

# MATERIALES ELECTRICOS DE CONSTRUCCION Y REFRIGERACION, S.A

RNC: 1-01-60003-9











### COTIZACION

Cotizado A:

539-5419

**JUNTA CENTRAL ELECTORAL** 

**DEPTO. COMPRAS** 

**AV. LUPERON ESQ. AV. 27 DE FEBRERO** 

**ZONA IND. HERRERA, SANTO DOMINGO OESTE** 

**SANTO DOMINGO O RD** 

Datos de la Cotización

**NUMERO FECHA** 

67220 03/19/19

**TERMINOS** 

**CREDITO 30 DIAS** 

**PAGINA** 

1

Plácenos c	otizarles los artículos detallados a continuació:	ni			
CODIGO	DESCRIPCION	CANTIDAD	PRECIO	%DESC	VALOR
010101	A/A T/D 60000 BTU, R-410A, 1 MARCA: CARRIER EFICIENCIA 18 SEER, INVERTER, R-410A DUCTEABLE, 230V/1PH/60HZ.	5,0	472000.00	15.000	2006000.0
010101	A/A T/D 24000BTU R410A 19 SE MARCA: CARRIER EFICIENCIA 19 SEEP INVERTER R-410A DUCTEABLE, 230V/1PH/60HZ.	1.0	396000.00	15.000	336,600.0
40-0264	A/A 12000BTU R410A 19SEER CI MARCA: CIAC (CARRIER ENTERPRISE) EFICIENCIA 19 SEER, INVERTER, R-410A SPLIT DE PARED, 230V, 1PH, 60HZ	1.0	36800.00	15.000	31,280.0
12-0072	GAS R-410A 25LB MEXICHEM KLE	1.0	7,200.00	15.000	6,120.0
01-0010	TUBO RIGIDO COERE 1/2	1.0	1,985.00		1,687.2
01-0009	TUBO RIGIDO COERE 3/8	8.0	1,350.00		9,180.0
01-0013	TUBO RIGIDO COERE 7/8	15.0	3,600.00		45,900.0
01-0023	CODO COBRE 7/8 90 GRADOS*	40.0	65.00	15.000	2,210.0
03-0006	VASCOCEL 7/8 x 1/2 ROMANIA	40.0	150,00		5,100.0
24-0004	TIME DELAY TGM A/A*	05 08 00 6.0		15.000	1,147.5
15-0001	MONITOR DE FASE SLA-440 ASA*	6.0	6,800.00		34,680.0
60-0026	REJILLA PLASTICA 2 x 4 *	8.0	575.00		3,910.0
30-0018	FILTRO VEGETAL 30x4x1 AZUL	20.0	3,950.00		67,150.0
05-0019	ALAMBRE GOMA 14/4*	500.0	The state of the s	15.000	12,750.0

Cotización válida por 40 dias.

Firma Autorizada

• <u>Sto. Dgo.</u>: c/Juan Tomás Mejía y Cotes #57, Arroyo Hondo. Tel. 809-636-7000, Fax. 809-565-0116

c/Belisario Curiel No. 5, Pueblo Nuevo. Tel. 809-583-3300, Fax. 809-583-9222 • Santiago: • <u>Bávaro</u>: Av. Barceló Km.3 Plaza Meeting Point Local C1/C2. Tel. 809-933-3342, Fax. 809-933-3346



REFRINATELCO







SUBTOTAL RD\$:

'ITBIS RD\$: **TOTAL RD\$:** 



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**PAGINA** 

-0027 -0028 -0045 -0003 -0000 -9130 -0058 -0127 -6210	ALAMBRE THHN AWG NO.8 ALAMBRE THHN NO.10 PLANCHA EASYPANEL 10x4 21MM TAPE ALUMINIO 3 " * TAPE GRIS* TIE WRAP 14" BARRA ROSCADA 3/8 TUERCA CAMPANA 3/8*	320.0 120.0 12.0 30.0 5.0 100.0 26.0	10.00 10.00 3,450.00 440.00 345.00 6.00	15.000 15.000 15.000 15.000	2,720.0 1,020.0 35,190.0 11,220.0 1,466.2
-0045 -0003 -0000 -9130 -0058 -0127	PLANCHA EASYPANEL 10x4 21MM TAPE ALUMINIO 3 " * TAPE GRIS* TIE WRAP 14" BARRA ROSCADA 3/8	12.0 30.0 5.0 100.0	3,450.00 440.00 345.00 6.00	15.000 15.000 15.000	35,190.0 11,220.0
-0003 -0000 -9130 -0058 -0127	TAPE ALUMINIO 3 " * TAPE GRIS* TIE WRAP 14" BARRA ROSCADA 3/8	30.0 5.0 100.0	440.00 345.00 6.00	15.000 15.000	11,220.0
-0000 -9130 -0058 -0127	TAPE GRIS* TIE WRAP 14" BARRA ROSCADA 3/8	5.0 100.0	345.00 6.00	15.000	
-9130 -0058 -0127	TIE WRAP 14" BARRA ROSCADA 3/8	100.0	6.00		1.466
-0058 -0127	BARRA ROSCADA 3/8				1,10012
-0127		26.0	20 to 10 to	15.000	510.0
	THEDCA CAMDANA 2/0*		750.00	15.000	16,575.0
-6210	TUERCA CAMPANA 3/8"	100.0	8.00	15.000	680.0
	ARANDELAS PLANAS DE 3/8	100.0	4.00	15.000	340.0
-6152	BARRA UNITROT 3/4	6.0	650.00	15.000	3,315.0
-0008	DIFUSOR SUMINISTRO 12 x 12 4	28.0	975.00	15.000	23,205.0
-6207	CEMENTO CONTACTO P3 GALON	3.0	2,900.00	15.000	7,395.0
-6084	CEMENTO PVC	1.0	750.00	15.000	637.5
-0045	COPLING COBRE 7/8*	6.0	48.00	15.000	244.8
-0000	PROTECTOR TERM: 585-TG* gran	6.0	600.00	15.000	3,060.0
-7001	TUBO PVC SDR-26 2 x 19	3.0	175.00	15.000	446.2
-5616	ADAPTADOR MACHO PVC 3/4	12.0	8.00	15.000	81.€
-5618	COPLING PVC 3/4	18.0	12.00	15.000	183.€
-5617	TAPON HEMBRA PVC 3/4	12.0	7.00	15.000	71.4
-0012	REDUCCION PVC 2 A 3/4	18.0	7.00	15.000	107.1
-0229	TUBO PLEXIBLE STATE OF THE	120.0	225:00	15.000	22,950.0
-0109	CONECTOR LT 3/4 RECTO	6.0	125,00	15.000	637.5
-0110	CONECTOR LT 3/4 CURVO	Clecticos de Co. 600	125.00	15.000	637.5
-0015	SW ALTA HK02ZA439-0/C 426/32	6.0	2,205.00	15.000	11,245.5
0404	MANO OBRA E INSTALACION	10	125000.00		125,000.0
	0045 0000 7001 5616 5618 5617 0012 0229 0109	0045 COPLING COBRE 7, 8* 0000 PROTECTOR TERM. 585-TG* gran 7001 TUBO PVC SDR-26 2 x 19 5616 ADAPTADOR MACHD PVC 3/4 5618 COPLING PVC 3/4 5617 TAPON HEMBRA PVC 3/4 0012 REDUCCION PVC 2 A 3/4 00229 TUBO PLEXIBLE 5/4 LIQUID TIG 0109 CONECTOR LT 3/4 RECTO 0110 CONECTOR LT 3/4 CURVE 0015 SW ALTA HK02ZA439 Q/C 426/32	0045         COPLING COBRE 7 8*         6.0           0000         PROTECTOR TERM: 585-TG* gran         6.0           7001         TUBO PVC SDR-26 2 x 19         3.0           5616         ADAPTADOR MACHO PVC 3/4         12.0           5618         COPLING PVC 3/4         18.0           5617         TAPON HEMBRA PVC 3/4         12.0           0012         REDUCCION PVC 2 A 3/4         18.0           0229         TUBO PTEXIBLE 5/4 LIQUID TIG         120.0           0109         CONECTOR LT 3/4 RECTO         6.0           0110         CONECTOR LT 3/4 CURVE         6.0           0015         SW ALTA HK02ZA439-0/C 426/32         6.0	0045         COPLING COBRE 7, 8*         6.0         48.00           0000         PROTECTOR TERM, 585-TG* gran         6.0         600.00           7001         TUBO PVC SDR-26 2 x 19         3.0         175.00           5616         ADAPTADOR MACHO PVC 3/4         12.0         8.00           5618         COPLING PVC 3/4         18.0         12.00           5617         TAPON HEMBRA PVC 3/4         12.0         7.00           0012         REDUCCION PVC 2 A 3/4         18.0         7.00           0229         TUBO PLEXIBLE 5/4 LIQUID TIG         120.0         225.00           0109         CONECTOR LT 3/4 RECTO         6.0         125.00           0110         CONECTOR LT 3/4 CURVE         6.0         2,205.00           0015         SW ALTA HK02ZA439 O/C 426/32         6.0         2,205.00	0045         COPLING COBRE 7, 8*         6.0         48.00         15.000           0000         PROTECTOR TERM. 585-TG* gran         6.0         600.00         15.000           7001         TUBO PVC SDR-26 2 x 19         3.0         175.00         15.000           5616         ADAPTADOR MACHD PVC 3/4         12.0         8.00         15.000           5618         COPLING PVC 3/4         18.0         12.00         15.000           5617         TAPON HEMBRA PVC 3/4         12.0         7.00         15.000           0012         REDUCCION PVC 2 A 3/4         18.0         7.00         15.000           00229         TUBO PLEXIBLE 3/4 LIQUID TIG         120.0         225.00         15.000           0109         CONECTOR LT 3/4 RECTO         6.0         125.00         15.000           0110         CONECTOR LT 3/4 CURVE         6.0         125.00         15.000           0015         SW ALTA HK02ZA439 O/C 426/32         15.000         2,205.00         15.000

Cotización válida por 90 dias.

Firma Autorizada

**SUBTOTAL RD\$:** ITBIS RD\$: **TOTAL RD\$:** 

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<sup>•</sup> Sto. Dgo.: c/Juan Tomás Mejía y Cotes #57, Arroyo Hondo. Tel. 809-636-7000, Fax. 809-565-0116 c/Belisario Curiel No. 5, Pueblo Nuevo. Tel. 809-583-3300, Fax. 809-583-9222 • Santiago:

<sup>• &</sup>lt;u>Bávaro</u>: Av. Barceló Km.3 Plaza Meeting Point Local C1/C2. Tel. 809-933-3342, Fax. 809-933-3346



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Plácenos cotizarles los artículos detallados a continuación:

CODIGO

DESCRIPCION

CANTIDAD

**PRECIO** 

%DESC

VALOR

**GARANT**IA EQUIPOS: 1 AÑO PARTES **ENTREGA EQUIPOS/INSTALAC: 8-10 SEMANAS** PAGO 80% CON ORDEN + 20% CREDITO 60 DIAS COTIZACION VALIDA POR 90 DIAS



Cotización válida por 40 dias.

Firma Autorizada

**SUBTOTAL RD\$:** ITBIS RD\$: **TOTAL RD\$:** 

2832653.75 509,877.68 3342531.43

• <u>Sto. Dgo.</u>: c/Juan Tomás Mejía y Cotes #57, Arroyo Hondo. Tel. **209-636-7000**, Fax. **209-565-0116** • Santiago: c/Belisario Curiol No. 5, Pueblo Nuevo. Tel. 809-583-3300, Fax. 809-583-3222 • Bávaro: Av. Barceló Km.3 Plaza Meeting Point Local C1/C2. Tel. 809-933-3342, Fax. 809-933-3346

info@refrimatelco.com

REFRINATELCO











**QU POND** 

Santo Domingo, D.N. 25 marzo 2019



Señores JUNTA CENTRAL ELECTORAL (JCE)

Asunto: TERMINOS DE ENTREGA / GARANTIA

Estimados Señores:

De conformidad con la descripción de bienes de la Oferta Técnica para la ADQUISICIÓN E INSTALACION DE EQUIPOS DE AIRE ACONDICIONADO PARA EL Copeland LOCAL DEL MUNICIPIO DE PUÑAL, SANTIAGO DE LOS CABALLEROS, para uso de su Institución, registrado bajo Proceso de Comparación de Precios Ref. 2019-000486 (CP-05-19), sobre Términos de Entrega, nos COMPROMETEMOS a entregar los bienes y materiales, en un plazo de OCHO (8) A DIEZ (10) SEMANAS, a partir de la firma del contrato. La garantía de los equipos es de un (1) año en piezas fundamentales.



Le saluda, muy atentamente

AIRGUIDE

Ing. Iván Fernando Reynoso Rodriguez

Director de Operaciones

Materiales Eléctricos de Construcción y Refrigeración, S.A.









**CAULIND** 

Santo Domingo, D.N. 25 marzo de 2019



Señores JUNTA CENTRAL ELECTORAL (JCE)

Ciudad.-

Asunto: TERMINOS DE PAGO

Estimados Señores:



De conformidad con la Oferta Económica para la ADQUISICIÓN E INSTALACION DE EQUIPOS DE AIRE ACONDICIONADO PARA EL LOCAL DEL COPEIANE MUNICIPIO DE PUÑAL, SANTIAGO DE LOS CABALLEROS, para uso de su Institución, registrado bajo Proceso de Comparación de Precios Ref. 2019-000486 (CP-05-19), sobre Condiciones de Pago, INFORMAMOS la condición de pago de la misma con un 80% de avance con orden de compra y el restante, 20% a un crédito de hasta sesenta (60) días calendario, a partir de la entrega de los bienes y/o servicios y la fecha de depósito de la factura con comprobante fiscal gubernamental, firmada y sellada.



AIRGUIDE

Le saluda, muy atentamente

Ing. Iván Fernando Reynoso Rodriguez

Director de Operaciones Materiales Eléctricos de Construcción y R

embraco POWER IN.



Infinity® Variable Speed Air Conditioner with Greenspeed® Intelligence 2 to 5 Nominal Tons



# **Product Data**

### INDUSTRY LEADING FEATURES / BENEFITS

### **Energy Efficiency**

- Up to 20.5 SEER / 15.5 EER
- Microtube Technology<sup>™</sup> refrigeration system
- · Indoor air quality accessories available

#### Sound

· Sound level as low as 58 dBA

#### Comfort

- Variable speed scroll compressor with capacity range from 40-100%
- Air cooled Inverter variable speed drive
  - System requires Infinity® wall control (SYSTXCCITC01-A, SYSTXCCITC01-B or newer)
- Energy Tracking capability with the Infinity wall control w/software version 13 or later (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity system.)

#### Reliability

- Non-ozone depleting Puron® refrigerant
- Front-seating service valves
- · Greenspeed® Intelligence monitors critical system parameters
- · High pressure switch
- Suction pressure transducer
- · TXV for cooling
- Filter drier (field installed)
- · Internal crankcase heater standard

### Flexibility and installation:

- · 2 control wires to outdoor unit
- · Minimum and maximum airflow adjustments

#### Durability

WeatherArmor Ultra<sup>™</sup> protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- · Baked-on, complete outer coverage, powder paint

#### **Applications**

Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft (24.38 m) evaporator above condenser (See Longline Guide for more information.)



Carrier's 24VNA0 with Greenspeed<sup>®</sup> Intelligence is a variable speed cooling product providing up to 20.5 SEER cooling efficiency. Lower speed operation, when needed in cooling, for enhanced comfort and dehumidification.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

### MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7 8	9	10	11	12	13
N	N	Α	Α	A/N	N	N N	A/N	A/N	A/N	N	N
2	4	٧	N	Α	0	3 6	A	0	0	3	0
Prod		Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage	Minor Series
24 =	AC	V = VS AC	N=	A = Puron	0= 20 SEER	1,000 Btuh	A = Standard	0=Not	0=Not	3=208/230-1	0, 1, 2





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









This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refligerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.





