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

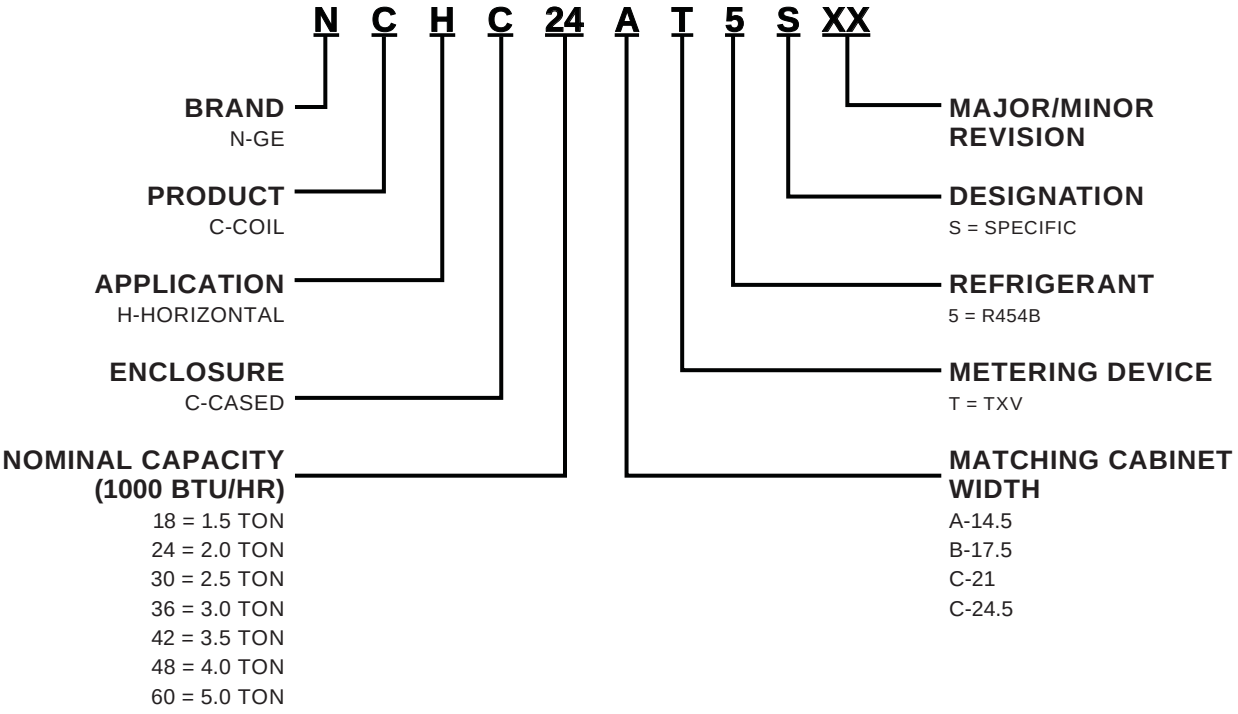
READ CAREFULLY.
KEEP THESE INSTRUCTIONS.

31-5001088 Rev. 0 12-24

NCHC*5S

PRODUCT SPECIFICATIONS

MODEL NUMBER GUIDE



31-5001088 Rev. 0

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**
- 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	**27A05**
NOTE - 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.²	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.²	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.²	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

