



Thru-the-Wall Comfort

Heating & Cooling

Thru the Wall Split System Submittal Data

For Approval

Project:

Purchaser:

Date:

Condensing Units | Heat Pumps | Air Handlers | Cased Coils



National Comfort Products
A Division of National Refrigeration and Air Conditioning Products, Inc.
539 Dunksferry Road · Bensalem, PA 19020-5908
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Go Thru-the-Wall



Project:

NCP Condensing Unit Models

Plan Designation	Quantity	Model	Description	Page
		NCP5181000A**	1000 Series R454B 1.5 ton, Thru-the-Wall 208-230/1/60 13.0 SEER2*	4
		NCP5241000A**	1000 Series R454B 2.0 ton, Thru-the-Wall 208-230/1/60 13.0 SEER2*	4
		NCP5301000A**	1000 Series R454B 2.5 ton, Thru-the-Wall 208-230/1/60 12.5 SEER2*	4
		NCP5183000A**	3000 Series R454B 1.5 ton, Thru-the-Wall 208-230/1/60 13.5 SEER2*	5
		NCP5243000A**	3000 Series R454B 2.0 ton, Thru-the-Wall 208-230/1/60 13.5 SEER2*	5
		NCP5303000A**	3000 Series R454B 2.5 ton, Thru-the-Wall 208-230/1/60 12.5 SEER2*	5
		NCP5184000A**	4000 Series R454B 1.5 ton, Thru-the-Wall 208-230/1/60 13.0 SEER2*	6
		NCP5244000A**	4000 Series R454B 2.0 ton, Thru-the-Wall 208-230/1/60 13.0 SEER2*	6
		NCP5304000A**	4000 Series R454B 2.5 ton, Thru-the-Wall 208-230/1/60 12.2 SEER2*	7
		NCP5185000A**	5000 Series R454B 1.5 ton, Thru-the-Wall 208-230/1/60 14.5 SEER2*	7
		NCP5245000A**	5000 Series R454B 1.5 ton, Thru-the-Wall 208-230/1/60 14.5 SEER2*	7
		NCP5305000A**	5000 Series R454B 1.5 ton, Thru-the-Wall 208-230/1/60 13.5 SEER2*	7

*When matched with NAH5**MF Air Handlers

** This unit is charged with only 3.75 lbs of R454B. The installer must add charge to meet the required subcooling value provided in the installation manual

NHP Heat Pump Models

Plan Designation	Quantity	Model	Description	Page
		NHP5183000A**	3000 Series R454B 1.5 ton, Thru-the-Wall Heat Pump 208-230/1/60 12.5 SEER2*	8
		NHP5243000A**	3000 Series R454B 2.0 ton, Thru-the-Wall Heat Pump 208-230/1/60 12.5 SEER2*	8
		NHP5185000A**	5000 Series R454B 1.5 ton, Thru-the-Wall Heat Pump 208-230/1/60 13.5 SEER2*	9
		NHP5245000A**	5000 Series R454B 2.0 ton, Thru-the-Wall Heat Pump 208-230/1/60 13.5 SEER2*	9
		NHP5305000A**	3000 Series R454B 2.5 ton, Thru-the-Wall Heat Pump 208-230/1/60 13.0 SEER2*	9

*When matched with NAH5**MF Air Handlers

** This unit is charged with only 3.75 lbs of R454B. The installer must add charge to meet the required subcooling value provided in the installation manual



Project:

Air Handler Models

Plan Designation	Quantity	Model	Description	Page
		NA524MFA-L*	2 Ton Multi-Family Style Air Handler w/ Left Return 208/230/1/60	10
		NA524MFA-R*	2 Ton Multi-Family Style Air Handler w/ Right Return 208/230/1/60	10
		NA530MFA-L*	2.5 Ton Multi-Family Style Air Handler w/ Left Return 208/230/1/60	10
		NA530MFA-R*	2.5 Ton Multi-Family Style Air Handler w/ Right Return 208/230/1/60	10

Electric Heat Kit Options

Plan Designation	Quantity	Model	Description	Page
		CPEHK-03-A	3 kW Field Installed Electric Heat Kit	11
		CPEHK-05-A	5 kW Field Installed Electric Heat Kit	11
		CPEHK-07-A	7 kW Field Installed Electric Heat Kit	11
		CPEHK-10-A	10 kW Field Installed Electric Heat Kit	11
		CPEHK-15-A	15 kW Field Installed Electric Heat Kit	11

NCC Cased Coil Models

Plan Designation	Quantity	Model	Description	Page
		NCC518AA	1.5 Ton Cased Coil w/ TXV	12
		NCC524AA	2 Ton Cased Coil w/ TXV	12
		NCC530AA	2.5 Ton Cased Coil w/ TXV	12



Project:

