



R4A5

Product Specifications

EFFICIENT 15 SEER/11.7–12.5 EER AIR CONDITIONER ENVIRONMENTALLY BALANCED R-410A REFRIGERANT

1-1/2 THRU 5 TONS SPLIT SYSTEM

208/230 Volt, 1-phase, 60 Hz

REFRIGERATION CIRCUIT

- Scroll compressors on all models
- Copper tube / aluminum fin coil

EASY TO INSTALL AND SERVICE

- Easy Access service valves on all models
- External high and low refrigerant service ports
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

BUILT TO LAST

- Pre-painted cabinet finish over galvanized steel
- 3/8" (10mm) grille spacing for extra protection

LIMITED WARRANTY*

- 5 year parts limited warranty (including compressor and coil)
 - With timely registration, an additional 5 year parts limited warranty (including compressor and coil)
- * For residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications.



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

Model Number	Size (tons)	Nominal BTU/hr	Min. Circuit Amps	Max. Fuse or Breaker	Operating Dimensions length/width(sq.) x height in. (mm)	Ship / Operating Weight lbs.(kg)
R4A518GKB	1-1/2	18,000	11.7	20	25-3/4 x 25-5/16 (654 x 642)	145/122 (66/55)
R4A524GKB	2	24,000	14.1	20	25-3/4 x 32-1/16 (654 x 815)	148/123 (67/56)
R4A530GKB	2-1/2	30,000	16.8	25	31-3/16 x 31-11/16 (792 x 804)	186/151 (84/69)
R4A536GKB	3	36,000	18.1	30	31-3/16 x 35-1/16 (792 x 891)	171/151(78/69)
R4A542GKB	3-1/2	42,000	22.3	35	31-3/16 x 28-1/4 (792 x 718)	226/191 (103/87)
R4A548GKB	4	48,000	20.8	35	31-3/16 x 28-1/4 (792 x 718)	200/182 (91/83)
R4A560GKB	5	60,000	27.5	40	31-3/16 x 31-11/16 (792 x 804)	218/197 (99/89)

OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE

Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	R	4	A	5	18	G	K	B	1	0	0
4 = R-410A			REFRIGERANT								
A = Air Conditioner											
H = Heat Pump			TYPE								
5 = 15 SEER											
			NOMINAL EFFICIENCY								
18 = 18,000 BTUH = 1-1/2 tons											
24 = 24,000 BTUH = 2 tons											
30 = 30,000 BTUH = 2-1/2 tons											
36 = 36,000 BTUH = 3 tons											
42 = 42,000 BTUH = 3-1/2 tons											
48 = 48,000 BTUH = 4 tons											
60 = 60,000 BTUH = 5 tons			NOMINAL CAPACITY								
G = Coil Guard Grille					FEATURES						
K = 208/230-1-60					VOLTAGE						
H = 208/230-3-60											
L = 460-3-60											
S = 575-3-60											
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

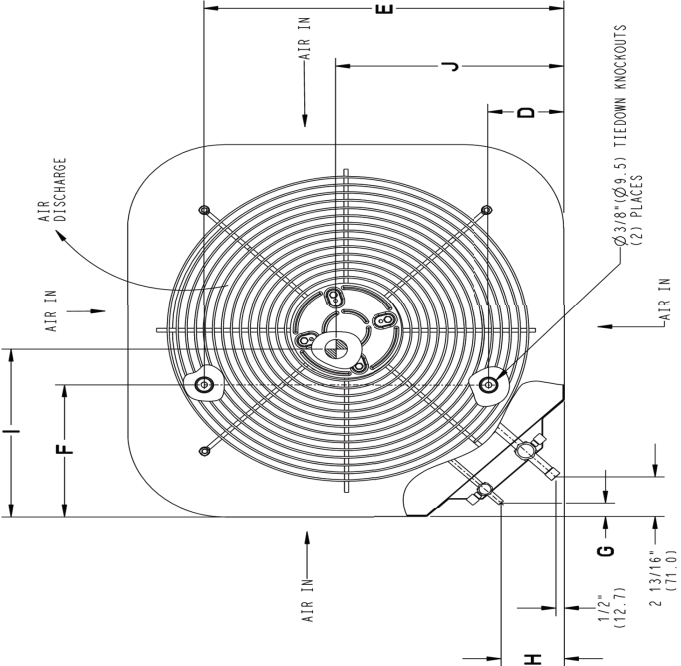
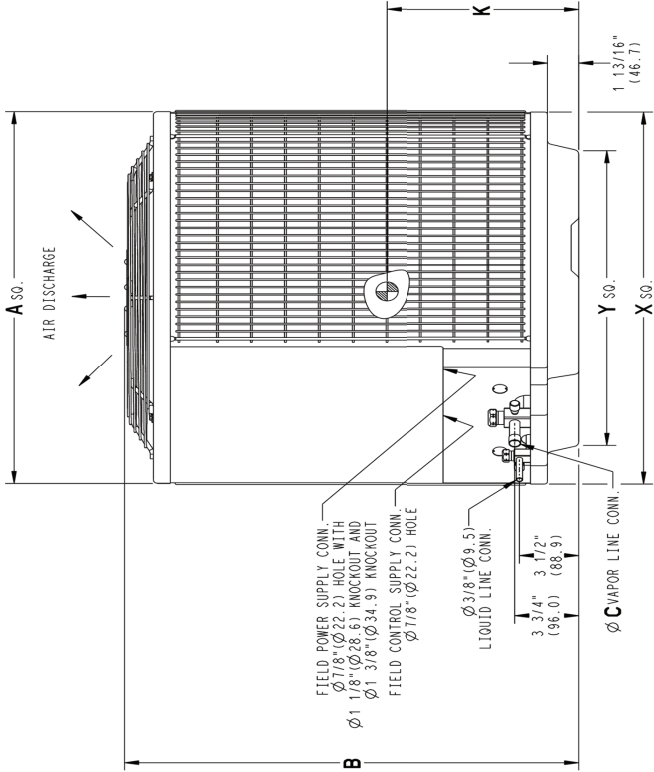
ACCESSORIES PART NUMBER IDENTIFICATION GUIDE