### STANDARD FEATURES

FEATURES		Unit Size - V	oltage, Series	
realunes	24-30	36-30	48-30	60-30
Puron Refrigerant	X	X	X	X
Louvered Coll Guard	X	Х	X	X
Field Installed Filter Drier	X	X	X	X
Front Seating Service Valves	X	X	X	X
Temperature Protection	X	X	×	X
Long Line capability	X	X	×	X
Suction Pressure Transducer	X	X	×	X
High Pressure Switch	X	X	×	· X
Internal Crankcase Heater	X	X	X	X
Low ambient cooling down to 0°F capability with Infinity® Wall Control	Х	×	×	X
Utility Interface Connections	X	×	X	X
Enhanced Diagnostics with Infinity® Wall Control	×	×	×	X
Energy Tracking Capability with the Infinity® Wall Control (requires software version 13 or later)	×	×	×	×
Deluxe Sound Blanket	X	X	×	X
Outdoor Air Temperature Sensor	X	X	X	X

X = Standard

### REFRIGERANT PIPING LENGTH LIMITATIONS

### Maximum Line Lengths:

The maximum allowable total equivalent length for air conditioners can vary depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

### Maximum Line Lengths for Air Conditioner Applications

	MAXIMUM ACTUAL LENGTH ft (m)	MAXIMUM EQUIVALENT LENGTH†	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximu	ım Total Equivalent Length: Outdoor Unit BELOW l	ndoor Unit'

<sup>†</sup> Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

### Maximum Total Equivalent Length<sup>†</sup> - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter		1			um Total Equivalent r unit BELOW indoo		
Size	w/ TXV	0-20 (0 - 6.1)	21-30 (6.4 - 9.1)	31-40 (9.4 - 12.2)	41-50 (12.5 - 15.2)	51-60 (15.5 - 18.3)	61-70 (18.6 - 21.3)	71-80 (21.6 - 24.4)
24	3/8	250*	250*	250*	250*	250*	250*	250*
36	3/8	250*	250*	250*	250*	250*	250*	250*
48	3/8	250*	250*	250*	250*	230	160	
60	3/8	250*	225*	190	150*	110		

<sup>\*</sup> Maximum actual length not to exceed 200 ft (61 m)

### 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. 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 chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

# AC with Puron Referant Long Line Description ft. (m) Beyond these lengths, long line accessoriews are required.

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
3/8	80 (24.4)	20 (6.1) vertical or 80 (24.4) total	80 (24.4)

Note: See Long Line Guideline for details

### **COOLING CAPACITY LOSS TABLE**

Nominal	Line OD					24VNA0 Cod	oling Capaci	ity Loss (%)				- 90
Size	(in.)					Total Equi	valent Line l	ength (ft)				
(Btuh)	()	25	50	75	80	100	125	150	175	200	225	250
	5/8	0.5	1.2	1.8	1.9	2.4	3.0	3.7	4.3	4.9	5.5	6.2
24000	3/4	0.1	0.4	0.6	0.7	0.8	1.1	1.3	1.5	1.8	2.0	2.3
	7/8	0.0	0.1	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1
	5/8	1.1	2.4	3.7	4.0	5.0	6.3	7.7	9.0	10.3	11.6	12.9
36000	3/4	0.3	0.8	1.3	1.4	1.8	2.3	2.8	3.2	3.7	4.2	4.7
	7/8	0.0	0.3	0.5	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3
	3/4	0.7	1.6	2.4	2.6	3.2	4.1	4.9	5.7	6.5	7.4	8.2
48000	7/8	0.3	0.7	1.1	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.1
	1 1/8	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	3/4	1.0	2.3	3.5	3.8	4.8	6.0	7.3	8.5	9.8	11.0	12.3
60000	7/8	0.4	1.0	1.7	1.8	2.3	2.9	3.5	4.2	4.8	5.4	6.0
	1 1/8	0.0	0.1	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5

Rating Line Size in Bold

<sup>†</sup> Total equivalent length accounts for losses due to elbows or fitting.

<sup>-- =</sup> outside acceptable range

### MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure

the system will deliver full capacity at all outdoor temperatures. Minimum and maximum airflows can be adjusted from these numbers in the Infinity wall control air conditioner Setup screen.

	Cooling - Comfort Mode		Minimum Cooling
Size	Max Capacity	Min Capacity	(Dehum or Zoning)
24	726	651	398
36	1168	651	398
48	1394	1186	693
60	1650	1186	693

	Cooling - Efficiency Mode					
Size	Max Capacity	Min Capacity				
24	949	830				
36	1334	830				
48	1593	1355				
60	1885	1355				

### PHYSICAL DATA

UNIT SIZE SERIES	24-30	36-30	48-30	60-30
Operating Weight lb (kg)	315 (143)	315 (143)	324 (147)	324 (147)
Shipping Weight lb (kg)	351 (159)	351 (159)	362 (164)	362 (164)
Compressor Type		Variable S	peed Scroll	
REFRIGERANT		Puron®	(R-410A)	
Control		TXV (Puron®	Hard Shutoff)	
Charge lb (kg)	12.7 (5.76)	12.7 (5.76)	14.0 (6.35)	14.0 (6.35)
COND FAN		Forward Swept Prop	eller Type, Direct Drive	
Air Discharge		Ver	rtical	
Air Qty (CFM)	2700	4269	4350	5000
Motor HP	1/3	1/3	1/3	1/3
Motor RPM	500-900	500-900	500-900	500-900
COND COIL				
Face Area (Sq ft)	30.25	30.25	30.25	30.25
Fins per In.	20	20	20	20
Rows	2	2	2	2
Circuits	8	8	8	8
VALVE CONNECT. (In. ID)				
Vapor	7/8	7/8	7/8	7/8
Liquid			3/8	
REFRIGERANT TUBES (In. OD)				
Rated Vapor*	7/8	7/8	1-1/8	1-1/8
Max Liquid Line		3	3/8	

<sup>\*</sup> 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.

### **ACCESSORIES**

KIT NUMBER	KIT NAME	24-30	36-30	48-30	60-30
KHAEM0101EMI	ELECTRO – MAGNETIC INTERFERENCE (EMI) KIT	х	х	×	Х
KHASS0606MPK*	SNOW STAND	X	X	X	X
KSASF0201AAA	SUPPORT FEET	X	X	X	X
KSATX0301PUR	TXV	X	X		ng i na
KSATX0401PUR	TXV		1 4	X	X
STANDARD	INTERNAL CRANKCASE HEATER	S	S	S	S

x = Accessory S = Standard \* Available from RCD

### **CONTROLS**

SYSTXCCITC01-A & B	Infinity Touch Control (Wi-Fi)
SYSTXCC4ZC01	Infinity 4-Zone Damper Control Module (Wall-mounted control for a four-zone system.)
SYSTXCCSMS01	Infinity Smart Sensor (Optional wall control used to monitor tamperature and/or fan control in an individual zone.)
SYSTXCCRRS01	Infinity Remote Room Sensor (Monitors temperature in an individual zone.)
SYSTXCCNIM01	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.)



### ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55°F/12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 ft/24.38 m)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22 km)	Installations with Radio Frequency Interference Concerns in the Range
Crankcase Heater	Standard	Standard	Standard	N/A
Electro – Magnetic Interference (EMI) Kit	No	No	No	Yes
Evaporator Freeze Protection	Standard with Infinity Control	No	No	N/A
Low-Ambient Control	Standard with Infinity Control	No	No	N/A
Puron Refrigerant Balance Port Hard – ShutOff TXV	Yes†	Yes†	Yes†	N/A
Winter Start Control	Standard with Infinity Control	No	No	N/A

For tubing set lengths between 80 and 200 ft. (24.38 and 60.96 m) horizontal or 20 ft. (6.10 m) vertical differential (total equivalent length), refer to the Long Line Guideline—Air Conditioners and Heat Pumps using Puron® Refrigerant.

† Required on all indoor units. Standard on all new Greenspeed® compatible fan coils and furnace colls.

### Accessory Description and Usage (Listed Alphabetically)

### 1. Compressor Start Assist

The inverter drive gently starts the variable speed compressor at all times. No other start device is compatible with this unit.

#### 2. Crankcase Heater

Compressor motor winding resistance heater which is internal to compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage:

Used in low ambient cooling applications.

Used in long line applications.

### 3. Electro-Magnetic Interference (EMI) Kit

Usage Guideline:

May be required to address radio frequency interference for equipment, such as HAM radios, operating between 6 and 30 mHz.

### 4. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

#### 5. Thermostatic Expansion Valve (TXV) Bi-Flow

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Accessory required to meet AHRI rating and system reliability, where indoor not equipped.

Required in all Air conditioner applications designed with Puron refrigerant.

### 6. Winter Start Control

This control is designed to alleviate nuisance opening of the low-pressure switch by bypassing it for the first 3 minutes of operation.

### ELECTRICAL DATA

UNIT SIZE –	SIZE – VOLTAGE, SERIES	OPER \	/OLTS*	COI	MPR	FAN	MCA	MAX FUSE*
		MAX	MIN	LRA	RLA	FLA		CKT BRK AMPS
24-30				24	15.1	3.2	22.1	30
36-30		0.50	10-	24	15.1	3.2	22.1	30
48-30	208-230-1	253	197	42	25.4	3.2	35	50
60-30				42	25.4	3,2	35	50

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

If wire is applied at ambient greater than 30°C, consult table 310~16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), Insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.
 \*\* Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps RLA - Rated Load Amps

NOTE: Control circuit is 24-V 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

### SOUND POWER LEVEL (dBA)

Unit Size - Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Coolin
	Freq (Hz)	1800 RPM	3200 RPM
	125	60	61
	250	58	60
	500	56	58
024-30	1000	52	58
	2000	48	51
	4000	44	47
	8000	51	55
	Sound Rating (dBA)	58	62
	Freq (Hz)	1800 RPM	4500 RPM
	125	60	63
	250	58	62
	500	56	65
036-30	1000	52	61
	2000	48	59
	4000	44	56
	8000	51	55
	Sound Rating (dBA)	58	67
	Freq (Hz)	1800 RPM	3450 RPM
	125	64	68
	250	59	67
	500	57	65
048-30	1000	57	63
	2000	52	59
	4000	51	52
	8000	55	58
	Sound Rating (dBA)	62	68
	Freq (Hz)	1800 RPM	4250 RPM
	125	64	70
	250	59	71
	500	57	68
060-30	1000	57	67
	2000	52	62
	4000	51	57
	8000	55	57
	Sound Rating (dBA)	62	71

NOTE: Tested in compliance with AHRI 270-2008 but not listed with AHRI.

### CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE-VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C) - See Wall Control
24-30	
36-30	Subcooling recommendation displayed on wall control after the required stabilization
48-30	period in Charging Mode must be followed
60-30	

<sup>\* 024 &</sup>amp; 036 tested at 44°F Outdoor Air Temperature, 048 & 060 tested at 40°F

<sup>\*\*</sup>Testable RPM limited by outdoor temp. Max unit RPM is 6500 for the 4 ton and 7000 for the 3 and 5 ton,

### **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

Additional ratings and system combinations can be accessed via the Carrier database at: <a href="http://cactaxcredits.info/carrier-ratings/ac ratings-srch.php">http://cactaxcredits.info/carrier-ratings/ac ratings-srch.php</a>

Equipment performance calculator can be accessed at: http://rpmob.wrightsoft.com/

MadalNoobaa	Coil Model Number	Furnace Model	Clg.	Clg.	FFD	CEED	ID (	CFM
Model Number	Coll Model Number	Number	Cap. High	Cap. Low	EER	SEER	High	Low
24VNA024A**30	CAP**3617AL	58CV(A,X)070-12	24,000	16,100	14.5	18.0	900	650
24VNA036A**30	CAP**3617AL	58CV(A,X)070-12	33,000	16,100	12.5	18.0	1200	875
24VNA048A**30	CAP**6124AL	58CV(A,X)110-20	47,500	30,400	13.0	18.0	1500	1100
24VNA060A**30	CAP**6124AL	58CV(A,X)110-20	55,500	30,400	13.0	18.0	1500	1100

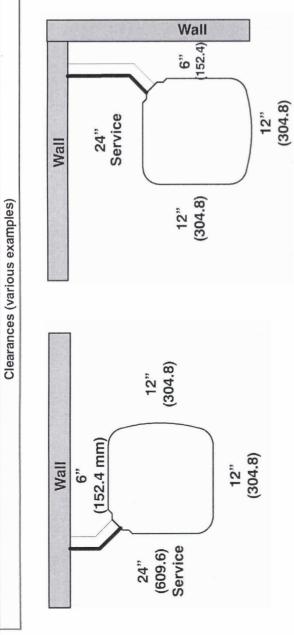
<sup>\*</sup> Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on: Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit. EER — Energy Efficiency Ratio

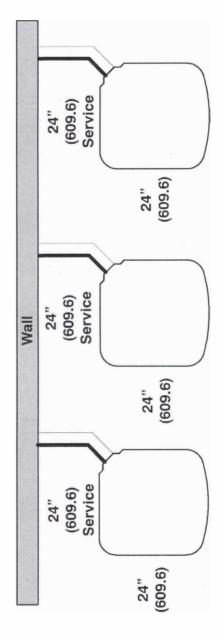
SEER — Seasonal Energy Efficiency Ratio

UI — User Interface

### **DIMENSIONS**

UNIT	SERIE	S CHA	LECTRIC	AL ISTICS		A	В		C		D		E		F	0	G			н		I		J		к		PERATIN		HIPPING EIGHT	SHIPPING LENGTH / WIDTH (Sq.)	SHIPPING HEIGHT
24VNA024A00300 24VNA036A00300 24VNA048A00300 24VNA060A00300	040 0 040 0	Y	N N N N N N N N N N N N N N N N N N N	N	35 35 35	MM 889.0 889.0 889.0 889.0		112.6 112.6 112.6	7/8 7/8 7/8 7/8 7/8 7/8	MM 22.2 6 22.2 6 22.2 6 22.2 6	9/16 9/16 9/16	166.1 2 166.1 2 166.1 2		722.8	9 1/8 9 1/8 9 1/8 9 1/8 9 1/8	MM 231.3 231.3 231.3 231.3	5/16 5/16 5/16 5/16 5/16	MM 7.9 7.9 7.9 7.9	3 3 3 3 3	76.2 76.2 76.2	INCH 16 1/4 16 1/4 16 1/4 16 1/4	41	IM INC 2.8 16 1. 2.8 16 1. 2.8 16 1. 2.8 16 1.	4 412.8 4 412.8 4 412.8	8 21 8 21 8 21	1/4 539 1/4 539	.8 31 .8 31 .8 32	5 142 5 142 3 146	2.9 351 2.9 351 3.5 361 3.5 361	159.2 159.2 163.7	INCH MM 37 1/8 943.1 37 1/8 943.1 37 1/8 943.1	INCH MM 50 3/16 1274.9 50 3/16 1274.9 50 3/16 1274.9 50 3/16 1274.9
		208-230-1-60	208/230-3-60	575-3-60	Y=YES N=NO																			ES:	R OF	GRAV	πγ <del>《</del>					
1							\		SO.	/		•								F	-	-	AIR	IN /	A D	LR ISCHARGE						
B	ELD POW 7/8"(Ø 1 1/8"(Ø ELD CON	22.2) 528.61	KNOC	W[TH KOUT					9								AIR	1 N	-			•					-		AIR IN			
•	L 10		8-(Ø9 INE CO	. 5)— NN. 2+ 91					so —				1 13/16 (46.7)	K		<u>†</u> Н	1/2**	G				0						•	L			
UNIT SI	ZE	MINE PAD A	NUM GR	"X" OUND M TION DIP	OUNTING MENSION	MININ S PAD	"Y" MUM ROOF-TOF APPLICATION E	MOUN	nng .									3/16* — (1.0)	-				LAI	R III	(2) P	r(Ø9.5) Laces	11500	N KHOC	KOÑ 1.2			
24,36,48	,60	25	1/8 3/4 3/16	- (	587.3 554.0 792.5 389.0	20	7/8 7/16 15/16 3/4	454.0 518.0 583.2 679.	2			NC	TE: A	ALL [	DIMEI	NSIO	NS IN	INC	H (M	IM)			U.S. E	CCN:	Not :	Subjec	t to Re	egulati	on (N.	S.R.)	SC	95466-4 REV. A





