |
| 4824S | 1100/1800 [519/850] | 8.55 [.79] | 16 / 2 | 0.06 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.24 | 0.27 | 0.31 | 0.35 | 0.39 | 0.43 | 0.48 | — |
| 4824H | 1100/1800 [519/850] | 9.98 [.93] | 14 / 3 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.33 | 0.37 | — |
| 6024S | 1400/1900 [661/897] | 9.98 [.93] | 14 / 3 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.33 | 0.37 | 0.41 |
| 6024H | 1400/1900 [661/897] | 9.98 [.93] | 14 / 3 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.33 | 0.37 | 0.41 |

Important Note: Gas furnace heating CFM can exceed the design cooling CFM. Ductwork and coil selection must accommodate the higher of the cooling or gas heating CFM to prevent furnace limit tripping, excessive noise, and coil freeze-up.

[] Designates Metric Conversions

Table 1: Coil Specifications/Airflow Pressure Drop (con't.)

| Coil Model (-)CF | Approx. Design Cooling Air Flow Range CFM [L/s] | Face Area Sq. Ft. [m ²] | Fins-in./ Rows Deep | Dry Coil Static Pressure Drop (Inches W.C.) [kPa] @ CFM [L/s] – (Coil-Only) | | | | | | | | | | | | | |
|------------------|---|-------------------------------------|---------------------|---|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | 600 [283] | 700 [330] | 800 [378] | 900 [425] | 1000 [472] | 1100 [519] | 1200 [566] | 1300 [614] | 1400 [661] | 1500 [708] | 1600 [755] | 1700 [802] | 1800 [850] | 1900 [897] |
| 2414S | 600/900 [283/425] | 4.56 [.42] | 16 / 2 | 0.12 | 0.16 | 0.21 | 0.26 | 0.31 | 0.37 | 0.44 | — | — | — | — | — | — | — |
| 2417S | 600/900 [283/425] | 4.56 [.42] | 16 / 2 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.35 | 0.41 | 0.47 | 0.53 | 0.60 | — | — | — |
| 2417M | 600/900 [283/425] | 4.56 [.42] | 16 / 2 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.37 | 0.43 | 0.48 | 0.54 | — | — | — |
| 2421M | 600/900 [283/425] | 5.70 [.52] | 16 / 2 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.37 | 0.43 | 0.48 | 0.54 | 0.61 | 0.67 | — |
| 2421H | 600/900 [283/425] | 5.70 [.52] | 16 / 2 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.37 | 0.43 | 0.48 | 0.54 | 0.61 | 0.67 | — |
| 3617S | 700/1300 [330/614] | 5.70 [.52] | 16 / 2 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.37 | 0.43 | 0.48 | 0.54 | — | — | — |
| 3621S | 700/1300 [330/614] | 5.70 [.52] | 16 / 2 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.37 | 0.43 | 0.48 | 0.54 | 0.61 | 0.67 | — |
| 3621M | 700/1400 [330/661] | 8.55 [.79] | 16 / 2 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.19 | 0.22 | 0.25 | 0.28 | 0.32 | 0.35 | — |
| 3624H | 700/1400 [330/661] | 9.98 [.93] | 14 / 3 | 0.02 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.34 | 0.38 |
| 4821S | 1100/1800 [519/850] | 8.55 [.79] | 16 / 2 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.19 | 0.22 | 0.25 | 0.28 | 0.32 | 0.35 | 0.39 |
| 4824S | 1100/1800 [519/850] | 8.55 [.79] | 16 / 2 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.19 | 0.22 | 0.25 | 0.28 | 0.32 | 0.35 | 0.39 |
| 4824H | 1100/1800 [519/850] | 9.98 [.93] | 14 / 3 | 0.02 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.34 | 0.38 |
| 6024S | 1400/1900 [661/897] | 9.98 [.93] | 14 / 3 | 0.02 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.34 | 0.38 |
| 6024H | 1400/1900 [661/897] | 9.98 [.93] | 14 / 3 | 0.02 | 0.04 | 0.06 | 0.07 | 0.10 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 | 0.34 | 0.38 |

Important Note: Gas furnace heating CFM can exceed the design cooling CFM. Ductwork and coil selection must accommodate the higher of the cooling or gas heating CFM to prevent furnace limit tripping, excessive noise, and coil freeze-up.