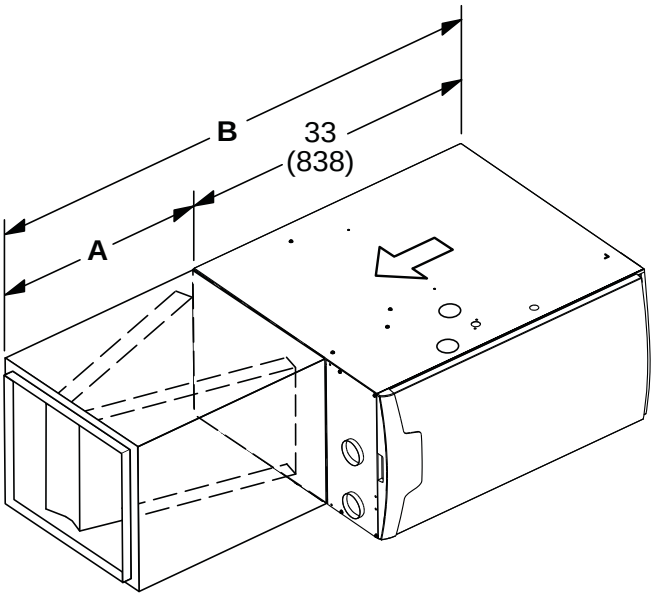
SPECIFICATIONS		5 TON	
Size		**60C**	**60D**
Nominal Tonnage		5	5
Refrigerant Type		R-454B	
Furnace Cabinet Matching Letter Width		C	D
Coil & Furnace Cabinet Width - in.		21	24-1/2
Connections	Liquid line (OD) sweat - in.	3/8	
	Suction line (OD) sweat - in.	7/8	
	Condensate drain (FPT) - in.	(2) 3/4	
Indoor Coil	Net face area - ft.²	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	Total Resistance	
		Dry Coil	Wet Coil
	cfm	in. w.g.	in. w.g.
NCHC18A	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
NCHC24A	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
NCHC24B	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
NCHC30A	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
NCHC30B	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
NCHC36A	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
NCHC36B	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	Total Resistance	
		Dry Coil	Wet Coil
	cfm	in. w.g.	in. w.g.
NCHC36C	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
NCHC42B	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
NCHC42C	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
NCHC48B	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
NCHC48C	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
NCHC60C	1200	0.15	0.16
	1400	0.20	0.23
	1600	0.25	0.29
	1800	0.31	0.36
	2000	0.40	0.44
	2200	0.48	0.54
NCHC60D	1400	0.12	0.16
	1600	0.16	0.20
	1800	0.20	0.24
	2000	0.24	0.30
	2200	0.29	0.36
	2400	0.34	0.42

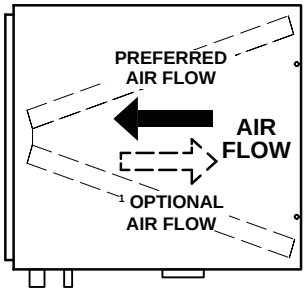
UNIT DIMENSIONS - IN. (MM)



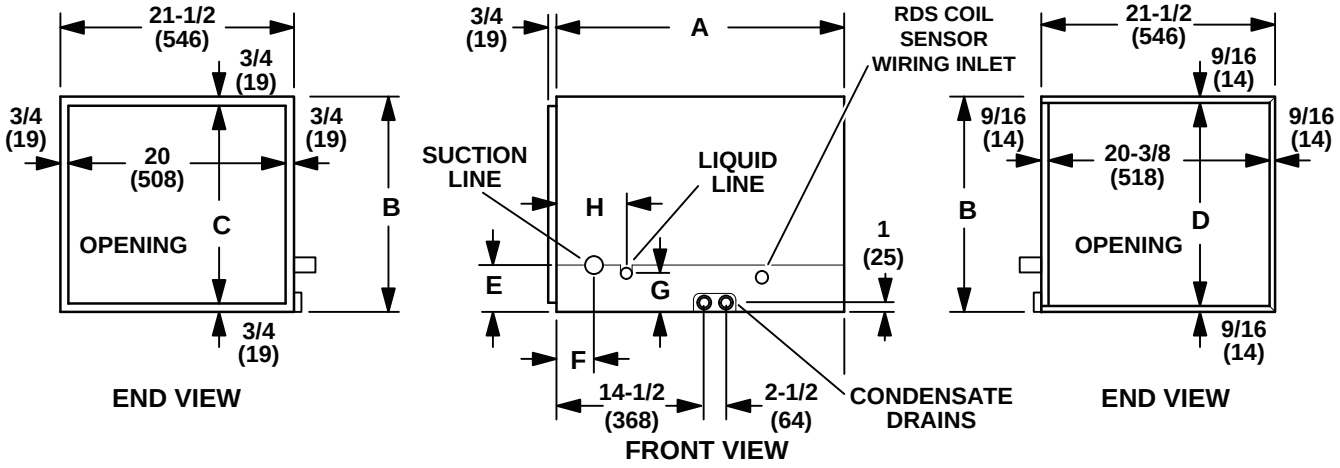
FURNACE/COIL COMBINED DIMENSIONS

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				

[1] Optional right-hand airflow requires a field fabricated 6 in. (152 mm) spacer in-between the furnace and coil.



TOP 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

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