R-454B Split Systems

1000 | 2000 | 3000 | 4000 | 5000 Series

1.5-2.5
TONS
Capacity choices across product families

5
SIZES
Cabinet profiles for varied wall openings

R-454B
REFRIGERANT
Condensing unit & heat pump available

A coordinated R-454B split system approach to multifamily design.

Just go Thru-the-wall

NCP split systems remove outdoor condensing units and heat pumps from roofs, balconies, and landscaped areas while retaining matched indoor equipment. Five condenser cabinet series and two heat pump cabinet series support replacement, conversion, renovation, and new-construction utilizing R-454B.

Go Thru-the-Wall

Parts Lookup

Cross Reference

AHRI CERTIFIED® www.ahridirectory.org

A complete wall-integrated split system family.

Condensing units, heat pumps, compatible air handlers, and matched cased coils.

FIVE CABINET SIZES

Two product families. Multilple wall profiles.

- **1000 | 2000 | 3000 | 4000 | 5000**
- **R-454B**
- **1.5-2.5 TONS**
- **UP TO 14.5 SEER2**

CONDENSING UNITS

- Compatible with NCP air handlers & cased coils, and 3rd party air handlers
- Heavy-duty, water resistant cabinet
- R-454B high efficiency compressor
- Available in 1.5, 2.0, and 2.5 ton capacities
- Easy access to condenser fan & control box
- Brass service valves

HEAT PUMPS

- Compatible with NCP air handlers and 3rd party air handlers
- Heavy-duty, water resistant cabinet
- R-454B high efficiency compressor
- Available in 1.5, 2.0, and 2.5 ton capacities
- Easy access to condenser fan & control box
- Brass service valves

R-454B COMPATIBLE **Matched flexibility inside the building**

NAH AIR HANDLER

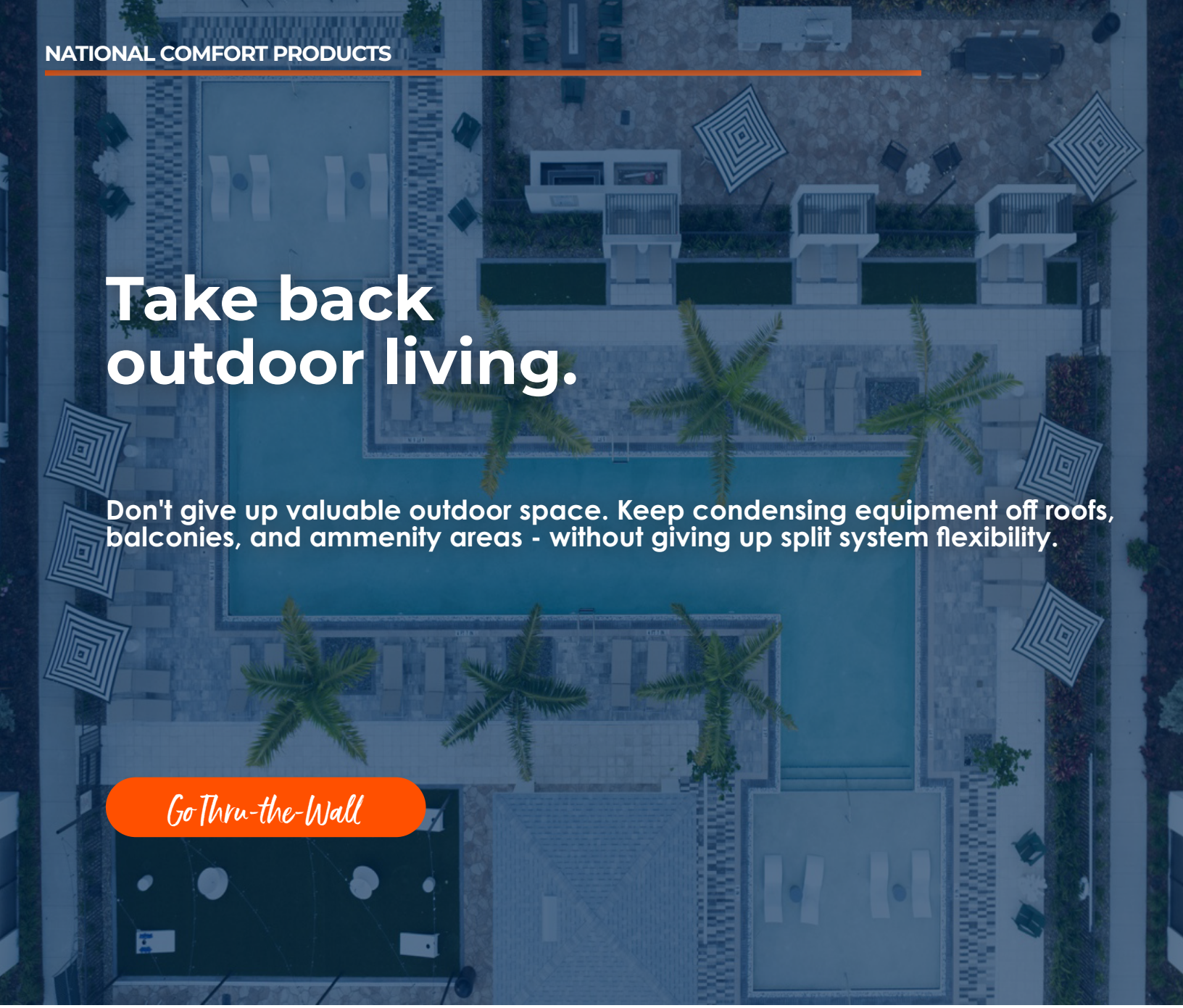
NAH air handlers offer 1.5- to 2.5-ton capacities, left- or right-hand configurations, and optional 3–15 kW heat kits. Front service access, dual drains, and wall brackets simplify installation and maintenance. Achieve optimal efficiency when paired with NCP condensing units and heat pumps.