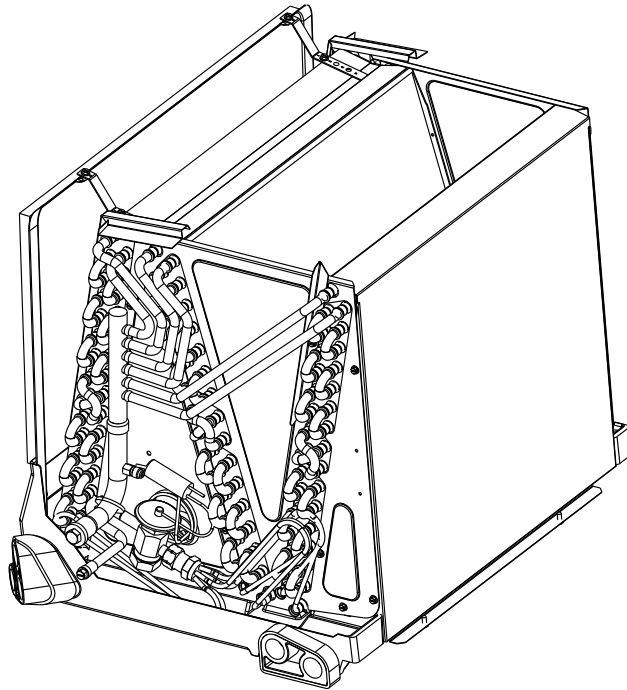
[] Designates Metric Conversions

Table 2: Coil Dimensions and Weights

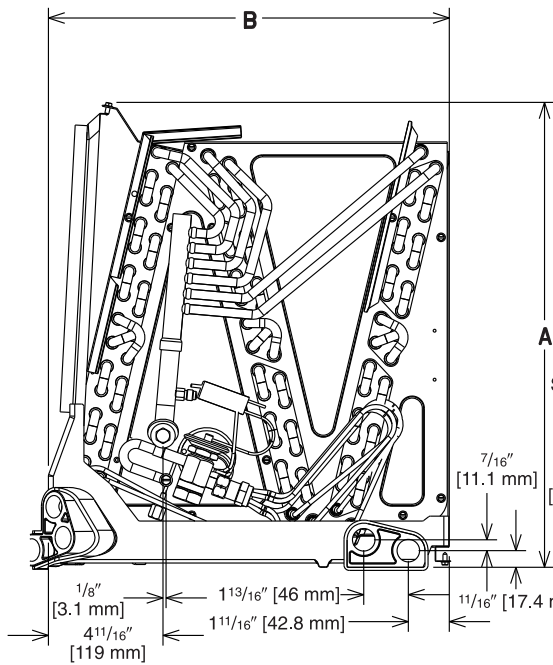
| Coil Model RCF | Connections | | Uncased Coil Dimensions (in) [mm] | | Weight | |
|-----------------------------|------------------|-------------|-----------------------------------|--------------|--------------------------|------------------------------|
| | Sweat (in.) [mm] | | A | B | Coil Weight (lbs.) [Kg.] | Shipping Weight (lbs.) [Kg.] |
| | Liquid | Suction | | | | |
| | I.D. | I.D. | | | | |
| 2414ST | 3/8 [9.53] | 3/4 [19.05] | 21 3/4 [552] | 12 7/8 [327] | 43 [19] | 47 [21] |
| 2417SP/2417ST | 3/8 [9.53] | 3/4 [19.05] | 15 3/8 [390] | 16 3/8 [416] | 43 [19] | 48 [22] |
| 2417MT/2417HT/3617ST/3617SP | 3/8 [9.53] | 3/4 [19.05] | 18 3/4 [476] | 16 3/8 [416] | 49 [22] | 54 [24] |
| 2421MT/2421HT/3621ST/3621SP | 3/8 [9.53] | 3/4 [19.05] | 18 3/4 [476] | 19 7/8 [505] | 51 [23] | 60 [27] |
| 3621MT/4821ST/4821SP | 3/8 [9.53] | 3/4 [19.05] | 26 5/8 [676] | 19 7/8 [505] | 71 [32] | 78 [35] |
| 3624MT/4824ST/4824ST | 3/8 [9.53] | 3/4 [19.05] | 26 11/16 [678] | 23 3/8 [594] | 83 [37] | 93 [42] |
| 3624HT/4824HT/6024ST/6024HT | 3/8 [9.53] | 3/4 [19.05] | 30 15/16 [786] | 23 3/8 [594] | 100 [45] | 108 [48] |

