



National Comfort Products

Thru-the-Wall Heating & Cooling



Thru-the-Wall Split Systems



Go Thru-the-Wall

Parts
Lookup



Cross
Reference



Thru-the-Wall Advantages

- Easily serviced in any weather condition
- Less expensive installation
- Eliminates both ground clutter and need for roof penetration
- No theft or vandalism
- Less refrigerant charge required
- Shorter copper tubing runs
- Separate meter savings
- Better overall appearance
- Avoids costs associated with new building code requirements for flammable refrigerants



Thru-the-Wall Condensing Unit & Heat Pump FEATURES

- Units are compatible with NCP Air Handlers or certain other air handlers with ECM motors
- Heavy-duty, water resistant cabinet
- R454B high efficiency compressor
- Easy access to condenser fan
- Efficiency Options up to 14.5 SEER2
- Brass service valves
- Available in 1.5 to 2.5 ton sizes
- Easy Access Control Box



Go Thru-the-Wall

Air Handler FEATURES

- Available in 2 ton and 2.5 ton options to cover 1.5 to 2.5 ton capacity systems
- Optional field-installed electric heat kits available in 3, 5, 7, 10 or 15kW
- Cabinet constructed of galvanized sheet metal
- Fully insulated for conditioned space
- Left and right hand options
- Equipped with A2L mitigation device for occupant safety

Performance

- ECM motor on all models
- Suspended motor for quieter operation
- Adjustable R-454B TXV included
- Achieves optimum efficiency when paired with NCP Condensing Units and NHP Heat Pumps

Easy to install and service

- Front service access
- Primary and secondary drain connections
- Low profile, fits above thru the wall condensing units, heat pumps and certain water heaters
- No return-air ductwork required in specific applications
- Wall hanging brackets included



Cased Coil FEATURES

- Available for 1.5 to 2.5 ton capacity systems
- Ready for both left and right hand drain requirements
- Copper Tube Aluminum Fin
- Upflow/downflow compatible
- Field-installed A2L mitigation device available for occupant safety

Performance

- Adjustable R454B TXV for optimum performance
- Matches available with all NCP Condensing Units



Go Thru-the-Wall



ncp

Take Back

Outdoor Living

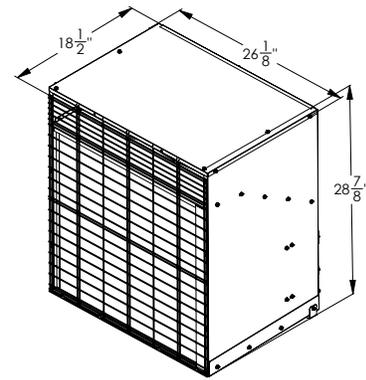
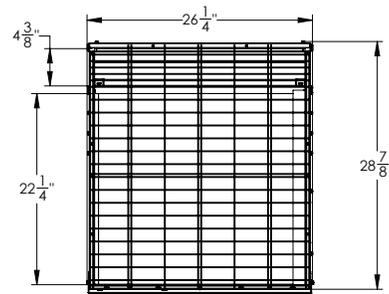
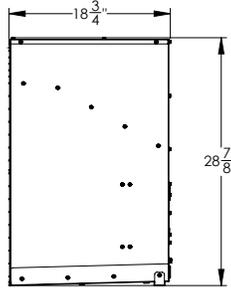
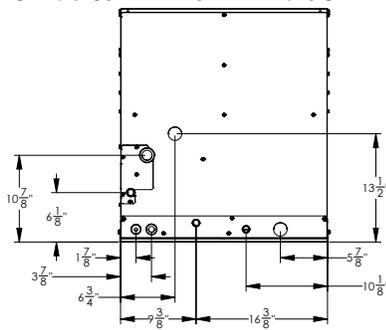
Utilize every space in your design with our
Thru-the-Wall Split Systems.

NCP - Condensing Unit Electrical & Dimensional Data

1000 Series w/matches up to 13.0 SEER2*					
All Units 208/230-1-60Hz					
Model	Shipping weight (lbs)	Compressor		MCA	MOP
		RLA	LRA		
NCP5181000A-**	157	7.2	47	10.3	15
NCP5241000A-**	162	9.2	59	12.8	20
NCP5301000A-**	167	10.4	71	15.1	25
Cond. Fan Motor Specs		418/424		1/4 HP, 1600 RPM, 1.3 FLA	
		430		1/5 HP, 1650 RPM, 1.8 FLA	
Condenser Coil Specs		3.61 ft ² Face Area, 16 FPI			
Dimensions		26 1/4" W x 28 5/8" H x 18 1/2" D			
Liquid Valve		3/8"	Suction Valve	3/4"	