- 2.0 to 2.5 ton capacities
- ECM motor on all models
- Adjustable R-454B TXV
- Equipped with A2L mitigation device for occupant safety

NCCA CASED COIL

NCCA cased coils support upflow and downflow applications, left or right -hand drain arrangements, and field-installed refrigerant-specific TXVs. A factory-installed A2L kit supports occupant safety.

- 1.5 to 2.5 ton capacities
- Copper tube / aluminum fin
- Upflow / downflow compatible
- R-454B and R-32 -compatible TXV options



Take back outdoor living.

Don't give up valuable outdoor space. Keep condensing equipment off roofs, balconies, and ammenity areas - without giving up split system flexibility.

Go Thru-the-Wall

01

CLEARER SITE PLANS

No ground-level condenser clutter.

02

FEWER ROOF IMPACTS

Reduce rooftop equipment & penetrations.

03

FLOOR-BY-FLOOR WORK

Install and service closer to each residence.

R-454B Condensing Units.....Pg 4
R-454B Heat Pumps.....Pg 7
Air Handlers .....Pg 9
Cased Coils .....Pg 10
Nomenclatures.....Pg 11

1000 & 2000 Series | Electrical & Dimensional Data

Cabinet dimensions, electrical requirements, valves, and component data.

1000 SERIES | with matches up to 13.0 SEER2 *

All units 208/230-1-60 Hz

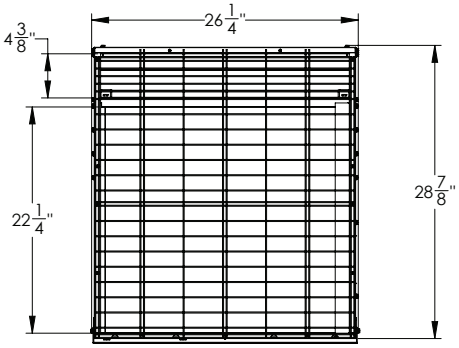
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP5181000A-**	157	7.2	47	10.3	15
NCP5241000A-**	162	9.2	59	12.8	20
NCP5301000A-**	167	10.4	71	15.1	25

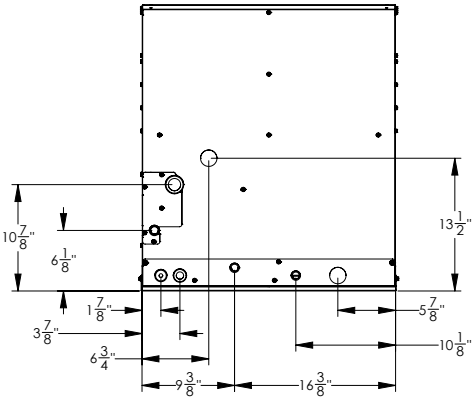
COND. FAN MOTOR 418/424: 1/4 HP, 1600 RPM, 1.3 FLA
430: 1/5 HP, 1650 RPM, 1.8 FLA

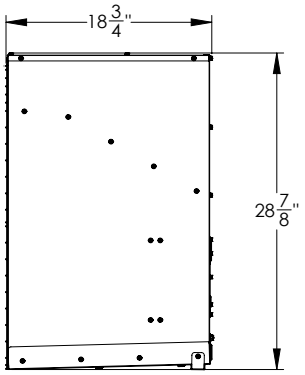
CONDENSER COIL 3.61 ft² Face Area, 16 FPI

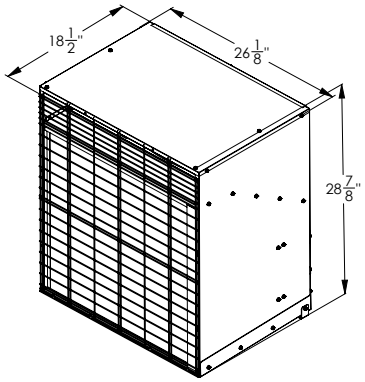
DIMENSIONS 26 1/4" W x 28 5/8" H x 18 1/2" D

CONNECTIONS 3/8" liquid valve | 3/4" suction valve









2000 SERIES | with matches up to 12.8 SEER2 * NEW

All units 208/230-1-60 Hz

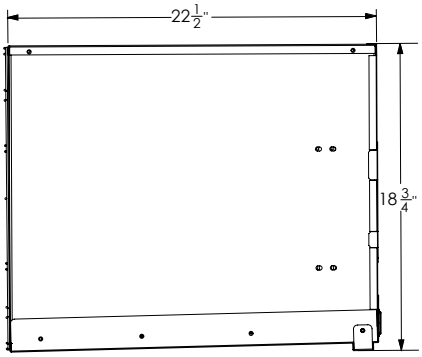
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP5182000A-**	153	7.2	47	11	15
NCP5242000A-**	158	9.2	59	13.5	20
NCP5302000A-**	158	10.4	71	15.1	25