NCP 1000 SERIES-Condensing Unit

Performance Data

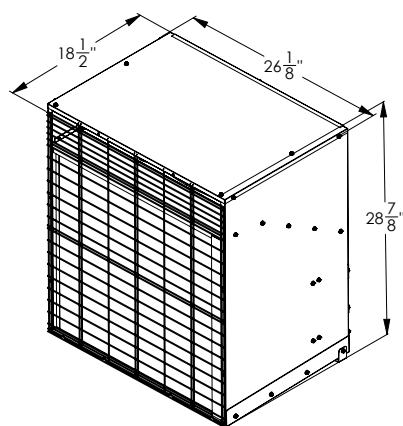
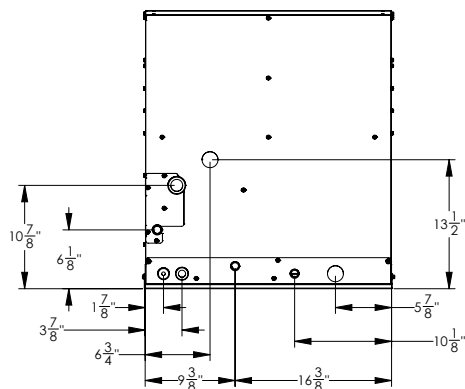
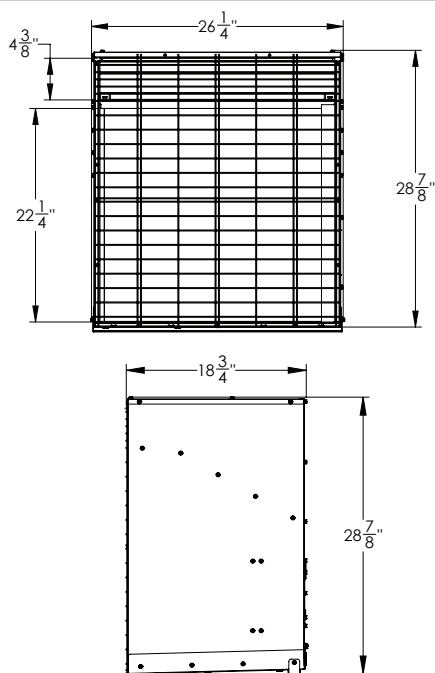
Models	Rated Capacity (Btu/h)	Dimensions	Efficiency Ratings	Shipping Weight
NCP5181000A-**	18,600	26 1/4" W x 28 5/8" H x 18 1/2" D	13.0 SEER2*	157 lbs
NCP5241000A-**	23,600	26 1/4" W x 28 5/8" H x 18 1/2" D	13.0 SEER2*	162 lbs
NCP5301000A-**	27,000	26 1/4" W x 28 5/8" H x 18 1/2" D	12.5 SEER2*	167 lbs

*When matched with NAH5**MF Air Handlers

Electrical Data

All Units 208/230-1-60Hz

Models	Compressor		MCA	MOP
	RLA	LRA		
NCP5181000A-**	7.2	47	10.3	15
NCP5241000A-**	9.2	59	12.8	20
NCP5301000A-**	10.4	71	15.1	25
Cond. Fan Motor	418/424	1/4 HP, 1600 RPM, 1.3 FLA		
	430	1/5 HP, 1650 RPM, 1.8 FLA		



Model #	Lineset ft./ oz								
	10	15	20	25	30	35	40	45	50
NCP5181000	92	94	96	98	100	102	104	106	108
NCP5241000	92	94	96	98	100	102	104	106	108
NCP5301000	96	98	100	102	104	106	108	110	112

Units factory charged with 60 oz. of R454B.

Estimated **total** refrigerant charge (oz.) based on lineset length (ft.)

These values will vary depending on the indoor unit, follow installation guide for proper charging requirements.

Note: Some dimensions that are shown in these drawings are measured between the edges of screw heads.



Project:

NCP 3000 SERIES-Condensing Unit

Performance Data

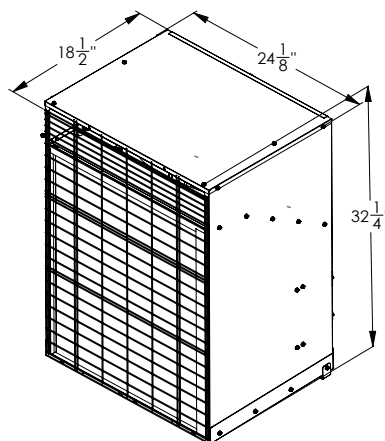
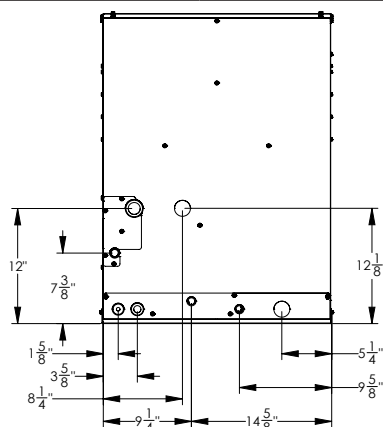
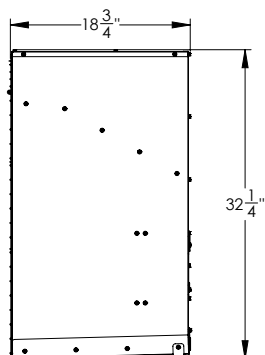
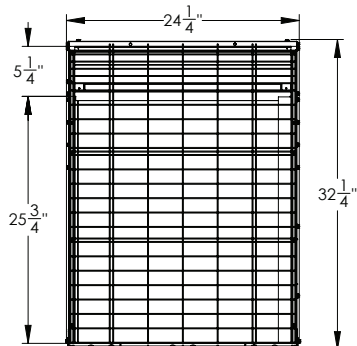
Models	Rated Capacity (Btu/h)	Dimensions	Efficiency Ratings	Shipping Weight
NCP5183000A-**	18,400	24 1/8" W x 32" H x 18 1/2" D	13.5 SEER2*	157 lbs
NCP5243000A-**	23,600	24 1/8" W x 32" H x 18 1/2" D	13.5 SEER2*	162 lbs
NCP5303000A-**	27,000	24 1/8" W x 32" H x 18 1/2" D	12.5 SEER2*	167 lbs

*When matched with NAH5**MF Air Handlers

Electrical Data

All Units 208/230-1-60Hz

Models	Compressor		MCA	MOP
	RLA	LRA		
NCP5183000A-**	7.2	47	10.3	15
NCP5243000A-**	9.2	59	12.8	20
NCP5303000A-**	10.4	71	15.1	25
Cond. Fan Motor	418/424	1/4 HP, 1600 RPM, 1.3 FLA		
	430	1/5 HP, 1650 RPM, 1.8 FLA		



Model #	Lineset ft./ oz								
	10	15	20	25	30	35	40	45	50
NCP5183000	91	93	95	97	99	101	103	105	107
NCP5243000	96	98	100	102	104	106	108	110	112
NCP5303000	97	99	101	103	105	107	109	111	113

Units factory charged with 60 oz. of R454B.
Estimated **total** refrigerant charge (oz.) based on lineset length (ft.)
These values will vary depending on the indoor unit, follow installation guide for proper charging requirements.