Digit Position:	1	2	3	4	5	6, 7	8, 9	10, 11
Example Part Number:	N	A	S	A	0	01	01	CH
N = Non-Branded	BRANDING							
A = Accessory	PRODUCT GROUP							
S = Split System (AC & HP)	KIT USAGE							
A = Original								
B = 2nd Generation	MAJOR SERIES							
0 = Generic or Not Applicable								
4 = R-410A	REFRIGERANT							
Product Identifier Number								
Package Quantity								
Type of Kit (Example: CH = Crankcase Heater)								

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A				B				C				D				E				F				G				H				I				J				K				OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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RAA518GKB100	1	Y	N	N	25 3/4	654.0	25 5/16	642.4	3/4	19.1	4 7/16	113.0	21 1/4	539.9	9 1/8	231.3	5/16	7.9	3	76.2	26 7/8	682.6	26 7/8	682.6	32 9/16	827.1	122	55.3	145	65.8	26 3/4	679.9	26 15/16	684.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

208-230-1-60	Y=YES N=NO	575-3-60
208-230-3-60	Y=YES N=NO	460-3-60

- NOTES:
1. ALLOW 24" (609.6) CLEARANCE TO SERVICE SIDE OF UNIT, 48" (1219.2) ABOVE UNIT, 6" (152.4) ON ONE SIDE, 12" (304.8) ON REMAINING SIDE, AND 24" (609.6) BETWEEN UNITS FOR PROPER AIRFLOW.
 2. CENTER OF GRAVITY .
 3. SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.



UNIT SIZE	"X"		"Y"	
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
-	23 1/8	587.3	17 7/8	454.6
18.24	25 3/4	654.0	20 7/16	518.5
30.36/42.48/60	31 3/16	792.5	22 15/16	583.2

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

SP5455-4 without A REV. A

PHYSICAL DATA

UNIT SIZE	18	24	30	36	42	48	60
Compressor Type	Scroll						
REFRIGERANT	R-410A						
Control	TXV Hard Shutoff						
Factory Charge (lb)	3.70 (1.68)	4.60 (2.09)	5.67 (2.57)	7.37 (3.34)	7.46 (3.38)	8.31 (3.77)	9.39 (4.26)
Required Charge (lb) (for 15 ft. line set)	4.82 (2.19)	4.60 (2.09)	5.67 (2.57)	7.37 (3.34)	7.46 (3.38)	8.31 (3.77)	9.39 (4.26)
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	1700	1881	2614	3365	3700	3545	3700
Motor HP	1/12	1/12	1/10	1/5	1/4	1/4	1/4
Motor RPM	1100	1100	1100	1100	1100	1110	1100
COND COIL							
Face Area (Sq ft)	9.85	11.2	17.24	19.4	15.1	15.1	17.25
Fins per In.	25	25	25	25	20	20	25
Rows	1	1	1	1	2	2	2
Circuits	3	5	4	5	6	6	8
VALVE CONNECT. (In. ID)							
Vapor	3/4	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8						
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	3/4	3/4	3/4	7/8	7/8	7/8	1-1/8
Max Liquid Line	3/8						

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset. **Note:** See unit Installation Instruction for proper installation.

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
18	208/230/1-60	253	197	47.5	9.0	0.40	11.7	20
24				62.9	10.9	0.50	14.1	20
30				67.8	12.8	0.75	16.8	25
36				79.0	13.6	1.10	18.1	30
42				109.0	16.7	1.40	22.3	35
48				105.5	15.5	1.40	20.8	35
60				127.1	20.8	1.52	27.5	40

* Permissible limits of the voltage range at which the unit will operate satisfactorily

† Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

NOTE: Control circuit is 24V on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

A-WEIGHTED SOUND POWER (dBA)

UNIT SIZE	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	75	46.0	55.0	59.5	64.0	60.5	54.5	48.5
24	71	50.5	53.5	58.5	60.5	60.0	56.5	52.5
30	73	49.5	56.0	62.5	64.0	60.5	57.5	53.5
36	75	49.0	57.0	62.5	66.0	61.0	58.5	52.0
42	75	52.5	63.0	64.0	63.0	62.0	58.0	52.0
48	76	53.0	61.0	64.0	65.5	62.0	59.5	50.5
60	75	53.5	57.0	62.5	63.5	61.5	57.5	51.0

NOTE: Tested in compliance with AHRI 270-1995 (not listed with AHRI)