Note: Numbers in () = mm

IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

					24			58CV(A,X)0 Entering Air		fort + Dehumic e °F (°C)	dify Mode						
	EVAP. AIR		125 (	51.7)			115 (	46.1)			105 (	40.5)			95 (	35)	
°F (°C)	EWB	ID SCFM	Capacity	y MBtuh†	Total	ID SCFM	Capacit	y MBtuh†	Total	ID SCFM	Capacit	y MBtuh†	Total	ID COEM	Capacit	y MBtuh†	Total
1 (0)	°F (°C)	ID SCFM	Total	Sens‡	Sys. KW**	ID SCFWI	Total	Sens‡	Sys. KW**	ID SCFW	Total	Sens‡	Sys. KW**	ID SCFM	Total	Sens‡	Sys. KW**
ALLEY FOR	STATE OF THE	PERSON	No.	STANK A		大约世	17 1 4 VI	MAXIMUM	DEMAND		W. C. C. W.	人 医				W-345-2	11 Heav
	72 (22.2)		22.52	9.09	2.89		23.63	9.52	2.41		24.37	9.80	1.96		25.00	10.15	1.61
75 (23.9)	67 (19.4)	520	20.21	11.61	2.95	510	21.22	12.04	2.46	500	21.92	12.28	2.01	490	22.57	12.52	1.66
75 (23.9)	63 (17.2)	520	18.48	13.64	2.99	510	19.54	14.04	2.51	500	20.15	14.22	2.05	490	20.78	14.43	1.69
	57 (13.9)		16.80	15.94	3.03		17.33	16.93	2.56		17.95	17.13	2.11		19.68	13.39	1.70
	72 (22.2)		22.47	11.94	2.89		23.57	12.14	2.41		24.33	12.37	1.96		25.03	12.60	1.61
80 (26.7)	67 (19.4)	520	20.15	14.27	2.95	510	21.17	14.57	2.58	500	21.88	14.81	2.01	490	22.53	15.00	1.66
80 (26.7)	63 (17.2)	520	18.48 16.23 17.58 17.58	2.98	510	19.48	16.57	2.51	500	20.15	16.74	2.05	490	20.78	16.90	1.69	
	57 (13.9)	1	17.58	17.58	3.01	Tuesday Tree 2.	18.27	18.27	2.54	6.0	18.72	18.72	2.09	1200	19.12	19.12	1.73
AF NIAS		12/18/20	THE PARTY	de trans	THE W	THE WARE	TEN	MEDIAN D	EMAND		( Section			STATE OF THE STATE		景斯 區 计	
	72 (22.2)		21.82	8.81	2.90	N. F.	22.04	8.88	2.32		20.74	8.35	1.72		19.55	7.87	1.25
75 (23.9)	67 (19.4)	510	19.62	11.30	2.96	480	19.78	11.21	2.38	420	18.64	10.39	1.77	395	17.59	9.80	1.29
75 (23.9)	63 (17.2)	310	17.91	13.20	3.00	400	18.15	13.02	2.42	420	17.12	12.00	1.81	395	16.11	11.40	1.33
	57 (13.9)		16.00	16.00	3.05		16.09	15.73	2.47		15.21	14.40	1.86		14.39	13.59	1.38
	72 (22.2)		21.78	11.39	2.90		21.99	11.30	2.32		20.70	10.47	1.71		19.51	9.87	1.25
80 (26.7)	67 (19.4)	510	19.51	13.81	2.96	480	19.74	13.61	2.38	420	18.62	12.50	1.77	395	17.55	11.78	1.29
80 (20.7)	63 (17.2)	310	20.71	10.41	2.92	480	18.11	13.80	2.33	420	17.11	14.09	1.81	395	16.17	13.29	1.33
-	57 (13.9)		17.07	17.07	3.03		16.97	16.97	2.45		15.80	15.80	1.84		14.93	14.93	1.36
								MINIMUM D	EMAND			Prox Su			SEVEN P	罗北河	(T-1)-31-7
	72 (22.2)		21.35	8.62	3.17		20.59	8.30	2.44		17.52	7.06	1.61		14.19	5.72	0.99
75 (23.9)	67 (19.4)	505	19.11	11.08	3.23	445	18.48	10.43	2.49	360	15.74	8.79	1.66	300	12.74	7.17	1.03
75 (25.5)	63 (17.2)	303	17.52	12.93	3.28	443	16.95	12.12	2.55	360	14.44	10.15	1.70	300	11.70	8.30	1.06
	57 (13.9)		15.64 15.64 3.33		15.05	14.61	2.60		12.81	12.19	1.75		10.38	10.01	1.11		
	72 (22.2)		21.32	11.15	3,17		20.56	10.52	2.44		17,52	8.81	1.61		14.16	7.22	0.99
80 (26.7)	67 (19.4)	505	19.09	13.53	3.23	445	18.45	12.65	2.50	360	15.70	10.58	1.66	300	12,71	8.66	1.03
00 (20.7)	63 (17.2)	505	17.54	15.41	3.28	445	16.95	14.30	2.55	300	14.44	11.93	1.70	300	11.69	9.79	1.06
	57 (13.9)		16.70		3.31		15.79	15.79	2.58		13.34	13,34	1.73		10.87	10.87	1.09

				24VNA02		+58CV(A,X)070- or Entering Air Te			ode				
EDD	EVAP. AIR		85 (2	29.4)			75 (2	23.9)			65 (	18.3)	
EDB °F (°C)	EWB	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.
. ( )	°F (°C)	ID SCFM	Total	Sens‡	KW**	ID SCIM	Total	Sens‡	KW**	ID SCI W	Total	Sens‡	KW**
THE STATE OF						MAXIMUM DE	MAND						
	72 (22.2)		26.37	10.61	1.33		27.63	11.10	1.10		28.76	11.57	0.87
75 (23.9)	67 (19.4)	510	23.77	13.21	1.38	530	24.95	13.76	1.15	540	25.96	14.35	0.92
75 (23.9)	63 (17.2)	310	21.97	15.17	1.42	330	23.04	15.85	1.18	340	24.04	16.45	0.96
	57 (13.9)		19.60	18.16	1.48		20.60	18.98	1.24		21.50	19.61	1.01
	72 (22.2)		26.34	13.23	1.33		27.60	13.83	1.09		28.72	14.36	0.87
80 (26.7)	67 (19.4)	510	23.76	15.74	1.38	530	24.92	16.44	1.14	540	25.96	17.01	0.92
80 (26.7)	63 (17.2)	510	21.96	17.74	1.42	530	23.04	18.53	1.18	340	24.03	19.15	0.96
	57 (13.9)		20.16	20.16	1.46		21.14	21.14	1.22		21.96	21.96	1.00
	BEST WARREN					MEDIAN DEN	MAND						
	72 (22.2)		20.66	8.32	1.02		21.73	8.75	0.83		22.70	9.14	0.65
75 (23.9)	67 (19.4)	415	18.61	10.36	1.07	435	19.60	10.89	0.87	450	20.49	11.36	0.70
75 (23.9)	63 (17.2)	415	17.14	11.96	1.11	435	18.06	12.57	0.91	430	18.91	13.11	0.73
	57 (13.9)		15.29	14.36	1.16		16.14	15.11	0.96		16.92	15.74	0.78
	72 (22.2)		20.65	10.37	1.02		21.69	10.94	0.83		22.66	11.41	0.65
BO (00 7)	67 (19.4)	415	18.58	12.43	1.07	435	19.56	13.06	0.87	450	20.45	13.61	0.70
80 (26.7)	63 (17.2)	415	17.13	14.02	1.11	435	18.06	14.74	0.91	450	18.91	15.35	0.73
	57 (13.9)		15.81	15.81	1.14		16.67	16.67	0.94		17.42	17.42	0.77
	<b>建一种。</b>	2	Contraction of the			MINIMUM DE	MAND	GAN-YSON					
	72 (22.2)		15.08	6.08	0.81	the district	15.94	6.42	0.65		16.71	6.74	0.50
75 (23.9)	67 (19.4)	320	13.57	7.63	0.85	340	14.36	8.08	0.69	355	15.07	8.47	0.55
75 (23.5)	63 (17.2)	320	12.47	8.86	0.88	340	13.21	9.39	0.72	333	13.88	9.84	0.58
	57 (13.9)		11.10		11.79	11.35	0.76		13.10	10.65	0.60		
	72 (22.2)		15.05	7.68	0.81		15.90	8.12	0.65		16.68	8.51	0.50
20 (22 7)	67 (19.4)	1000	13.54	9.22	0.85	0.00	14.32	9.77	0.69	255	15.04	10.23	0.55
80 (26.7)	63 (17.2)	320	12.46	10.44	0.88	340	13.21	11.08	0.72	355	13.88	11.60	0.58
	57 (13.9)		11.61	11.61	0.91		12.32	12.32	0.75		12.94	12.94	0.60

					24	4VNA036/CAP		58CV(A,X)07 Entering Air			dify Mode						
	EVAP. AIR		1	25			1	15			1	05			9	5	
°F (°C)	EWB	ID SCFM	Capacit	y MBtuh†	Total	ID SCFM	Capacit	y MBtuh†	Total	ID SCFM	Capacit	y MBtuh†	Total	ID SCFM	Capacit	y MBtuh†	Total
1 (0)	°F (°C)	ID SCFW	Total	Sens‡	Sys. KW**	ID SCFW	Total	Sens‡	Sys. KW**	ID SCFWI	Total	Sens‡	Sys. KW**	ID SCFIVI	Total	Sens‡	Sys. KW**
No. of Street, or other party of the	THE PARTY OF THE P	S M M C IV	BIN SH		Carlow.	Section 1	6/5-1/	MAXIMUM	DEMAND	No. of the Control			A A CONTRACT	SE LEVEL SE SE			
	72 (22.2)		29.28	11.77	3.82		31.29	12.55	3.29		33.23	13.32	2.82		34.98	14.00	2.43
75 (00.0)	67 (19.4)		26.25	15.09	3.88	705	28.00	15.91	3.35	700	29.90	16.88	2.87	750	31.53	17.67	2.48
75 (23.9)	63 (17.2)	685	24.06	17.67	3.92	705	25.82	18.66	3.40	730	27.52	19.66	2.91	750	29.22	20.67	2.51
	57 (13.9)		21.49	21.49	3.97		23.06	22.60	3.45		24.64	23.84	2.97		26.06	24.89	2.57
	72 (22.2)		29.24	15.24	3.82	3.88 3.92 705 2	31.25	16.10	3.29		33.18	17.00	2.82		34.95	17.79	2.43
00 (00 7)	67 (19.4)	605	26.20	18.49	3.88	705	28.07	19.49	3.36	700	29.86	20.47	2.87	750	31.48	21.38	2.48
80 (26.7)	63 (17.2)	685	24.11	21.07	3.92	705	25.86	22.17	3.39	730	27.54	23.28	2.91	750	29.09	24.26	2.51
	57 (13.9)	1	22.90	22.90	3.96		24.36	24.36	3.42		25.88	25.88	2.94		27.21	27.21	2.55
THE STATE OF	THE WAY	Contract of	LANCE OF E	ALL MALES	STORY AND	1. 2. 2. 2. 2. 16.	CHEAT S	MEDIAN D	EMAND		Library.	ALC: N			SOUND BY		
	72 (22.2)		25.69	10.35	3.37		26.45	10.63	2.77		25.79	10.36	2.12	1000	24.68	9.92	1.62
75 (00.0)	67 (19.4)	595	23.07	13.28	3.44	580	23.76	13.49	2.82	535	23.20	13.01	2.18	480	22.22	12.31	1.67
75 (23.9)	63 (17.2)	595	21.13	15.57	3.48	560	21.82	15.72	2.87	535	21.33	15.09	2.22	460	20.46	14.18	1.71
	57 (13.9)		18.88	18.88	3.53		19.46	19.06	2.93		19.02	18.21	2.28		18.23	16.99	1.76
	72 (22.2)		25.68	13.40	3.37		26.40	13.60	2.76		25.75	13.11	2.12		24.64	12.38	1.62
80 (06.7)	67 (19.4)	595	22.99	16.28	3.49	580	23.72	16.41	2.82	535	23.16	15.72	2.18	480	22.14	14.82	1.67
80 (26.7)	63 (17.2)	595	21.16	18.55	3.48	560	23.96	11.06	2.78	535	21.33	17.79	2.22	460	20.47	16.59	1.71
	57 (13.9)		20.07	20.07	3.50		20.50	20.50	2.90		19.87	19.87	2.26		18.81	18.81	1.75
200	P. B. Call	STATE OF THE STATE OF		A para hali	FAREASES	Wind Stark		MINIMUM D	DEMAND				AND ST				
	72 (22.2)		21.35	8.62	3.17		20.59	8.30	2.44		17.52	7.06	1.61		14.19	5.72	0.99
75 (23.9)	67 (19.4)	FOE	19.11	11.08	3.23	445	18.48	10.43	2.49	360	15.74	8.79	1.66	300	12.74	7.17	1.03
75 (23.9)	63 (17.2)	505	505	12.93	3.28	445	16.95	12.12	2.55	360	14.44	10.15	1.70	300	11.70	8.30	1.06
	57 (13.9)		15.64	15.64	3.33		15.05	14.61	2.60		12.81	12.19	1.75		10.38	10.01	1.11
	72 (22.2)	21.32 11.15 3.17		20.56	10.52	2.44		17.52	8.81	1.61		14.16	7.22	0.99			
00 (00 T)	67 (19.4)	505	19.09	13.53	3.23		18.45	12.65	2.50		15.70	10.58	1.66	-	12.71	8.66	1.03
80 (26.7)	63 (17.2)	505	17.54	15.41	3.28	445	16.95	14.30	2.55	360	14.44	11.93	1.70	300	11.69	9.79	1.06
	57 (13.9)		16.70		15.79	15.79	2.58		13.34	13.34	1.73		10.87	10.87	1.09		

			24VNA0	036/CAP**3617		70-12 Expanded or Entering Air Te			Dehumidify Mod	е			
EDB	EVAP. AIR			29.4)			75 (	23.9)				18.3)	
°F (°C)	EWB	ID SCFM		ty MBtuh†	Total Sys.	ID SCFM		ty MBtuh†	Total Sys.	ID SCFM		ty MBtuh†	Total Sys.
, ( 0,	°F (°C)	ID OCT IN	Total	Sens‡	KW**		Total	Sens‡	KW**	1D 001 III	Total	Sens‡	KW**
						MAXIMUM DE	MAND						
1111	72 (22.2)		36.98	14.78	2.07		38.83	15.51	1.76		40.44	16.13	1.49
75 (23.9)	67 (19.4)	805	33.36	18.72	2.12	855	35.09	19.71	1.81	885	36.58	20.48	1.53
13 (23.3)	63 (17.2)	003	30.81	21.81	2.16	000	32.41	22.96	1.85	000	33.79	23.86	1.57
	57 (13.9)		27.66	26.44	2.21		30.91	22.57	1.86		30.47	28.95	1.62
	72 (22.2)		36.93	18.81	2.07		38.80	19.79	1.76		40.39	20.52	1.49
00 (00 7)	67 (19.4)	805	33.31	22.67	2.12	855	35.02	23.85	1.81	885	36.52	24.77	1.53
80 (26.7)	63 (17.2)	805	30.84	25.78	2.16	855	32.45	27.16	1.85	865	33.89	28.25	1.57
	57 (13.9)		28.91	28.91	2.19		30.48	30.48	1.88		31.83	31.83	1.60
	College Allenda			APPLE TO	THE PARTY SAY	MEDIAN DEN	AND	VENTER		<b>多州北京</b> 市區		<b>经验证证</b>	Salar see
	72 (22.2) 67 (19.4)		26.01	10.45	1.35		27.27	10.96	1.10		28.43	11.42	0.88
TT (00.0)	67 (19.4)	500	23.44	12.95	1.40		24.61	13.57	1.15	535	25.67	14.11	0.93
75 (23.9)	63 (17.2)	500	21.62	14.92	1.43	520	22.72	15.62	1.19	535	23.73	16.23	0.97
	57 (13.9)		19.30	17.86	1.49		20.31	18.69	1.24		21.23	19.40	1.02
	72 (22.2)		25.96	13.02	1.34		27.23	13.63	1.10		28.38	14.17	0.88
00 (00 T)	67 (19.4)		23.41	15.48	1.40		24.57	16.20	1.15		25.64	16.82	0.93
80 (26.7)	63 (17.2)	500	21.62	17.45	1.43	520	22.72	18.25	1.19	535	23.72	18.94	0.97
	57 (13.9)		19.84	19.84	1.48	1 2000	20.83	20.83	1.23		21.70	21.70	1.01
	· 通過1975/2015	N. P. S.		STATE OF THE PARTY		MINIMUM DE	MAND						
MALE AND ASSESSMENT	72 (22.2)	1 1 1 1 1 1 1 1 1	15.08	6.08	0.81		15.94	6.42	0.65		16.71	6.74	0.50
75 (00.0)	67 (19.4)	200	13.57	7.63	0.85	240	14.36	8.08	0.69	255	15.07	8.47	0.55
75 (23.9)	63 (17.2)	320	12.47	8.86	0.88	340	13.21	9.39	0.72	355	13.88	9.84	0.58
	57 (13.9)		11.10	10.69	0.93		11.79	11.35	0.76		13.10	10.65	0.60
	72 (22.2)		15.05	7.68	0.81		15.90	8.12	0.65		16.68	8.51	0.50
	67 (19.4)	1	13.54	9.22	0.85		14.32	9.77	0.69		15.04	10.23	0.55
80 (26.7)	63 (17.2)	320	12.46	10.44	0.88	340	13.21	11.08	0.72	355	13.88	11.60	0.58
	57 (13.9)		11.61	11.61	0.91	1	12.32	12.32	0.75	1.00	12.94	12.94	0.60