** 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.

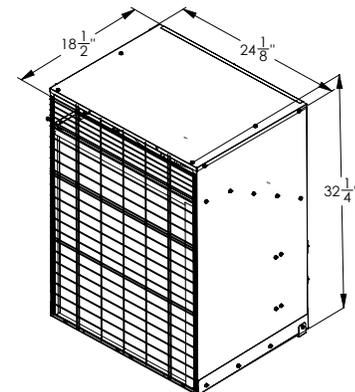
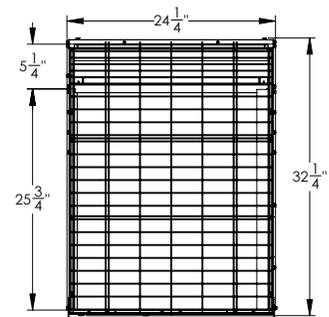
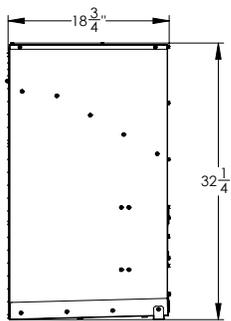
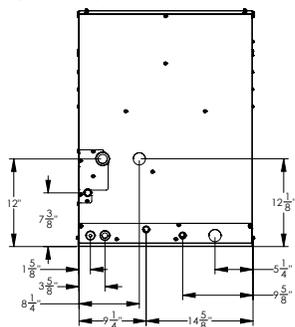
* When matched with NAH5**MF Air Handler



3000 Series w/matches up to 13.5 SEER2*					
All Units 208/230-1-60Hz					
Model	Shipping Weight (lbs)	Compressor		MCA	MOP
		RLA	LRA		
NCP5183000A-**	157	7.2	47	10.3	15
NCP5243000A-**	162	9.2	59	12.8	20
NCP5303000A-**	167	10.4	71	15.1	25
Cond. Fan Motor Specs		418/424		1/4 HP, 1600 RPM, 1.3 FLA	
		430		1/5 HP, 1650 RPM, 1.8 FLA	
Condenser Coil Specs		3.77 ft ² Face Area, 16 FPI			
Dimensions		24 1/8" W x 32" H x 18 1/2" D			
Liquid Valve		3/8"	Suction Valve	3/4"	

** 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.

* When matched with NAH5**MF Air Handler



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

NCP - Condensing Unit Electrical & Dimensional Data

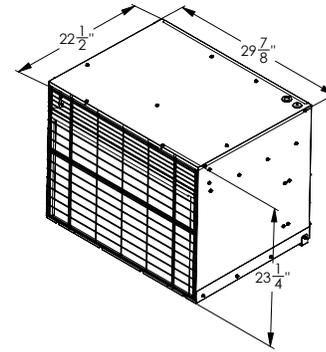
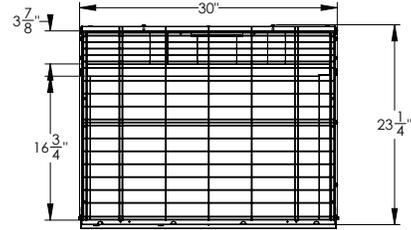
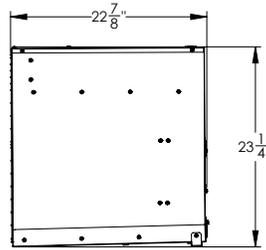
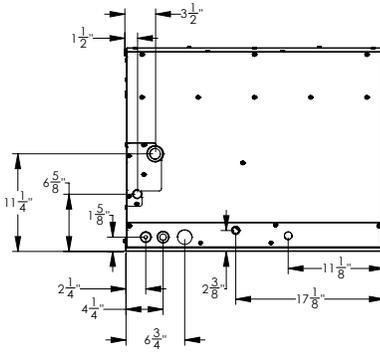
4000 Series w/matches up to 13.0 SEER2*

All Units 208/230-1-60Hz

Model	Shipping Weight (lbs)	Compressor		MCA	MOP
		RLA	LRA		
NCP5184000A-**	157	7.2	47	11	15
NCP5244000A-**	167	9.2	59	13.5	20
NCP5304000A-**	167	10.4	71	15.1	25
Cond. Fan Motor		1/5 HP, 1650 RPM, 1.8 FLA			
Condenser Coil Specs		3.14 ft ² Face Area, 16 FPI			
Dimensions		30" W x 23" H x 22 1/2" D			
Liquid Valve	3/8"	Suction Valve		3/4"	
Liquid Valve	3/8"	Suction Valve		3/4"	