A-WEIGHTED SOUND POWER (dBA) WITH SOUND SHIELD

UNIT SIZE - SE- RIES	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	75	46.5	55.5	59.5	63.5	60.0	54.0	47.0
24	71	47.5	53.5	58.0	59.5	60.0	55.5	49.0
30	72	49.0	56.5	61.5	62.5	60.0	57.0	52.0
36	73	49.5	57.0	62.0	64.0	60.0	58.0	51.0
42	74	53.5	64.0	64.0	62.5	61.0	56.5	50.5
48	73	54.5	61.0	63.5	62.5	60.0	56.5	47.5
60	73	53.5	59.0	63.0	62.5	59.5	56.0	48.0

NOTE: Tested in compliance with AHRI 270-1995 (not listed with AHRI)

METERING DEVICE

UNIT SIZE	INDOOR	REQUIRED SUBCOOLING °F (°C)
18	TXV*	13 (7.22)
24		10 (5.56)
30		12 (6.67)
36		11 (6.11)
42		11 (6.11)
48		11 (6.11)
60		13 (7.22)

* TXV must be ordered separately when indoor coil is not equipped with a TXV. TXV must be hard-shutoff type.

REFRIGERANT CHARGE ADJUSTMENTS

Liquid Line Size	R-410A Charge oz/ft
3/8	0.60 (Factory charge for lineset = 9 oz)
5/16	0.40
1/4	0.27

Units are factory charged for 15 ft (4.6 m) of 3/8" liquid line*. The factory charge for 3/8" lineset 9 oz. When using other length or diameter liquid lines, charge adjustments are required per the chart above.

Charging Formula:

$[(\text{Lineset oz/ft} \times \text{total length}) - (\text{factory charge for lineset})] = \text{charge adjustment}$

Example 1: System has 15 ft of line set* using existing 1/4" liquid line. What charge adjustment is required?

Formula: $(.27 \text{ oz/ft} \times 15\text{ft}) - (9 \text{ oz}) = (-4.95) \text{ oz.}$

Net result is to remove 4.95 oz of refrigerant from the system

Example 2: System has 45 ft of existing 5/16" liquid line. What is the charge adjustment?

Formula: $(.40 \text{ oz/ft.} \times 45\text{ft}) - (9 \text{ oz.}) = 9 \text{ oz.}$

Net result is to add 9 oz of refrigerant to the system

NOTE: Conditions must be favorable for charging by subcooling method. Indoor temperatures must be 70 F to 80 F (21.1 C to 26.7 C), and outdoor temperature must be 70 F to 100 F (21.2 C to 37.8 C). If outside these conditions, adjust charge for long line sets by weigh-in method.

* When applicable. Refer to Physical Data Table in this Specification and to the Installation Instructions for more information.

LONG LINE APPLICATIONS

An application is considered Long Line, when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. See Accessory Usage Guideline table for required accessories. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Air Conditioner systems, the charts below shows when an application requires a TXV and long line accessories due to lineset length.

AC with R-410A Refrigerant Long Line Description ft (m) Beyond these lengths, a TXV is required

Total Length	Outdoor Unit Above or Below Indoor Unit
TXV required beyond 50 ft. (15.2 m)	TXV required beyond 20 ft. (6.1 m)

AC with R-410A Refrigerant Long Line Description ft (m) (Beyond these lengths, long line accessories are required)

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
1/4 + TXV	No accessories needed within allowed lengths	No accessories needed within allowed lengths	175 (53.3)
5/16 + TXV	120 (36.6)	50 (15.2) vertical or 120 (36.6) total	120 (36.6)
3/8 + TXV	80 (24.4)	35 (10.7) vertical or 80 (24.4) total	80 (24.4)

Note: See Long Line Guideline for details

VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for AC systems with R-410A refrigerant:

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%)								
			Total Equivalent Line Length ft. (m)								
			26—50 (7.9—15.2)	51—80 (15.5—24.4)	81—100 (24.7—30.5)	101—125 (30.8—38.1)	126—150 (38.4—45.7)	151—175 (46.0—53.3)	176—200 (53.6—61.0)	201—225 (61.3—68.6)	226—250 (68.9—76.2)
18 1 Stage AC with R—410A	3/8	1/2	1	2	3	5	6	7	8	9	11
		5/8	0	1	1	2	2	2	3	3	
		3/4	0	0	0	1	1	1	1	1	
24 1 Stage AC with R—410A	3/8	5/8	0	1	2	3	3	4	5	5	
		3/4	0	0	1	1	1	1	2	2	
		7/8	0	0	0	0	1	1	1	1	
30 1 Stage AC with R—410A	3/8	5/8	1	2	3	3	4	5	6	7	8
		3/4	0	0	1	1	2	2	2	3	
		7/8	0	0	0	1	1	1	1	1	
36 1 Stage AC with R—410A	3/8	5/8	1	2	4	5	6	8	9	10	12
		3/4	0	1	1	2	3	3	4	4	
		7/8	0	0	0	1	1	1	2	2	
42 1 Stage AC with R—410A	3/8	3/4	0	1	2	2	3	4	4	5	6
		7/8	0	0	1	1	2	2	2	3	
		1 1/8	0	0	0	0	0	0	0	0	
48 1 Stage AC with R—410A	3/8	3/4	0	1	2	3	4	5	6	7	
		7/8	0	0	1	1	2	2	3	3	
		1 1/8	0	0	0	0	0	0	1	1	
60 1 Stage AC with R—410A	3/8	3/4	1	2	4	5	6	7	9	10	11
		7/8	0	1	2	2	3	4	4	5	5
		1 1/8	0	0	0	1	1	1	1	1	

Consult the Long Line Application Guideline document before purchasing/installing line sets.