				24	THOTO, OHE						or midi De	and muny m	, and				
EDB	EVAP. AIR		13	25			1	15	-		-	105				95	
EDD	EWB	ID SCFM			Total Sys.	ID SCFM			Total Sys.	ID SCEM		y MBtuh†	Total Sys.	ID SCFM		y MBtuh†	Total Sy
265	°F (°C)		Total	Sens‡	KW**		Total		KW**		Total	Sens‡	KW**		Total	Sens‡	KW**
	Part										47.70	19.05	3.69		50.57	20.18	3.30
		-				-			4.15	-	47.72 43.17	23.74	3.69	-	45.76	25.03	3.28
75 (23.9)	, ,	790				840			4.14	900	39.83	27.42	3.68	950	42.31	28.94	3.28
	. ,	-				4			4.14	-	35.47	32.87	3.67		39.45	28.94	3.27
						-			4.13		47.62			-		25.44	
		-				-				-	23,253	23.78	3.69	-	50.28		3.30
80 (26.7)		790	Barrier .	G15-25 Tree		840			4.14	900	43.02 39.73	28.48	3.68	950	45.66	30.08	2022
	and the second		2000000		54 4.64	his tal	100000000	12 75 15 15	4.14	-		32.08	leries.		42.18	33.98	3.27
	57 (13.9)		31.54	31.54	4.64		33.86	-707087070	4.13	No. of the last	36.31	36.30	3.67	Action with Co.	38.49	38.49	3.27
	70 (00 8)	CHAT LIGHT TO L	40.00	10.05	4.40	Contraction of	40.00	Witness Street	the same of the sa		10.00	10.00	2.00	\$430X00000000	20.44	STATE OF THE PARTY	0.40
		-	100000	0/E-6/E-2	1 (120 -	Sec. 15.	70-30-5		3.80		40.83	16.32	3.03	1 1 1 1	39.44	15.77	2.40
75 (23.9)		775	77,777	A-100 A-101	150150-0	795	II. T. C.		3.80	780	36.91	20.38	3.03	755	35.55	19.86	2.39
			100000000		18.00 A.00 A.1	-	The second second	1-0.000	3.80	-	34.02	23.59	3.03		32.87	22.82	2.39
	57 (13.9)		30.18	28.23	4.45		32.88	24.36	3.79		30.33	28.34	3.03		29.29	27.45	2.39
	72 (22.2)		40.83	20.45	4.46	-	42.13	21.08	3.80	_	40.72	20.43	3.03		39.33	19.71	2.39
80 (26.7)	67 (19.4)	775	36.88	24.45	4.46	795	38.05	25.18	3.80	780	36.80	24.49	3.03	755	35.56	23.67	2.39
	63 (17.2)		33.98	27.61	4.46		36.96	18.84	3.78		33.96	27.68	3.03		32.84	26.70	2.39
List of a	57 (13.9)		31.07	31.07	4.47	Advantage of the	32.05	32.05	3.80		31.12	31.12	3.03		30.09	30.09	2.39
	70 (00 0)		40.07	10.00	1.00		10.00		DEMAND	Name of the last							
	72 (22.2)	-	40.67	16.26	4.60	4	40.09	16.03	3.72	-	33.63	13.46	2.54		27.58	11.05	1.68
75 (23.9)	67 (19.4)	760	36.68	20.26	4.60	750	36.20	19.99	3.72	635	30.38	16.82	2.54	535	24.93	13.88	1.68
	63 (17.2)	4	33.92 23.29	4.61	-	33.35	23.10	3.72	4	28.00	19.46	2.55		22.95	16.14	1.69	
	57 (13.9)		29.98	28.07	4.60		29.64	27.73	3.73		24.86	23.37	2.55		20.39	19.42	1.69
	72 (22.2)		40.46	20.29	4.60	-	39.99	20.05	3.72		33.53	16.86	2.54		27.49	13.91	1.68
80 (26.7)	67 (19.4)	760	36.65	24.33	4.60	750	36.12	23.99	3.72	635	30.32	20.21	2.54	535	24.84	16.72	1.68
,/	63 (17.2)		33.75	27.45	4.60	and the same	33.28	27.08	3.72		27.93	22.83	2.55		22.88	19.00	1.69
	57 (13.9)		30.84	30.84	4.60		30.44	30.44	3.73	1 100	25.61	25.61	2.55	E 10	21.11	21.11	1.69

			24VNA04	18/CAP**6124A		0-22 Expanded or Entering Air Te			Dehumidify Mo	de			
EDB	EVAP AIR		85 (2	29.4)			75 (2	23.9)			65 (1	18.3)	
°F (°C)	EWB	ID SCFM		ty MBtuh†	Total Sys.	ID SCFM		ty MBtuh†	Total Sys.	ID SCFM		y MBtuh†	Total Sys.
. ( 0/	°F (°C)	I ID SCI W	Total	Sens‡	KW**		Total	Sens‡	KW**	15 001 111	Total	Sens‡	KW**
						MAXIMUM DE	MAND						
	72 (22.2)		52.97	21.14	2.94		54.98	21.95	2.60		56.94	22.76	2.32
75 (23.9)	67 (19.4)	970	47.91	26.21	2.92	985	49.81	27.13	2.57	995	51.58	27.97	2.29
13 (23.3)	63 (17.2)	370	44.18	30.49	2.91	303	46.09	31.23	2.56	333	47.81	32.10	2.27
	57 (13.9)		39.51	36.09	2.90		41.16	37.22	2.54		42.71	38.21	2.25
	72 (22.2)		52.83	26.22	2.93		54.87	27.13	2.60		56.84	27.99	2.33
80 (26.7)	67 (19.4)	970	47.80	31.25	2.92	985	49.90	32.05	2.58	995	51.50	33.17	2.29
80 (26.7)	63 (17.2)	970	44.21	35.22	2.91	985	46.02	36.32	2.56	995	47.65	37.40	2.27
	57 (13.9)		40.15	40.15	2.90		41.63	41.63	2.54		43.11	42.93	2.53
是如此的	经被 "为 " " " " " " " " " " " " " " " " " "	<b>表现是是</b>	Rest days	<b>加州市</b>	specific de la Marie	MEDIAN DE	MAND	antiques 451	MARKET BOOK		136 4 136	71.50	NTO NEW YORK
	72 (22.2)	No. of the Control of	41.57	16.61	2.12		43.06	17.22	1.86		44.72	17.89	1.63
75 (60.6)	67 (19.4)	700	37.56	20.74	2.11	700	38.99	21.38	1.84	805	40.52	22.14	1.61
75 (23.9)	63 (17.2)	790	34.67	24.00	2.10	790	35.94	24.82	1.84	805	37.47	25.48	1.61
	57 (13.9)		30.91	28.84	2.11		33.70	23.32	1.83		33.45	30.43	1.60
	72 (22.2)		41.45	20.78	2.11		42.98	21.40	1.85		44.69	22.17	1.63
20 (25 7)	67 (19.4)	700	37.45	24.95	2.11	700	38.95	25.56	1.84	205	40.45	26.36	1.61
80 (26.7)	63 (17.2)	790	34.56	28.20	2.10	790	35.90	28.87	1.84	805	37.45	29.63	1.60
	57 (13.9)	間のあれる	31.71	31.70	2.10	Carlotte Charles	32.71	32.71	1.84	Marie Land	33.89	33.89	1.60
<b>经</b> 对作为法律的		C. Street Street	<b>经</b> 型的 1000000000000000000000000000000000000		<b>经</b> 基本的 经证	MINIMUM DE	MAND		<b>机造成的不足。</b>	<b>和图象的</b> 更多	and a last		
	72 (22.2)	CONTRACTOR OF THE PARTY OF THE	29.04	11.63	1.47		30.47	12.20	1.28		31.85	12.75	1.10
75 (00.0)	67 (19.4)		26.24	14.57	1.47		27.57	15.28	1.27	500	28.81	15.94	1.10
75 (23.9)	63 (17.2)	555	24.20	16.87	1.47	580	25.42	17.72	1.27	600	26.56	18.46	1.10
	57 (13.9)	1	21.54	20.34	1.47		22.67	21.33	1.28	1	23.71	22.20	1.10
	72 (22.2)		28.95	14.60	1.47		30.43	15.32	1.27		31.76	15.96	1.10
	67 (19.4)		26.17	17.51	1.47		27.57	18.23	1.27	1	28.80	19.05	1.10
80 (26.7)	63 (17.2)	555	24.14	19.83	1.47	580	25.37	20.78	1.27	600	26.52	21.63	1.10
	57 (13.9)	13000	22.21	22.21	1.47	and the training	23,33	23.33	1.28	La laure	24.35	24.35	1.10

				24	IVNA060/CAP				nded Ratings Air Temperatur		nfort + Deh	numidify Mo	de				
- FDD	EVAP. AIR		1:	25			1	115				105	P y			95	
°F (°C)	EWB	ID SCFM	Capacity	MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	ty MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.
1 ( 0)	°F (°C)	ID SCFW	Total	Sens‡	KW**	ID SCFWI	Total	Sens‡	KW**	ID SCFWI	Total	Sens‡	KW**	ID SCFINI	Total	Sens‡	KW**
3.14117		4-5-5-50		144.00		DA PARTY	10 P 4 P 1	MAXIMUN	DEMAND		0.45 185		CALL AND	MENSON LINE			
	72 (22.2)		48.54	19.36	5.48		52.28	20.84	4.94		55.87	22.22	4.47		59.24	23.55	4.04
75 (23.9)	67 (19.4)	945	43.80	24.19	5.46	1020	47.35	25.95	4.92	1095	50.51	27.88	4.44	1165	53.63	29.60	4.00
15 (25.5)	63 (17.2)	343	40.39	28.00	5.44	1020	43.64	30.26	4.90	1093	46.65	32.32	4.42	1105	49.56	34.33	3.98
	57 (13.9)		35.89	33.64	5.42		38.88	36.36	4.88		41.61	38.90	4.40		44.26	41.36	3.96
	72 (22.2)		48.47	24.29	5.48	-	52.18	26.15	4.94		55.72	27.91	4.47		59.13	29.62	4.03
80 (26.7)	67 (19.4)	945	43.70	29.07	5.46	1020	47.17	31.39	4.92	1095	50.41	33.54	4.44	1165	53.50	35.60	4.00
60 (20.1)	63 (17.2)	943	40.33	32.88	5.44	1020	43.58	35.48	4.90	1095	46.59	37.94	4.42	1105	49.49	40.31	3.98
	57 (13.9)		36.93	36.93	5.43	The sales	39.95	39.95	4.88	Line Labor	42.81	42.81	4.41		45.52	45.52	3.97
1000			T 1 3 5	No. of			Cap State	MEDIAN	DEMAND	<b>*</b>	300						ACC CLASS
	72 (22.2)		44.71	17.86	4.88		46.24	18.46	4.21	1.65	45.39	18.13	3.41		44.05	17.60	2.74
75 (23.9)	67 (19.4)	850	40.36	22.34	4.87	870	41.80	23.05	4.20	850	41.04	22.58	3.40	835	39.83	21.97	2.73
15 (23.5)	63 (17.2)	650	37.29	25.70	4.87	870	38.52	26.60	4.19	830	37.87	26.08	3.39	635	36.77	25.42	2.72
	57 (13.9)		33.05	30.92	4.86	1	34.24	31.85	4.19		33.72	31.30	3.39		32.77	30.56	2.72
	72 (22.2)		44.55	22.32	4.88		46.13	23.06	4.21		45.29	22.62	3.41		43.94	22.01	2.74
80 (26.7)	67 (19.4)	850	40.32	26.75	4.87	870	41.71	27.59	4.20	850	40.95	27.04	3.40	835	39.74	26.36	2.73
80 (20.1)	63 (17.2)	650	36.97	30.12	4.86	870	38.48	31.14	4.19	650	37.80	30.53	3.39	635	36.69	29.78	2.72
	57 (13.9)		33.96	33.96	4.86	1	35.15	35.15	4.19		34.50	34.50	3.39		33.61	33.61	2.72
	** 7 5 7 6		An The	10 E S A			all of the	MINIMUN	DEMAND	SALVANS.				1225			
	72 (22.2)		40.67	16.26	4.60		40.09	16.03	3.72		33.63	13.46	2.54		27.58	11.05	1.68
75 (23.9)	67 (19.4)	760	36.68	20.26	4.60	750	36.20	19.99	3.72	635	30.38	16.82	2.54	535	24.93	13.88	1.68
15 (23.9)	63 (17.2)	760	33.92	23.29	4.61	750	33.35	23.10	3.72	635	28.00	19.46	2.55	535	22.95	16.14	1.69
	57 (13.9)		29.98	28.07	4.60		29.64	27.73	3.73		24.86	23.37	2.55		20.39	19.42	1.69
	72 (22.2)		40.46	20.29	4.60		39.99	20.05	3.72		33.53	16.86	2.54		27.49	13.91	1.68
00 (00 7)	67 (19.4)	760	36.65	24.33	4.60	750	36.12	23.99	3.72	605	30.32	20.21	2.54	505	24.84	16.72	1.68
80 (26.7)	63 (17.2)	760	33.75	27.45	4.60	750	33.28	27.08	3.72	635	27.93	22.83	2.55	535	22.88	19.00	1.69
	57 (13.9)		30.84	30.84	4.60		30.44	30.44	3.73		25.61	25.61	2.55	77	21.11	21.11	1.69

			24VNA0	060/CAP**6124		10-22 Expanded or Entering Air Te			Dehumidify Mod	е			
EDD	EVAP. AIR		8	5			7	5			6	5	
°F (°C)	EWB	ID SCFM	Capaci	ty MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys
1 ( 0)	°F (°C)	ID SCFWI	Total	Sens‡	KW**	ID SCHWI	Total	Sens‡	KW**	ID SCHII	Total	Sens‡	KW**
						MAXIMUM DE	MAND						
	72 (22.2)		61.85	24.60	3.59		64.03	25.50	3.23	7.	66.06	26.29	2.97
75 (23.9)	67 (19.4)	1175	55.93	30.67	3.55	1175	57.98	31.58	3.18	1185	59.93	32.48	2.91
75 (23.9)	63 (17.2)	1175	51.74	35.48	3.53	1175	53.69	36.43	3.15	1100	55.58	37.40	2.87
	57 (13.9)		46.25	42.58	3.50	1	48.02	43.54	3.11		49.72	44.59	2.81
	72 (22.2)		61.74	30.72	3.59		63.93	31.62	3.22		65.98	32.48	2.96
20 (20 7)	67 (19.4)	4475	55.86	36.73	3.55	4475	57.91	37.68	3.17	1185	59.86	38.63	2.90
80 (26.7)	63 (17.2)	1175	51.70	41.51	3.53	1175	53.65	42.46	3.14	1185	55.53	43.49	2.86
	57 (13.9)		47.24	47.24	3.50	1	48.69	48.69	3.11		50.13	50.13	2.82
BONE WINE	Taken kente	传统图象	2. 图图 第一条	TO THE REAL PROPERTY.	en alle Mountaine	MEDIAN DEN	AND				<b>经产业</b>	10 (45° H) (14)	12.50
	72 (22.2)		46.17	18.45	2.42		48.07	19.21	2.13		50.03	20.00	1.88
75 (23.9)	67 (19.4)	855	41.81	22.84	2.41	870	43.51	23.78	2.12	895	45.30	24.71	1.86
75 (23.9)	63 (17.2)	- 655	38.58	26.47	2.41	870	40.26	27.32	2.11	695	41.91	28.44	1.84
	57 (13.9)		34.40	31.72	2.40	1	35.89	32.74	2.10		37.43	33.95	1.83
	72 (22.2)		46.06	22.97	2.42		47.96	23.81	2.13		49.92	24.73	1.88
80 (26.7)	67 (19.4)	855	41.67	27.42	2.41	870	43.42	28.35	2.12	895	45.21	29.41	1.86
80 (28.7)	63 (17.2)	655	38.51	30.94	2.41	870	40.03	32.14	2.11	695	41.85	33.10	1.84
	57 (13.9)		35.10	35.10	2.40		36.43	36.43	2.10		37.87	37.87	1.83
						MINIMUM DEI	MAND						
	72 (22.2)	34.	29.04	11.63	1.47	3.0	30.47	12.20	1.28	-	31.85	12.75	1.10
75 (23.9)	67 (19.4)	555	26.24	14.57	1.47	580	27.57	15.28	1.27	600	28.81	15.94	1.10
15 (23.9)	63 (17.2)	555	24.20	16.87	1.47	560	25.42	17.72	1.27	800	26.56	18.46	1.10
	57 (13.9)		21.54	20.34	1.47		22.67	21.33	1.28		23.71	22.20	1.10
	72 (22.2)		28.95	14.60	1.47		30.43	15.32	1.27		31.76	15.96	1.10
00 (05 7)	67 (19.4)		26.17	17.51	1.47	500	27.57	18.23	1.27	500	28.80	19.05	1.10
80 (26.7)	63 (17.2)	555	24.14	19.83	1.47	580	25.37	20.78	1.27	600	26,52	21.63	1.10
	57 (13.9)		22.21	22.21	1.47		23.33	23.33	1.28		24.35	24.35	1.10

