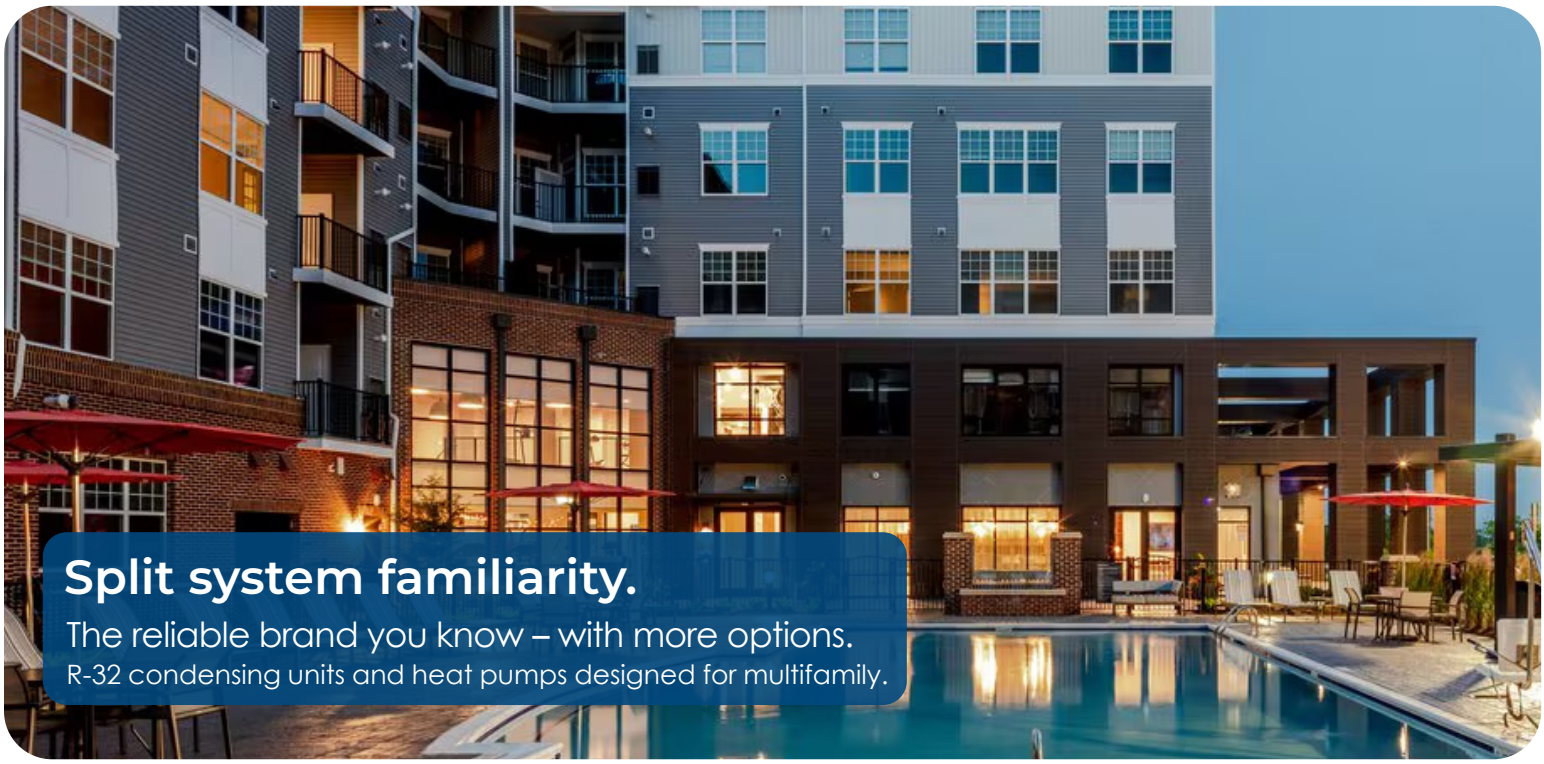
R-32 Split Systems

1000 | 3000 | 4000 | 5000 Series



1.5-2.5
TONS
Capacity choices across product families

4
SIZES
Cabinet profiles for varied wall openings

R-32
REFRIGERANT
Condensing unit & heat pump available

A coordinated R-32 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. Four condenser cabinet series and two heat pump cabinet series support replacement, renovation, and new-construction utilizing R-32.

