



**GE APPLIANCES**

# Product Specifications

## NCHC\*5S HORIZONTAL COILS

### RESIDENTIAL PRODUCT SPECIFICATIONS

- Horizontal / Cased
- Total Corrosion Technology Designed Coil
- TXV Furnished
- R- 454B
- 60Hz
- 1.5 to 5 Tons



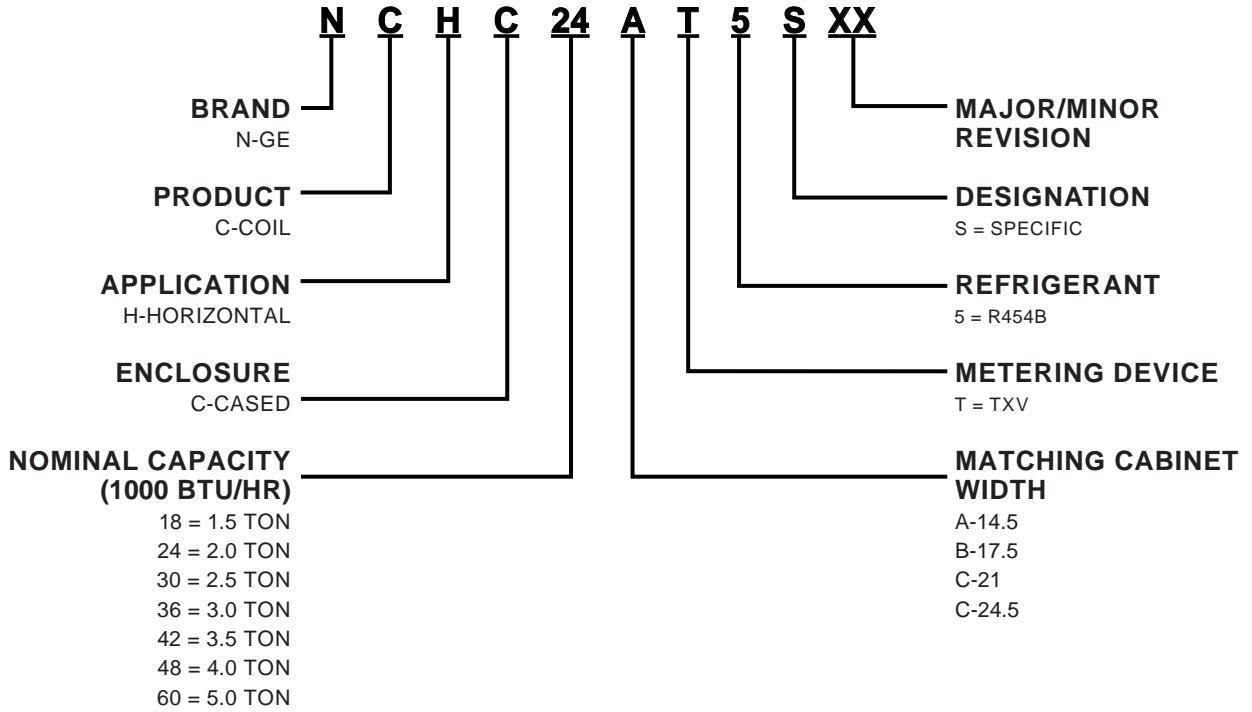
**READ CAREFULLY.  
KEEP THESE INSTRUCTIONS.**

# NCHC\*5S

## PRODUCT SPECIFICATIONS

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### MODEL NUMBER GUIDE



## **APPROVALS**

- Tested with matching air conditioners and heat pump units in accordance with AHRI Standard 210/240-2023
- AHRI Certified system match-ups and expanded ratings, visit [AHRIDirectory.org](http://AHRIDirectory.org)
- Air resistance tests from air test chamber

## **APPLICATIONS**

- 1.5 to 5 ton nominal sizes
- Horizontal indoor coils can easily be installed with most branded horizontal furnaces
- Factory installed R-454B, check/expansion valve

## **COIL CONSTRUCTION**

### **Total Corrosion Technology Designed Coil**

- Aluminum tubing, hairpins, distributor and header tubes
- Copper refrigerant sweat connections on both liquid and suction lines for easy brazing
- Ripple-edged aluminum fins
- Lanced fins provide maximum exposure of fin surface to air stream
- Axial grooved tubing provides superior heat transfer
- Twin coil construction assembled in an "A" configuration for large surface area
- High pressure testing insures leak-proof construction