Note: Some dimensions that are shown in these drawings are measured between the edges of screw heads.



Project:

NCP 4000 SERIES-Condensing Unit

Performance Data

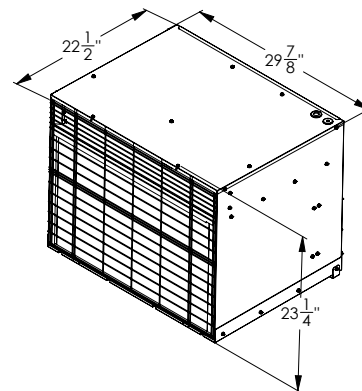
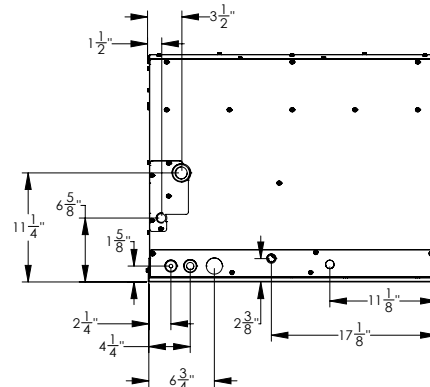
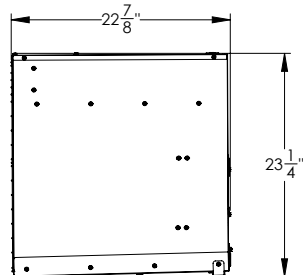
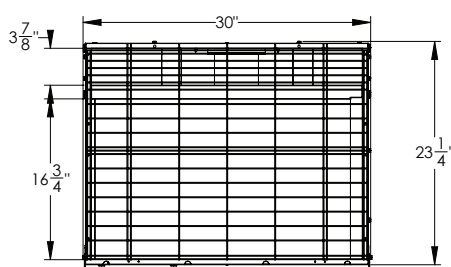
Models	Rated Capacity (Btu/h)	Dimensions	Efficiency Ratings	Shipping Weight
NCP5184000A-**-	18,600	30" W x 23" H x 22 1/2" D	13.0 SEER2*	157 lbs
NCP5244000A-**-	23,600	30" W x 23" H x 22 1/2" D	13.0 SEER2*	167 lbs
NCP5304000A-**-	26,800	30" W x 23" H x 22 1/2" D	12.2 SEER2*	167 lbs

*When matched with NAH5**MF Air Handlers

Electrical Data

All Units 208/230-1-60Hz

Models	Compressor		MCA	MOP
	RLA	LRA		
NCP5184000A-**-	7.2	47	11	15
NCP5244000A-**-	9.2	59	13.5	20
NCP5304000A-**-	10.4	71	15.1	25
Cond. Fan Motor	1/5 HP, 1650 RPM, 1.8 FLA			



Model #	Lineset ft./ oz								
	10	15	20	25	30	35	40	45	50
NCP5184000	81	83	85	87	89	91	93	95	97
NCP5244000	94	96	98	100	102	104	106	108	110
NCP5304000	92	94	96	98	100	102	104	106	108

Units factory charged with 60 oz. of R454B.
Estimated **total** refrigerant charge (oz.) based on lineset length (ft.).
These values will vary depending on the indoor unit, follow installation guide for proper charging requirements.

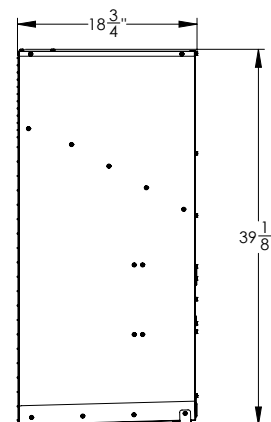
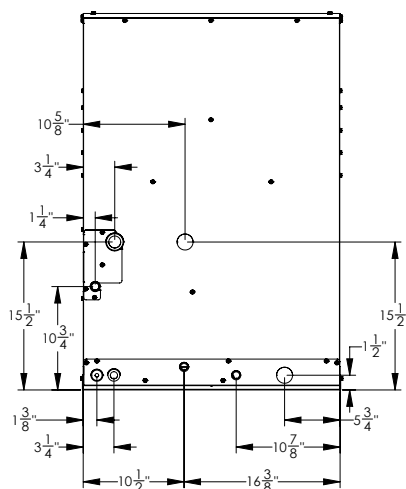
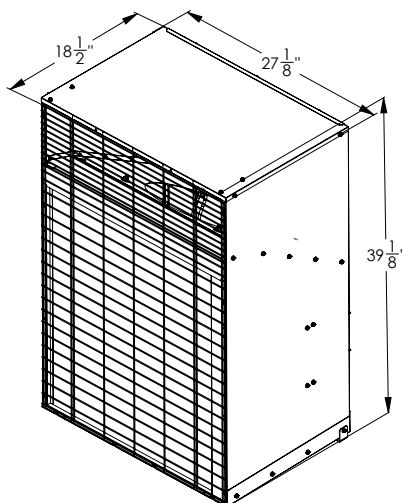
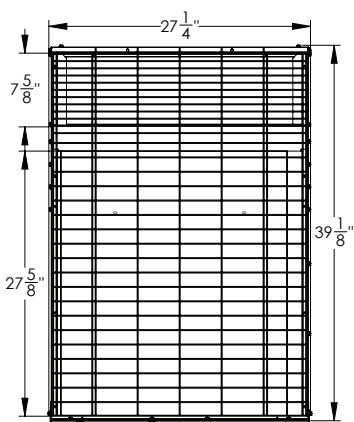
Note: Some dimensions that are shown in these drawings are measured between the edges of screw heads.