** 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.

* When matched with NAH5**MF Air Handler



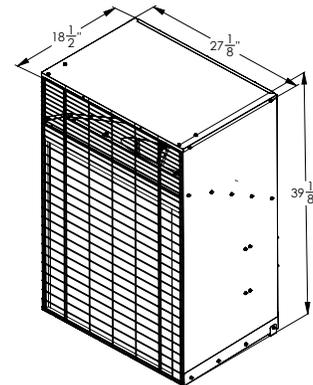
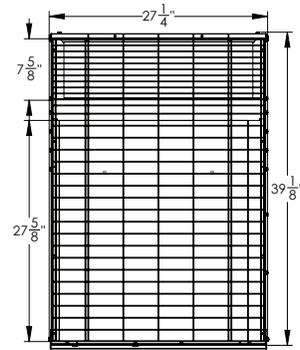
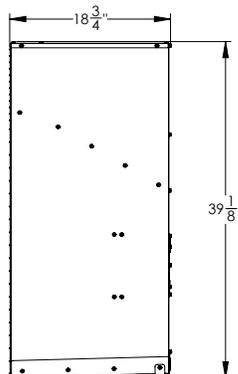
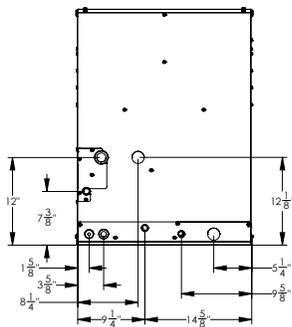
5000 Series w/matches up to 14.5 SEER2*

All Units 208/230-1-60Hz

Model	Shipping weight (lbs)	Compressor		MCA	MOP
		RLA	LRA		
NCP5185000A-**	167	7.2	47	11	15
NCP5245000A-**	182	9.0	63	13.2	20
NCP5305000A-**	187	12.5	67	17.6	30
Cond. Fan Motor		1/5 HP, 1650 RPM, 1.8 FLA			
Condenser Coil		418		4.59 ft ² Face Area, 16 FPI	
		424/430		4.59 ft ² Face Area, 14 FPI	
Dimensions		26 7/8" W x 38 7/8" H x 18 1/2" D			
Liquid Valve	3/8"	Suction Valve		3/4"	

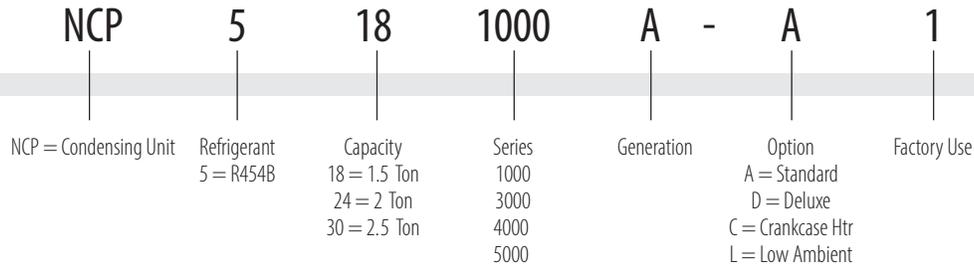
** This unit is charged with only 3.75 lbs of R454B. The installer must add charge to meet the required subcooling value provided in the installation manual.

* When matched with NAH5**MF Air Handler



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

NCP - Condensing Unit Performance Data



Matching Air Handlers

Outdoor Model	Indoor Model	Rated EER2 ¹	Rated Capacity	Nominal Airflow (SCFM)	SEER2	Replaces
1000 Series						
NCP5181000A-**-**	NAH524MFA-**-**	11.7	18,600	580	13.0	Bryant, Carrier, Day & Night, Dunham-Bush, Lennox, Magic Chef, Meyer, Payne, First Co., U.S. A/C (BB)
NCP5241000A-**-**	NAH530MFA-**-**	11.5	23,600	790	13.0	
NCP5301000A-**-**	NAH530MFA-**-**	10.8	27,000	930	12.5	
3000 Series						
NCP5183000A-**-**	NAH524MFA-**-**	11.7	18,400	580	13.5	Carrier, Fedders, Dunham-Bush, Lennox, Magic Chef, Meyer, Rheem, First Co., U.S. A/C (AB)
NCP5243000A-**-**	NAH530MFA-**-**	11.6	23,600	790	13.5	
NCP5303000A-**-**	NAH530MFA-**-**	11.0	27,000	930	12.5	
4000 Series						
NCP5184000A-**-**	NAH524MFA-**-**	11.5	18,600	580	13.0	Dunham-Bush, Hydro-Therm Space Pack, Lennox, Luxaire York, First Co., U.S. A/C (CB)
NCP5244000A-**-**	NAH530MFA-**-**	11.5	23,600	790	13.0	
NCP5304000A-**-**	NAH530MFA-**-**	10.6	26,800	930	12.2	
5000 Series						
NCP5185000A-**-**	NAH524MFA-**-**	12.4	18,500	580	14.5	First Co. (WMU)
NCP5245000A-**-**	NAH530MFA-**-**	12.4	24,800	790	14.5	
NCP5305000A-**-**	NAH530MFA-**-**	11.6	28,400	930	13.5	