Applications in shaded area may have height restrictions that limit allowable total equivalent length when outdoor unit is below indoor unit.

TESTED AHRI COMBINATION RATINGS

NOTE: For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org.

New ratings may be listed online before Specification Sheets are updated.

UNIT SIZE	INDOOR MODEL	AHRI STANDARD RATINGS						FURNACE MODEL
		COOLING						
		CAPACITY	FACTORY ENHANCE	SEER			EER	
STAN- DARD	TDR			TXV				
18	EA*4X19L17A^	17,200	TXV		14.00		12.20	
24	EA*4X25L17A^	24,000	TXV		14.50		12.50	
30	EA*4X37L21A^	29,600	TXV		14.50		12.50	
36	EA*4X37L21A^	34,600	TXV		14.00		12.20	
42	EA*4X43L21A^	40,000	TXV		14.00		12.20	
48	EA*4X61L24A^	45,000	TXV		14.50		11.70	
60	EA*4X60L24A^	56,500	TXV		14.00		11.70	

* — Nominal Capacity

^ — Engineering Revision

AHRI — Air Conditioning, Heating & Refrigeration Institute

EER — Energy Efficiency Ratio — 80°F (26.6°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor wb.

SEER — Seasonal Energy Efficiency Ratio

TDR — Time-Delay Relay. In most cases, only one method should be used to achieve TDR function. Using more than one method in a system may cause degradation in performance.

Use either the accessory Time-Delay Relay or a furnace equipped with TDR. Most ICP furnaces are equipped with TDR.

NOTES:

1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.

2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.

3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.

4. Do not apply with capillary tube coils as performance and reliability are significantly affected.

TESTED AHRI COMBINATION RATINGS*

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory. www.ahridirectory.org

Or scan this QR code:



DETAILED COOLING CAPACITIES#

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
CFM	EWB °F (°C)	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†
018 Size Outdoor Section With EA*4X19L17A* Indoor Cooling																			
525	72 (22.2)	20.56	10.96	1.11	19.77	18.93	10.35	1.40	17.98	10.00	1.58	16.91	9.62	1.77	15.70	9.18	1.88	2.00	
	67 (19.4)	18.80	13.55	1.12	18.03	17.20	12.89	1.41	16.29	12.52	1.58	15.26	12.11	1.78	14.11	11.66	2.00		
	63 (17.2)††	17.52	13.07	1.13	16.75	15.94	12.37	1.42	15.04	11.98	1.59	14.05	11.55	1.78	12.94	11.08	2.01		
	62 (16.7)	17.21	16.10	1.13	16.46	15.76	15.40	1.42	14.89	14.89	1.59	14.11	14.11	1.78	13.23	13.23	2.00		
	57 (13.9)	16.82	16.82	1.14	16.21	16.21	15.57	1.42	14.86	14.86	1.59	14.08	14.08	1.78	13.20	13.20	2.00		
600	72 (22.2)	20.91	11.56	1.14	20.10	11.27	19.23	10.95	1.43	18.25	10.60	1.60	17.16	10.22	1.80	15.91	9.78	2.02	
	67 (19.4)	19.14	14.52	1.15	18.35	14.21	17.50	13.87	1.44	16.56	13.49	1.61	15.51	13.08	1.80	14.33	12.62	2.03	
	63 (17.2)††	17.86	13.98	1.16	17.08	13.64	16.24	13.28	1.44	15.32	12.88	1.61	14.30	12.45	1.81	13.16	11.97	2.03	
	62 (16.7)	17.61	17.44	1.16	16.94	16.94	16.27	16.27	1.44	15.53	15.53	1.61	14.70	14.70	1.81	13.77	13.77	2.03	
	57 (13.9)	17.54	17.54	1.16	16.91	16.91	16.24	16.24	1.44	15.50	15.50	1.61	14.68	14.68	1.81	13.75	13.75	2.03	
675	72 (22.2)	21.16	12.15	1.16	20.33	11.86	19.44	11.54	1.46	18.44	11.19	1.63	17.32	10.80	1.83	16.05	10.37	2.05	
	67 (19.4)	19.39	15.48	1.17	18.58	15.16	17.72	14.81	1.46	16.77	14.44	1.63	15.69	14.03	1.83	14.49	13.56	2.05	
	63 (17.2)††	18.12	14.87	1.18	17.31	14.52	16.46	14.16	1.47	15.53	13.77	1.64	14.49	13.33	1.84	13.33	12.84	2.06	
	62 (16.7)	18.17	18.17	1.18	17.52	17.52	16.82	16.82	1.47	16.05	16.05	1.64	15.19	15.19	1.83	14.22	14.22	2.06	
	57 (13.9)	18.14	18.14	1.18	17.49	17.49	16.79	16.79	1.47	16.03	16.03	1.64	15.17	15.17	1.83	14.20	14.20	2.06	