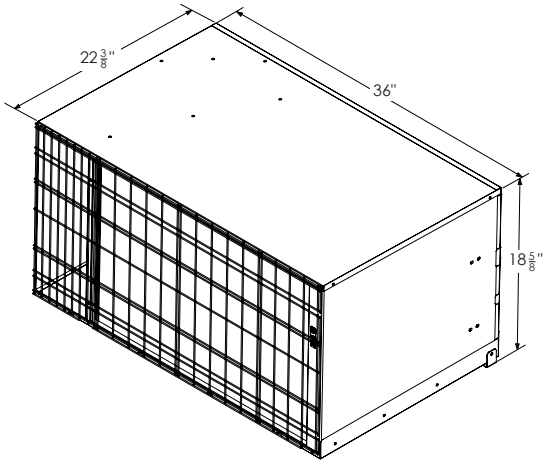
COND. FAN MOTOR 1/5 HP, 1650 RPM, 1.8 FLA

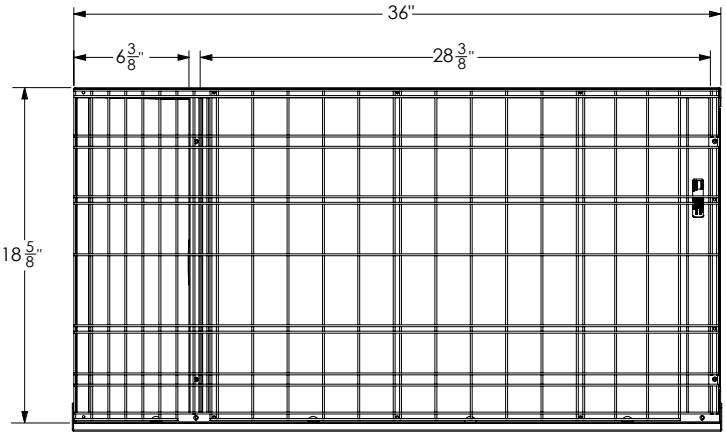
CONDENSER COIL 3.33 ft² Face Area, 16 FPI

DIMENSIONS 36" W x 19" H x 22 1/2" D

CONNECTIONS 3/8" liquid valve | 3/4" suction valve







**All units charged with only 3.75 lbs of R-454B. 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.

2000 SERIES

AVAILABLE TO ORDER NOW!

A lower profile for complex conversions.

A purpose-built cabinet for constrained wall openings, urban replacements, and adaptive reuse.

NEW 2000 SERIES

WHEN HEIGHT IS THE CONSTRAINT.

The 2000 Series condensing unit was designed to make conversion and replacement projects simpler for everyone: a wide, low cabinet that helps teams work within tigher facade zones & legacy openings.

LOW + WIDE CABINET

36 IN.	19 IN.	22 1/2 IN.	12.8	1.5-2.5
WIDTH	HEIGHT	DEPTH	SEER2	TONS

BUILT FOR THE PROJECTS THAT NEED ANOTHER OPTION

01

ADAPTIVE REUSE

A low profile solution for office-to-multifamily conversions and constrained facades.

02

URBAN REPLACEMENT

A 36 in. wide format to help coordinate around existing wall conditions & limited exterior space.

03

MATCHED INDOORS

Pairs with NAH air handlers or NCC cased coils across 1.5-, 2.0-, and 2.5-ton systems.

WHY 19 INCHES MATTERS

The reduced cabinet height gives design teams and contractors a real solution for window lines, existing wall openings, and service access without moving the system to the roof.

The only manufactured replacement for Aerosys P-Series units.

3000 & 4000 Series | Electrical & Dimensional Data

Cabinet dimensions, electrical requirements, valves, and component data.

3000 SERIES | with matches up to 13.5 SEER2 *

All units 208/230-1-60 Hz

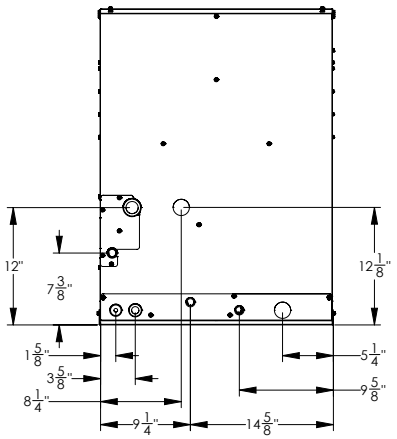
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP5183000A-**	157	7.2	47	10.3	15
NCP5243000A-**	162	9.2	59	12.8	20
NCP5303000A-**	167	10.4	71	15.1	25

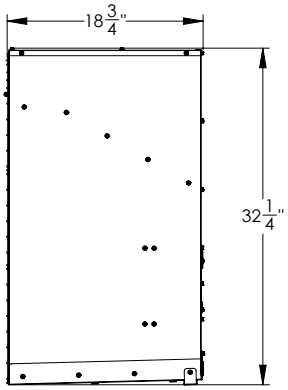
COND. FAN MOTOR 418/424: 1/4 HP, 1600 RPM, 1.3 FLA
430: 1/5 HP, 1650 RPM, 1.8 FLA

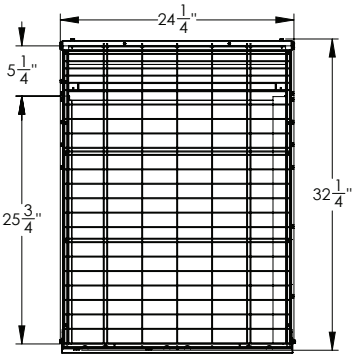
CONDENSER COIL 3.77 ft² Face Area, 16 FPI