Matching Cased Coils

Outdoor Model	Indoor Model	Rated EER2 ¹	Rated Capacity	Nominal Airflow (SCFM)	SEER2
1000 Series					
NCP5181000A-**-**	NCC518AA-*	10.5	18,000	610	11.7
NCP5241000A-**-**	NCC524AA-*	10.5	23,600	820	11.7
NCP5301000A-**-**	NCC530AA-*	10.2	27,400	890	11.7
3000 Series					
NCP5183000A-**-**	NCC518AA-*	10.5	17,800	615	11.7
NCP5243000A-**-**	NCC524AA-*	10.5	23,600	820	11.7
NCP5303000A-**-**	NCC530AA-*	10.2	27,400	890	11.7
4000 Series					
NCP5184000A-**-**	NCC518AA-*	10.5	18,000	620	11.7
NCP5244000A-**-**	NCC524AA-*	10.5	23,400	820	11.7
NCP5304000A-**-**	NCC530AA-*	10.2	26,800	910	11.7
5000 Series					
NCP5185000A-**-**	NCC518AA-*	11.0	18,000	610	12.3
NCP5245000A-**-**	NCC524AA-*	11.2	24,800	820	12.3
NCP5305000A-**-**	NCC530AA-*	11.0	29,000	920	12.3

NHP - Heat Pump Electrical & Dimensional Data

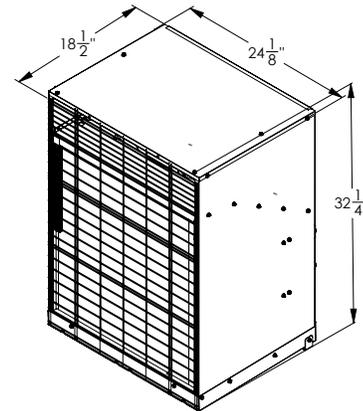
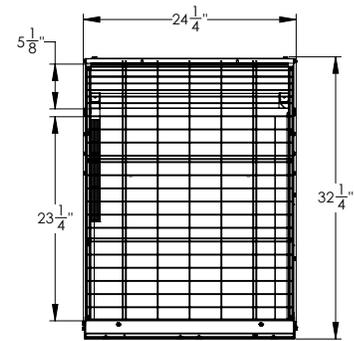
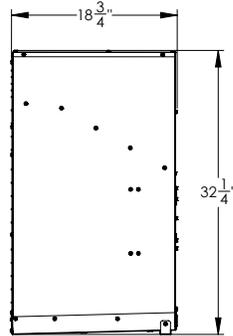
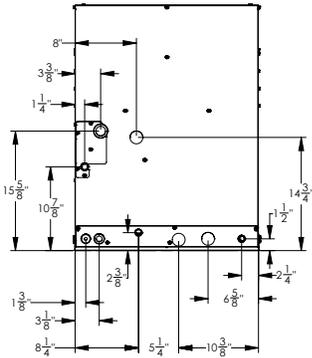
3000 Series w/matches up to 12.5 SEER2*

All Units 208/230-1-60Hz

Model	Shipping Weight (lbs)	Compressor		MCA	MOP
		RLA	LRA		
NHP5183000A-**	167	7.2	47	10.3	15
NHP5243000A-**	167	9.2	59	12.8	20
Cond. Fan Motor Specs		1/4 HP, 1600 RPM, 1.3 FLA			
Condenser Coil Specs		3.43 ft ² Face Area, 16 FPI			
Dimensions		24 1/8" W x 32" H x 18 1/2" D			
Liquid Valve		3/8"	Suction Valve	3/4"	