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
CFM	EWB °F (°C)	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†
		024 Size Outdoor Section With EA*4X25L17A* Indoor Cooling																	
700	72 (22.2)	28.74	15.34	1.56	27.56	14.90	1.73	26.33	14.44	1.92	25.00	13.95	2.14	23.56	13.43	2.40	21.93	12.85	2.70
	67 (19.4)	26.25	18.97	1.56	25.16	18.51	1.73	24.00	18.04	1.92	22.78	17.53	2.14	21.42	16.99	2.40	19.90	16.39	2.70
	63 (17.2)††	24.47	18.29	1.56	23.43	17.84	1.73	22.35	17.34	1.92	21.19	16.83	2.14	19.88	16.27	2.40	18.47	15.67	2.71
	62 (16.7)	23.96	22.48	1.56	22.96	22.01	1.73	21.90	21.51	1.92	20.82	20.82	2.14	19.79	19.79	2.40	18.66	18.66	2.70
	57 (13.9)	23.35	23.35	1.56	22.55	22.55	1.73	21.70	21.70	1.92	20.79	20.79	2.14	19.76	19.76	2.40	18.63	18.63	2.70
800	72 (22.2)	29.22	16.18	1.60	28.00	15.74	1.77	26.71	15.27	1.96	25.33	14.78	2.18	23.85	14.26	2.44	22.16	13.67	2.73
	67 (19.4)	26.70	20.31	1.60	25.57	19.85	1.77	24.37	19.37	1.96	23.09	18.86	2.18	21.71	18.31	2.44	20.15	17.70	2.74
	63 (17.2)††	24.93	19.55	1.60	23.86	19.08	1.77	22.73	18.59	1.96	21.52	18.07	2.18	20.17	17.49	2.44	18.72	16.88	2.74
	62 (16.7)	24.49	24.27	1.60	23.54	23.54	1.77	22.63	22.63	1.96	21.65	21.65	2.18	20.56	20.56	2.44	19.34	19.34	2.74
	57 (13.9)	24.36	24.36	1.60	23.50	23.50	1.77	22.60	22.60	1.96	21.62	21.62	2.18	20.53	20.53	2.44	19.32	19.32	2.74
900	72 (22.2)	29.57	17.01	1.63	28.30	16.56	1.80	26.98	16.09	2.00	25.56	15.60	2.22	24.03	15.06	2.47	22.31	14.47	2.77
	67 (19.4)	27.04	21.62	1.63	25.87	21.16	1.80	24.63	20.66	1.99	23.32	20.15	2.22	21.91	19.59	2.47	20.32	18.96	2.77
	63 (17.2)††	25.27	20.77	1.63	24.17	20.29	1.80	23.00	19.80	2.00	21.76	19.27	2.22	20.38	18.68	2.48	18.89	18.04	2.78
	62 (16.7)	25.23	25.23	1.63	24.32	24.32	1.80	23.36	23.36	2.00	22.32	22.32	2.22	21.19	21.19	2.47	19.90	19.90	2.77
	57 (13.9)	25.19	25.19	1.63	24.28	24.28	1.80	23.33	23.33	2.00	22.30	22.30	2.22	21.16	21.16	2.47	19.87	19.87	2.77

See notes on page 10

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR				CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
CFM		EWB °F (°C)	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)			
			Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	
			Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	
030 Size Outdoor Section With EA*4X37L21A* Indoor Cooling																					
875	72 (22.2)		35.37	18.97	1.90		33.85	18.40	2.10	32.21	17.80	2.32	30.43	17.15	2.58	28.49	16.45	2.88	26.39	15.71	3.22
	67 (19.4)		32.03	23.39	1.90		30.63	22.81	2.10	29.12	22.19	2.32	27.48	21.53	2.58	25.70	20.81	2.87	23.76	20.05	3.21
	63 (17.2)††		29.66	22.45	1.91		28.35	21.87	2.10	26.94	21.25	2.32	25.41	20.58	2.58	23.73	19.86	2.88	21.91	19.08	3.22
	62 (16.7)		29.11	27.69	1.91		27.85	27.09	2.10	26.50	26.38	2.32	25.24	25.24	2.58	23.91	23.91	2.87	22.43	22.43	3.22
	57 (13.9)		28.50	28.50	1.91		27.49	27.49	2.10	26.40	26.40	2.32	25.19	25.19	2.58	23.87	23.87	2.87	22.40	22.40	3.22
1000	72 (22.2)		36.01	20.05	1.95		34.42	19.47	2.14	32.71	18.86	2.37	30.87	18.20	2.63	28.86	17.49	2.92	26.67	16.74	3.26
	67 (19.4)		32.63	25.08	1.95		31.17	24.49	2.14	29.60	23.86	2.37	27.91	23.19	2.63	26.07	22.46	2.92	24.07	21.67	3.26
	63 (17.2)††		30.24	24.03	1.95		28.87	23.43	2.15	27.40	22.80	2.37	25.82	22.12	2.63	24.09	21.38	2.92	22.21	20.58	3.26
	62 (16.7)		29.92	29.65	1.95		28.74	28.74	2.15	27.56	27.56	2.37	26.27	26.27	2.63	24.85	24.85	2.92	23.28	23.28	3.26
	57 (13.9)		29.78	29.78	1.95		28.70	28.70	2.15	27.52	27.52	2.37	26.23	26.23	2.62	24.81	24.81	2.92	23.24	23.24	3.26
1125	72 (22.2)		36.46	21.09	2.00		34.82	20.51	2.19	33.07	19.89	2.42	31.16	19.23	2.67	29.09	18.51	2.97	26.86	17.74	3.31
	67 (19.4)		33.08	26.72	1.99		31.57	26.12	2.19	29.96	25.48	2.41	28.22	24.80	2.67	26.35	24.05	2.97	24.33	23.23	3.31
	63 (17.2)††		30.68	25.55	2.00		29.26	24.95	2.19	27.76	24.30	2.42	26.12	23.60	2.67	24.36	22.84	2.97	22.47	21.99	3.31
	62 (16.7)		30.90	30.90	2.00		29.75	29.75	2.19	28.49	28.49	2.41	27.13	27.13	2.67	25.62	25.62	2.97	23.98	23.98	3.31
	57 (13.9)		30.85	30.85	2.00		29.71	29.71	2.19	28.45	28.45	2.41	27.09	27.09	2.67	25.59	25.59	2.97	23.94	23.94	3.31