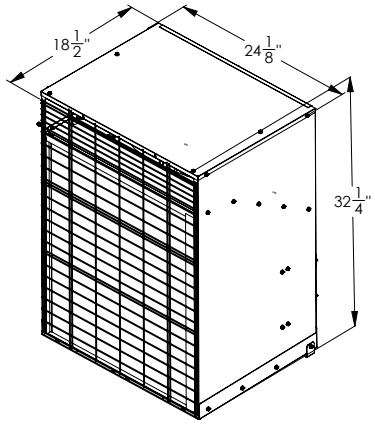
DIMENSIONS 24 1/8" W x 32" H x 18 1/2" D

CONNECTIONS 3/8" liquid valve | 3/4" suction valve









4000 SERIES | with matches up to 13.0 SEER2 *

All units 208/230-1-60 Hz

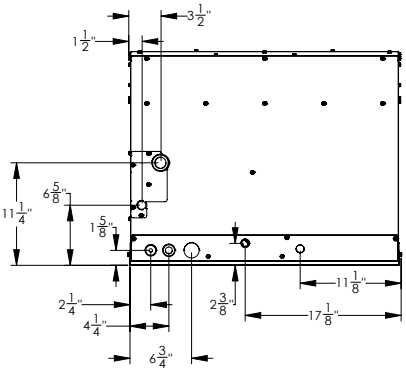
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP5184000A-**	157	7.2	47	11	15
NCP5244000A-**	167	9.2	59	13.5	20
NCP5304000A-**	167	10.4	71	15.1	25

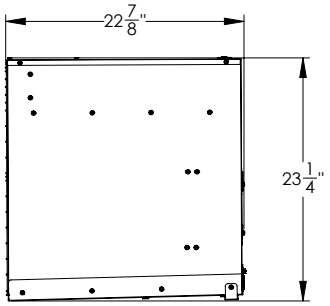
COND. FAN MOTOR 1/5 HP, 1650 RPM, 1.8 FLA

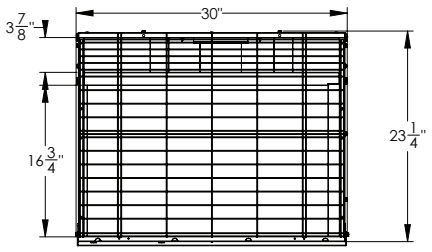
CONDENSER COIL 3.14 ft² Face Area, 16 FPI

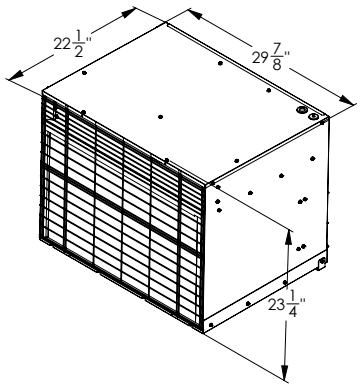
DIMENSIONS 30" W x 23" H x 22 1/2" D

CONNECTIONS 3/8" liquid valve | 3/4" suction valve









**All units charged with only 3.75 lbs of R-454B. 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.

5000 Series & Matched Performance

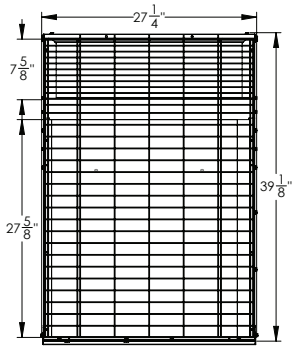
Cabinet dimensions and component data, rated performance, and model replacements.

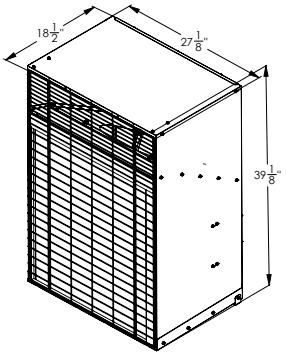
5000 SERIES | with matches up to 14.5 SEER2

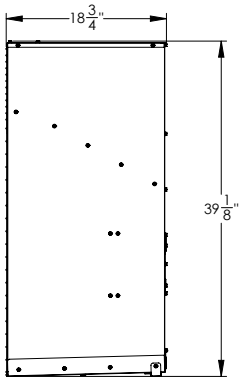
All units 208/230-1-60 Hz

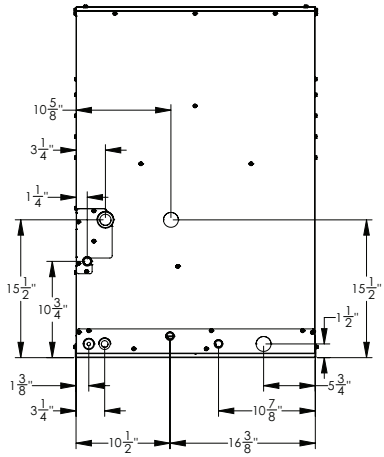
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP5185000A-**	167	7.2	47	11	15
NCP5245000A-**	182	9.0	63	13.2	20
NCP5305000A-**	187	12.5	67	17.6	30

COND. FAN MOTOR	1/5 HP, 1650 RPM, 1.8 FLA
CONDENSER COIL	418: 4.59 ft² Face Area, 16 FPI 424/430: 4.59 ft² Face Area, 14 FPI
DIMENSIONS	26 7/8" W x 38 7/8" H x 18 1/2" D
CONNECTIONS	3/8" liquid valve | 3/4" suction valve









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* When matched with NAH5**MF Air Handler