Go Thru-the-Wall

Parts Lookup

Cross Reference

AHRI CERTIFIED® www.ahridirectory.org

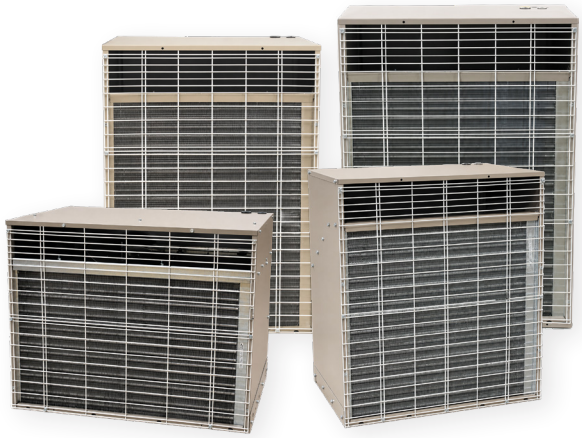
A complete wall-integrated split system family.

Condensing units, heat pumps, compatible cased coils, and flexible indoor matches.

FOUR CABINET SIZES

Two product families. Multilple wall profiles.

- **1000 | 3000 | 4000 | 5000**
- **R-32**
- **1.5-2.5 TONS**
- **UP TO 12.5 SEER2**



CONDENSING UNITS

- Compatible with NCCA cased coils & matched 3rd party air handlers
- Heavy-duty, water resistant cabinet
- R-32 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 matched 3rd party air handlers
- Heavy-duty, water resistant cabinet
- R-32 high efficiency compressor
- Available in 1.5, 2.0, and 2.5 ton capacities
- Easy access to condenser fan & control box
- Brass service valves

NCCA CASED COIL | R-32 COMPATIBLE

Matched flexibility inside the building

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-32 and R-454B -compatible TXV options

Take back outdoor living.

Don't give up those ammenity spaces. 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-32 Condensing Units.....Pg 4
R-32 Heat Pumps.....Pg 6
R-32 Cased Coils.....Pg 7
Matched Systems & Cross Reference.....Pg 7
Nomenclatures.....Pg 8

1000 & 3000 Series | Electrical & Dimensional Data

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

1000 SERIES | with matches up to 11.7 SEER2

All units 208/230-1-60 Hz

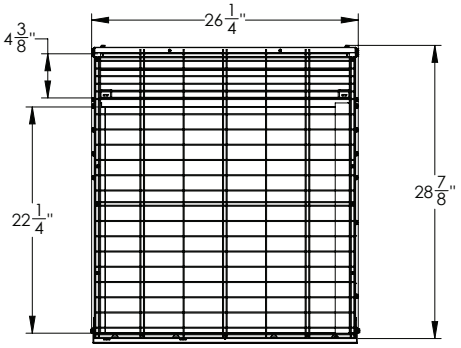
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP3181000A-**	157	8.3	44.3	11.7	15
NCP3241000A-**	162	10.3	59.3	14.2	20
NCP3301000A-**	167	11.5	66.3	16.2	25

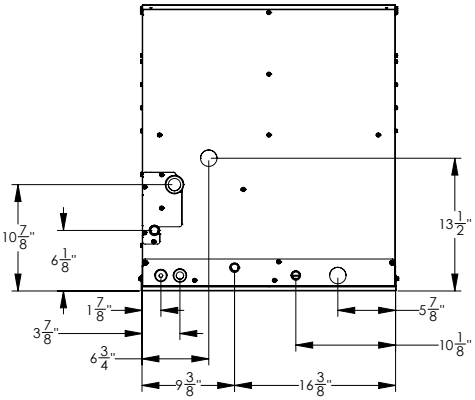
COND. FAN MOTOR 418/424: 1/4 HP, 1600 RPM, 1.3 FLA
430: 1/5 HP, 1650 RPM, 1.8 FLA