** 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.

* When matched with NAH5**MF Air Handler



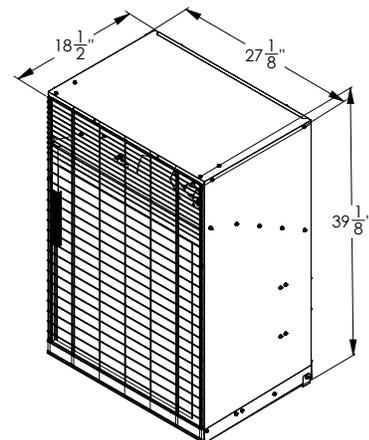
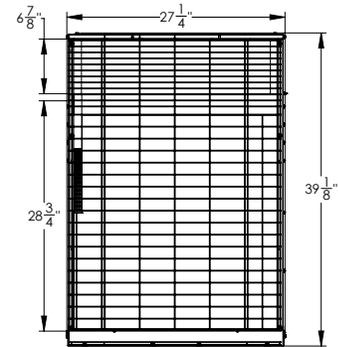
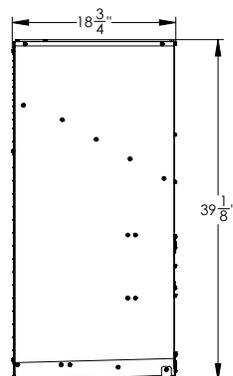
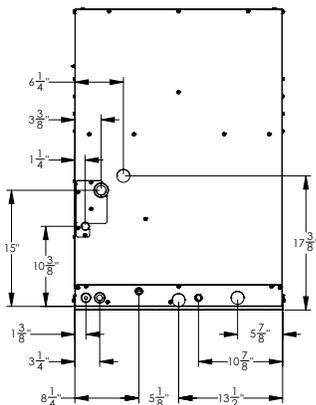
5000 Series w/ matches up to 13.5 SEER2*

All Units 208/230-1-60Hz

Model	Shipping Weight (lbs)	Compressor		MCA	MOP
		RLA	LRA		
NHP5185000A-**	187	7.2	47	11.0	15
NHP5245000A-**	197	9.0	63	13.2	20
NHP5305000A-**	202	10.4	71	15.1	25
Cond. Fan Motor		1/5 HP, 1650 RPM, 1.8 FLA			
Condenser Coil Specs		4.49 ft ² Face Area, 16 FPI			
Dimensions		26 7/8" W x 38 7/8" H x 18 1/2" D			
Liquid Valve		3/8"	Suction Valve	3/4"	

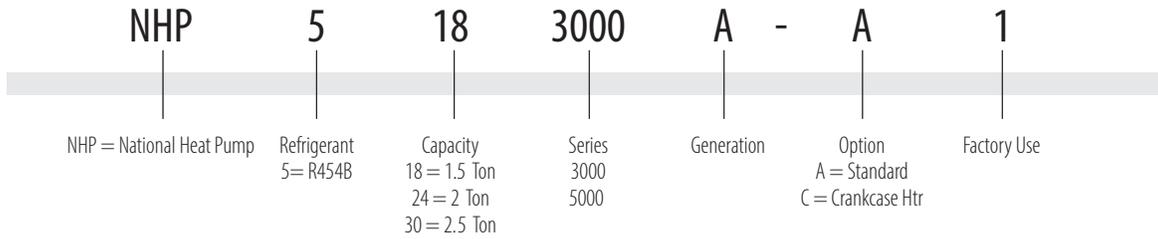
** This unit is charged with only 3.75 lbs of R454B. The installer must add charge to meet the required subcooling value provided in the installation manual.

* When matched with NAH5**MF Air Handler



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

NHP - Heat Pump Performance Data



NHP Thru the Wall Heat Pumps matched with Air Handler - Cooling Data

Outdoor Model	Indoor Model	Indoor Model Speed	Rated Capacity (Btu/h)	Rated EER ²	Nominal Airflow ² (SCFM)	SEER ²	Liquid Subcool ⁴ (°F)	Suction Superheat ⁵ (°F)
3000 Series								
NHP5183000A-**-**	NAH524MFA-**-**	Black (2)	17,800	11.4	580	12.5	12-16	11-15
NHP5243000A-**-**	NAH524MFA-**-**	Blue (3)	22,400	10.7	770	12.5	15-19	11-15
5000 Series								
NHP5185000A-**-**	NAH524MFA-**-**	Black (2)	17,800	11.9	580	13.5	11-15	14-18
NHP5245000A-**-**	NAH524MFA-**-**	Blue (3)	23,800	11.6	770	13.5	7-11	12-16
NHP5305000A-**-**	NAH530MFA-**-**	Yellow (4)	26,800	11.3	890	13.0	13-17	12-16

- EER2 is determined based on the Evaporator match listed in this table
- Airflow values are determined at wet coil conditions
- SEER2 is determined base on the Evaporator match listed in this table
- Subcooling must be measured at condenser liquid valve
- Superheat must be measured at evaporator outlet at suction line
- Suction superheat may be achieved by adjusting the TXV in the indoor unit