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

Matching Air Handlers & Cased Coils

Outdoor Model	Indoor Model	Rated Capacity	Rated EER2	SEER2	Nominal Airflow (SCFM)	Cross Reference
1000 Series						
NCP5181000A-**	NAH524MFA-**	18,600	11.7	13.0	580	*Bryant, Carrier, Day & Night, Dunham-Bush, Lennox, Magic Chef, Meyer, Payne, First Co., U.S. A/C (BB)*
	NCC518AA-*	18,000	10.5	11.7	610	
NCP5241000A-**	NAH530MFA-**	23,600	11.5	13.0	790	
	NCC524AA-*	23,600	10.5	11.7	820	
NCP5301000A-**	NAH530MFA-**	27,000	10.8	12.5	930	
	NCC530AA-*	27,400	10.2	11.7	890	
2000 Series						
NCP5182000A-**	NAH524MFA-**	18,600	12.0	12.8	580	*Aerosys P-Series*
	NCC518AA-*	18,000	10.5	11.7	610	
NCP5242000A-**	NAH530MFA-**	23,600	11.5	12.8	790	
	NCC524AA-*	23,800	10.5	11.7	820	
NCP5302000A-**	NAH530MFA-**	27,000	11.0	12.0	930	
	NCC530AA-*	27,000	10.0	11.7	910	
3000 Series						
NCP5183000A-**	NAH524MFA-**	18,400	11.7	13.5	580	*Carrier, Fedders, Dunham-Bush, Lennox, Magic Chef, Meyer, Rheem, First Co., U.S. A/C (AB)*
	NCC518AA-*	17,800	10.5	11.7	615	
NCP5243000A-**	NAH530MFA-**	23,600	11.6	13.5	790	
	NCC524AA-*	23,600	10.5	11.7	820	
NCP5303000A-**	NAH530MFA-**	27,000	11.0	12.5	930	
	NCC530AA-*	26,800	10.5	11.7	890	
4000 Series						
NCP5184000A-**	NAH524MFA-**	18,600	11.5	13.0	580	*Dunham-Bush, Hydro- Therm, Space Pack, Lennox, Luxaire York, First Co., U.S. A/C (CB)*
	NCC518AA-*	18,000	10.5	11.7	620	
NCP5244000A-**	NAH530MFA-**	23,600	11.5	13.0	790	
	NCC524AA-*	23,400	10.5	11.7	820	
NCP5304000A-**	NAH530MFA-**	26,800	10.6	12.2	930	
	NCC530AA-*	26,800	10.2	11.7	910	
5000 Series						
NCP5185000A-**	NAH524MFA-**	18,500	12.4	14.5	580	*First Co. (WMU)*
	NCC518AA-*	18,000	11.0	12.3	610	
NCP5245000A-**	NAH530MFA-**	24,800	12.4	14.5	790	
	NCC524AA-*	24,800	11.2	12.3	820	
NCP5305000A-**	NAH530MFA-**	28,400	11.6	13.5	930	
	NCC530AA-*	29,000	11.0	12.3	920	

3000 & 5000 Series | Electrical & Dimensional Data

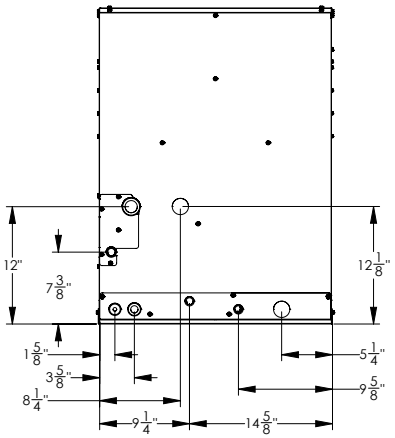
Cabinet dimensions, electrical requirements, valves, and component data.

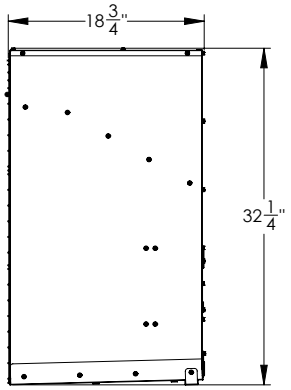
3000 SERIES | with matches up to 12.5 SEER2 *

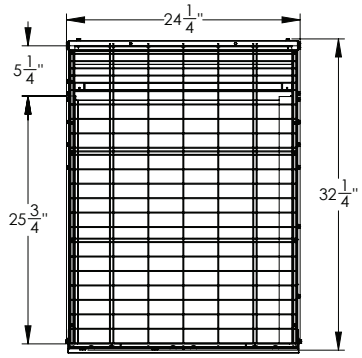
All units 208/230-1-60 Hz

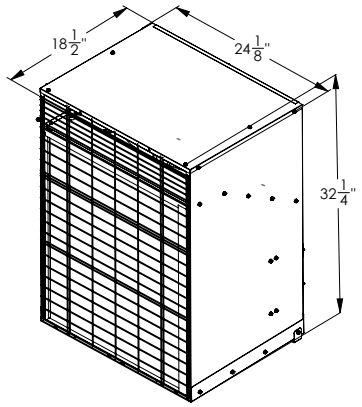
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NHP5183000A-**	167	7.2	47	10.3	15
NHP5243000A-**	167	9.2	59	12.8	20

COND. FAN MOTOR	1/4 HP, 1600 RPM, 1.3 FLA
CONDENSER COIL	3.43 ft² Face Area, 16 FPI
DIMENSIONS	24 1/8" W x 32" H x 18 1/2" D
CONNECTIONS	3/8" liquid valve | 3/4" suction valve