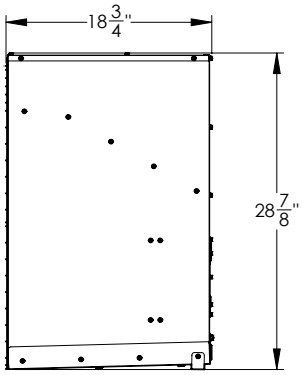
CONDENSER COIL 3.61 ft² Face Area, 16 FPI

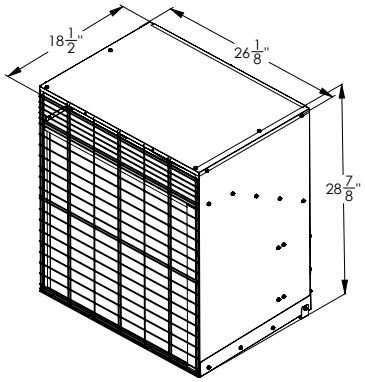
DIMENSIONS 26 1/4" W x 28 5/8" H x 18 1/2" D

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









3000 SERIES | with matches up to 11.7 SEER2

All units 208/230-1-60 Hz

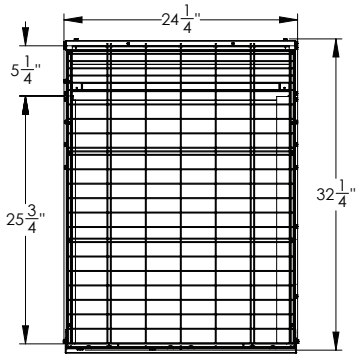
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP3183000A-**	157	8.3	44.3	11.7	15
NCP3243000A-**	162	10.3	59.3	14.2	20
NCP3303000A-**	167	11.5	66.3	16.2	25

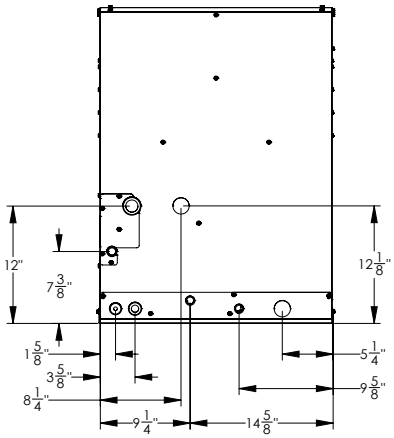
COND. FAN MOTOR 418/424: 1/4 HP, 1600 RPM, 1.3 FLA
430: 1/5 HP, 1650 RPM, 1.8 FLA

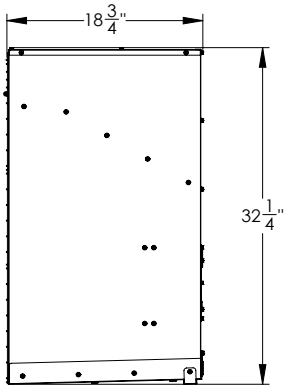
CONDENSER COIL 3.77 ft² Face Area, 16 FPI

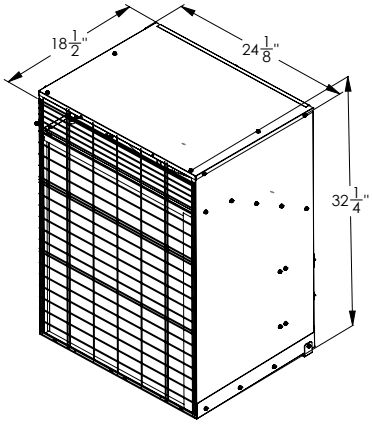
DIMENSIONS 24 1/8" W x 32" H x 18 1/2" D

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









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

** All units charged with only 3.75 lbs of R-32. The installer must add charge to meet the required subcooling value provided in the installation manual.