### **Refrigerant Line Connections**

- Copper refrigerant sweat connections on both liquid and suction lines for easy brazing
- Lines extend outside of the cabinet for ease of connection
- See dimension drawings for locations

### **Braze-Free/Press Fitting Flexibility**

- Units can accommodate braze-free or press fittings for installation versatility

### **Anti-Microbial Drain Pans**

- Non-corrosive, UV-resistant polymer drain pan with dual FPT drain connections
- Anti-Microbial additive resists growth of mold and mildew on drain pan which improves indoor air quality and reduces drain line blockage

### **R-454B Check/Expansion Valve**

- All models have a factory-installed, internal check/ expansion valve
- For use with R-454B systems
- Wide range valve
- Chatleff style fitting
- Expansion valves are externally-equalized, non-bleed port type

## **LOW GWP REFRIGERANT DETECTION SYSTEM**

- Consists of an RDS detection sensor on the coil and a RDS control in the furnace

**NOTE - Furnaces with a factory installed RDS control** - The RDS control is integral to the furnace ignition control board.

**Furnaces without a RDS control** - The Refrigerant Detection System (RDS) Blower Control Board is required and must be ordered separately for field installation. See below for description and features.

### **Refrigerant Detection System (RDS) Coil Sensor**

- Factory installed on all indoor coils
- Complies with UL 60335-2-40 approved standard
- Required for all systems using R-454B refrigerant
- Sensor ensures safe operation for systems equipped with R-454B refrigerant
- Indoor sensor will detect any R-454B refrigerant

### **Optional Accessories**

#### **Refrigerant Detection System (RDS) Blower Control Board**

**NOTE** - For furnaces manufactured without the RDS Blower Control Board.

- Connects to the RDS sensor furnished with the coil

#### **Non-Communicating Blower Control Board**

- Non-Communicating Blower Control Board and Sensor can be used with any non-communicating 24 volt furnace

#### **Standard Features**

- Connects to the RDS sensor furnished with the coil
- Supports up to two RDS Sensors (factory setting)
- Used as interface between indoor unit and thermostat to control system
- Ensures safe operation for systems equipped with R-454B refrigerant
- If R-454B refrigerant is detected the refrigerant detection system will prevent compressor and heating operation until R-454B refrigerant is no longer detected
- Refrigeration detection system also energizes the blower if R-454B refrigerant is detected to dissipate any concentrations of refrigerant from the conditioned space
- Multi-color LED for system status and as an aid in troubleshooting
- Flashing LED codes for system status (Green/Blue) and diagnosing Sensor errors (Red)
- Alarm relay can trigger an external alarm if R-454B refrigerant is detected
- Zone relay opens all zone dampers (if part of a zoning system) if R-454B refrigerant is detected
- Power is disabled to non-communicating thermostats to prevent demand if R-454B refrigerant is detected
- On system start-up blower will run for five minutes and any thermostat demands are disabled
- Dimensions (H x W x D): 7-7/16 x 7-7/16 x 2-1/2 (189 x 189 x 127 mm)

**NOTE** - Refer to the Installation Instructions for additional information.

## **CABINET**

- Pre-painted cabinet finish
- Insulated with thick fiberglass insulation
- Coil slides out of cabinet for ease of servicing
- Flanges provided in outlet for ease of duct connection
- Removable panels provide access to coil
- Refrigerant lines extend outside of cabinet for easy installation Furnace Match-Up
- Coils exactly match corresponding furnaces with the same letter designation in model number
- No adaptor required
- Engaging holes furnished on cabinet for alignment with furnace

| OPTIONAL ACCESSORIES - ORDER SEPARATELY  |                                   |  |
|--|-----------------------------------|--|
| Description  | Order No.                         |  |
| Refrigerant Detection System (RDS) Blower Control Board  | Any Non-Communicating 24V Furnace |  |
| <b>27A05</b>   |                                   |  |
| <b>NOTE</b> - Non-Communicating Blower Control Board can be used with any non-communicating 24 volt furnace. |                                   |  |