*The 14 inch, 2 ton RCF coil (2414) is part of the "N-Coil" design series, even though the coil shape resembles an "A" coil design.

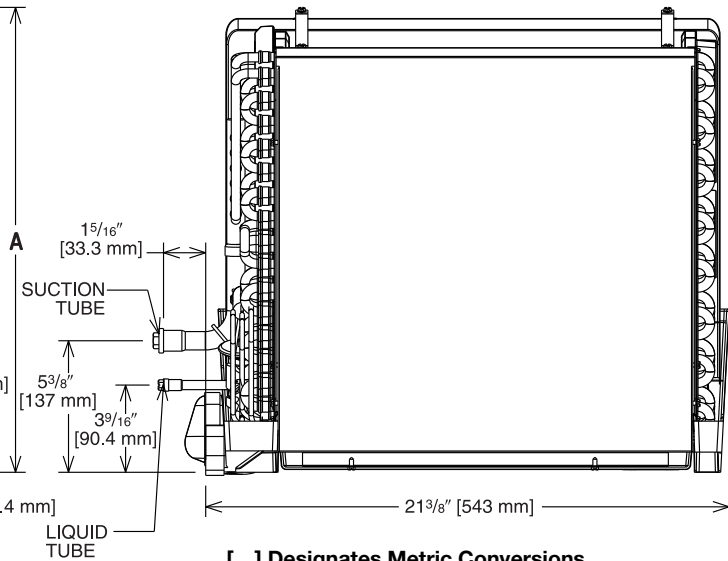
FIGURE 1: DIMENSIONS UNCASSED



FRONT VIEW



SIDE VIEW



[] Designates Metric Conversions

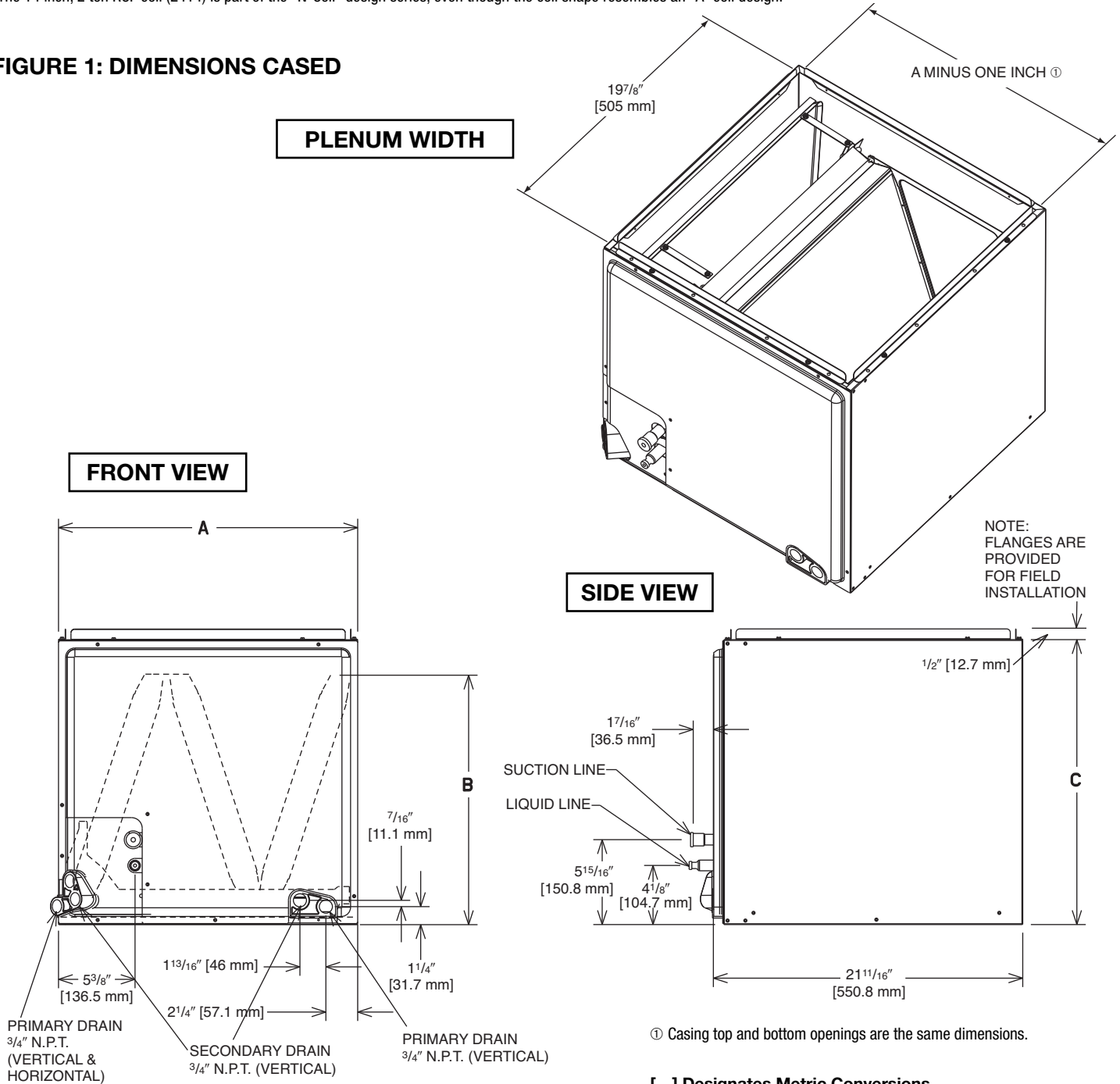


Table 2: Coil Dimensions and Weights

| Coil Model RCF | Connections | | Cased Coil Dimensions (in) [mm] | | | Weight | |
|-----------------------------|------------------|-------------|--------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|---------------------------------|
| | Sweat (in.) [mm] | | A | B | C | Coil Weight (lbs.) [Kg.] | Shipping Weight (lbs.) [Kg.] |
| | Liquid | Suction | | | | | |
| | I.D. | I.D. | | | | | |