EVAPORATOR AIR				CONDENSER ENTERING AIR TEMPERATURES °F (°C)															
CFM	EWB °F (°C)	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	
036 Size Outdoor Section With EA*4X37L21A* Indoor Cooling																			
1050	72 (22.2)	41.37	21.28	2.29	39.61	20.66	2.57	37.34	19.87	2.85	34.80	19.01	3.15	32.22	18.13	3.51	29.74	17.32	3.96
	67 (19.4)	38.24	26.63	2.29	36.68	26.02	2.57	34.60	25.21	2.84	32.26	24.32	3.13	29.89	23.42	3.49	27.60	22.56	3.93
	63 (17.2)††	35.82	25.73	2.30	34.41	25.13	2.57	32.47	24.32	2.84	30.30	23.42	3.12	28.06	22.51	3.48	25.93	21.65	3.92
	62 (16.7)	35.20	31.75	2.31	33.85	31.13	2.57	32.01	31.87	2.83	30.18	30.18	3.12	28.33	28.33	3.48	26.52	26.52	3.92
	57 (13.9)	34.54	34.54	2.31	33.43	33.43	2.58	31.90	31.90	2.83	30.14	30.14	3.12	28.29	28.29	3.48	26.48	26.48	3.92
1200	72 (22.2)	41.83	22.41	2.34	39.99	21.78	2.63	37.64	20.98	2.91	35.04	20.11	3.22	32.39	19.23	3.58	29.84	18.39	4.02
	67 (19.4)	38.76	28.48	2.35	37.13	27.85	2.62	34.98	27.03	2.90	32.57	26.13	3.19	30.13	25.21	3.55	27.79	24.32	3.99
	63 (17.2)††	36.39	27.47	2.36	34.91	26.85	2.63	32.90	26.03	2.89	30.64	25.11	3.18	28.35	24.18	3.54	26.16	23.28	3.98
	62 (16.7)	35.97	35.97	2.36	34.75	34.75	2.63	33.08	33.08	2.89	31.17	31.17	3.18	29.19	29.19	3.54	27.24	27.24	3.99
	57 (13.9)	35.91	35.91	2.36	34.70	34.70	2.63	33.04	33.04	2.89	31.13	31.13	3.18	29.16	29.16	3.54	27.22	27.22	3.99
1350	72 (22.2)	42.12	23.50	2.40	40.23	22.86	2.69	37.82	22.05	2.97	35.16	21.18	3.28	32.45	20.29	3.64	29.86	19.44	4.09
	67 (19.4)	39.13	30.28	2.40	37.44	29.64	2.68	35.23	28.80	2.96	32.78	27.87	3.25	30.31	26.93	3.61	27.93	25.97	4.06
	63 (17.2)††	36.81	29.15	2.41	35.26	28.52	2.69	33.20	27.67	2.95	30.89	26.73	3.24	28.56	25.77	3.60	26.36	26.11	4.04
	62 (16.7)	37.06	37.06	2.41	35.74	35.74	2.68	33.96	33.96	2.95	31.94	31.94	3.25	29.84	29.84	3.61	27.79	27.79	4.05
	57 (13.9)	37.01	37.01	2.41	35.70	35.70	2.68	33.92	33.92	2.95	31.90	31.90	3.25	29.81	29.81	3.61	27.76	27.76	4.05

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DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																							
		75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)			
		Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**			
Total	Sens†	Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†				
CFM	EWB °F (°C)	042 Size Outdoor Section With EA*4X43L21A* Indoor Cooling																							
1200	72 (22.2)	48.28	25.79	2.74		46.16	24.99	3.00	3.29	41.66	23.31	3.63		39.16	22.40	4.04		36.41				4.50			
	67 (19.4)	43.89	31.69	2.73		41.97	30.88	2.98	3.28	37.90	29.20	3.62		35.60	28.27	4.02		33.08				4.49			
	63 (17.2)††	40.73	30.48	2.72		38.96	29.68	2.98	3.27	35.18	28.01	3.61		33.05	27.08	4.01		30.68				4.48			
	62 (16.7)	39.99	37.46	2.72		38.27	36.64	2.97	3.27	34.69	34.69	3.61		32.98	32.98	4.01		31.05				4.48			
	57 (13.9)	38.93	38.93	2.71		37.58	37.58	2.97	3.27	34.63	34.63	3.61		32.93	32.93	4.01		31.01				4.48			
1400	72 (22.2)	49.27	27.40	2.83		47.02	26.58	3.08	3.37	42.31	24.87	3.71		39.69	23.94	4.11		36.83				4.58			
	67 (19.4)	44.84	34.26	2.81		42.81	33.44	3.06	3.36	38.54	31.71	3.70		36.15	30.76	4.10		33.53				4.57			
	63 (17.2)††	41.64	32.87	2.80		39.77	32.05	3.05	3.35	35.82	30.33	3.69		33.59	29.38	4.09		31.14				4.56			
	62 (16.7)	41.13	40.72	2.80		39.50	39.50	3.05	3.35	36.27	36.27	3.69		34.43	34.43	4.10		32.35				4.56			
	57 (13.9)	40.93	40.93	2.80		39.44	39.44	3.05	3.35	36.22	36.22	3.69		34.38	34.38	4.10		32.31				4.56			
1575	72 (22.2)	49.87	28.75	2.90		47.56	27.92	3.15	3.44	42.68	26.18	3.78		39.99	25.24	4.18		37.06				4.65			
	67 (19.4)	45.42	36.42	2.88		43.33	35.58	3.13	3.43	38.93	33.82	3.77		36.49	32.84	4.17		33.83				4.64			
	63 (17.2)††	42.22	34.88	2.87		40.28	34.04	3.12	3.42	36.20	32.27	3.76		33.93	31.29	4.16		31.44				4.63			
	62 (16.7)	42.38	42.38	2.87		40.78	40.78	3.13	3.42	37.35	37.35	3.77		35.40	35.40	4.17		33.21				4.64			
	57 (13.9)	42.32	42.32	2.87		40.73	40.73	3.13	3.42	37.31	37.31	3.77		35.35	35.35	4.17		33.17				4.64			