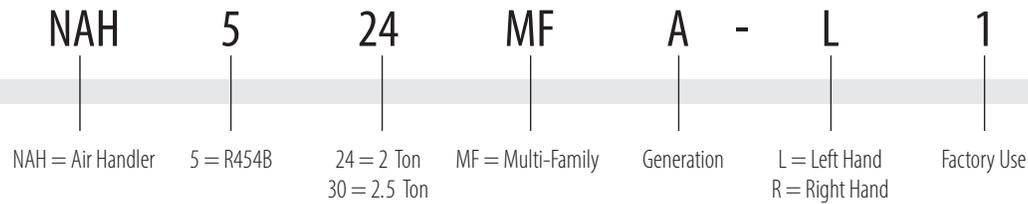
NHP Thru the Wall Heat Pumps matched with Air Handler - Heating Data

Outdoor Model	Indoor Model	Indoor Motor Speed	Rated Capacity (47°F)(Btu/h)	Rated COP ²	Nominal Airflow ² (SCFM)	Rated Capacity (35°F)(Btu/h)	Rated Capacity (17°F)(Btu/h)	HSPF ²	Liquid Subcool ⁴ (°F)	Suction Superheat ^{5,6} (°F)
3000 Series										
NHP5183000A-**-**	NAH524MFA-**-**	Black (2)	15,800	3.20	580	12,500	9,900	6.8	12-16	7-11
NHP5243000A-**-**	NAH524MFA-**-**	Blue (3)	19,500	3.20	770	15,300	11,800	6.8	11-15	8-12
5000 Series										
NHP5185000A-**-**	NAH524MFA-**-**	Black (2)	16,000	3.30	580	12,900	9,900	7.0	15-19	7-11
NHP5245000A-**-**	NAH524MFA-**-**	Blue (3)	21,000	3.50	770	17,200	12,400	7.2	13-17	8-12
NHP5305000A-**-**	NAH530MFA-**-**	Yellow (4)	23,000	3.30	890	18,900	13,200	7.2	14-18	8-12

- COP2 is based on the air handler match listed in this table and is measured at 47 °F OD ambient
- The airflow values are determined in heating mode
- HSPF2 is based on the air handler match listed in this table
- Subcooling must be measured at the outdoor service valve when running in heating mode at 47 °F OD ambient
- Superheat must be measured at the compressor suction line using the suction port
- Suction superheat may be achieved by adjusting the TXV in the outdoor unit



NAH - Air Handler



Performance Data

Model	Nominal Capacity (Btu/h)	Size (tons)	Nominal Air Flow ¹ (CFM)		Motor HP	Motor RPM	FLA	MCA	MOP	Filter Size
NAH524MF*-L*	24,000	2 Ton	560	960	1/2	1050	3.8	5	15	24" x 20"
NAH524MF*-R*										
NAH530MF*-L*	30,000	2.5 Ton	560	960	1/2	1050	3.8	5	15	24" x 20"
NAH530MF*-R*										
Flow Control	Bi-flow Adjustable TXV						Line Size		3/8" & 3/4"	

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

Electrical Data

Blower Motor Amps		Heater Model	Heating Btuh		Heating kW		Heater Amps		MCA (Min. Circuit Ampacity)		Max Fuse or Breaker Size	
230V	208V		208V	230V	208V	230V	208V	230V	208V	230V	208V	230V
3.6	3.8	None	0	0	0	0	0	0	5	5	15	15
		CPEHK-03-A	8,900	10,900	2.62	3.20	12.60	13.91	20.5	21.9	25	25
		CPEHK-05-A	13,100	16,000	3.83	4.68	18.41	20.35	27.8	29.9	30	35
		CPEHK-07-A	18,400	22,400	5.37	6.58	25.82	28.61	37.0	40.3	40	45
		CPEHK-10-A	26,000	32,000	7.64	9.35	36.73	40.65	50.7	55.3	60	60
		CPEHK-15-A	39,200	47,800	11.47	14.02	36.76	40.64	49.1	53.8	50	60
							18.38	20.32	24.6	26.9	30	30