| 2414ST | 3/8 [9.53] | 3/4 [19.05] | 14 [356] | 21 [533] | 23 ⁹ / ₁₆ [584] | 43 [19] | 47 [21] |
| 2417SP/2417ST | 3/8 [9.53] | 3/4 [19.05] | 17 ¹ / ₂ [445] | 14 ¹ / ₂ [368] | 20 [508] | 43 [19] | 48 [22] |
| 2417MT/2417HT/3617ST/3617SP | 3/8 [9.53] | 3/4 [19.05] | 17 ¹ / ₂ [445] | 17 ⁷ / ₈ [454] | 20 [508] | 49 [22] | 54 [24] |
| 2421MT/2421HT/3621ST/3621SP | 3/8 [9.53] | 3/4 [19.05] | 21 [533] | 17 ¹ / ₂ [445] | 20 [508] | 51 [23] | 60 [27] |
| 3621MT/4821ST/4821SP | 3/8 [9.53] | 3/4 [19.05] | 21 [533] | 25 ⁷ / ₈ [657] | 28 [711] | 71 [32] | 78 [35] |
| 3624MT/4824ST/4824ST | 3/8 [9.53] | 3/4 [19.05] | 24 ¹ / ₂ [622] | 25 ³ / ₈ [645] | 32 [812] | 83 [37] | 93 [42] |
| 3624HT/4824HT/6024ST/6024HT | 3/8 [9.53] | 3/4 [19.05] | 24 ¹ / ₂ [622] | 30 ¹ / ₄ [768] | 32 [812] | 100 [45] | 108 [48] |