					2				)070–12 Coo ir Temperatur		NCY Mode						
	EVAP. AIR		1	25			1	15			7 600	105				95	
°F (°C)	EWB	ID SCFM	Capacity	y MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.
1 (0)	°F (°C)	ID SCFW	Total	Sens‡	KW**	ID SCFWI	Total	Sens‡	KW**	ID SCFW	Total	Sens‡	KW**	ID SCFINI	Total	Sens‡	KW**
The sales	JAN STAN	S. C. D. V.	1000	The same	10 10 10 10 M	· 图 图 / 中国	W. O.S.	MAXIMUN	DEMAND	\$ \$ \$ A	4-11-11	WAS AND		135 145		SANTA AN	Shaker State
	72 (22.2)		23.70	9.48	2.90		25.23	10.39	2.43		26.41	10.88	2.00		27.54	11.34	1.67
7F (02 0)	67 (19.4)	700	21.17	13.11	2.96	775	22.65	14.15	2.49	840	23.76	14.97	2.05	900	24.81	15.72	1.72
75 (23.9)	63 (17.2)	700	19.43	15.76	3.01	115	20.87	17.18	2.53	840	16.82	15.96	1.55	900	22.91	19.09	1.76
	57 (13.9)		18.17	18.17	3.04	1	19.63	19.63	2.56		20.74	20.74	2.12	1	21.76	21.76	1.78
	72 (22.2)		23.50	13.20	2.90		25.17	14.26	2.43		26.35	15.06	2.00		27.48	15.80	1.67
00 (00 7)	67 (19.4)	700	21.19	16.50	2.95	775	22.66	18.02	2.49	040	23.77	19.13	2.05		24.80	20.15	1.72
80 (26.7)	63 (17.2)	700	20.36	15.36	2.89	115	21.10	20.91	2.53	840	22.77	20.69	2.07	900	23.76	21.80	1.74
	57 (13.9)		19.52	19.52	3.01	de Carre	21.03	21.03	2.53	1	22.18	22.18	2.09	The state of the s	23.27	23.26	1.75
	Value N. Frank	M. S. S. S.	10049	E.F. E.	2000年	the breek of	W. 300	MEDIAN	DEMAND	Carlotte de	and Sub				14 (25)	Maria Sala	THE THE
	72 (22.2)	1	22.82	9.41	2.91	State of the	23.64	9.75	2.34		22.67	9.37	1.72	THE WAY	21.38	8.87	1.25
7F (00 0)	67 (19.4)	695	20.56	12.78	2.97	745	21.25	13.31	2.40	740	20.42	12.76	1.78		19.33	12.16	1.30
75 (23.9)	63 (17.2)	695	18.86	15.40	3.01	745	19.54	16.15	2.44	710	18.80	15.49	1.82	680	17.82	14.78	1.33
	57 (13.9)	1	17.67	17.67	3.04		18.43	18.43	2.47		17.72	17.72	1.84		16.84	16.84	1.36
	72 (22.2)		22.86	12.82	2.90		23.59	13.43	2.34		22.63	12.88	1.72		21.42	12.21	1.25
80 (26.7)	67 (19.4)	695	20.51	16.17	2.97	745	21.21	16.98	2.40	710	20.39	16.27	1.78	680	19.32	15.50	1.29
80 (26.7)	63 (17.2)	695	19.04	18.69	3.01	745	19.79	19.65	2.43	710	19.02	18.85	1.81	680	18.05	17.97	1.32
	57 (13.9)		18.93	18.93	3.01		19.72	19.72	2.43	1	18.95	18.95	1.81		18.00	18.00	1.33
201		A STORY	To Tall	¥91 () (6)		The Control	Water St	MINIMUN	DEMAND	A STATE OF	JUL 3						
	72 (22.2)		22.30	9.22	3.18	-	22.06	9.12	2.45		19.16	7.93	1.60		15.45	6.41	0.98
75 (23.9)	67 (19.4)	690	20.11	12.54	3.25	700	19.94	12.52	2.51	595	17.23	10.80	1.65	480	13.88	8.73	1.02
75 (23.9)	63 (17.2)	690	18.45	15.14	3.30	700	18.33	15.20	2.56	595	15.85	13.07	1.69	460	12.77	10.59	1.05
	57 (13.9)		17.24	17.24	3.32		17.29	17.29	2.59		14.92	14.92	1.72		12.04	12.04	1.07
	72 (22.2)		22.41	12.59	3.17		22.17	12.57	2.44		19.11	10.89	1.60		15.39	8.79	0.98
00 (00 7)	67 (19.4)	690	20.10	15.90	3.24	700	19.92	15.92	2.51	505	17.21	13.71	1.65	400	13.86	11.11	1.02
80 (26.7)	63 (17.2)	690	19.80	14.96	3.25	700	19.44	15.72	2.52	595	16.02	15.89	1.68	480	12.91	12.88	1.05
	57 (13.9)		18.54	18.54	3.29		18.50	18.50	2.55		15.94	15.94	1.71		12.88	12.88	1.05

				24VNA0		L+58CV(A,X)070 or Entering Air Te			ode				
	EVAP. AIR		85 (2	29.4)			75 (	23.9)			65 (	18.3)	
EDB °F (°C)	EWB	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.
. ( 0)	°F (°C)	ID SCFM	Total	Sens‡	KW**	ID SCFM	Total	Sens‡	KW**	ID SCFM	Total	Sens‡	KW**
	1200000	THE PERSONS				MAXIMUM DEI	MAND						
	72 (22.2)		28.81	11.77	1.39		30.27	12.36	1.17		31.64	12.90	0.98
75 (23.9)	67 (19.4)	875	25.99	16.0	1.44	940	27.29	16.91	1.22	1000	28.52	17.70	1.03
75 (23.9)	63 (17.2)	875	23.94	19.4	1.49	540	25.23	20.54	1.26	1000	26.41	21.54	1.07
	57 (13.9)		22.54	22.54	1.51		23.79	23.79	1.28		24.95	24.95	1.09
	72 (22.2)		28.75	16.12	1.39		30.16	16.97	1.17		31.50	17.76	0.98
80 (26.7)	67 (19.4)	875	25.97	20.36	1.44	940	27.31	21.53	1.22	1000	28.56	22.56	1.03
80 (28.7)	63 (17.2)	6/5	26.13	17.86	1.43	940	27.63	18.28	1.21	1000	28.97	18.81	1.02
	57 (13.9)		24.04	24.03	1.47	1	25.37	25.37	1.25		26.61	26.61	1.06
						MEDIAN DEM	IAND		MARKET 18 4				0076
	72 (22.2)	The second secon	22.72	9.43	1.05		23.75	9.79	0.85		24.84	10.23	0.69
75 (23.9)	67 (19.4)	750	20.48	13.07	1.10	750	21.43	13.44	0.90	785	22.42	14.04	0.73
75 (23.9)	63 (17.2)	750	18.91	15.93	1.13	/50	19.78	16.31	0.93	105	20.72	17.04	0.76
	57 (13.9)		18.01	18.01	1.15		18.71	18.71	0.96		19.59	19.59	0.79
	72 (22.2)		22.67	13.12	1.05	1	23.69	13.49	0.85		24.78	14.08	0.69
80 (26.7)	67 (19.4)	750	20.48	16.72	1.09	750	21.41	17.10	0.90	785	22.41	17.85	0.73
80 (28.7)	63 (17.2)	750	19.27	19.27	1.12	750	20.25	19.36	0.92	765	21.03	20.65	0.76
	57 (13.9)		19.24	19.24	1.12		19.96	19.96	0.93		20.89	20.89	0.76
			45034376	<b>建筑</b> 市场		MINIMUM DER	MAND				Samuel States		
	72 (22.2)		16.53	6.93	0.81	7.19	17.55	7.44	0.66		18.27	7.71	0.52
75 (23.9)	67 (19.4)	560	14.88	9.65	0.85	650	15.77	10.75	0.70	640	16.60	11.15	0.57
75 (23.9)	63 (17.2)	560	13.73	11.81	0.88	650	14.65	13.08	0.73	640	15.39	13.77	0.60
	57 (13.9)		13.14	13.14	0.90		14.21	14.21	0.74		14.94	14.94	0.61
	72 (22.2)		16.48	9.70	0.80		17.50	10.65	0.66		18.34	11.19	0.53
00 (00 7)	67 (19.4)		14.88	12.40	0.85	050	15.85	13.75	0.70		16.63	14.48	0.57
80 (26.7)	63 (17.2)	560	14.09	14.09	0.87	650	15.23	15.23	0.71	640	16.02	16.02	0.58
	57 (13.9)		14.06	14.06	0.87		15.21	15.21	0.71		15.99	15.99	0.58

					2				()070 – 12 Coo Air Temperatur		NCY Mode						
EDB	EVAP. AIR		1	25			1	115			3	105				95	
°F (°C)	EWB	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.	ID COFM	Capacit	y MBtuh†	Total Sys
	°F (°C)	ID OOI III	Total	Sens‡	KW**	ID SCFW	Total	Sens‡	KW**	ID SCFWI	Total	Sens‡	KW**	ID SCFM	Total	Sens‡	KW**
						State Day	4. 5.83	MAXIMUN	DEMAND	A CHARLE	STALL SES	St. March	A 2 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16		AND VA		
	72 (22.2)		30.35	12.51	3.85		32.91	13.58	3.37		35.16	14.53	2.97		37.12	15.40	2.71
75 (23.9)	67 (19.4)	830	27.22	16.91	3.91	955	29.56	18.52	3.43	1080	31.63	19.76	3.03		33.38	20.98	2.75
15 (23.9)	63 (17.2)	630	24.97	20.38	3.96	955	27.16	22.45	3.47	1080	29.03	23.91	3.06	1200	30.75	25.51	2.79
	57 (13.9)		23.02	23.02	4.00	1	25.26	25.26	3.51		27.28	27.28	3.10		29.00	29.00	2.82
	72 (22.2)		30.32	17.00	3.85		32.87	18.71	3.37		35.11	19.98	2.97		37.05	21.12	2.70
80 (26.7)	67 (19.4)	830	27.16	21.41	3.91	955	29.53	23.64	3.42		31.61	25.23	3.02		33.37	26.77	2.75
80 (28.7)	63 (17.2)	830	25.11	24.65	3.95	955	27.39	27.21	3.46	1080	32.78	32.48	3.00	1200	34.01	33.85	2.74
	57 (13.9)	1 33	24.55	24.55	3.97	a control	27.01	27.01	3.48		29.14	20.14	3.07	Constant	21.00	31.00	2.70
	LEISEN Y	TAKE THE	STATE OF THE STATE	STATE OF	ne com	E-1 (23 K E-1)	T SUMMO	MEDIAN	DEMAND								
	72 (22.2)	1	26.73	10.90	3.39		27.98	11.42	2.81	G9 11	27.79	11.39	2.18	371 77.01	27.15	11.17	1.68
75 (00.0)	67 (19.4)	760	23.99	14.60	3.46		25.14	15.47	2.87		25.01	15.65	2.23	-	24.61	15.55	1.74
75 (23.9)	63 (17.2)	760	21.97	17.53	3.51	835	23.12	18.66	2.91	875	23.03	19.02	2.28	880	22.58	18.87	1.77
	57 (13.9)		20.41	20.41	3.54	1	21.62	21.62	2.95		21.76	21.76	2.31	1	21.42	21.42	1.80
	72 (22.2)		26.70	14.71	3.39		27.80	15.54	2.80		27.74	15.72	2.17		27.10	15.52	1.68
90 (96.7)	67 (19.4)	760	23.93	18.32	3.45		25.10	19.71	2.88		24.99	19.96	2.23		24.44	19.78	1.73
80 (26.7)	63 (17.2)	760	22.17	21.22	3.50	835	23.35	22.69	2.90	875	24.17	20.74	2.25	880	24.09	19.28	1.74
	57 (13.9)		21.84	21.84	3.50	1	23.12	23.12	2.91		23.27	23.27	2.27	1	22.94	22.94	1.76
								MINIMUN	DEMAND						EE10 1		-1.70
	72 (22.2)		22.30	9.22	3.18		22.06	9.12	2.45		19.16	7.93	1.60		15.45	6.41	0.98
(00.0)	67 (19.4)	1	20.11	12.54	3.25	1	19.94	12.52	2.51		17.23	10.80	1.65	-	13.88	8.73	1.02
75 (23.9)	63 (17.2)	690	18.45	15.14	3.30	700	18.33	15.20	2.56	595	15.85	13.07	1.69	480	12.77	10.59	1.05
	57 (13.9)		17.24	17.24	3.32	1	17.28	17.28	2.59	1	14.92	14.92	1.72	1	12.04	12.04	1.07
	72 (22.2)		22.41	12.59	3.17		22.17	12.56	2.44		19.11	10.89	1.60		15.39	8.79	0.98
	67 (19.4)		20.10	15.90	3.24		19.92	15.92	2.51		17.21	13.71	1.65	-	13.86	11.11	1.02
80 (26.7)	63 (17.2)	690	19.80	14.96	3.25	700	19.43	15.72	2.52	595	16.02	15.89	1.68	480	12.91	12.88	1.02
	57 (13.9)		18.54	18.54	3.29		18.49	18.49	2.55	20,000	15.94	15.94	1.71		12.87	12.87	1.05

				24VNA0		L+58CV(A,X)070 or Entering Air Te			de				
	EVAP. AIR		85 (2	(9.4)			75 (	23.9)			65 (1	8.3)	
EDB *F (*C)	EWB	ID CODY	Capacit	y MBtuh†	Total Sys.	In corre	Capaci	ty MBtuh†	Total Sys.	10.00514	Capacit	y MBtuh†	Total Sys.
F ( C)	°F (°C)	ID SCFM	Total	Sens‡	KW**	D SCFM	Total	Sena‡	KW**	ID SCFM	Total	Sens‡	KW**
			The State of the S			MAXIMUM DEI	MAND	State of the	ALC: HERS	Shid Files			Shares A
	72 (22.2)		38.62	16.02	2.18		40.79	16.82	1.96		42.58	17.53	1.87
75 (23.9)	67 (19.4)	1050	34.81	22.20	2.23	1225	36.80	23.08	2.01	1405	38.38	24.03	1.92
75 (23.9)	63 (17.2)	1050	32.10	27.05	2.26	1223	33.98	28.02	2.04	1403	35.42	29.14	1.95
	57 (13.9)		30.48	30.48	2.29		31.71	31.71	2.08		33.44	33.44	1.98
	72 (22.2)		38.53	22.30	2.18		40.66	23.16	1.96		42.41	24.09	1.87
80 (26.7)	67 (19.4)	1050	34.78	28.39	2.22	1225	36.76	29.35	2.01	1405	38.37	30.57	1.92
80 (28.7)	63 (17.2)	1050	34.93	34.93	2.22	1225	37.07	35.43	2.00	1405	38.67	37.97	1.91
	57 (13.9)		31.42	31.42	2.27		33.75	33.75	2.05	-	35.66	35.66	1.95
						MEDIAN DEM	AND	· 1000年		10,000		医腹沟 医外线	1-1-1
	72 (22.2)	7	28.45	11.62	1.40		29.86	12.18	1.18		31.23	12.72	0.99
75 (23.9)	67 (19.4)	870	25.62	15.87	1.46	925	26.96	16.69	1.23	985	28.20	17.49	1.04
75 (23.9)	63 (17.2)	870	23.66	19.25	1.49	925	24.87	20.27	1.27	905	26.04	21.29	1.08
	57 (13.9)		22.35	22.35	1.52		23.46	23.46	1.29		24.61	24.61	1.10
	72 (22.2)		28.40	15.97	1.40		29.80	16.75	1.18		31.16	17.55	0.99
80 (26.7)	67 (19.4)	870	25.63	20.15	1.45	925	26.93	21.22	1.23	985	28.29	22.47	1.04
30 (20.1)	63 (17.2)	870	23.95	23.36	1.48	925	25.20	24.61	1.26	965	26.60	25.78	1.07
	57 (13.9)	1. 1.	23.76	23.76	1.49	4.40	25.05	25.05	1.26		26.35	26.35	1.07
						MINIMUM DE	MAND	NICE OF THE STATE OF				stander of Bulletin	
	72 (22.2)	14.4	16.52	6.93	0.81		17.55	7.44	0.66		18.27	7.71	0.52
75 (23.9)	67 (19.4)	560	14.88	9.64	0.85	650	15.77	10.74	0.70	640	16.60	11.15	0.57
75 (25.5)	63 (17.2)	300	13.73	11.81	0.88	650	14.64	13.08	0.73	540	15.39	13.77	0.60
	57 (13.9)		13.14	13.14	0.90		14.21	14.21	0.74		14.94	14.94	0.61
	72 (22.2)		16.47	9.70	0.80		17.50	10.65	0.66		18.34	11.19	0.53
90 (26.7)	67 (19.4)	560	14.88	12.40	0.85	650	15.85	13.75	0.70	640	16.63	14.48	0.57
80 (26.7)	63 (17.2)	560	14.09	14.09	0.87	650	15.23	15.23	0.71	640	16.02	16.02	0.58
	57 (13.9)		14.06	14.06	0.87		15.21	15.21	0.71		15.99	15.99	0.58