NCP 5000 SERIES-Condensing Unit

Performance Data				
Models	Rated Capacity (Btu/h)	Dimensions	Efficiency Ratings	Shipping Weight
NCP5185000A-**-	18,500	26 7/8" W x 38 7/8" H x 18 1/2" D	14.5 SEER2*	167 lbs
NCP5245000A-**-	24,800	26 7/8" W x 38 7/8" H x 18 1/2" D	14.5 SEER2*	182 lbs
NCP5305000A-**-	28,400	26 7/8" W x 38 7/8" H x 18 1/2" D	13.5 SEER2*	187 lbs

*When matched with NAH5**-MF Air Handlers

Electrical Data				
All Units 208/230-1-60Hz				
Models	Compressor		MCA	MOP
	RLA	LRA		
NCP5185000A-**-	7.2	47	11	15
NCP5245000A-**-	9.0	63	13.2	20
NCP5305000A-**-	12.5	67	17.6	30
Cond. Fan Motor	1/5 HP, 1650 RPM, 1.8 FLA			



Model #	Lineset ft./ oz								
	10	15	20	25	30	35	40	45	50
NCP5185000	114	116	118	120	122	124	126	128	130
NCP5245000	108	110	112	114	116	118	120	122	124
NCP5305000	112	114	116	118	120	122	124	126	128

Units factory charged with 60 oz. of R454B.
Estimated **total** refrigerant charge (oz.) based on lineset length (ft.)
These values will vary depending on the indoor unit, follow installation guide for proper charging requirements.

Note: Some dimensions that are shown in these drawings are measured between the edges of screw heads.



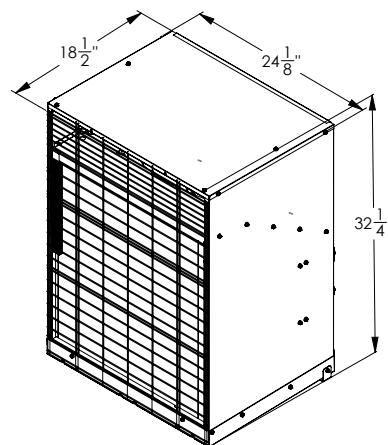
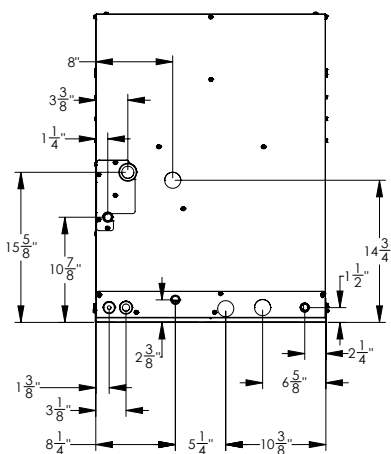
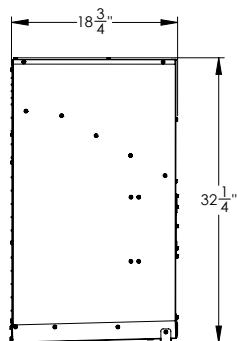
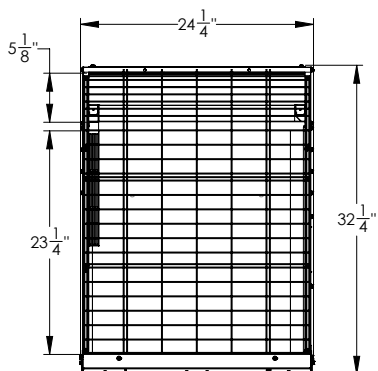
Project:

NHP 3000 SERIES-Heat Pump

Performance Data					
Models	Rated Capacity (Btu/h)	Rated Heating Capacity (Btu/h)	Dimensions	Efficiency Ratings	Shipping Weight
NHP5183000A-**	17,800	@ 47°F - 15,800	24 1/8" W x 32" H x 18 1/2" D	12 SEER2*	167 lbs
		@ 35°F - 12,500			
		@ 17°F - 9,900			
NHP5243000A-**	22,400	@ 47°F - 19,500	24 1/8" W x 32" H x 18 1/2" D	12 SEER2*	167 lbs
		@ 35°F - 15,300			
		@ 17°F - 11,800			

*When matched with NAH5**MF Air Handlers

Electrical Data				
All Units 208/230-1-60Hz				
Models	Compressor		MCA	MOP
	RLA	LRA		
NHP5183000A-**	7.2	47	10.3	15
NHP5243000A-**	9.2	59	12.8	20
Cond. Fan Motor	1/4 HP, 1600 RPM, 1.3 FLA			



Model #	Lineset ft./ oz								
	10	15	20	25	30	35	40	45	50
NHP5183000	80	82	84	86	88	90	92	94	96
NHP5243000	80	82	84	86	88	90	92	94	96

Units factory charged with 60 oz. of R454B.
Estimated **total** refrigerant charge (oz.) based on lineset length (ft.)
These values will vary depending on the indoor unit, follow installation guide for proper charging requirements.

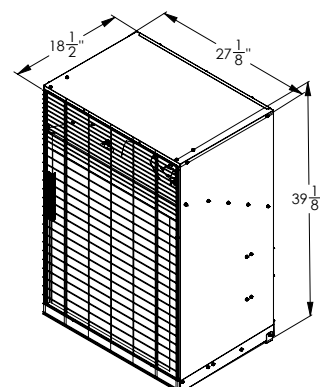
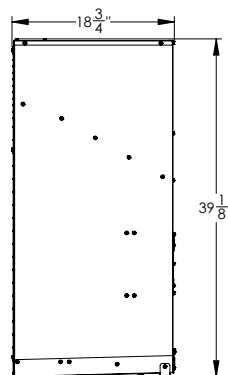
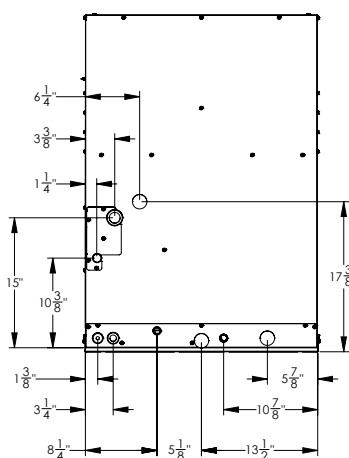
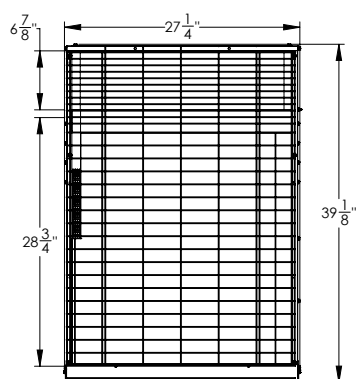
Note: Some dimensions that are shown in these drawings are measured between the edges of screw heads.