*The 14 inch, 2 ton RCF coil (2414) is part of the "N-Coil" design series, even though the coil shape resembles an "A" coil design.

FIGURE 1: DIMENSIONS CASSED



[] Designates Metric Conversions



Table 3: Coil Application

Coils can be matched to heating products as listed in table below.

| Coil Model RCF | Furnace Width (In.) (mm) | |
|--|-----------------------------|-----------------------|
| | Oil | Gas |
| 2414ST 2417ST 2417HT/2417MT 3617ST | — | 14 [356] |
| 2417ST 2417MT/2417HT/2417SP 3617ST/3617SP | 17½ [431] | 17½ [444] 14 [356] |
| 2421MT/2421HT 3621ST/3621SP 3621MT/4821ST/4821SP | 21 [533] | 21 [533] 17½ [444] |
| 3624MT/3624HT 4824ST/4824HT/4824SP 6024ST/6024HT | 24½ [622] | 24½ [622] 21 [533] |

Accessories

• **PLENUM ADAPTER ACCESSORY
RXBA-AE**

This plenum adapter accessory is for use with the 24½" wide cased indoor cooling and heat pump coils. This allows a 24½" wide cased coil to be installed on a 28" wide oil furnace. This is a field-installed accessory only.

• **RXBA-AC (Upflow/Horizontal)**

These plenum adapter accessories are for use when a cooling coil is matched with a gas furnace of one smaller size.

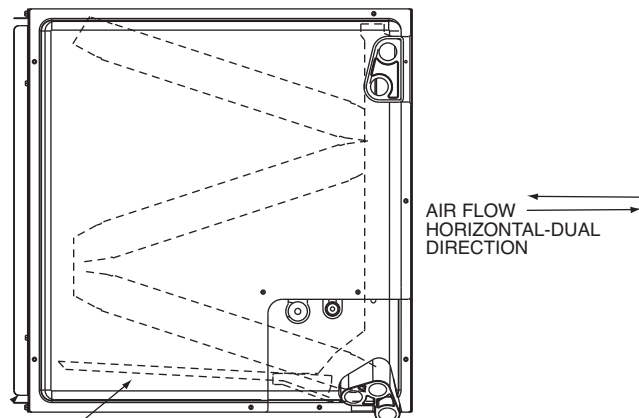
• **HORIZONTAL ADAPTER KIT RXHH (See Figure 2)**

This horizontal adapter kit is used to convert a upflow or downflow coil for a horizontal application. See Table 4 to order the proper horizontal adapter kit.