| SPECIFICATIONS                        |                                  | 1.5 TO 2 TON |        |        |
|---------------------------------------|----------------------------------|--------------|--------|--------|
| Size                                  |                                  | 18A          | 24A    | 24B    |
| Nominal Tonnage                       |                                  | 1.5          | 2      | 2      |
| Refrigerant Type                      |                                  | R-454B       |        |        |
| Furnace Cabinet Matching Letter Width |                                  | A            | A      | B      |
| Coil & Furnace Cabinet Width - in.    |                                  | 14-1/2       | 14-1/2 | 17-1/2 |
| Connections                           | Liquid line (OD) sweat - in.     | 3/8          |        |        |
|                                       | Suction line (OD) sweat - in.    | 7/8          |        |        |
|                                       | Condensate drain (FPT) - in.     | (2) 3/4      |        |        |
| Indoor Coil                           | Net face area - ft. <sup>2</sup> | 3.5          | 3.5    | 4.67   |
|                                       | Tube diameter - in.              | 3/8          |        |        |
|                                       | Rows                             | 2            | 3      | 2      |
|                                       | Fins - in.                       | 19           | 13     | 19     |
| Shipping Data - lbs.                  |                                  | 44           | 46     | 50     |

| SPECIFICATIONS                        |                                  | 2.5 TO 3 TON |        |        |        |      |
|---------------------------------------|----------------------------------|--------------|--------|--------|--------|------|
| Size                                  |                                  | 30A          | 30B    | 36A    | 36B    | 36C  |
| Nominal Tonnage                       |                                  | 2.5          | 2.5    | 3      | 3      | 3    |
| Refrigerant Type                      |                                  | R-454B       |        |        |        |      |
| Furnace Cabinet Matching Letter Width |                                  | A            | B      | A      | B      | C    |
| Coil & Furnace Cabinet Width - in.    |                                  | 14-1/2       | 17-1/2 | 14-1/2 | 17-1/2 | 21   |
| Connections                           | Liquid line (OD) sweat - in.     | 3/8          |        |        |        |      |
|                                       | Suction line (OD) sweat - in.    | 7/8          |        |        |        |      |
|                                       | Condensate drain (FPT) - in.     | (2) 3/4      |        |        |        |      |
| Indoor Coil                           | Net face area - ft. <sup>2</sup> | 4.33         | 4.67   | 3.5    | 4.67   | 5.83 |
|                                       | Tube diameter - in.              | 3/8          |        |        |        |      |
|                                       | Rows                             | 3            | 3      | 3      | 2      | 2    |
|                                       | Fins - in.                       | 16           | 13     | 13     | 18     | 18   |
| Shipping Data - lbs.                  |                                  | 56           | 54     | 48     | 49     | 56   |

| SPECIFICATIONS                        |                                  |         | 3.5 TO 4 TON |      |      |
|---------------------------------------|----------------------------------|---------|--------------|------|------|
| Size                                  | 42B                              | 42C     | 48B          | 48C  |      |
| Nominal Tonnage                       | 3.5                              | 3.5     | 4            | 4    |      |
| Refrigerant Type                      | R-454B                           |         |              |      |      |
| Furnace Cabinet Matching Letter Width | B                                | C       | B            | C    |      |
| Coil & Furnace Cabinet Width - in.    | 17-1/2                           | 21      | 17-1/2       | 21   |      |
| Connections                           | Liquid line (OD) sweat - in.     | 3/8     |              |      |      |
|                                       | Suction line (OD) sweat - in.    | 7/8     |              |      |      |
|                                       | Condensate drain (FPT) - in.     | (2) 3/4 |              |      |      |
| Indoor Coil                           | Net face area - ft. <sup>2</sup> | 5.78    | 5.83         | 5.78 | 5.83 |
|                                       | Tube diameter - in.              | 3/8     |              |      |      |
|                                       | Rows                             | 4       | 3            |      |      |
|                                       | Fins - in.                       | 13      |              |      |      |
| Shipping Data - lbs.                  | 67                               | 67      | 61           | 60   |      |