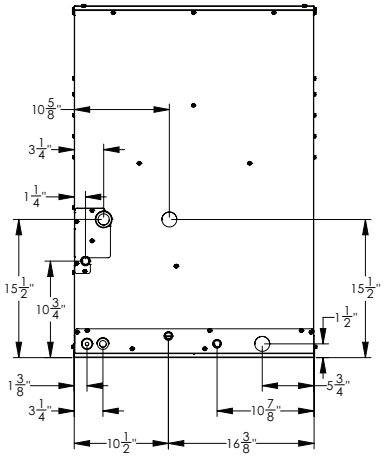


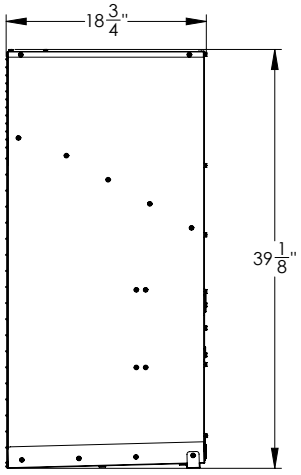
5000 SERIES | with matches up to 13.5 SEER2 *

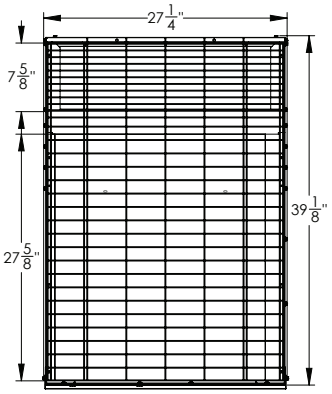
All units 208/230-1-60 Hz

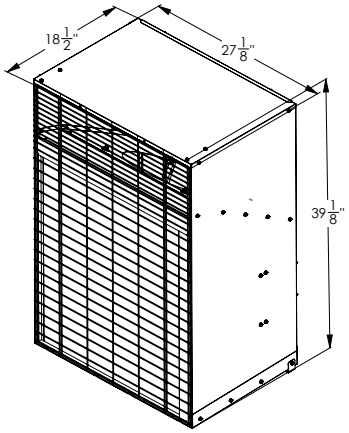
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NHP5185000A-**	187	7.2	47	11.0	15
NHP5245000A-**	197	9.0	63	13.2	20
NHP5305000A-**	202	10.4	71	15.1	25

COND. FAN MOTOR	1/5 HP, 1650 RPM, 1.8 FLA
CONDENSER COIL	4.49 ft² Face Area, 16 FPI
DIMENSIONS	26 7/8" W x 38 7/8" H x 18 1/2" D
CONNECTIONS	3/8" liquid valve | 3/4" suction valve









**All units charged with only 3.75 lbs of R-454B. 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.

Matched Performance & Air Handler | Performance Data

Rated matched performance, and NAH air handler performance & electrical data.

NHP Heat Pumps & Air Handlers | Cooling Data

Outdoor Model	Indoor Model	Indoor Model Speed	Rated Capacity	Rated EER2[1]	Nominal Airflow[2] (SCFM)	SEER2[3]	Liquid Subcool[4]	Suction Superheat[5,6]
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

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

NHP Heat Pumps & Air Handlers | Heating Data

Outdoor Model	Indoor Model	Indoor Model Speed	Rated Capacity (47°F)(Btu/h)	Rated COP2[1]	Nominal Airflow[2] (SCFM)	Rated Capacity (35°F)(Btu/h)	Rated Capacity (17°F)(Btu/h)	HSPF2[3]	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

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

Performance Data | NAH Air Handlers

Model	Nominal Capacity (Btu/h)	Size	Nominal Airflow[1] (CFM)		Motor HP	Motor RPM	FLA	MCA	MOP	Filter Size
NAH524MF*-L*	24,000	2.0 ton	560	960	1/2	1050	3.8	5	15	24"
NAH524MF*-R*										
NAH530MF*-L*	30,000	2.5 ton								
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 | NAH Air Handlers

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

NAH Air Handler

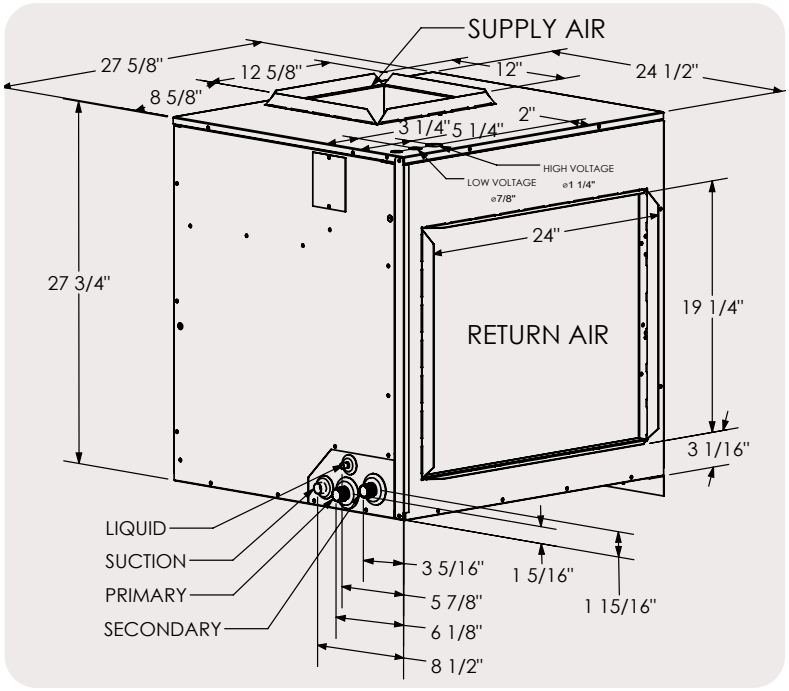
Continued performance data.