NHP 5000 SERIES-Heat Pump

Performance Data					
Models	Rated Capacity (Btu/h)	Rated Heating Capacity (Btu/h)	Dimensions	Efficiency Ratings	Shipping Weight
NHP5185000A-**-	17,800	@ 47°F - 16,000	26 7/8" W x 38 7/8" H x 18 1/2" D	13.5 SEER2*	187 lbs
		@ 35°F - 12,900			
		@ 17°F - 9,900			
NHP5245000A-**-	23,800	@ 47°F - 21,000	26 7/8" W x 38 7/8" H x 18 1/2" D	13.5 SEER2*	197 lbs
		@ 35°F - 17,200			
		@ 17°F - 12,400			
NHP5305000A-**-	26,800	@ 47°F - 23,000	26 7/8" W x 38 7/8" H x 18 1/2" D	13.0 SEER2*	202 lbs
		@ 35°F - 18,900			
		@ 17°F - 13,200			

*When matched with NAH5**MF Air Handlers

Electrical Data				
All Units 208/230-1-60Hz				
Models	Compressor		MCA	MOP
	RLA	LRA		
NHP5185000A-**-	7.2	47	11.0	15
NHP5245000A-**-	9.0	63	13.2	20
NHP5305000A-**-	10.4	71	15.1	25
Cond. Fan Motor	1/5 HP, 1650 RPM, 1.8 FLA			



Model #	Lineset ft./ oz							
	10	15	20	25	30	35	40	50
NHP5185000	90	92	94	96	98	100	102	106
NHP5245000	83	85	87	89	91	93	95	99
NHP5305000	93	95	97	99	101	103	105	109

Units factory charged with 60 oz. of R454B.
Estimated **total** refrigerant charge (oz.) based on lineset length (ft.)
These values will vary depending on the indoor unit, follow installation guide for proper charging requirements.

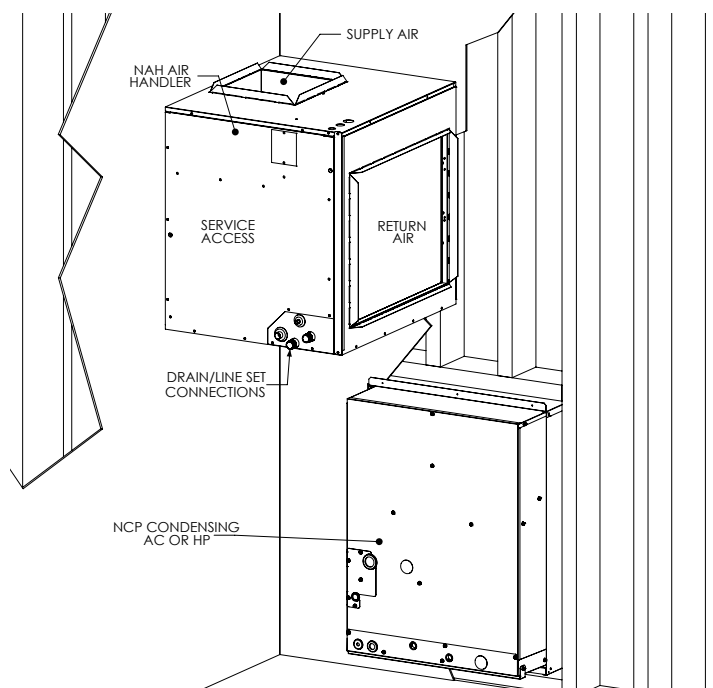
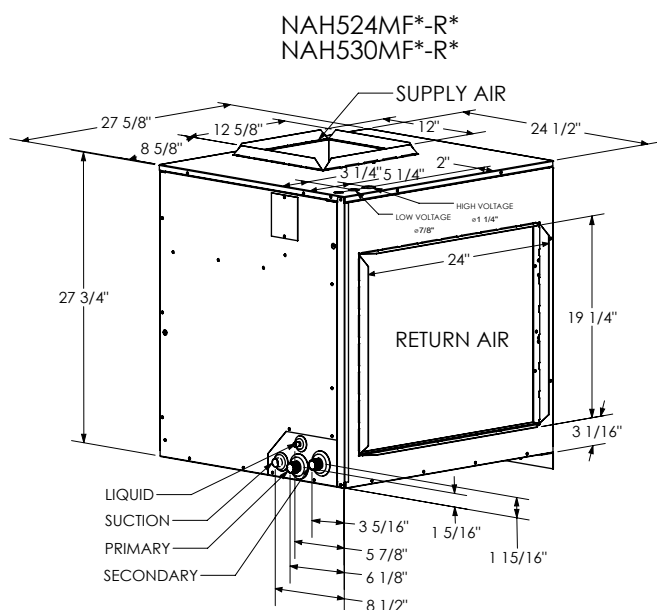
Note: Some dimensions that are shown in these drawings are measured between the edges of screw heads.