Table 4: Horizontal Adapter Kit Model No.

| Coil Model | Horizontal Adapter Kit Model No. |
|--|----------------------------------|
| 2414ST | RXHH-A01 |
| 2417ST | RXHH-A02 |
| 2417MT/2421MT/3617ST/ 3621ST/2421HT | RXHH-A03 |
| 3621MT/3624MT/ 4821ST/4824ST | RXHH-A04 |
| 3624HT/4824HT/ 6024ST/6024HT | RXHH-A05 |

FIGURE 2: HORIZONTAL ADAPTER KIT ILLUSTRATION



HORIZONTAL ADAPTER KIT (RXHH-)

• **INDOOR COIL CASING- RXBC (See Table 5)**

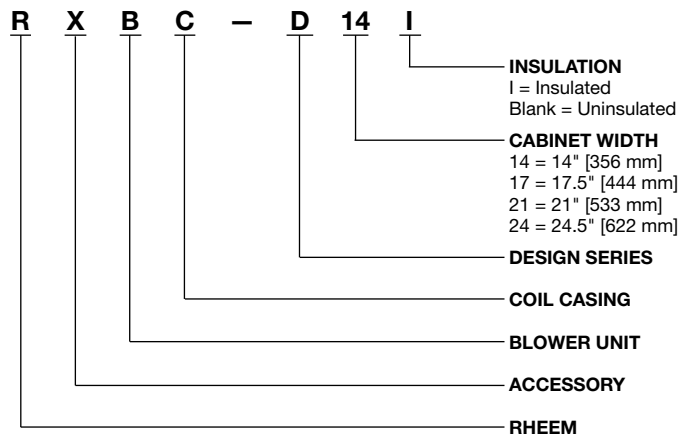


Table 5: Unit Dimensions and Weights- RXBC Indoor Coil Casings

| Model Number | Width (in.) [mm] | Height (in.) [mm] | Depth (in.) [mm] | Unit Weight | | Supply Air/Return Air Openings | |
|--------------|------------------|---------------------------------------|--------------------------------------|---------------------|------------------------|--------------------------------|---------------------------------------|
| | | | | Weight (lbs.) [Kg.] | Ship. Wt. (lbs.) [Kg.] | Width (in.) [mm] | Depth (in.) [mm] |
| RXBC-D14AI | 14 [356] | 23 ³ / ₁₆ [589] | 21 ⁵ / ₈ [549] | 19 [9] | 23 [10] | 13 [330] | 19 ³ / ₃₂ [508] |
| RXBC-D17AI | 17½ [445] | 20 [508] | | 18 [8] | 23 [10] | 16½ [419] | |
| RXBC-D21AI | 21 [533] | 20 [508] | | 20 [9] | 26 [12] | 20 [508] | |
| RXBC-D21BI | 21 [533] | 28 [711] | | 27 [12] | 36 [17] | 20 [508] | |
| RXBC-D24AI | 24½ [622] | 32½ [826] | | 34 [16] | 44 [20] | 23½ [597] | |

Table 6: Uncased Coil Adapter Kit

| Uncased Coil Adapter Model Number RXBA | A Width (in.) [mm] | Uncased Coil Model RCFP |
|--|--------------------------------------|-------------------------|
| B14x20 | 13 ¹ / ₈ [333] | -HUxx14 |
| B17x20 | 16 ⁵ / ₈ [422] | -HUxx17 |
| B21x20 | 20 ¹ / ₈ [511] | -HUxx21 |
| B24x20 | 23 ⁵ / ₈ [599] | -HUxx24 |

[] Designates Metric Conversions

Accessories (cont.)

• UNCASSED COIL ADAPTER KIT RXBA- (See Figure 3 & 4)

This uncased coil adapter kit is used to adapt the coil to a furnace or ductwork. See Table 6 to order the proper adapter kit. Each kit contains a quantity of 20 adapters.