4000 & 5000 Series | Electrical & Dimensional Data

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

4000 SERIES | with matches up to 11.7 SEER2

All units 208/230-1-60 Hz

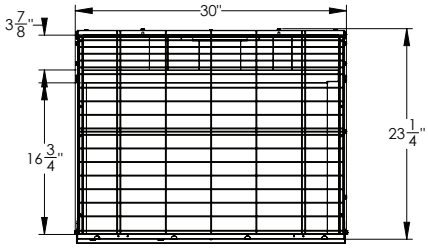
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP3184000A-**	157	8.3	44.3	12.4	20
NCP3244000A-**	167	10.3	59.3	14.9	25

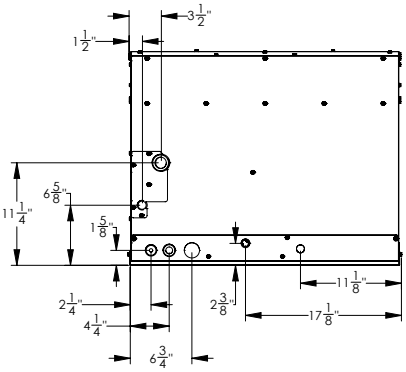
COND. FAN MOTOR 1/4 HP, 1650 RPM, 2.0 FLA

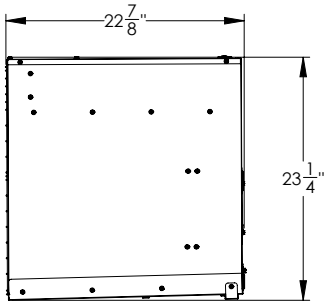
CONDENSER COIL 3.14 ft² Face Area, 16 FPI

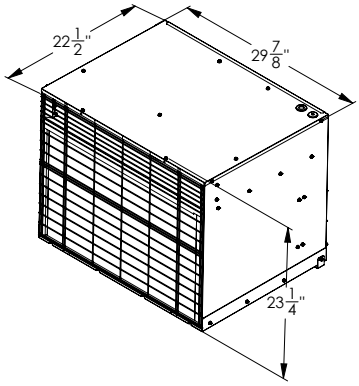
DIMENSIONS 30" W x 23" H x 22 1/2" D

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









5000 SERIES | with matches up to 12.3 SEER2

All units 208/230-1-60 Hz

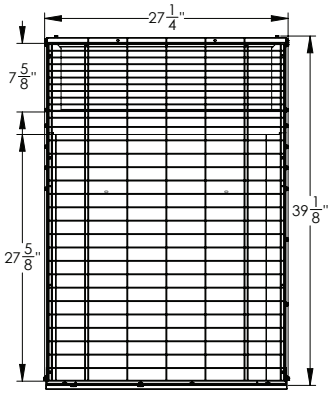
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NCP3185000A-**	167	8.3	44.3	12.4	20
NCP3244000A-**	182	10.6	56.5	15.3	25
NCP3305000A-**	187	12.8	76.0	18.0	30

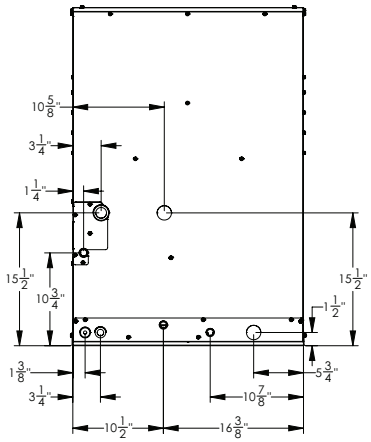
COND. FAN MOTOR 1/4 HP, 1650 RPM, 2.0 FLA

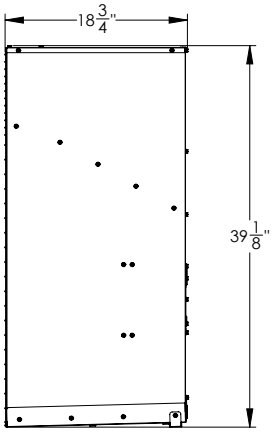
CONDENSER COIL 318: 4.59 ft² Face Area, 16 FPI
324/330: 4.59 ft² Face Area, 14 FPI

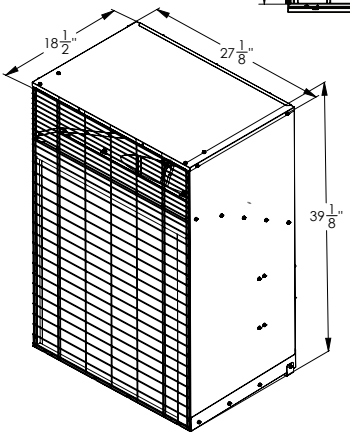
DIMENSIONS 26 7/8" W x 38 7/8" H x 18 1/2" D

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









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

** All units charged with only 3.75 lbs of R-32. The installer must add charge to meet the required subcooling value provided in the installation manual.