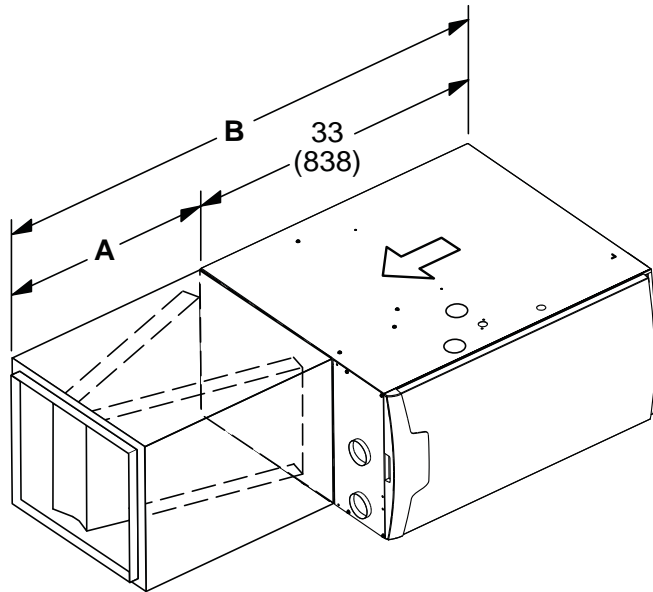
| SPECIFICATIONS                        |                                  | 5 TON   |      |
|---------------------------------------|----------------------------------|---------|------|
| Size                                  | 60C                              | 60D     |      |
| Nominal Tonnage                       | 5                                | 5       |      |
| Refrigerant Type                      | R-454B                           |         |      |
| Furnace Cabinet Matching Letter Width | C                                | D       |      |
| Coil & Furnace Cabinet Width - in.    | 21                               | 24-1/2  |      |
| Connections                           | Liquid line (OD) sweat - in.     | 3/8     |      |
|                                       | Suction line (OD) sweat - in.    | 7/8     |      |
|                                       | Condensate drain (FPT) - in.     | (2) 3/4 |      |
| Indoor Coil                           | Net face area - ft. <sup>2</sup> | 7.22    | 7.94 |
|                                       | Tube diameter - in.              | 3/8     |      |
|                                       | Rows                             | 3       |      |
|                                       | Fins - in.                       | 13      | 13   |
| Shipping Data - lbs.                  | 70                               | 79      |      |

**AIR RESISTANCE**

| Model No.      | Air Volume<br>cfm | Total Resistance |          |
|----------------|-------------------|------------------|----------|
|                |                   | Dry Coil         | Wet Coil |
|                |                   | in. w.g.         | in. w.g. |
| <b>NCHC18A</b> | 200               | 0.02             | 0.02     |
|                | 400               | 0.05             | 0.06     |
|                | 600               | 0.09             | 0.11     |
|                | 800               | 0.15             | 0.17     |
|                | 1000              | 0.22             | 0.25     |
| <b>NCHC24A</b> | 400               | 0.04             | 0.05     |
|                | 600               | 0.09             | 0.11     |
|                | 800               | 0.15             | 0.19     |
|                | 1000              | 0.23             | 0.29     |
|                | 1200              | 0.32             | 0.40     |
|                | 1400              | 0.50             | 0.28     |
| <b>NCHC24B</b> | 400               | 0.03             | 0.04     |
|                | 600               | 0.07             | 0.09     |
|                | 800               | 0.11             | 0.15     |
|                | 1000              | 0.17             | 0.24     |
|                | 1200              | 0.23             | 0.34     |
|                | 1400              | 0.30             | 0.45     |
| <b>NCHC30A</b> | 400               | 0.04             | 0.05     |
|                | 600               | 0.09             | 0.10     |
|                | 800               | 0.15             | 0.17     |
|                | 1000              | 0.24             | 0.27     |
|                | 1200              | 0.34             | 0.38     |
|                | 1400              | 0.45             | 0.51     |
| <b>NCHC30B</b> | 400               | 0.02             | 0.02     |
|                | 600               | 0.05             | 0.06     |
|                | 800               | 0.09             | 0.11     |
|                | 1000              | 0.14             | 0.16     |
|                | 1200              | 0.19             | 0.23     |
|                | 1400              | 0.26             | 0.30     |
| <b>NCHC36A</b> | 800               | 0.15             | 0.18     |
|                | 1000              | 0.22             | 0.27     |
|                | 1200              | 0.30             | 0.39     |
|                | 1400              | 0.41             | 0.48     |
|                | 1600              | 0.53             | 0.63     |
| <b>NCHC36B</b> | 800               | 0.08             | 0.10     |
|                | 1000              | 0.11             | 0.16     |
|                | 1200              | 0.16             | 0.21     |
|                | 1400              | 0.21             | 0.27     |
|                | 1600              | 0.27             | 0.35     |