EVAPORATOR AIR				CONDENSER ENTERING AIR TEMPERATURES °F (°C)																				
CFM	EWB °F (°C)	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)							
		Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**	Capacity MBtuh		Total System KW**					
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†						
048 Size Outdoor Section With EA*4X61L24A* Indoor Cooling																								
1400	72 (22.2)	52.71	28.54	3.09		50.95	27.88	3.43		48.85	27.12	3.77		46.27	26.18	4.15		43.07	25.04	4.61		39.22	23.68	5.15
	67 (19.4)	47.95	35.38	3.11		46.25	34.68	3.44		44.30	33.88	3.77		41.94	32.93	4.14		39.02	31.76	4.59		35.51	30.36	5.15
	63 (17.2)††	44.52	33.99	3.12		42.86	33.26	3.44		41.03	32.45	3.76		38.83	31.50	4.13		36.13	30.33	4.58		32.86	28.93	5.14
	62 (16.7)	43.84	42.02	3.12		42.27	41.24	3.43		40.54	40.35	3.76		38.71	38.71	4.13		36.53	36.53	4.59		33.83	33.83	5.14
	57 (13.9)	43.14	43.14	3.12		41.84	41.84	3.43		40.39	40.39	3.76		38.65	38.65	4.13		36.47	36.47	4.58		33.78	33.78	5.14
1600	72 (22.2)	53.52	30.14	3.16		51.72	29.49	3.51		49.54	28.70	3.85		46.86	27.75	4.23		43.55	26.58	4.69		39.58	25.20	5.23
	67 (19.4)	48.75	37.90	3.18		47.01	37.20	3.51		45.00	36.40	3.85		42.55	35.42	4.22		39.54	34.22	4.68		35.94	32.78	5.22
	63 (17.2)††	45.30	36.34	3.19		43.61	35.60	3.51		41.71	34.78	3.84		39.43	33.80	4.21		36.64	32.60	4.66		33.28	31.14	5.22
	62 (16.7)	45.21	44.59	3.19		43.67	43.67	3.51		42.12	42.12	3.84		40.25	40.25	4.21		37.90	37.90	4.67		35.01	35.01	5.22
	57 (13.9)	44.97	44.97	3.19		43.61	43.61	3.51		42.06	42.06	3.84		40.19	40.19	4.21		37.84	37.84	4.67		34.96	34.96	5.22
1800	72 (22.2)	54.11	31.67	3.23		52.26	31.01	3.58		50.02	30.22	3.93		47.27	29.25	4.31		43.87	28.07	4.77		39.80	26.68	5.31
	67 (19.4)	49.36	40.35	3.25		47.58	39.64	3.59		45.52	38.82	3.92		43.01	37.82	4.30		39.95	36.57	4.75		36.31	35.03	5.30
	63 (17.2)††	45.90	38.61	3.27		44.17	37.86	3.59		42.22	37.02	3.92		39.90	36.02	4.29		37.05	34.76	4.74		33.68	33.15	5.30
	62 (16.7)	46.54	46.54	3.26		45.12	45.12	3.59		43.49	43.49	3.92		41.50	41.50	4.30		39.00	39.00	4.75		35.96	35.96	5.30
	57 (13.9)	46.48	46.48	3.26		45.06	45.06	3.59		43.43	43.43	3.92		41.44	41.44	4.30		38.95	38.95	4.75		35.92	35.92	5.30