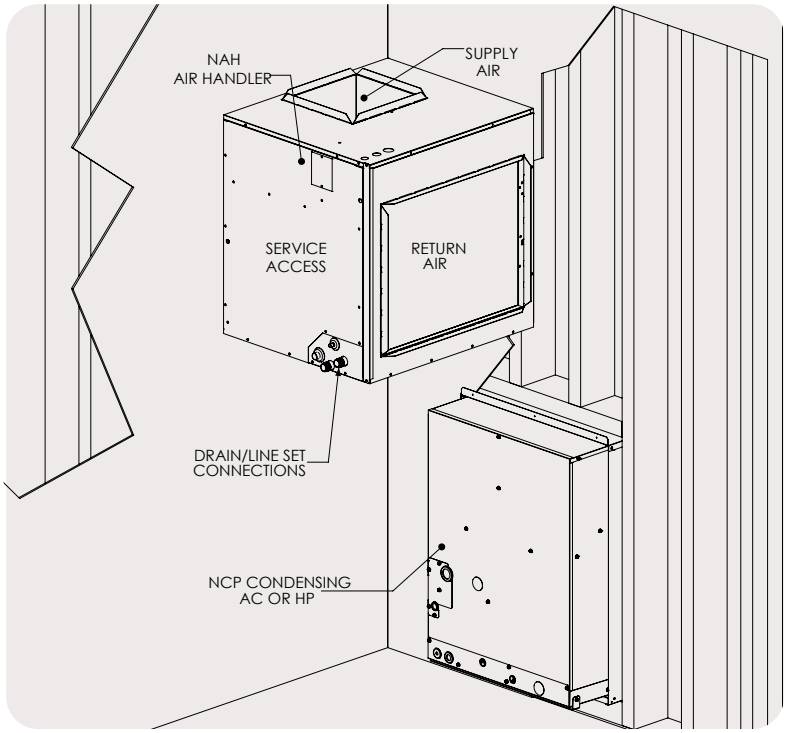
Air Flow Data

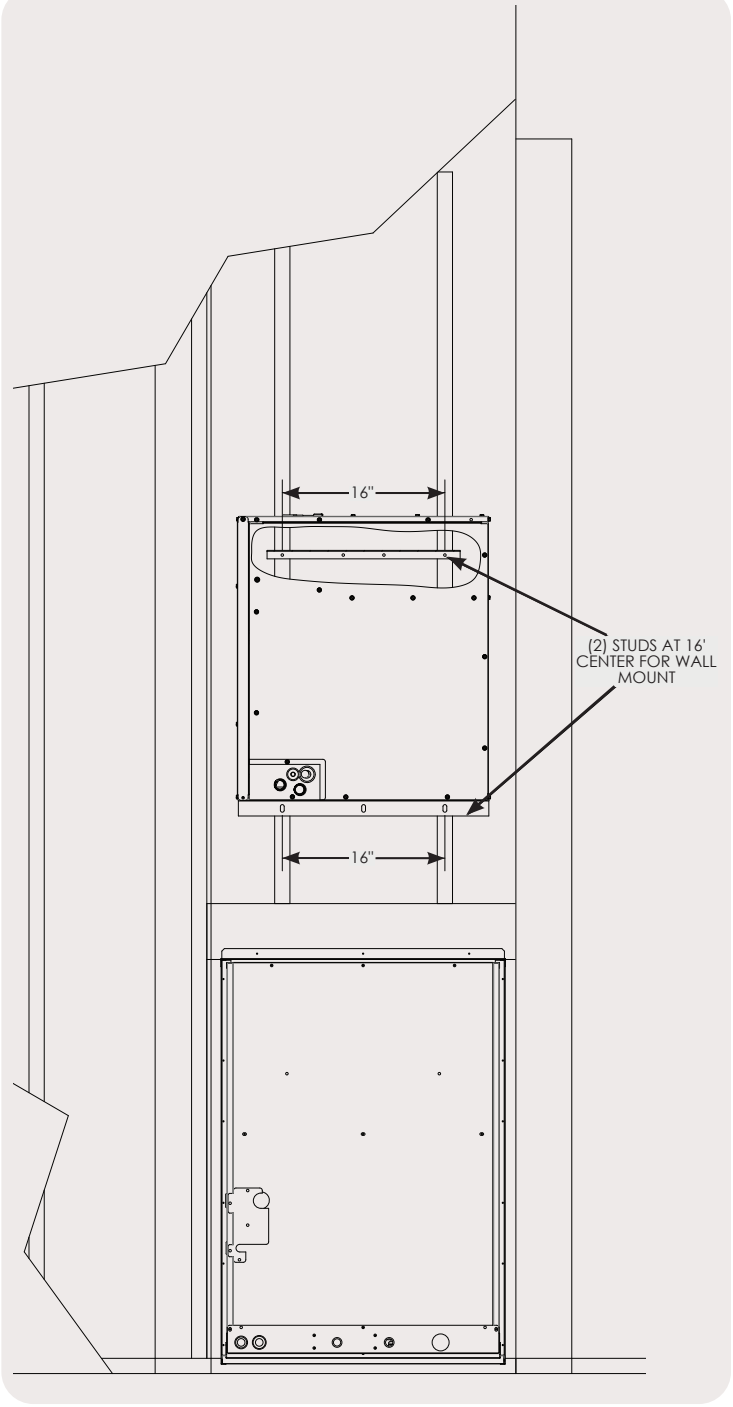
Model Size	Blower Speeds	Standard CFM					
		0 in. wc.	0.1 in. wc.	0.2 in. wc.	0.3 in. wc.	0.4 in. wc.	0.5 in. wc.
NAH524MF*-L* NAH524MF*-R* NAH530MF*-L* NAH530MF*-R*	Orange (Low)	717	675	624	563	493	414
	Black (Med. Low)	801	719	648	588	539	501
	Blue (Med.)	947	905	862	819	775	731
	Yellow (Med. High)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