Thru-the-Wall System Technical Evaluation Report for Structural (Wind) Performance:

3000 & 5000 Series | Electrical & Dimensional Data

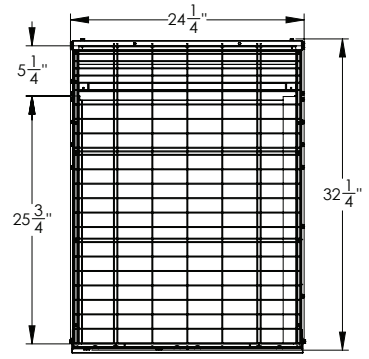
Cabinet dimensions, electrical requirements, valves, and component data.

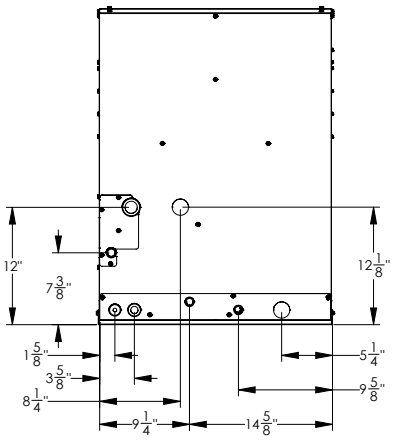
3000 SERIES | with matches up to 11.9 SEER2

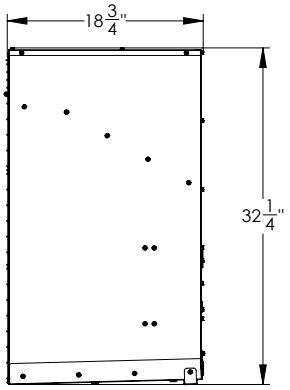
All units 208/230-1-60 Hz

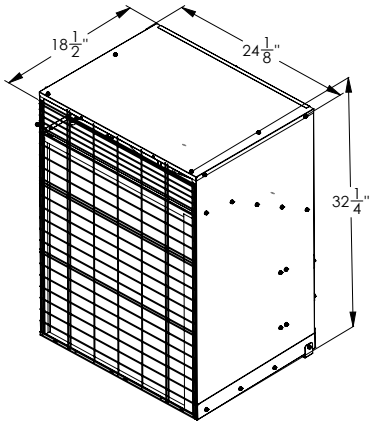
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NHP3183000A-**	167	8.3	44.3	11.7	15
NHP3243000A-**	167	10.3	59.3	14.9	25

COND. FAN MOTOR	1/4 HP, 1650 RPM, 1.3 FLA 1/4 HP, 1650 RPM, 2.0 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







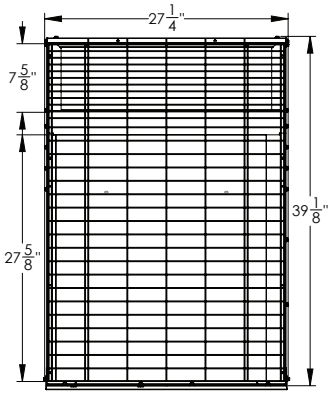


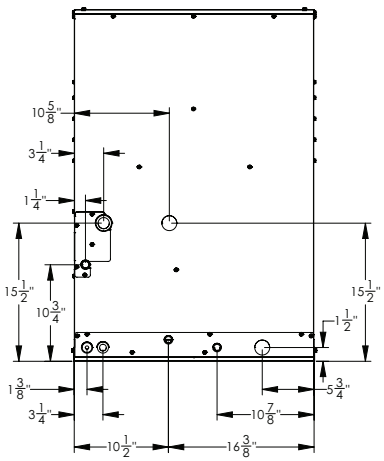
5000 SERIES | with matches up to 12.5 SEER2