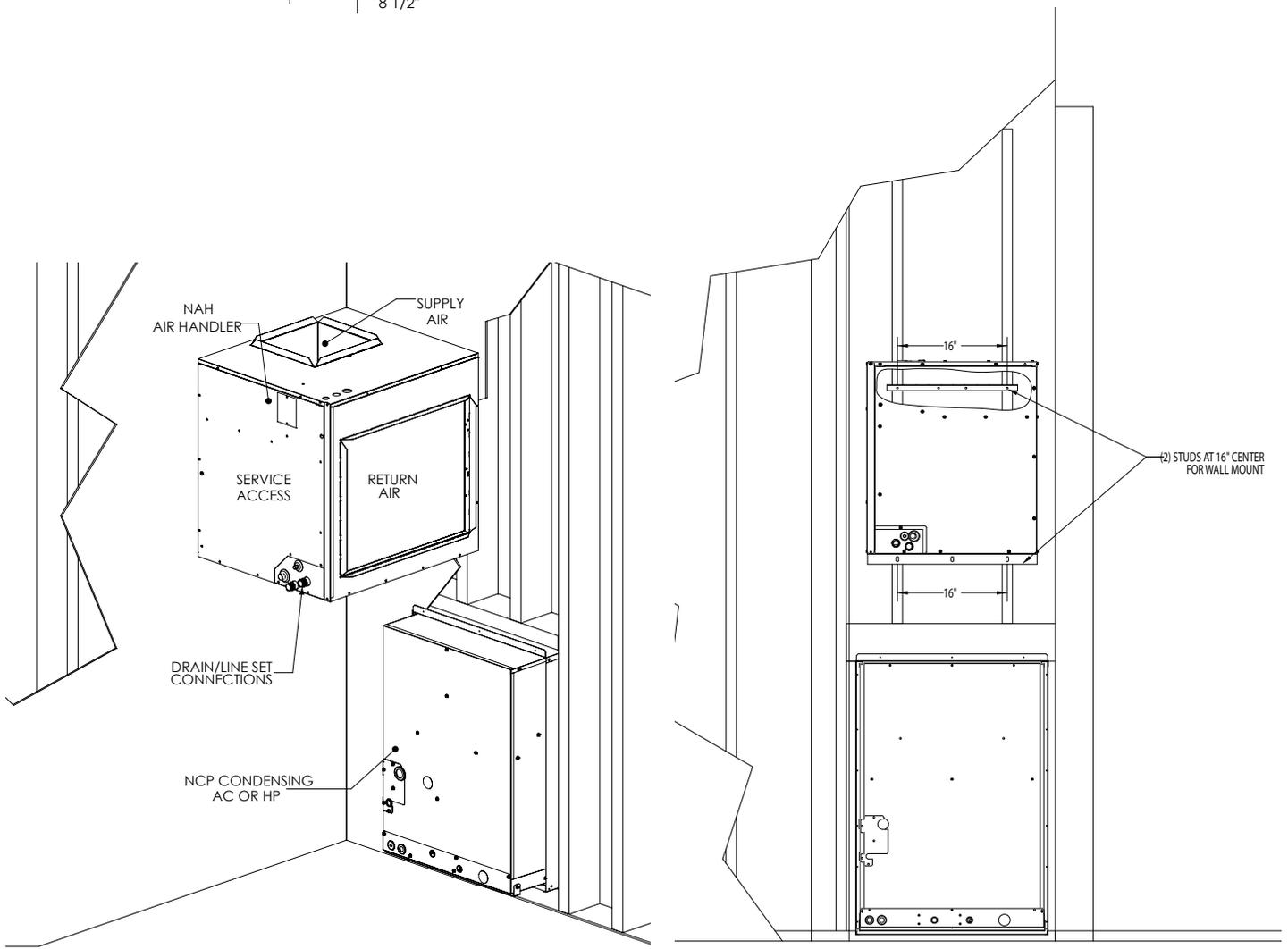
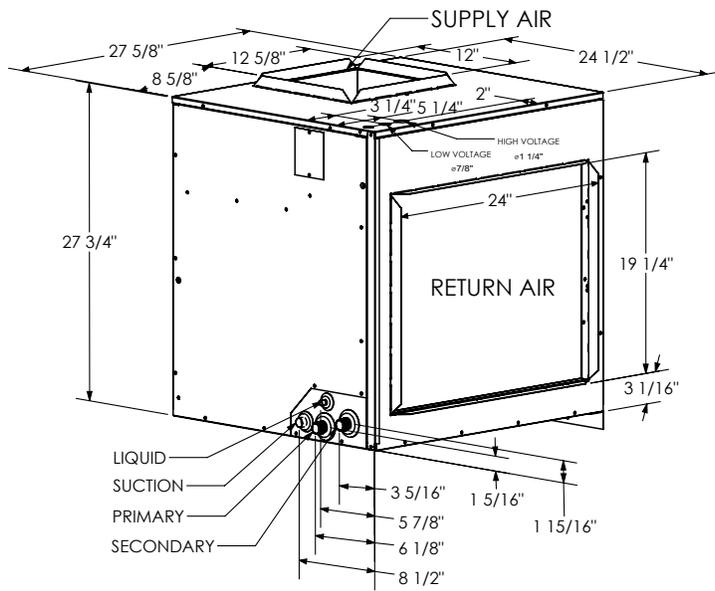
Air Flow Data