FIGURE 3: UNCASSED COIL ADAPTER KIT ILLUSTRATION

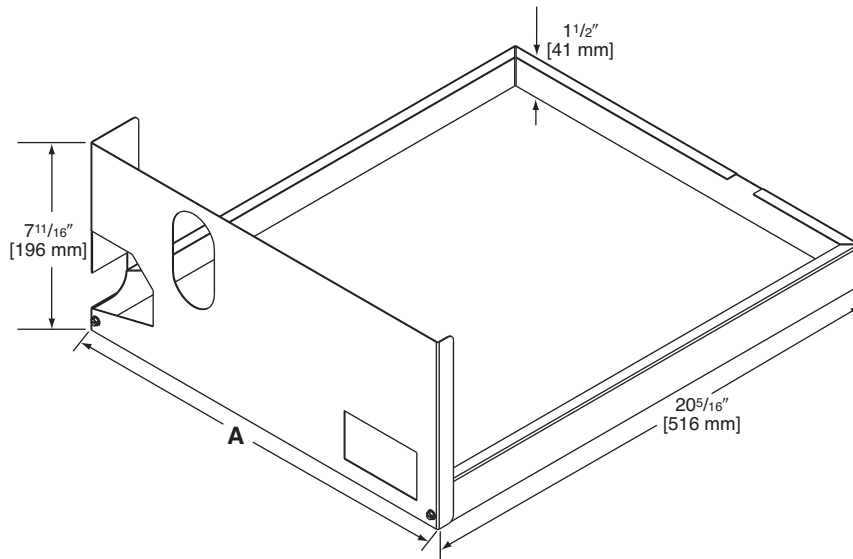
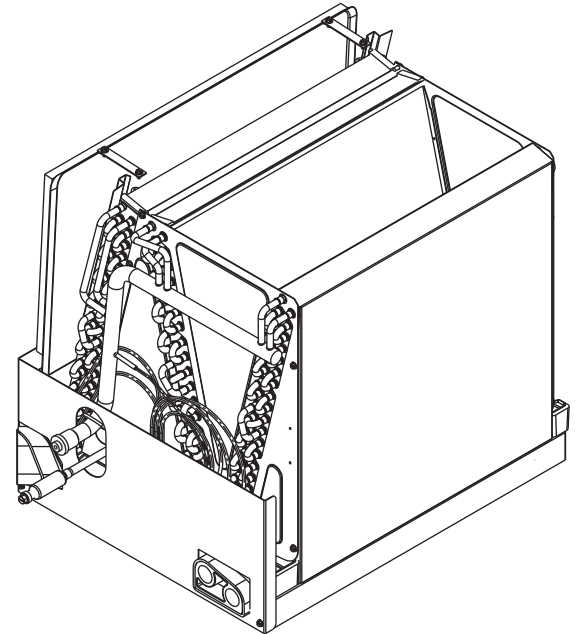


FIGURE 4: UNCASSED COIL ADAPTER KIT ASSEMBLED



Note: Sliding the coil into the coil rail before attaching coil rack front.

[] Designates Metric Conversions

R-22 TXV Conversion Kits

To be used to convert R410-A coil to operate with R-22

| FURNACE COIL CROSS REFERENCE CHART | | |
|------------------------------------|---|-----------------------------------|
| ORIGINAL COIL | RECOMMENDED ALUMINUM TUBE REPLACEMENT COIL | R-22 TXV CONVERSION KIT MODEL NO. |
| RCFA-**2414 | RCF2414STAT | RXCT-HBA |
| RCFA-**2417 | RCF2417STA | RXCT-HBA |
| RCFA-**3617 | RCF3617STA, RCF2417MTA, or RCF2417HTA | RXCT-HBB |
| RCFA-**3621 | RCF3621STA, RCF2417MTA, or RCF2421HTA | RXCT-HBB |
| RCFA-**4821 | RCF4821STA or RCF3621MTA | RXCT-HBC |
| RCFA-**4824 | RCF4824STA or RCF3624MTA | RXCT-HBC |
| RCFA-**6024 | RCF6024STA, RCF6024HTA, RCF4824HTA, or RCF3624HTA | RXCT-HBD |

**= AU, HM, or HU

GENERAL TERMS OF LIMITED WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

Parts.....Five (5) Years

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.



The new degree of comfort.™

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

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INTEGRATED HOME COMFORT

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