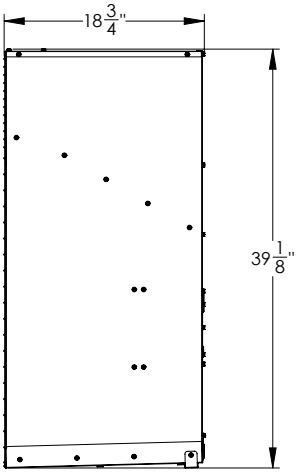
All units 208/230-1-60 Hz

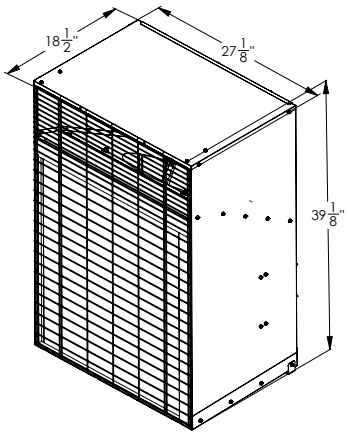
Model	Ship weight (lbs)	Compressor RLA	Compressor LRA	MCA	MOP
NHP3185000A-**	187	8.3	44.3	12.4	20
NHP3245000A-**	197	10.6	56.5	15.3	25
NHP3305000A-**	202	11.5	66.3	16.4	25

COND. FAN MOTOR	1/4 HP, 1650 RPM, 2.0 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









Cased Coil, Matched Performance & Cross Reference

Cased Coil, AHRI matchups, rated performance, and legacy model replacements.

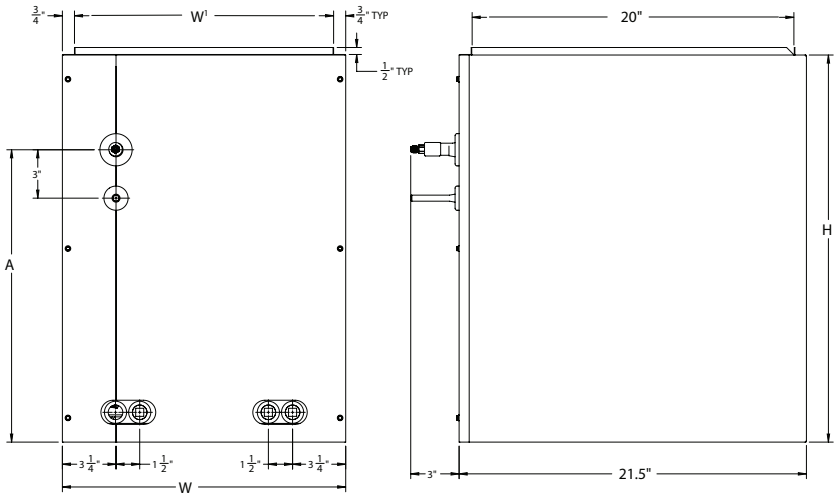
NCC | Cased coil dimensions

Model	Size (tons)	Cabinet Width (W)	Cabinet Depth	Supply Opening Width (W¹)	Supply Opening Depth	Cabinet Height (H)	Ship weight (lbs)
NCCA18AA-1	1.5 Ton	17.50"	21.50"	16"	20"	20.50"	56 lbs.
NCCA24AA-1	2 Ton	17.50"	21.50"	16"	20"	24.50"	62 lbs.
NCCA30AA-1	2.5 Ton	21.00"	21.50"	19.50"	20"	28.50"	75 lbs.