Model Size	Blower Speeds	Standard CFM					
		0 in. wc.	0.1 in. wc.	0.2 in. wc.	0.3 in. wc.	0.4 in. wc.	0.5 in. wc.
NAH524MF*-L*	Orange (Low)	717	675	624	563	493	414
	Black (Med. Low)	801	719	648	588	539	501
NAH524MF*-R*	Blue (Med.)	947	905	862	819	775	731
NAH530MF*-L*	Yellow (Med. High)	1050	1006	964	924	886	849
NAH530MF*-R*	Red (High)	1090	1042	998	959	924	893

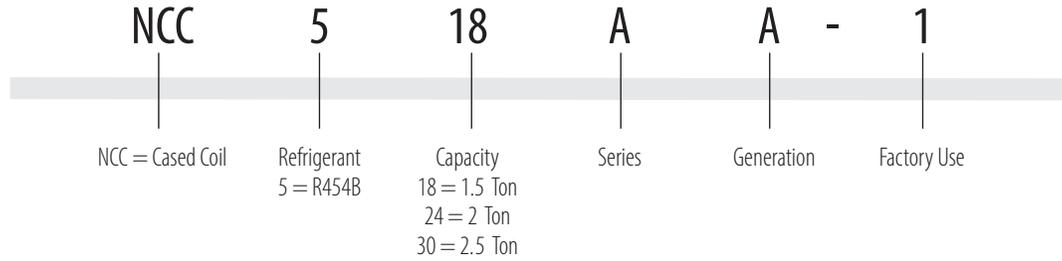
Operating Range

Model	Voltage-phase-Hz	Voltage Operating Range	
		Min.	Max
NAH524MF*-L*	208/230 - 1~ - 60	187	253
NAH524MF*-R*			
NAH530MF*-L*			
NAH530MF*-R*			

NAH - Air Handler Dimensional Data

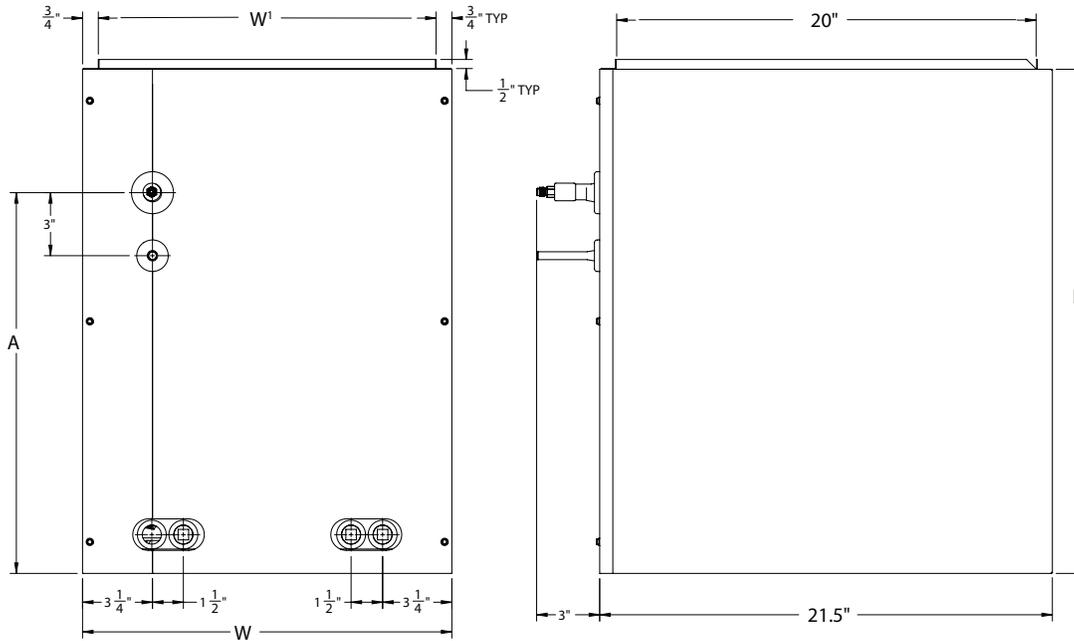


NCC - Cased Coil



Unit Dimensions

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	1.5 Ton	Adj. TXV	3/8"	3/4"	17.50"	21.50"	16"	20"	20.50"	56 lbs.
NCC524AA-1	2 Ton				17.50"	21.50"	16"	20"	24.50"	62 lbs.
NCC530AA-1	2.5 Ton				21.00"	21.50"	19.50"	20"	28.50"	75 lbs.



Accessory

NCCA2L-KIT	Field-installed A2L mitigation kit for R454B
------------	--

Note: Required for occupant safety.**

ncp National Comfort Products
 A Division of National Refrigeration and Air Conditioning Products, Inc.
 539 Dunksferry Road · Bensalem, PA 19020-5908
 (800) 523-7138
www.nationalcomfortproducts.com



All specifications are subject to change without notice.

Spec NCP Split System 2025