							Condense	r Entering A	)110-20 Coo ir Temperatur								
	EVAP. AIR		1	25			1	15				105				3D	
EDB °F (°C)	EWB	ID SCFM	Capacit	MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capaci	y MBtuh†	Total Sys.	ID SCFM		y MBtuh†	Total Sys.
1 ( 0)	°F (°C)	ID SCI-M	Total	Sens‡	KW**	10 001 10	Total	Sens‡	KW**	15 551 111	Total	Sens‡	KW**	15 001111	Total	Sens‡	KW**
CHINGS	100000000000000000000000000000000000000	1000	1,000				Explain Section	124	DEMAND	Separate of the second		A STATE OF			Victor of		
	72 (22.2)		44.80	18.05	4.82		48.29	19.48	4.31		51.30	20.55	3.94		54.20	21.61	3.60
75 (23.9)	67 (19.4)	1250	40.50	24.61	4.81	1335	43.71	26.49	4.30	1425	46.44	28.04	3.92	1500	49.06	29.49	3.58
75 (23.9)	63 (17.2)	1230	37.39	29.82	4.81	1000	40.35	31.97	4.30		42.87	33.87	3.91		45.31	35.64	3.57
	57 (13.9)		34.65	34.65	4.80		37.39	37.39	4.29		39.77	39.77	3.90		42.00	42.00	3.56
	72 (22.2)		44.42	24.80	4.81		48.10	26.47	4.31		51.10	28.02	3.94		53.99	29.49	3.60
()	67 (19.4)	1250	40.39	31.08	4.81	1335	43.58	33.40	4.30	1425	46.33	35.44	3.92	1500	48.94	37.27	3.58
80 (26.7)	63 (17.2)	1250	37.47	36.12	4.81	1335	40.31	38.70	4.30	1425	43.05	41.16	3.91	1000	45.51	43.28	3.57
	57 (13.9)		36.92	36.92	4.81	58.3	39.80	39.80	4.30	Cial Shi	42.33	42.33	3.91		44.69	44.69	3.57
at Lake		a teheat	THE PARTY	MAN WA	d of the		134 500	MEDIAN	DEMAND		414		106 19500		Park S	Mary Br	
	72 (22.2)	1	43.75	17.64	4.62		45.55	18.36	3.97		43.91	17.72	3.21	13 T 50 7	42.45	17.16	2.55
()	67 (19.4)	4000	39.95	24.25	4.63	1265	41.34	24.75	3.96	1240	39.81	24.30	3.20	1200	38.40	23.53	2.54
75 (23.9)	63 (17.2)	1230	36.84	29.35	4.63	1205	38.08	30.30	3.96	1240	40.64	13.45	3.19	1200	35.52	28.50	2.54
	57 (13.9)		34.16	34.16	4.62	1	35.30	35.30	3.96		34.18	34.18	3.20		33.07	33.07	2.54
	72 (22.2)		43.94	24.26	4.63		45.35	25.01	3.97		43.71	24.25	3.21		42.25	23.48	2.55
	67 (19.4)	-	39.81	30.69	4.63	1005	41.11	31.60	3.96	1240	39.56	30.88	3.20	1200	38.23	29.91	2.55
80 (26.7)	63 (17.2)	1230	36.92	35.75	4.63	1265	38.18	36.75	3.96	1240	36.85	35.75	3.20	1200	35.62	34.59	2.54
	57 (13.9)	1	36.40	36.40	4.63		37.60	37.60	3.96		36.40	36.40	3.20		35.21	35.21	2.54
0.97	THE REAL PROPERTY.	MENER	CC 18 8	C. STATE		12 25 20	ALCOY.	MINIMUM	DEMAND	A Alphi Towney		13/54/24	STAN SERVE				
	72 (22.2)		43.93	17.73	4.76		43.26	17.46	3.88		36.36	14.77	2.64		29.84	12.07	1.75
	67 (19.4)	1	39.71	24.18	4.76	1100	39.15	23.86	3.88	1005	32.87	20.13	2.64	845	26.98	16.71	1.75
75 (23.9)	63 (17.2)	1205	36.68	29.26	4.76	1190	36.13	28.85	3.88	1005	30.35	24.47	2.64	043	24.90	20.29	1.75
	57 (13.9)		34.01	34.01	4.76	1	33.53	33.53	3.88		28.25	28.25	2.65	1	23.28	23.28	1.75
	72 (22.2)		43.76	24.18	4.76		43.08	23.83	3.88		36.17	20.19	2.64		29.65	16.69	1.75
	67 (19.4)		38.20	30.00	4.74		39.03	30.18	3.88	4005	32.80	25.52	2.64	845	26.86	21.20	1.75
80 (26.7)	63 (17.2)	1205	36.74	35.53	4.76	1190	36.20	35.04	3.88	1005	30.44	29.65	2.64	845	24.95	24.68	1.75
	57 (13.9)	1	36.25	36.24	4.63     1265     41.1       4.63     38.1       4.63     37.6       4.76     43.2       4.76     39.1       4.76     33.5       4.76     43.0       4.76     43.0       4.74     1190       36.2     39.0       4.74     1190       36.2     36.2	35.72	35.72	3.88		30.09	30.09	2.64		24.79	24.79	1.75	

				24VNA0		L+58CV(A,X)110 or Entering Air Te			de				
EDB	EVAP. AIR	T	8	5			7	75			6	5	
°F (°C)	EWB	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys
. ( -)	°F (°C)	ID SCEM	Total	Sens‡	KW**	ID SCIM	Total	Sens‡	KW**	ID SCFM	Total	Sens‡	KW**
						MAXIMUM DE	MAND						
	72 (22.2)		56.79	22.56	3.23		59.15	23.42	2.94		61.40	24.30	2.67
75 (23.9)	67 (19.4)	1500	51.40	30.44	3.21	1540	53.58	31.55	2.91	1575	55.72	32.64	2.64
75 (25.5)	63 (17.2)	1300	47.47	36.60	3.20	1340	49.52	37.89	2.88	1515	51.56	39.15	2.60
	57 (13.9)		43.67	43.67	3.19		45.47	45.47	2.87		47.24	47.24	2.59
	72 (22.2)		56.61	30.43	3.23		58.95	31.49	2.94		61.20	32.57	2.67
80 (26.7)	67 (19.4)	1500	51.29	38.19	3.21	1540	53.43	39.51	2.90	1575	55.76	40.86	2.63
80 (28.7)	63 (17.2)	1500	47.61	44.27	3.20	1540	49.67	45.75	2.89	1575	51.72	47.21	2.61
	57 (13.9)	1	46.39	46.39	3.20		48.24	48.24	2.88		50.10	50.10	2.60
	<b>第14年</b>			State 1 car of the		MEDIAN DEN	IAND			<b>"我们然后"</b> 发			
	72 (22.2)		44.41	17.87	2.24		46.64	18.75	2.03		48.45	19.39	1.83
75 (23.9)	67 (19.4)	1170	40.23	24.06	2.23	1260	42.22	25.41	2.03	1280	43.90	26.13	1.82
15 (25.5)	63 (17.2)	1170	37.12	28.91	2.23	1260	39.01	30.62	2.01	1200	40.56	31.48	1.81
	57 (13.9)		34.17	34.17	2.22		36.09	36.09	2.01		37.36	37.36	1.80
	72 (22.2)		44.24	24.04	2.24		46.42	25.23	2.04		48.33	25.82	1.83
80 (26.7)	67 (19.4)	1170	40.09	30.18	2.23	1260	42.13	32.00	2.02	1280	43.72	32.82	1.82
80 (20.1)	63 (17.2)	1170	37.21	34.93	2.23	1200	39.15	37.15	2.01	1200	40.66	38.07	1.81
	57 (13.9)		36.32	36.32	2.23	1,140	38.36	38.36	2.01		39.71	39.71	1.81
				SEP BENEZ		MINIMUM DEI	MAND	<b>国际营业企业</b>					
	72 (22.2)		31.39	12.79	1.53		32.81	13.31	1.34		34.20	13.84	1.18
75 (23.9)	67 (19.4)	870	28.42	17.43	1.54	875	29.70	18.00	1.34	895	30.98	18.65	1.17
13 (23.3)	63 (17.2)	670	26.24	21.14	1.53	6/5	27.41	21.70	1.34	030	28.60	22.45	1.17
	57 (13.9)		24.42	24.42	1.54		25.35	25.35	1.34		26.37	26.37	1.17
	72 (22.2)		31.24	17.43	1.54		32.66	17.99	1.34		34.06	18.63	1.18
00 (00 7)	67 (19.4)	270	28.30	22.09	1.53		29.59	22.66	1.34		30.86	23.41	1.17
80 (26.7)	63 (17.2)	870	26.78	24.33	1.53	875	28.43	23.77	1.34	895	29.79	24.02	1.17
	57 (13.9)		25.99	25.99	1.53		26.96	26.96	1.34		28.03	28.03	1.17

					24VNA060				Expanded Rat ir Temperatur		EFFICIEN	CY Mode					
	EVAP. AIR		1	25			1	15				105				95	
°F (°C)	EWB	ID SCFM	Capacity	y MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	ty MBtuh†	Total Sys.	ID SCFM	Capacit	y MBtuh†	Total Sys.
1 (0)	°F (°C)	ID SCFM	Total	Sens‡	KW**	ID SCFM	Total	Sens‡	KW**	ID SCFW	Total	Sens‡	KW**	ID SCFW	Total	Sens‡	KW**
		A THE	SCALL !	All trees		C 85 11 58		MAXIMUN	DEMAND			Section of			00000	Seve Bin	No. of the last
	72 (22.2)		50.55	20.14	5.59		54.52	21.67	5.09		58.22	23.07	4.64		61.68	24.37	4.26
75 (23.9)	67 (19.4)	1200	45.83	26.41	5.57	1300	49.35	28.44	5.06	1400	52.67	30.34	4.61	1500	55.81	32.16	4.22
15 (23.5)	63 (17.2)	1200	42.22	31.27	5.56	1300	45.53	33.70	5.04	1400	48.60	36.01	4.59	1500	51.49	38.23	4.20
	57 (13.9)		37.97	37.81	5.53		41.03	40.86	5.02	]	43.88	43.88	4.57		46.61	46.61	4.18
	72 (22.2)		50.19	26.29	5.59		54.14	28.35	5.09		57.83	30.26	4.64		61.32	32.10	4.26
80 (26.7)	67 (19.4)	1200	45.66	32.55	5.57	1300	49.23	35.11	5.06	1400	52.52	37.55	4.61	1500	55.67	39.84	4.22
00 (20.1)	63 (17.2)	1200	42.19	37.38	5.55	55 45. 54 43.	45.52	40.34	5.04	1400	48.62	43.16	4.59	1500	51.55	45.87	4.20
	57 (13.9)	1	40.23	40.23	5.54		43.45	43.45	5.03	Transidad	46.49	46.49	4.58		49.40	49.40	4.19
24 . 4	N. W.	1 7 7 9 9	PROPERTY.	SHAPE S	Value of the	SESTER SE	32185A	MEDIAN	DEMAND	15. SER.	SE HERR	是许多。	SHEET STA	TO STATE	Charles Services	Light of the la	
	72 (22.2)		47.61	19.05	5.04	A LANGE	49.56	19.83	4.42		48.89	19.62	3.62	-	47.39	19.08	2.93
75 (23.9)	67 (19.4)	1230	43.00	25.53	5.03	1330	44.83	26.86	4.40	1350	44.25	26.77	3.61	1320	42.91	26.07	2.92
75 (23.9)	63 (17.2)	1230	39.72	30.65	5.02	1330	41.31	32.32	4.40	1330	40.83	32.40	3.60	1320	39.62	31.59	2.91
	57 (13.9)		36.42	36.42	5.02		38.06	38.06	4.39		37.89	37.89	3.60		36.83	36.83	2.90
	72 (22.2)		47.42	25.54	5.04		49.24	27.01	4.42		48.69	26.74	3.62		47.21	26.04	2.93
80 (26.7)	67 (19.4)	1230	42.94	31.99	5.03	1330	44.72	33.81	4.40	1350	44.12	33.80	3.61	1320	42.78	33.00	2.91
60 (20.7)	63 (17.2)	1230	39.75	36.97	5.02	1330	41.46	39.20	4.40	1330	41.00	39.28	3.60	1320	39.78	38.32	2.91
	57 (13.9)		38.68	38.68	5.03	1	40.60	40.60	4.40		40.32	40.32	3.60		39.19	39.19	2.91
139	1111111	1 3 79 7 3	2.0	A dil	TANK ST	Color to the	Sec. 1750	MINIMUM	DEMAND			A TABLE A	Tolling Co. As		2000		
	72 (22.2)		43.93	17.73	4.76		43.26	17.46	3.88		36.36	14.77	2.64		29.84	12.07	1.75
75 (23.9)	67 (19.4)	1205	39.71	24.18	4.76	1190	39.15	23.86	3.88	1005	32.87	20.13	2.64	845	26.98	16.71	1.75
15 (23.5)	63 (17.2)	1203	36.68	29.26	4.76	1130	36.13	28.85	3.88	1003	30.35	24.47	2.64	043	24.90	20.29	1.75
	57 (13.9)		34.01	34.01	4.76		33.53	33.53	3.88	1	28.25	28.25	2.65		23.28	23.28	1.75
	72 (22.2)		43.76	24.18	4.76		43.08	23.83	3.88	/	36.17	20.19	2.64		29.65	16.69	1.75
90 (96 7)	67 (19.4)	1205	38.20	30.00	4.74	1190	39.03	30.18	3.88	1005	32.80	25.52	2.64	845	26.86	21.20	1.75
80 (26.7)	63 (17.2)	1205	36.74	35.53	4.76	1190	36.20	35.04	3.88	1005	30.44	29.65	2.64	845	24.95	24.68	1.75
	57 (13.9)	1	36.25	36.24	4.76	1	35.72	35.72	3.88	35.00	30.09	30.09	2.64		24.79	24.79	1.75

			24	VNA060/CAP**		A,X)110-20 Expa er Entering Air Te			IENCY Mode				
	EVAP. AIR		85 (2	29.4)			75 (2	23.9)			65 (	18.3)	
°F (°C)	EWB	ID SCFM	Capacit	y MBtuh†	Total Sys.	ID SCFM	Capacit	ty MBtuh†	Total Sys.	ID SCFM	Capaci	ty MBtuh†	Total Sys.
. ( 0)	°F (°C)	ID SCFW	Total	Sens‡	KW**	ID SCHWI	Total	Sens‡	KW**	ID SCI W	Total	Sens‡	KW**
						MAXIMUM DEI	MAND						
	72 (22.2)		64.31	25.37	3.82		67.74	26.64	3.60		70.82	26.76	3.57
75 (23.9)	67 (19.4)	1500	58.23	33.16	3.78	1675	61.37	35.35	3.54	1880	64.01	37.30	3.50
75 (23.9)	63 (17.2)	1500	53.80	39.28	3.75	1075	56.69	42.14	3.50	1000	59.21	44.95	3.46
	57 (13.9)		48.73	47.70	3.72		51.56	51.56	3.47		54.41	54.41	3.41
	72 (22.2)		64.07	33.21	3.83		67.51	35.32	3.59		70.29	37.20	3.56
90 (26.7)	67 (19.4)	1500	58.16	40.88	3.78	1675	61.22	43.90	3.54	1880	63.84	46.86	3.50
80 (26.7)	63 (17.2)	1500	53.87	46.94	3.75	10/5	56.82	50.67	3.51	1000	59.40	54.40	3.46
	57 (13.9)		51.22	51.22	3.73		54.60	54.60	3.49		57.69	57.69	3.44
						MEDIAN DEN	IAND	F100 - 142					
	72 (22.2)		49.53	19.83	2.61		51.83	20.72	2.35		53.98	21.54	2.12
75 (23.9)	67 (19.4)	1300	44.84	26.73	2.59	1365	46.98	27.91	2.33	1420	48.96	29.10	2.10
75 (23.9)	63 (17.2)	1300	41.41	32.09	2.59	1305	43.40	33.62	2.32	1420	45.27	34.99	2.09
	57 (13.9)		38.10	38.10	2.58		39.96	39.96	2.31		41.69	41.69	2.07
	72 (22.2)		49.36	26.69	2.61		51.63	27.92	2.35		53.77	29.03	2.12
20 (20.7)	67 (19.4)	1000	44.72	33.50	2.59	1005	46.84	35.08	2.33	1	48.84	36.50	2.10
69 (394)	(3 (17.2)								2.32				2.09
	37 (10.3)		48.49	40.49	2.59	-	42.40	42.43	2.32		44.27	44.27	2.08
						MINIMUM DE	MAND						
	72 (22.2)		31.35	12.79	1.53		32.81	13.31	1.34		34.20	13.84	1.18
75 (00.0)	67 (19.4)	870	28.42	17.43	1.54	875	29.70	18.00	1.34	895	30.98	18.65	1.17
75 (23.9)	63 (17.2)	870	26.24	21.14	1.53	8/5	27.41	21.70	1.34	695	28.60	22.45	1.17
	57 (13.9)		24.42	24.42	1.54		25.35	25.35	1.34		26.37	26.37	1.17
	72 (22.2)		31.24	17.43	1.54		32.66	17.99	1.34		34.06	18.63	1.18
90 (26.7)	67 (19.4)	970	28.30	22.09	1.53	875	29.59	22.66	1.34	895	30.86	23.41	1.17
80 (26.7)	63 (17.2)	870	26.78	24.33	1.53	6/5	28.43	23.77	1.34	695	29.79	24.02	1.17
	57 (13.9)		25.99	25.99	1.53		26.96	26.96	1.34		28.03	28.03	1.17

#### NOTES:

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

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

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

EWB - Entering Wet Bulb

<sup>\*</sup> Tested combination.