Operating Range

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





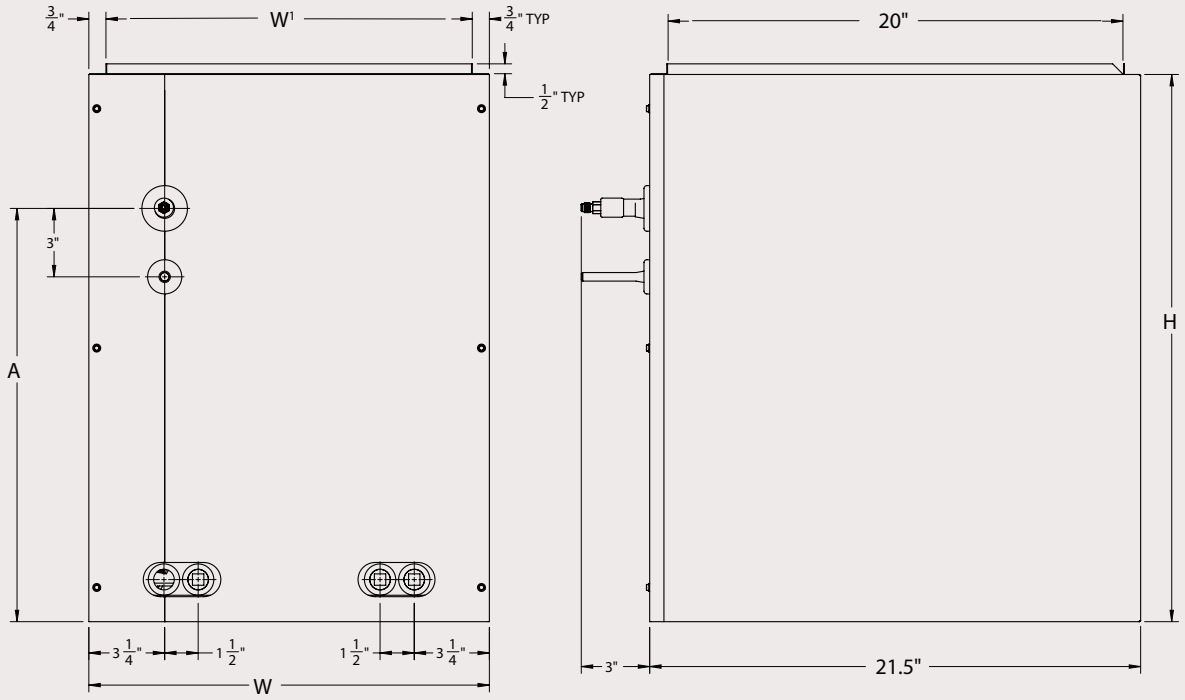


Cased Coil | Dimensions & Accesories

Dimensions and required accessories.

NHP Heat Pumps & Air Handlers | Cooling Data

Model	Size (tons)	Flow Control	Liquid Line	Suction Line	Cabinet Width (W)	Cabinet Depth	Supply Opening Width (W¹)	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	2.0 Ton	Adj. TXV	3/8"	3/4"	17.50"	21.50"	16"	20"	24.50"	62 lbs.
NCC530AA-1	2.5 Ton	Adj. TXV	3/8"	3/4"	21.00"	21.50"	19.50"	20"	28.50"	75 lbs.



A2L Accessory — **NCCA2L-KIT | Field-Installed A2L mitigation kit for R-454B**
***Required for occupant safety.**

A better exterior starts with a better HVAC strategy.

Coordinate series, wall opening, louver, indoor match, and refrigerant requirements early to support performance and project execution.

NOMENCLATURES

Product	Refrigerant	Capacity	Series	Gen	Option
NCP Condensing Unit	**5** 5 | R-454B	**18** 18 | 1.5 ton 24 | 2.0 ton 30 | 2.5 ton	**1000** 1000 2000 3000 4000 5000	**A**	**A** A | Standard D | Deluxe C | Crankcase Heater L | Low Ambient
NHP Heat Pump	**5** 5 | R-454B	**18** 18 | 1.5 ton 24 | 2.0 ton 30 | 2.5 ton	**3000** 3000 5000	**A**	**A** A | Standard C | Crankcase Heater
NAH Air Handler	**5** 5 | R-454B	**24** 24 | 2.0 ton 30 | 2.5 ton	**MF** MF | Multifamily	**A**	**L** L | Left hand R | Right hand
NCC Cased Coil	**A** A | A2L (R-32 or R-454B)	**18** 18 | 1.5 ton 24 | 2.0 ton 30 | 2.5 ton	**A** 18 | 1.5 ton 24 | 2.0 ton 30 | 2.5 ton	**A**	

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Intertek 53533

2 YEAR WARRANTY ON PARTS
5 YEAR WARRANTY COMPRESSOR

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All specifications are subject to change without notice.

Spec R-32 NCP Split System 2026