| Model No.      | Air Volume<br>cfm | Total Resistance |          |
|----------------|-------------------|------------------|----------|
|                |                   | Dry Coil         | Wet Coil |
|                |                   | in. w.g.         | in. w.g. |
| <b>NCHC36C</b> | 800               | 0.06             | 0.08     |
|                | 1000              | 0.10             | 0.13     |
|                | 1200              | 0.15             | 0.18     |
|                | 1400              | 0.19             | 0.23     |
|                | 1600              | 0.24             | 0.31     |
|                | 1800              | 0.34             | 0.36     |
| <b>NCHC42B</b> | 800               | 0.10             | 0.10     |
|                | 1000              | 0.14             | 0.18     |
|                | 1200              | 0.20             | 0.25     |
|                | 1400              | 0.26             | 0.31     |
|                | 1600              | 0.34             | 0.36     |
|                | 1800              | 0.42             | 0.47     |
| <b>NCHC42C</b> | 800               | 0.06             | 0.06     |
|                | 1000              | 0.09             | 0.10     |
|                | 1200              | 0.15             | 0.16     |
|                | 1400              | 0.18             | 0.21     |
|                | 1600              | 0.26             | 0.28     |
|                | 1800              | 0.31             | 0.38     |
| <b>NCHC48B</b> | 1000              | 0.14             | 0.16     |
|                | 1200              | 0.19             | 0.23     |
|                | 1400              | 0.25             | 0.29     |
|                | 1600              | 0.30             | 0.38     |
|                | 1800              | 0.38             | 0.42     |
| <b>NCHC48C</b> | 1200              | 0.16             | 0.19     |
|                | 1400              | 0.21             | 0.26     |
|                | 1600              | 0.27             | 0.30     |
|                | 1800              | 0.33             | 0.39     |
|                | 2000              | 0.39             | 0.49     |
| <b>NCHC60C</b> | 1200              | 0.15             | 0.16     |
|                | 1400              | 0.20             | 0.23     |
|                | 1600              | 0.25             | 0.29     |
|                | 1800              | 0.31             | 0.36     |
|                | 2200              | 0.48             | 0.54     |
| <b>NCHC60D</b> | 1400              | 0.12             | 0.16     |
|                | 1600              | 0.16             | 0.20     |
|                | 1800              | 0.20             | 0.24     |
|                | 2000              | 0.24             | 0.30     |
|                | 2400              | 0.34             | 0.42     |

UNIT DIMENSIONS - IN. (MM)

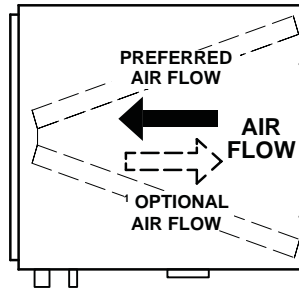


FURNACE/COIL COMBINED DIMENSIONS

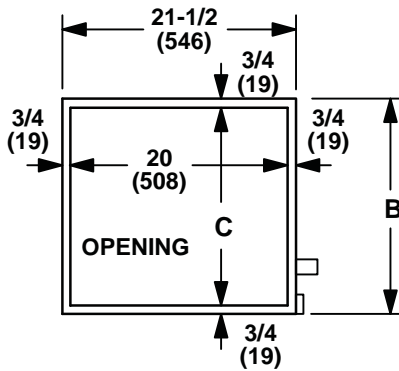
| Coil Size | A      |     | B      |      |
|-----------|--------|-----|--------|------|
|           | in.    | mm  | in.    | mm   |
| 18A       | 26-1/2 | 673 | 59-1/2 | 1511 |
| 24A       |        |     |        |      |
| 24B       |        |     |        |      |
| 30B       |        |     |        |      |
| 36A       |        |     |        |      |
| 36B       |        |     |        |      |
| 36C       |        |     |        |      |
| 42C       |        |     |        |      |
| 48C       |        |     |        |      |
| 30A       | 31-1/2 | 880 | 64-1/2 | 1638 |
| 42B       |        |     |        |      |
| 48B       |        |     |        |      |
| 60C       |        |     |        |      |
| 60D       |        |     |        |      |