Multi-Family Style Air Handler NAH-MF Series

Performance Data									
All units 208/230V 1 Ph 60 Hz									
Model	Nominal Capacity (Btu/h)	Size (tons)	Nominal Air Flow ¹ (CFM)		Motor RPM	FLA	MCA	MOP	Filter Size
NAH524MFA-L*	24,000	2.0 Ton	560	960	1050	3.8	5	15	24" x 20"
NAH524MFA-R*									
NAH530MFA-L*	30,000	2.5 Ton							
NAH530MFA-R*									
Flow Control	Adjustable TXV with Internal Check valve for Heat pump operation							Line Size	3/8" & 3/4"

1. The nominal airflow range is given at 0.3" ESP

Dimensional Data					
Model	Dimensions inch (mm)				Shipping Weight
	Height	Width	Depth	Line Sizes	
NAH524MFA-L*	27 3/4"	24 1/2"	27 5/8"	3/8 liq. 3/4 Suct.	145 Lbs
NAH524MFA-R*					150 Lbs
NAH530MFA-L*					
NAH530MFA-R*					





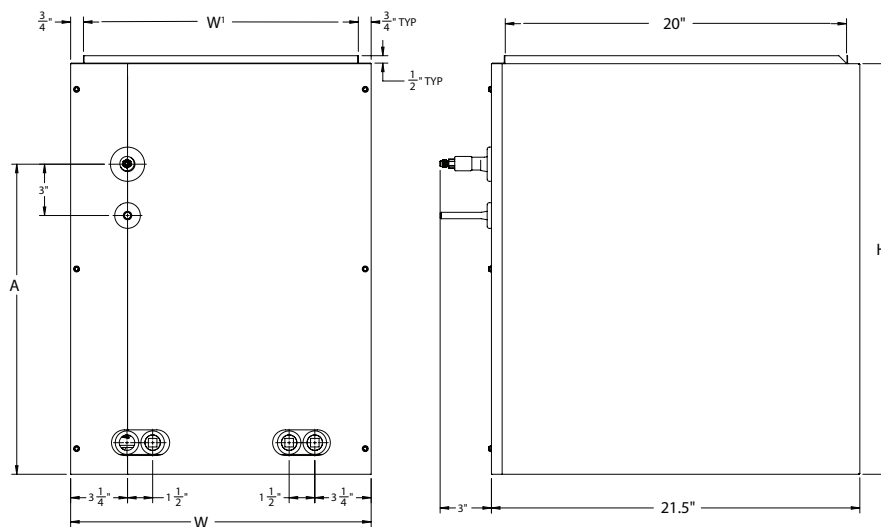
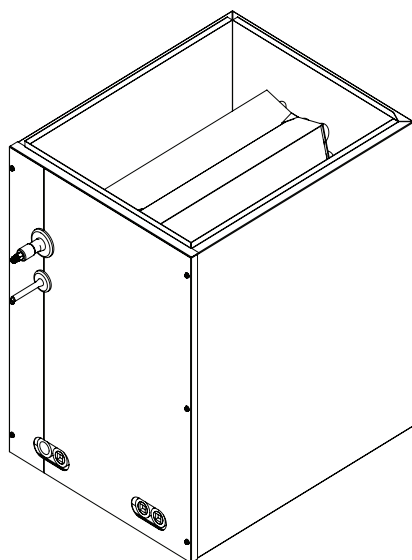
Project:

Electric Heat Kit Option

Electrical Data with NAH-MF Series												
Blower Motor Amps		Heat Option	Heating Btuh		Heating kW		Heater Amps		MCA (Min. Circuit Ampacity)		Max. Fuse or Breaker Size	
208 V	230 V		208 V	230 V	208 V	230 V	208 V	230 V	208 V	230 V	208 V	230 V
3.8	3.6	None	0	0	0	0	0	0	5.0	5.0	15	15
		CPEHK-03-A	8,900	10,900	2.61	3.19	12.6	13.9	20.5	21.9	25	25
		CPEHK-05-A	13,100	16,000	3.84	4.69	18.4	20.4	27.8	29.9	30	35
		CPEHK-07-A	18,300	22,400	5.36	6.56	25.8	28.6	37.0	40.3	40	45
		CPEHK-10-A	26,000	32,000	7.62	9.38	36.7	40.7	50.6	55.3	60	60
		CPEHK-15-A	39,000	48,000	11.43	14.06	36.8	40.6	49.1	53.8	50	60
							18.4	20.3	24.6	26.9	30	30

Cased Coil NCC Series - R454B Models

Dimensional Data										
Model	Size (tons)	Flow Control	Liquid Line	Suction Line	Cabinet Width (W)	Cabinet Depth	Supply Opening Width (W')	Supply Opening Depth	Cabinet Height (H)	Shipping Weight
NCC518AA	1.5 Tons	Adj. TXV	3/8"	3/4"	17.50"	21.50"	16"	20"	20.50"	56 lbs.
NCC524AA	2 Tons				17.50"	21.50"	16"	20"	24.50"	62 lbs.
NCC530AA	2.5 Tons				21.00"	21.50"	19.50"	20"	28.50"	75 lbs.



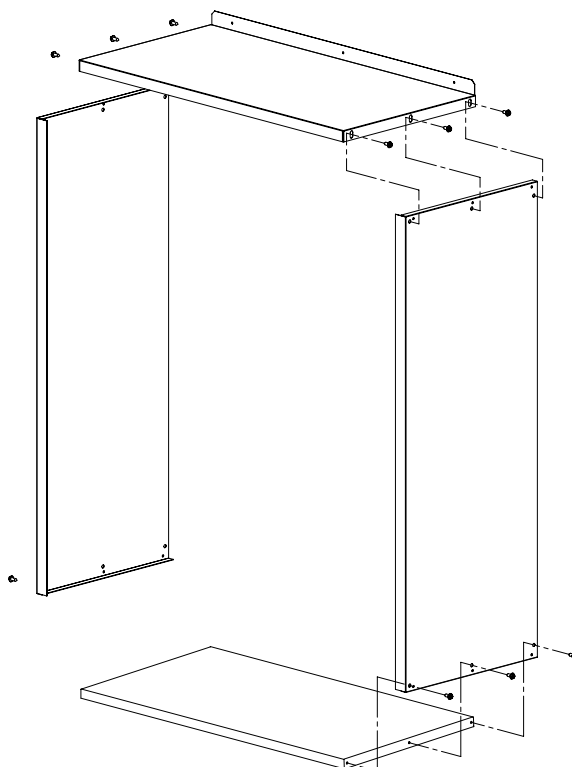
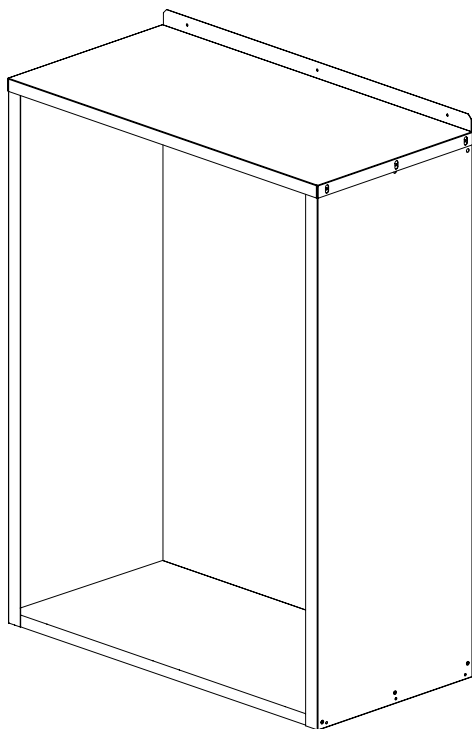
Wall Sleeve