Sensible capacities are shown for both 80°F (27°C) and 75°F (23.4°C) entering air at the indoor coil. For sensible capacities at other than these, deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature.

# 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.

#### GUIDE SPECIFICATIONS

### **GENERAL**

### **System Description**

Outdoor-mounted, air-cooled, split-system air conditioner unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, forward-swept blade propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

### **Ouality Assurance**

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

### Delivery, Storage, and Handling

 Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

### Warranty (for inclusion by specifying engineer)

U.S. and Canada only.

### **PRODUCTS**

#### Equipment

 Factory-assembled, single-piece, air-cooled air conditioner. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A) refrigerant, and special features required prior to field start-up.

#### **Unit Cabinet**

 Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

#### **Fans**

 Condenser fan will be direct-drive propeller type, forward swept blade, discharging air upward.

# AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER 24VNA0

2 TO 5 NOMINAL TONS

- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated.
- Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

### Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be covered with a sound absorbing blanket.

#### Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

### **Refrigeration Components**

- Refrigeration circuit components will include liquid-line front-seating shutoff valve with sweat connections, vapor-line front-seating shutoff valve with sweat connections, system charge of Puron<sup>®</sup> (R-410A) refrigerant, POE compressor oil, accumulator.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for Puron<sup>®</sup> refrigerant.

### **Operating Characteristics**

- The capacity of the unit will meet or exceed \_\_\_\_\_ Btuh at a suction temperature of \_\_\_\_\_ °F (°C). The power consumption at full load will not exceed \_\_\_\_ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of \_\_\_\_\_ Btuh or greater at conditions of \_\_\_\_\_ CFM entering air temperature at the evaporator at \_\_\_\_ °F (°C) wet bulb and \_\_\_\_ °F (°C) dry bulb, and air entering the unit at \_\_\_ °F (°C).
- The system will have a SEER of \_\_\_\_\_ Btuh/watt or greater at DOE conditions.

### **Electrical Requirements**

- Nominal unit electrical characteristics will be \_\_\_\_\_\_v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of \_\_\_\_\_\_v to v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

#### **Special Features**

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements
- Infinity control with appropriate software version is required for full featured operation.

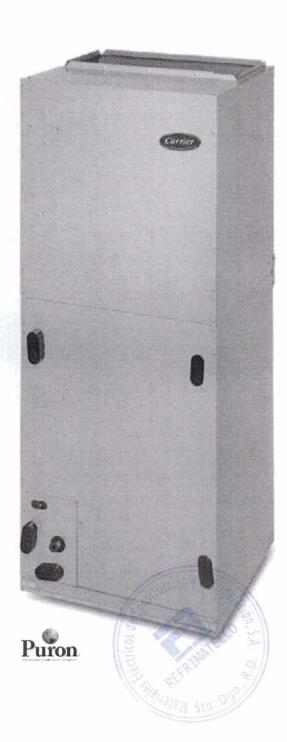
### SYSTEM DESIGN SUMMARY

- 1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
- 2. This product is qualified for low ambient cooling operation (below 55°F / 12.8°C) with an Infinity User Interface ONLY.
- 3. The maximum outdoor operating ambient in cooling mode is 125°F (51.67°C).
- 4. For reliable operation, unit should be level in all horizontal planes.
- 5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
- 6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
- 7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
- 8. Do not apply capillary tube indoor coils to these units.
- 9. Factory-supplied filter drier must be installed.

FE4A, FE5A Infinity® Series
Communicating Variable—Speed Fan Coil
Puron® Refrigerant
Sizes 002 thru 006



# **Product Data**



# PREMIUM ENVIRONMENTALLY-SOUND FAN COIL

The latest in technology makes the FE4A and FE5A fan coil models the most advanced air handlers available. With attention to quiet, efficient, and comfortable operation, Carrier has developed a new benchmark for homeowner comfort and ease of installation.

The FE4A and FE5A utilize the Infinity® Control as a required accessory to enable state of the art smart-diagnostics capability. This enables faster troubleshooting, providing ease of service and repair. The FE4A and FE5A also provide a 4-wire hook up with matching outdoor unit and the Infinity® Control. This makes installation simpler and a lot quicker than with conventional fan coils. The FE4A and FE5A have advanced technology that allows the fan coil to self-configure with a matching outdoor unit and the Infinity™ Control, cutting down on installation time.

The FE4A and FE5A feature Puron® refrigerant, the chlorine-free alternate that is the future for the residential heating and cooling industry. The FE4A and FE5A using Puron® refrigerant maximize performance for environmentally sound systems. In addition to environmental safety, these systems are 30 to 40% more efficient than standard heating and cooling systems, thereby combining excellence in efficiency and environmental safety.

The FE4A and FE5A provide these benefits due to Carrier's command of Electronically Commutating Motor (ECM) technology. These motors are extremely efficient at all speeds, and enable the FE4A and FE5A to operate at the correct speed to deliver airflow precisely, ensuring proper performance across a wide range of duct static pressures. This adaptive efficiency also makes installation quality easier to achieve for today's demanding homeowner.

Carrier's command of ECM technology may be most evident in the comfort advantages that an ECM can deliver. For true comfort, the homeowner can achieve command of both temperature and humidity in cooling and heating modes.

Another feature which sets the FE4A and FE5A apart is the factory-installed TXV, which enhances efficiency and provides compressor-protecting operation at all recommended conditions. Grooved tubing, louvered aluminum fins, and the large face areas of the FE4A and FE5A refrigerant coils also provide superior efficiency, for high SEER and HSPF performance.

Carrier leads the way in condensate control, a hallmark of these multipoise fan coils. All of these featured components are protected within a rugged, pre-painted metal cabinet lined with super-thick, high-density insulation. For neat, high quality installations, the unit exterior features sweat refrigerant connections for simple leak free performance, and multiple electrical entry for both high and low voltage service.

For superior technology and unmatched comfort, the environmentally sound and efficient FE4A and FE5A fan coils can't be beat.

### **FEATURES**

### **Smart Diagnostics**

- Self configuring (ease of installation)
- · Easier troubleshooting, providing faster service and repair
- Energy Tracking capability with the Infinity® Series Wall Control.
   (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity® system.)

### **Environmentally-Sound Refrigerant Technology**

- Puron® refrigerant the chlorine-free, non-ozone depleting refrigerant
- · Thermostatic Expansion Valve (TXV) designed to maximize performance with Puron® refrigerant

### **Energy Efficient Operation**

- · Electronically Commutated Motor (ECM) operates efficiently at all speeds
- · Maximizes efficiency of heating and cooling systems
- Ultra-low power consumption during fan only operation

### **Comfort Control**

- Warm, comfortable heating air temperatures
- · Unmatched humidity control

### Airflow and Sound Technology

- · Logarithmic spiral blower housings for high blower efficiency and quiet operation
- Diffuser air discharge section for high airflow efficiency and quiet, smooth operation
- · High duct static capability
- Unique cabinet design that meets new stringent regulations for air leakage. Meets requirements of a 2% cabinet leakage rate when tested at 1.0 in wc of static pressure.

### Condensate Control and Disposal Technology

- · Minimal standing water less microbial growth for improved IAQ and reduced condensate line clogging and related condensate leakage
- · Condensate fittings relocated away from turbulent airflow patterns at the blower entrance for improved condensate control performance
- Overflow feature for slope coil units allows condensate to exit the unit without damage to product under clogged primary and secondary line conditions
- · Tested for condensate disposal at conditions much more severe than those required by ARI
- · Primary and secondary drain connections to comply with HUD
- All pans constructed of an injection molded glass-filled polycarbonate engineered resin material, with brass drain connections
- · High density, super thick cabinetry insulation with vapor barrier
- · Pre-painted galvanized sheet metal cabinet

### **Heat Transfer Technology**

- · Grooved tubing
- · Lanced sine wave aluminum fins
- · Discreet refined counterflow refrigerant circuitry
- Bi-flow hard-shutoff TXV metering device

### Quality Assisting, Ease of Installation and Service Features

- Easy 4 wire hook up: convenient and reduces installation time.
- FE4A unit is multipoise
- FE5A unit is upflow/downflow only (single drain pan).
- · Provision made for suspending from roof or ceiling joints
- Modular cabinet on sizes 003 through 006
- · Sweat connections for leak free service
- · Multiple electrical entry for application flexibility (high and low voltage)
- Low voltage terminal strip, to safely hold connections within the cabinet
- Cabinet construction features innovations designed to prevent cabinet sweating

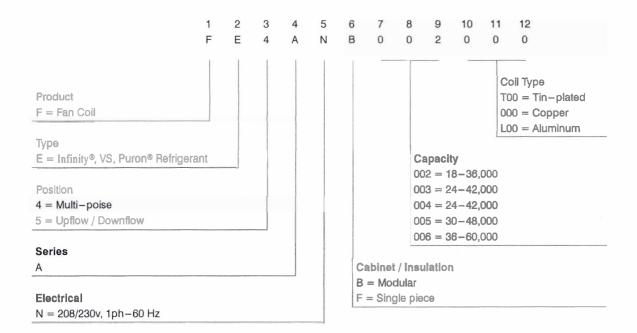
### **Controls and Electrical Features**

- · Easy plug connection provided for quick installation of accessory heater packages
- 40VA 208/230v transformer
- Replaceable 3-amp blade-type auto fuse protects against transformer secondary short

#### **Filter Features**

- · Factory supplied filter
- · Cleanable polyester filter media
- Filter "springs" out for easy access no tools required
- · Newly improved filter rack area filter door insulation added for an improved air seal

### MODEL NUMBER NOMENCLATURE











#### **DIMENSIONS**

LIAUT	CLZE	Α		В		С		D		E		H*	
UNIT	SIZE	in	mm	in	mm	in	mm	in.	mm	in	mm	in	mm
FE4A	002	42-11/16	1084	17-5/8	448	15-3/4	400	15-5/8	397	10-3/4	273	_	_
FE4A	003	53-7/16	1357	21-1/8	537	19-1/4	489	19-1/8	486	19-3/16	487	1-	_
FE4A	003*	53-7/16	1357	21-1/8	537	19-1/4	489	19-1/8	486	19-3/16	487	28-5/16	719
FE4A	005	53-7/16	1357	21-1/8	537	19-1/4	489	19-1/8	486	19-1/2	495	_	_
FE4A	005*	53-7/16	1357	21-1/8	537	19-1/4	489	19-1/8	486	19-1/2	495	28-5/16	719
FE4A	006*	59-3/16	1503	24-11/16	627	22-3/4	578	22-11/16	576	25-1/4	641	34-1/16	865
FE5A	004*	59-3/16	1503	24-11/16	627	22-3/4	578	22-11/16	576	25-1/4	641	34-1/16	865

<sup>\*</sup> Modular Cabinet

# DIMENSIONS

	2	П		ດ		COIL CONFIGU	IGURATION	SHIPPING WEIGH:
CNI	SIZE	5	mm	5	mm	Slope		lb/kg
FE4A	002	18-9/16	472	18-1/4	464	1	Yes	135 / 61
FE4A	003	26-15/16	684	27-1/2	699	Yes	1	150 / 6
FE4A	003*	26-15/16	684	27-1/2	699	Yes	1	150 / 68
FE4A	005	27-1/4	692	26-15/16	684		Yes	172/7
FE4A	005*	27-1/4	692	26-15/16	684		Yes	172/7
FE4A	*300	32-15/16	837	32-5/8	829		Yes	207/94
FE5A	004*	32-15/16	837	32-5/8	829	-	Yes	200/9

## PHYSICAL DATA

ORDERING NO.	FIELD-INSTALLED HEAT	NOMINAL COOLING CA-		DIMENSIONS		SHIPPING
ONDENING NO.	(kW)	PACITY (BTUH)	Height	Width	Depth	lb / kg
FE4ANF002000 FE4ANF002T00 FE4ANF002L00	5, 8, 9, 10, 15, 20	18,000 to 36,000	42-11/16-in10 84 mm	17-5/8-in 448 mm	22-1/16-in 560 mm	135 lb 61 kg
FE4ANF003000 FE4AN(B,F)003T00 FE4AN(B,F)003L00	5, 8, 9, 10, 15, 18, 20	24,000 to 42,000	53-7/16-in 1357 mm	21-1/8-in 537 mm	22-1/16-in 560 mm	150 lb 68 kg
FE4ANF005000 FE4AN(B,F)005T00 FE4AN(B,F)005L00	5, 8, 9, 10, 15, 18, 20, 24, 30	30,000 to 48,000	53-7/16-in 1357 mm	21-1/8-in 537 mm	22-1/16-in 560 mm	172 lb 78 kg
FE4ANB006000 FE4ANB006T00 FE4ANB006L00	8, 9, 10, 15, 18, 20, 24, 30	36,000 to 60,000	59-3/16-in 1503 mm	24-11/16-in 627 mm	22-1/16-in 560 mm	207 lb 94 kg
FE5ANB004T00 FE5ANB004L00	5, 8, 9, 10, 15, 18, 20	24,000 to 42,000	59-3/16-in 1503 mm	2411/16-in 627 mm	22-1/16-in 560 mm	200 lb 91 kg

## **SPECIFICATIONS**

		SI ECIFICAL.	LOND		
MODEL	THE RESERVE OF THE PERSON OF T	FE	4A		FE5A
SIZE	002	003	005	006	004
COIL					
Refrigerant Metering Device		Puron	® Refrigerant (R-410A)	TXV	
TXV Size	2 Ton	3 Ton	4 Ton	5 Ton	3 Ton
Configuration	A	Slope	A	Α	A
Rows—Fins/In.			3 / 14.5		,
Face Area (Sq Ft)	3.46	3.46	5.93	7.42	7.42
MATCHES OUTDOOR UNIT SI	ZES				
Nominal Cooling Tons	1.5, 2, 2.5, 3	2, 2.5, 3, 3.5	2.5, 3, 3.5, 4	3, 3.5, 4, 5	2, 2.5, 3, 3.5
FAN					
Air Discharge		Upflow, Downs	low, Horizontal		Upflow, Downflow
CFM/Ton (Nominal Clg/Htg)			350+		
Motor HP (ECM)	1/2	1/2	1/2	3/4	3/4
Filter	16-3/8-in	19-7/8-in	19-7/8-in	23-5/16-in	23-5/16-in
21-1/2-in (546 mm) x	(417 mm)	(505 mm)	(505 mm)	(592 mm)	(592 mm)
CABINET CONFIGURATION O	PTIONS				
	1-piece	1-piece / Modular	1-piece / Modular	Modular	Modular

#### AIRFLOW DELIVERY — COOLING, HEATING, ELECTRIC HEATING MODES

The FE4 and FE5A fan coils will provide airflow at a rate that is requested by the Integrated System User Interface during air conditioning or heat pump heating (without electric heat) modes. The nominal airflow for both heating and cooling modes is 350 cfm/ton nominal size of the outdoor unit installed. The airflow actually requested by the User Interface is modified by its internal algorithms for zoning, comfort or efficiency concerns. Refer to the

documentation for the User Interface for more information on how the User Interface controls the fan coil. Safe operation of electric heaters requires airflow delivery at or above the minimum CFM for electric heater application listed in the chart below. The fan coil will adjust its airflow delivery to maintain safe airflow as operating mode and staging conditions require.

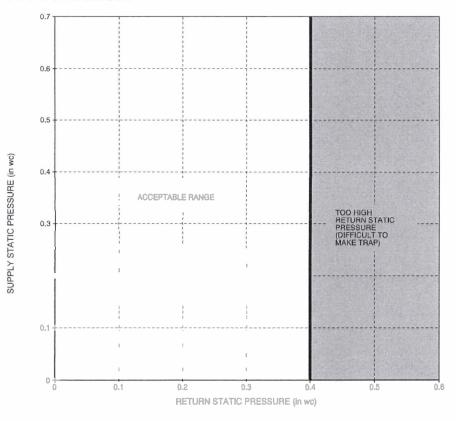
#### FE4A/FE5A FAN COIL AIRFLOW DELIVERY CHART (CFM) — ELECTRIC HEATING MODELS

MODEL FE4A	OUTDOOR UNIT CAPACITY BTUH		ELE	CTRIC H	EATER KV	V RANGE		
WODEL FE4A	OUTDOOK ONLY CAPACITY BYON	5	9	10	15	20	24	30
	EMERGENCY	625	625	675	775	950		_
	18,000	625	625	675	_	_		_
002	24,000	650	725	775	900	_	_	_
	30,000	800	875	875	925	1125	_	_
	36,000	975	975	975	1025	1125		
	EMERGENCY	675	700	775	850	1050	_	_
	24,000	675	875	875	1100	1150	_	
003	30,000	800	875	875	1100	1150	_	_
	36,000	975	975	1025	1150	1250	_	_
	42,000	1125	1125	1125	1150	1350	_	
	EMERGENCY	675	700	775	850	1050	1400	1425
	30,000	800	875	875	1100	1150	_	
005	36,000	975	975	1025	1150	1250		_
	42,000	1125	1125	1125	1150	1250		_
	48,000	1305	1305	1305	1305	1350	1500	1600
	EMERGENCY	1050	1050	1050	1050	1125	1750	1750
	36,000	1050	1050	1100	1350	1350		_
006	42,000	1125	1125	1150	1350	1350	_	_
	48,000	1300	1300	1300	1350	1500	1750	1750
	60,000	1625	1625	1625	1625	1750	1750	1750
MODEL FEEA	OUTDOOD UNIT OADAOITY BTUU		EL	ECTRIC H	EATER kW	RANGE		
MODEL FE5A	OUTDOOR UNIT CAPACITY BTUH	5	9	10	15	20	24	30
	EMERGENCY	675	775	775	900	1125	_	_
	24,000	975	975	975	_	_	_	_
004	30,000	1050	1050	1100	1125	_	_	_
	36,000	1050	1050	1100	1350	1350		-
	42,000	1125	1125	1150	1350	1350	_	_

Note 1: Emergency - Air conditioner with electric heater application, or emergency heat.