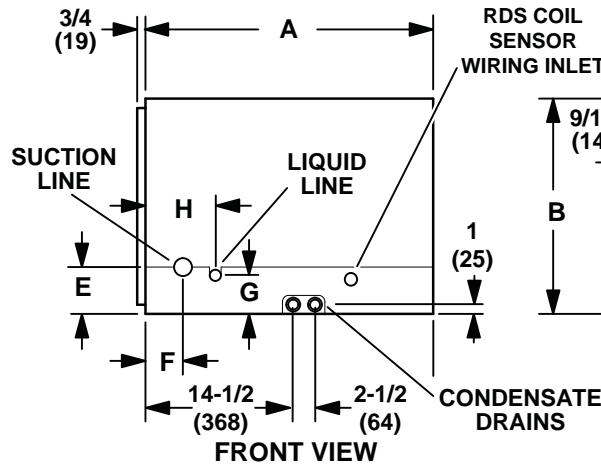
<sup>1</sup> Optional right-hand airflow requires a field fabricated 6 in. (152 mm) spacer in-between the furnace and coil.



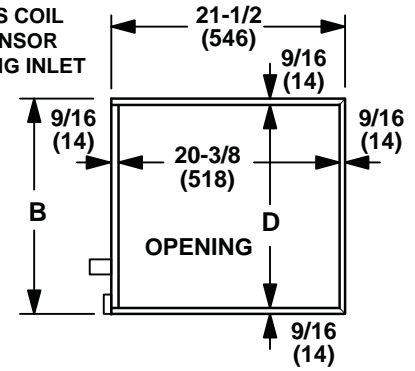
TOP VIEW



END VIEW



FRONT VIEW



END VIEW

| SIZE    | A (Height) |     | B (Width) |     | C      |     | D      |     | E     |    | F     |    | G     |    | H     |     |
|---------|------------|-----|-----------|-----|--------|-----|--------|-----|-------|----|-------|----|-------|----|-------|-----|
|         | in.        | mm  | in.       | mm  | in.    | mm  | in.    | mm  | in.   | mm | in.   | mm | in.   | mm | in.   | mm  |
| NCHC18A | 26-1/2     | 673 | 14-1/2    | 368 | 13     | 330 | 13-3/8 | 340 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC24A | 26-1/2     | 673 | 14-1/2    | 368 | 13     | 330 | 13-3/8 | 340 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC24B | 26-1/2     | 673 | 17-1/2    | 444 | 16     | 406 | 16-3/8 | 416 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC30A | 31-1/2     | 800 | 14-1/2    | 368 | 13     | 330 | 13-3/8 | 340 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC30B | 26-1/2     | 673 | 17-1/2    | 444 | 16     | 406 | 16-3/8 | 416 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC36A | 26-1/2     | 673 | 14-1/2    | 368 | 13     | 330 | 13-3/8 | 340 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC36B | 26-1/2     | 673 | 17-1/2    | 444 | 16     | 406 | 16-3/8 | 416 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC36C | 26-1/2     | 673 | 21        | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC42B | 31-1/2     | 800 | 17-1/2    | 444 | 16     | 406 | 16-3/8 | 416 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC42C | 26-1/2     | 673 | 21        | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC48B | 31-1/2     | 800 | 17-1/2    | 444 | 16     | 406 | 16-3/8 | 416 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC48C | 26-1/2     | 673 | 21        | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC60C | 31-1/2     | 800 | 21        | 533 | 19-1/2 | 495 | 19-7/8 | 505 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |
| NCHC60D | 31-1/2     | 800 | 24-1/2    | 622 | 23     | 584 | 23-3/8 | 594 | 3-1/4 | 83 | 1-3/4 | 44 | 3-3/8 | 86 | 4-3/8 | 111 |



**GE APPLIANCES**

All specifications and illustrations subject to change without notice and without incurring obligations.

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