1000 -WSD-12
 26 $\frac{1}{8}$ " W x 29 $\frac{1}{8}$ " H
 Rough in at 27 $\frac{1}{8}$ " W x 30 $\frac{1}{8}$ " H

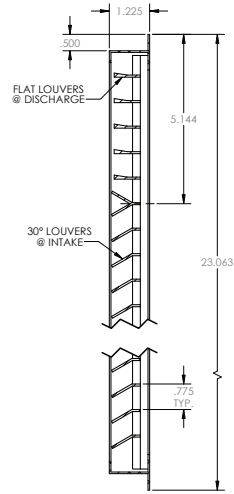
3000 -WSD-12
 24 $\frac{1}{8}$ " W x 33 H
 Rough in at 25 $\frac{1}{8}$ " W x 33 $\frac{1}{2}$ " H

4000 -WSD-12
 30 $\frac{1}{8}$ " W x 24" H
 Rough in at 31 $\frac{1}{8}$ " W x 24 $\frac{1}{2}$ " H

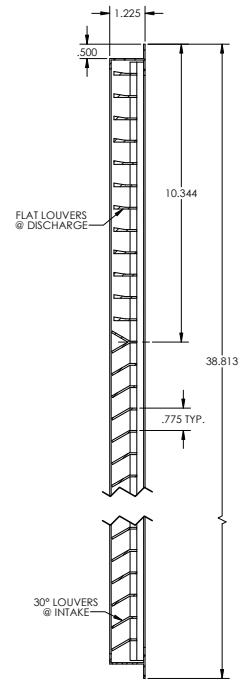
5000 -WSD-12
 28" W x 39 $\frac{1}{8}$ " H
 Rough in at 28 $\frac{1}{2}$ " W x 40 $\frac{1}{8}$ " H



14269037 (4000) (anodized aluminum finish)
14269037-P (4000) (painted finish)



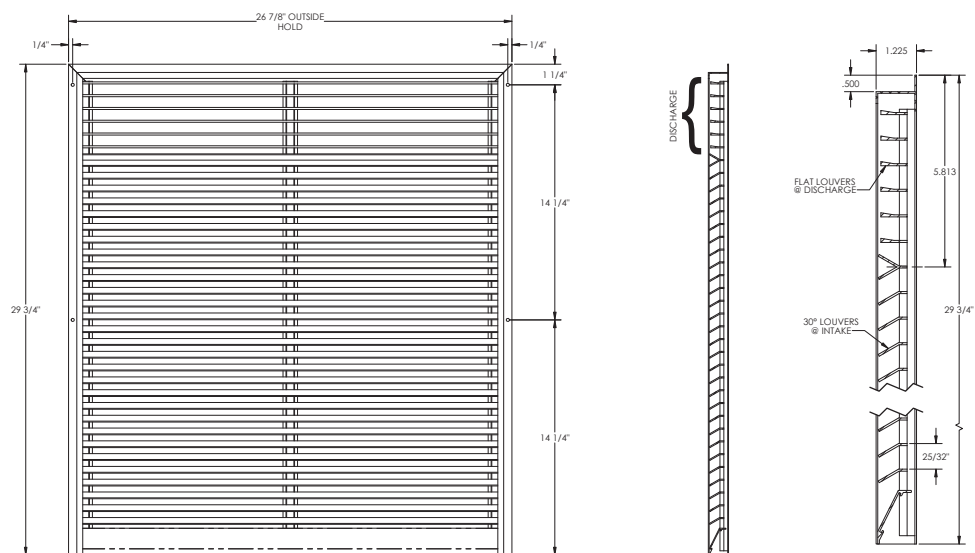
14269038-P (5000) (painted finish)



Architectural Louver Grilles to fit sleeve

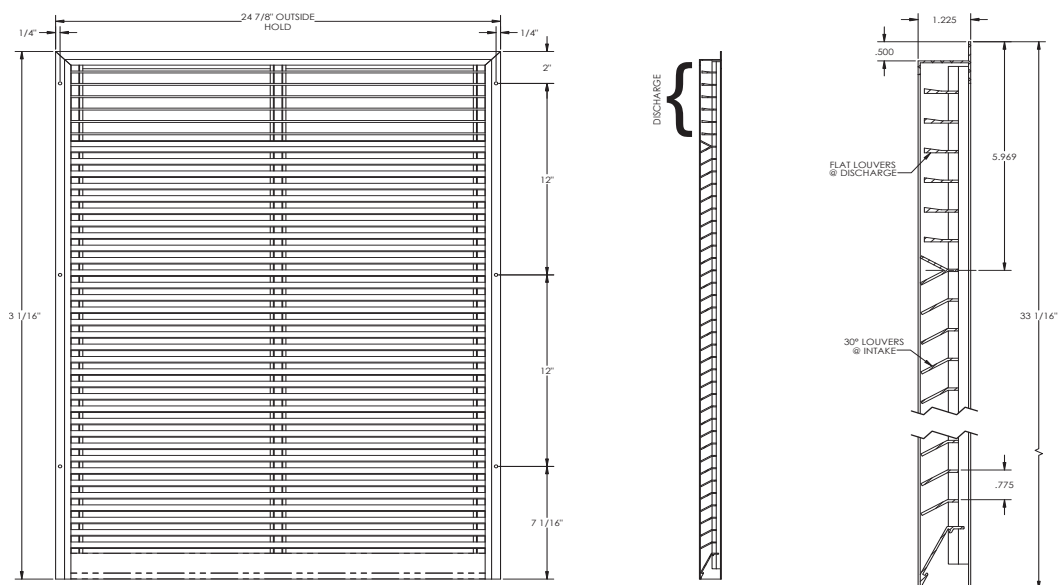
14269035-S (1000) (anodized aluminum finish)