FLOW CONTROL Adjustable TXV

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

*With Factory-installed A2L Kit



Accessory | TXV's (field-installed TXV required)

Coil Model	R-32 TXV Part #	R-454B TXV Part #
NCCA18AA-1	142-75-181	142-75-178
NCCA24AA-1	142-75-181	142-75-179
NCCA30AA-1	142-75-182	142-75-179

Matching Cased Coils & Air Handlers

AHRI Ref. #	Outdoor Model	Indoor Model	Rated Capacity	Rated EER2	SEER2	Nominal Airflow (SCFM)	Cross Reference
1000 Series							
217901285	NCP3181000A-**	NCCA18AA-*	17,800	10.8	11.7	620	replaces 18WCU10-BB, 18WCX12-BB, 18WCX2-BB
217735284	NCP3181000A-**	AWST24SU13**A*	16,800	10.5	11.7	605	
217901286	NCP3241000A-**	NCCA24AA-*	23,000	10.4	11.7	820	replaces 24WCU10-BB, 24WCX12-BB, 24WCX2-BB
217734252	NCP3241000A-**	AWST24SU13**A*	21,000	10.4	11.7	605	
217901287	NCP3301000A-**	NCCA30AA-*	26,800	10.2	11.7	870	replaces 30WCU10-BB, 30WCXA12-BB, 30WCX2-BB
217753707	NCP3301000A-**	AWST30LU13**A*	27,600	11	12	870	
3000 Series							
217901288	NCP3183000A-**	NCCA18AA-*	17,600	10.6	11.7	620	replaces 18WCU10-AB, 18WCX12-AB, 18WCX2-BA
217735285	NCP3183000A-**	AWST24SU13**A*	16,800	10.5	11.7	605	
217901289	NCP3243000A-**	NCCA24AA-*	24,000	10.8	11.7	820	replaces 24WCU10-AB, 24WCX12-AB, 24WCX2-BA
217734253	NCP3243000A-**	AWST24SU13**A*	21,000	10.4	11.7	605	
217901290	NCP3303000A-**	NCCA30AA-*	26,800	10.2	11.7	870	replaces 30WCU10-AB, 30WCXA12-AB, 30WCX2-BA
217753708	NCP3303000A-**	AWST30LU13**A*	27,600	11	12	870	
4000 Series							
218002299	NCP3184000A-**	NCCA18AA-*	17,800	10.8	11.7	610	replaces 18WCU10-CB, 18WCX14-CB, 18WCX4-BC
218076295	NCP3184000A-**	AWST24SU13**A*	16,700	10.2	11.7	600	
218002300	NCP3244000A-**	NCCA24AA-*	23,800	10.6	11.7	820	replaces 24WCU10-CB, 24WCX14-CB, 24WCX4-BC
218076295	NCP3244000A-**	AWST24SU13**A*	20,800	10.2	11.7	600	
5000 Series							
218641403	NCP3185000A-**	NCCA18AA-*	17,800	11.0	12.3	620	
218694097	NCP3185000A-**	AWST24SU13**A*	17,000	11.0	12.5	600	
218694095	NCP3245000A-**	NCCA24AA-*	24,800	11.0	12.3	820	
218694098	NCP3245000A-**	AWST24SU13**A*	23,600	11.0	12.5	740	
218694096	NCP3305000A-**	NCCA30AA-*	29,000	11.2	12.0	890	
218694099	NCP3305000A-**	AWST30LU13**A*	28,400	11.0	12.5	895	

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	**3** 3 | R-32	**18** 18 | 1.5 ton 24 | 2.0 ton 30 | 2.5 ton	**1000** 1000 3000 4000 5000	**A**	**A** A | Standard D | Deluxe C | Crankcase Heater L | Low Ambient
NHP Heat Pump	**3** 3 | R-32	**18** 18 | 1.5 ton 24 | 2.0 ton 30 | 2.5 ton	**3000** 3000 5000	**A**	**A** A | Standard C | Crankcase Heater
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**	

National Comfort Products
AN AERITEK BRAND
539 Dunksferry Road | Bensalem, PA 19020-5908
(800) 523-7138 | www.nationalcomfortproducts.com

PROJECT ASSISTANCE: ncpsales@aeritek.com

Intertek 53533

2 YEAR WARRANTY ON PARTS

5 YEAR WARRANTY COMPRESSOR

AHRI CERTIFIED® www.ahridirectory.org

All specifications are subject to change without notice.

Spec R-32 NCP Split System 2026