See notes on page 10

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR				CONDENSER ENTERING AIR TEMPERATURES °F (°C)															
CFM	EWB °F (°C)	75 (23.9)		85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)							
		Capacity MBtuh Total	Sens†	Total System KW**	Capacity MBtuh Total	Sens†	Total System KW**	Capacity MBtuh Total	Sens†	Total System KW**	Capacity MBtuh Total	Sens†	Total System KW**						
060 Size Outdoor Section With EA*4X60L24A* Indoor Cooling																			
1750	72 (22.2)	68.41	35.82	4.01	65.35	34.67	4.39	62.15	33.49	4.86	58.70	32.23	5.39	55.01	30.89	5.96	50.87	29.41	6.55
	67 (19.4)	62.24	44.04	4.01	59.41	42.88	4.38	56.50	41.69	4.83	53.38	40.43	5.35	50.00	39.08	5.91	46.23	37.59	6.49
	63 (17.2)††	57.78	42.37	4.02	55.13	41.19	4.37	52.41	39.99	4.81	49.54	38.75	5.32	46.39	37.40	5.87	42.89	35.91	6.45
	62 (16.7)	56.92	52.17	4.02	54.40	50.96	4.37	51.84	49.69	4.81	49.16	49.16	5.32	46.64	46.64	5.88	43.73	43.73	6.46
	57 (13.9)	55.64	55.64	4.02	53.56	53.56	4.37	51.43	51.43	4.81	49.13	49.13	5.32	46.56	46.56	5.88	43.68	43.68	6.46
2000	72 (22.2)	69.54	37.55	4.10	66.36	36.39	4.49	63.04	35.18	4.96	59.50	33.91	5.49	55.63	32.53	6.06	51.36	31.03	6.86
	67 (19.4)	63.30	46.83	4.11	60.35	45.64	4.47	57.34	44.44	4.93	54.11	43.16	5.45	50.61	41.77	6.01	46.74	40.24	6.80
	63 (17.2)††	58.79	44.95	4.11	56.04	43.76	4.47	53.23	42.55	4.91	50.24	41.27	5.42	47.00	39.89	5.98	43.39	38.33	6.56
	62 (16.7)	58.25	55.83	4.11	55.72	55.33	4.47	53.37	53.37	4.91	50.91	50.91	5.43	48.16	48.16	5.99	45.09	45.09	6.58
	57 (13.9)	57.80	57.80	4.11	55.59	55.59	4.47	53.30	53.30	4.91	50.84	50.84	5.43	48.11	48.11	5.99	45.03	45.03	6.58
2250	72 (22.2)	70.37	39.17	4.20	67.10	37.99	4.59	63.67	36.77	5.06	60.02	35.48	5.59	56.04	34.08	6.17	51.66	32.55	6.76
	67 (19.4)	64.08	49.47	4.20	61.08	48.28	4.57	57.95	47.04	5.03	54.64	45.73	5.55	51.07	44.31	6.12	47.12	42.69	6.70
	63 (17.2)††	59.56	47.41	4.20	56.73	46.20	4.56	53.82	44.95	5.01	50.77	43.65	5.52	47.44	42.21	6.08	43.78	40.57	6.66
	62 (16.7)	59.69	59.69	4.20	57.32	57.32	4.56	54.90	54.90	5.02	52.28	52.28	5.53	49.41	49.41	6.10	46.17	46.17	6.69
	57 (13.9)	59.58	59.58	4.20	57.25	57.25	4.56	54.83	54.83	5.02	52.23	52.23	5.53	49.35	49.35	6.10	46.12	46.12	6.69

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240–2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

** System kw is total of indoor and outdoor unit kilowatts.

†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

EWB — Entering Wet Bulb

ACCESSORY USAGE GUIDELINE

Accessory	REQUIRED FOR LOW-AMBIENT APPLICATIONS {Below 55°F (13°C)}	REQUIRED FOR LONG-LINE APPLICATIONS*
Crankcase Heater	Yes	Yes
Evaporator Freeze Thermostat	Yes	No
Winter Start Control	Yes**	No
TXV	Yes	Yes‡
Hard Start Kit (Capacitor & Relay)	Yes	Yes
Low Ambient Kit (Pressure Switch)	Yes	No
Support Feet, 4" (102mm) tall	Recommended	No

* Refer to the Long Line Application Guideline document.

** Can only be installed in conjunction with the Low Pressure Switch

‡ TXV required beyond 20 ft (6.1m) vertical separation or 50 ft (15.2) total length.

ACCESSORIES

Part Number	Description	Used On Model Size
NASA001CH	Crankcase Heater for Scroll Compressor (208/230 V)	42 – 60
NASA003CH	Crankcase Heater for Scroll Compressor (208/230 V)	18 – 36
NASA001SC	Start Component – PTC Device	24 – 60
NASA00201FS	Evaporator Freeze Thermostat	ALL
NASA403PS	Low Pressure Switch, AC, R-410A	ALL
NASA401LS	Liquid Line Solenoid Valve, R-410A	ALL
NASA001TD	Time Delay Relay, Indoor Blower	ALL
NASA00201WS	Winter Start Control	ALL
NASA001AC	Anti-Cycle Timer (5 minute delay)	ALL
NASA404PS	High Pressure Switch, AC or HP, R-410A	ALL
NASA005SC	Hard Start Kit (Capacitor & Relay)	ALL
NASA401LA	Low Ambient Kit (Pressure Switch), R-410A	ALL
NASA00201SF	Support Feet, 4" (102mm) tall (5 blocks)	18 – 36
NASA001SJ	Sound Jacket, Compressor	18 – 48
NASA003SJ	Sound Jacket, Compressor	60
NAEA40501TX	TXV Kit, R-410A for use with copper or tin fan coils	18 – 30
NAEA40601TX	TXV Kit, R-410A for use with copper or tin fan coils	36 – 42
NAEA40701TX	TXV Kit, R-410A for use with copper or tin fan coils	60
NAEB40501TX	TXV Kit, R-410A for use with aluminum fan coils	18 – 30
NAEB40601TX	TXV Kit, R-410A for use with aluminum fan coils	36 – 42
NAEB40701TX	TXV Kit, R-410A for use with aluminum fan coils	60

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