14269035-SP (1000) (painted finish)



14269036-S (3000) (anodized aluminum finish)

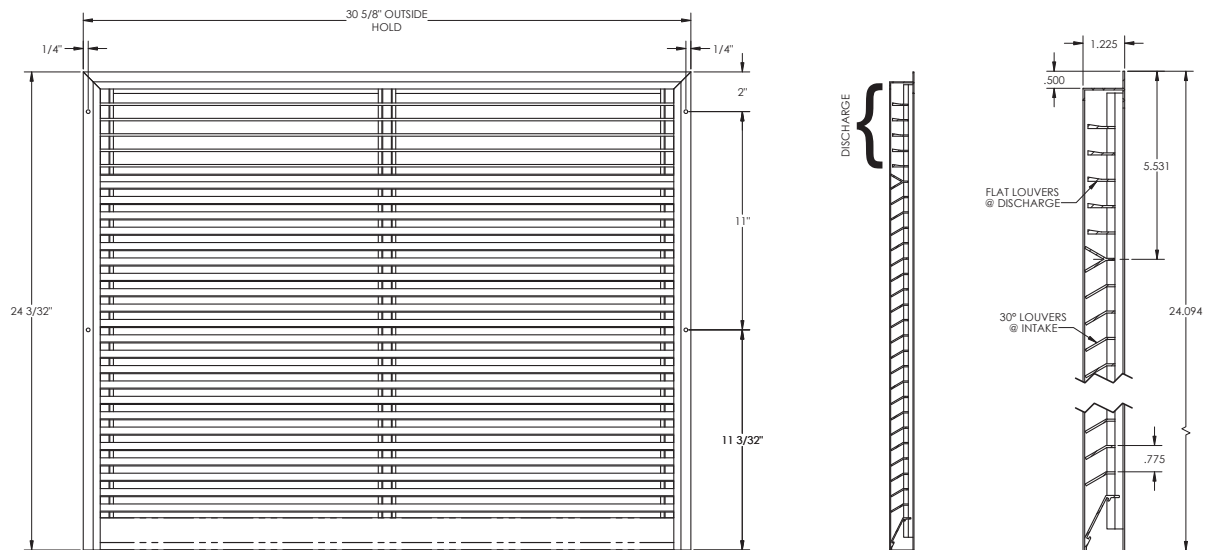
14269036-SP (3000) (painted finish)



Architectural Louver Grilles to fit sleeve

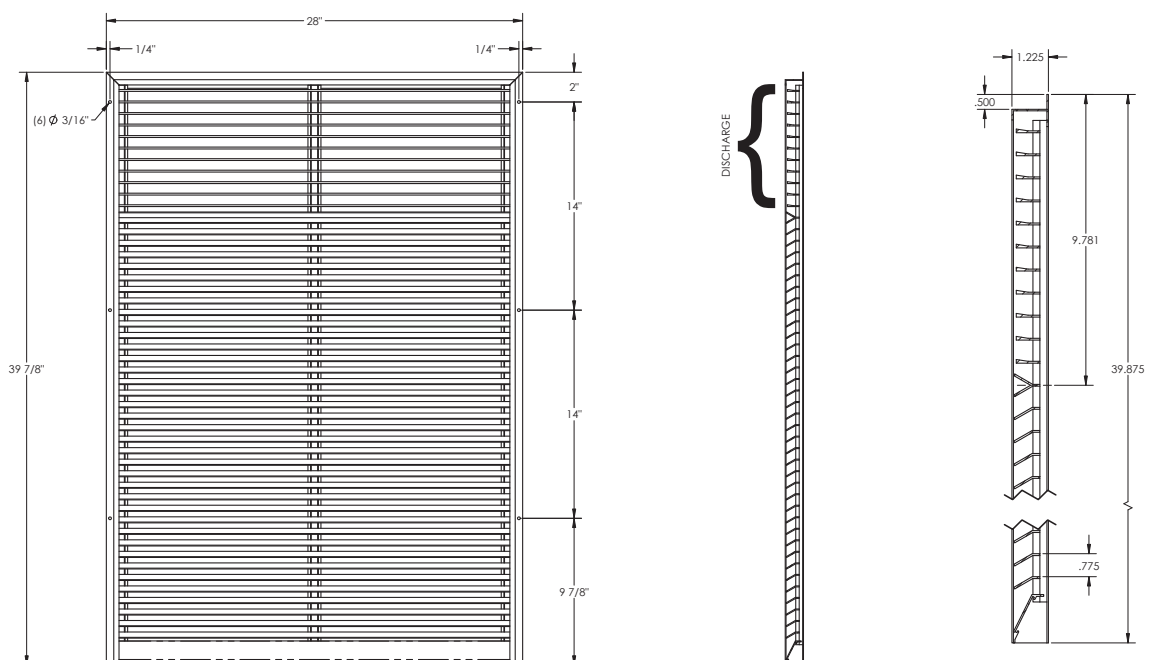
14269037-S (4000) (anodized aluminum finish)

14269037-SP (4000) (painted finish)



14269038-S (5000) (anodized aluminum finish)

14269038-SP (5000) (painted)



Notes



National Comfort Products

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Thru the Wall Split System
Warranty



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