Note 2: These airflows are minimum airflows as UL listed.

Note 3: Dashed entry indicates that the heater/fan coil/outdoor unit combination is not approved. Do not apply.



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For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

#### **MINIMUM RPM TABLE**

MODEL	SYSTEM SIZES	CFM RANGE	MIN RPM
FE4ANF002	018, 024, 030, 036	150 - 1200	300
FE4AN(B,F)003	024, 030, 036, 042	200 - 1400	285
FE4AN(B,F)005	030, 036, 042, 048	250 - 1600	275
FE4ANB006	036, 042, 048, 060	500 - 2000	275
FE5ANB004	024, 030, 036, 042	500 1400	275

#### **MAXIMUM STATIC TABLE**

MODEL	AIRFLOW DELIVERY	AVAILABLE STATIC PRESSURE
	525 CFM	1.00 in wc
	700 CFM	1.00 in wc
FE4ANF002	875 CFM	1.00 in wc
	1050 CFM	0.80 in wc
	1200 CFM	0.60 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
FE4AN(B,F)003	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	0.80 in wc
	875 CFM	1.00 in wc
	1050 CFM	1.00 in wc
FE4AN(B,F)005	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc
	1600 CFM	0.50 in wc
	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
FE4ANB006	1400 CFM	1.00 in wc
	1750 CFM	1.00 in wc
	2000 CFM	0.60 in wc
	700 CFM	1.00 in wc
	875 CFM	1.00 in wc
FE5ANB004	1050 CFM	1.00 in wc
	1225 CFM	1.00 in wc
	1400 CFM	1.00 in wc

## GROSS COOLING CAPACITIES (MBTUH)

CFM	R COIL IR		35 / 2			40 / 4	IVII	PERATURE	45 / 7	LIMIO		50 / 10			55 / 13	10
	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	В
	THE STATE OF THE S	WALL TO	14/14/16	DETERMINE	F-187 11	TOTAL VI	FE	4ANF002	128 8	PRIN	Water State	7. F.	- 10	THE REAL PROPERTY.	1	
100	72/22	40.19	19.65	0.00	36.23	17.59	0.00	31.86	15.48	0.00	27.00	13.31	0.00	21.65	11.11	0.
500	67/19	32.99	19.92	0.01	28.96	17.79	0.01	24.52	15.62	0.01	19.64	13.40	0.01	14.28	11.17	0.
7	62/17	26.44	20.11	0.01	22.36	17.93	0.01	17.93	15.73	0.01	13.56	13.56	0.03	11.28	11.28	0.
770	72/22	49.76	24.23	0.00	44.85	21.76	0.00	39.40	19.20	0.00	33.36	16.55	0.01	26.66	13.83	0.
350	67/19	40.90	24.80	0.01	35.90	22.22	0.01	30.37	19.55	0.02	24.27	16.82	0.02	17.58	14.06	0.
050																
	62/17	32.84	25.24	0.02	27.75	22.56	0.02	22.25	19.85	0.02	17.13	17.13	0.06	14.25	14.25	0.
	72/22	61.99	30.08	0.00	55.87	27.15	0.00	49.04	24.04	0.01	41.48	20.80	0.02	33.10	17.46	0.
375	67/19	51.08	31.23	0.03	44.83	28.09	0.03	37.91	24.84	0.03	30.23	21.47	0.03	21.83	18.03	0.
	62/17	41.11	32.14	0.03	34.76	28.88	0.03	27.91	25.53	0.04	22.04	22.04	0.10	18.33	18.33	0.
	72/22	67.83	32.91	0.00	61.10	29.76	0.00	53.66	26.40	0.02	45.36	22.89	0.03	36.17	19.27	0.
000	67/19	55.96	34.39	0.04	49.12	31.01	0.04	41.53	27.48	0.04	33.11	23.83	0.04	23.88	20.06	0.
000						C1001001001	5-1-0-0									
	62/17	45.09	35.62	0.04	38.13	32.08	0.04	30.69	28.43	0.05	24.54	24.54	0.12	20.40	20.40	0.
	72/22	77.77	37.84	0.00	70.13	34.30	0.03	61.59	30.55	0.05	52.04	26.60	0.05	41.42	22.50	0.
250	67/19	64.36	40.02	0.06	56.52	36.24	0.06	47.77	32.27	0.06	38.04	28.12	0.06	27.46	23.81	0.
$A_{ij}^{\alpha}$	62/17	51.98	41.92	0.06	44.00	37.93	0.06	35.61	33.77	0.08	29.12	29.12	0.16	24.20	24.20	0.
	THE OWNER OF THE OWNER, THE OWNER	ALTERNATION OF THE PARTY OF THE			THE REAL PROPERTY.	DE ALE	FF	4ANF003	THE OWNER OF THE OWNER, THE OWNER			THE REAL PROPERTY.	THE PERSON	The Later Land		
	72/22	43.01	20.98	0.00	38.69	18.78	0.00	33.92	16.51	0.00	28.64	14.18	0.00	22.85	11 01	0.
				10212420	The state of the s		1-1-1-1-1-1						100000000000000000000000000000000000000		11.81	1
00	67/19	35.27	21.34	0.01	30.88	19.04	0.01	26.07	16.71	0.01	20.79	14.34	0.01	15.03	11.95	0.
	62/17	28.24	21.59	0.01	23.81	19.25	0.01	19.05	16.90	0.02	14.56	14.56	0.05	12.11	12.11	0.
	72/22	53.83	26.15	0.00	48.40	23.49	0.00	42.36	20.71	0.00	35.72	17.83	0.02	28.38	14.89	0.
800	67/19	44.23	26.92	0.02	38.71	24.10	0.02	32.61	21.20	0.03	25.91	18.24	0.03	18.65	15.26	0.
	62/17	35.47	27.49	0.03	29.87	24.58	0.03	23.89	21.65	0.03	18.67	18.67	0.09	15.51	15.51	0.
	72/22	63.07	30.60	0.00	56.66	27.57	0.00	49.58	24.36	0.02	41.76	21.04	0.03	33.10	17.62	0.
000	67/19	51.91	31.82	0.04	45.41	28.58	0.04	38.24	25.24	0.04	30.31	21.78	0.04	21.76	18.29	0.
	62/17	41.71	32.80	0.04	35.12	29.43	0.04	28.13	26.00	0.05	22.41	22.41	0.12	18.60	18.60	0.
	72/22	71.01	34.48	0.00	63.77	31.12	0.02	55.79	27.57	0.04	46.95	23.88	0.05	37.18	20.08	0.
200					100000000000000000000000000000000000000	32.59	0.02						0.06			0.
200	67/19	58.54	36.17	0.05	51.21		10000000	43.10	28.87	0.06	34.13	25.02	100000000000000000000000000000000000000	24.47	21.08	
	62/17	47.12	37.60	0.06	39.70	33.86	0.06	31.89	30.00	0.07	25.83	25.83	0.15	21.43	21.43	0.
	72/22	77.95	37.95	0.01	70.07	34.31	0.04	61.29	30.47	0.06	51.54	26.47	0.06	40.78	22.33	0.
400	67/19	64.44	40.15	0.07	56.37	36.28	0.07	47.43	32.24	0.07	37.54	28.04	0.07	26.89	23.69	0.
	62/17	51.95	42.08	0.07	43.78	37.99	0.08	35.30	33.73	0.09	28.95	28.95	0.19	24.01	24.01	0
	02/11	01100	12.00	0.01	10.70	01100		5ANB004	00.10	0.00	20.00	Loico	0110	2.1101	2 110 1	
	70/00	40.40	10.04	0.00	26 50	17.00			15.70	0.00	27.64	13.54	0.00	22.39	11.22	0.
27 1	72/22	40.42	19.84	0.00	36.59	17.80	0.00	32.35	15.70	1	27.64				11.33	
00	67/19	33.22	20.00	0.00	29.31	17.90	0.00	24.99	15.74	0.00	20.19	13.53	0.00	14.87	11.27	0.
	62/17	26.67	20.11	0.00	22.69	17.95	0.00	18.31	15.75	0.00	13.60	13.54	0.00	11.29	11.29	0.
	72/22	52.07	25.46	0.00	47.19	22.92	0.00	41.75	20.28	0.00	35.66	17.53	0.00	28.84	14.70	0.
00	67/19	42.88	25.89	0.00	37.88	23.24	0.00	32.31	20.49	0.00	26.10	17.66	0.00	19.18	14.75	0
00							The state of the s			0.00			0.01	14.85		
117	62/17	34.51	26.21	0.00	29.39	23.46	0.00	23.73	20.64		17.81	17.81			14.85	0
100	72/22	62.54	30.48	0.00	56.75	27.53	0.00	50.25	24.45	0.00	42.94	21.21	0.00	34.73	17.84	0
000	67/19	51.63	31.28	0.00	45.66	28.17	0.01	38.98	24.93	0.01	31.49	21.55	0.01	23.12	18.06	0
TE I	62/17	41.65	31.91	0.01	35.51	28.66	0.01	28.71	25.30	0.01	21.89	21.89	0.03	18.26	18.26	0.
	72/22	71.89	34.94	0.00	65.33	31.70	0.00	57.89	28.24	0.00	49.50	24.59	0.00	40.06	20.76	0.
000						1		1								
200	67/19	59.49	36.20	0.01	52.68	32.73	0.01	45.02	29.06	0.01	36.39	25.22	0.01	26.71	21.21	0
200	62/17	48.10	37.22	0.01	41.07	33.55	0.01	33.27	29.72	0.01	25.77	25.77	0.05	21.51	21.51	0
	72/22	80.24	38.94	0.00	73.00	35.45	0.00	64.73	31.69	0.00	55.41	27.69	0.01	44.86	23.46	0.
	07/10						0.01	50.47	32.91	0.02	40.84	28.66	0.00	29.98		
400	6//19	66.53		0.01	58.99	36.93							0.02		24.20	0
400	67/19	66.53 53.91	40.71	0.01	58.99 46.10	36.93	0.02	37 43				-	0.02		24.20	
100	67/19	66.53 53.91		0.01	58.99 46.10	36.93 38.14	0.02	37.43	33.92	0.02	29.46	29.46	0.02	24.60	24.20 24.60	
400	62/17	53.91	40.71 42.17	0.02	46.10	38.14	FE	4ANF005	33.92	0.02	29.46	29.46	0.07	24.60	24.60	0.
-	62/17 72/22	53.91 57.24	40.71 42.17 28.01	0.02	46.10 51.64	38.14 25.08	0.00	4ANF005 45.46	33.92 22.08	0.02	29.46 38.59	29.46 19.00	0.07	24.60 30.99	24.60 15.85	0.
	62/17 72/22 67/19	53.91 57.24 46.98	40.71 42.17 28.01 28.35	0.02 0.00 0.00	46.10 51.64 41.29	38.14 25.08 25.33	0.00 0.00	45.46 35.01	33.92 22.08 22.24	0.02 0.00 0.00	29.46 38.59 28.09	29.46 19.00 19.09	0.07 0.00 0.00	24.60 30.99 20.47	24.60 15.85 15.90	0.
	62/17 72/22 67/19 62/17	53.91 57.24	40.71 42.17 28.01 28.35 28.59	0.02	46.10 51.64 41.29 31.89	38.14 25.08 25.33 25.50	0.00	45.46 35.01 25.61	33.92 22.08	0.02	29.46 38.59 28.09 19.28	19.00 19.09 19.28	0.07 0.00 0.00 0.02	30.99 20.47 16.05	15.85 15.90 16.05	0.
-	62/17 72/22 67/19	53.91 57.24 46.98	40.71 42.17 28.01 28.35	0.02 0.00 0.00	46.10 51.64 41.29	38.14 25.08 25.33	0.00 0.00	45.46 35.01	33.92 22.08 22.24	0.02 0.00 0.00	29.46 38.59 28.09	29.46 19.00 19.09	0.07 0.00 0.00	24.60 30.99 20.47	24.60 15.85 15.90	0.0
50	62/17 72/22 67/19 62/17	53.91 57.24 46.98 37.67	40.71 42.17 28.01 28.35 28.59	0.02 0.00 0.00 0.01	46.10 51.64 41.29 31.89	38.14 25.08 25.33 25.50	0.00 0.00 0.01	45.46 35.01 25.61	33.92 22.08 22.24 22.37	0.02 0.00 0.00 0.01	29.46 38.59 28.09 19.28	19.00 19.09 19.28	0.07 0.00 0.00 0.02	30.99 20.47 16.05	15.85 15.90 16.05	0.00
50	62/17 72/22 67/19 62/17 72/22 67/19	57.24 46.98 37.67 69.68 57.29	28.01 28.35 28.59 33.97 34.68	0.02 0.00 0.00 0.01 0.00 0.01	46.10 51.64 41.29 31.89 62.89 50.33	38.14 25.08 25.33 25.50 30.52 31.06	0.00 0.00 0.01 0.00 0.01	45.46 35.01 25.61 55.32 42.64	22.08 22.24 22.37 26.92 27.33	0.02 0.00 0.00 0.01 0.00 0.01	29.46 38.59 28.09 19.28 46.89 34.14	29.46 19.00 19.09 19.28 23.21 23.51	0.07 0.00 0.00 0.02 0.00 0.01	30.99 20.47 16.05 37.57 24.80	15.85 15.90 16.05 19.40 19.63	0.000
50	62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91 57.24 46.98 37.67 69.68 57.29 45.99	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21	0.02 0.00 0.00 0.01 0.00 0.01 0.01	46.10 51.64 41.29 31.89 62.89 50.33 38.92	38.14 25.08 25.33 25.50 30.52 31.06 31.47	0.00 0.00 0.01 0.00 0.01 0.01	45.46 35.01 25.61 55.32 42.64 31.24	22.08 22.24 22.37 26.92 27.33 27.68	0.02 0.00 0.00 0.01 0.00 0.01 0.01	29.46 38.59 28.09 19.28 46.89 34.14 23.90	19.00 19.09 19.28 23.21 23.51 23.90	0.07 0.00 0.00 0.02 0.00 0.01 0.04	30.99 20.47 16.05 37.57 24.80 19.89	15.85 15.90 16.05 19.40 19.63 19.89	0.000
50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40	0.00 0.00 0.01 0.00 0.01 0.01 0.00	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17	22.08 22.24 22.37 26.92 27.33 27.68 31.32	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01	30.99 20.47 16.05 37.57 24.80 19.89 43.48	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66	0. 0. 0. 0. 0. 0.
50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34	0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02	30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15	0.0000000000000000000000000000000000000
50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40	0.00 0.00 0.01 0.00 0.01 0.01 0.00	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17	22.08 22.24 22.37 26.92 27.33 27.68 31.32	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01	30.99 20.47 16.05 37.57 24.80 19.89 43.48	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66	0.0000000000000000000000000000000000000
50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34	0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02	30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15	0.0000000000000000000000000000000000000
50 50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.00	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83	0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.02	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78	0. 0. 0. 0. 0. 0. 0. 0.
50 50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02 0.02 0.02 0.03	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58	0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53	0.02 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02 0.02 0.02 0.01 0.03	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83	0. 0. 0. 0. 0. 0. 0. 0. 0.
750 950	62/17 72/22 67/19 62/17 72/29 62/17 72/29 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.02 0.00 0.03	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02	25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04	0.00 0.00 0.01 0.01 0.01 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80	0.02 0.00 0.00 0.01 0.01 0.01 0.02 0.02 0.02 0.01 0.03 0.04	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34	0 0 0 0 0 0 0 0 0 0
50 50 150	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.02 0.00 0.03 0.03	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04	0.00 0.00 0.01 0.01 0.01 0.01 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.02 0.01 0.03 0.04	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
50 50 50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12	0.02 0.00 0.00 0.01 0.01 0.00 0.02 0.02 0.00 0.03 0.03	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80	0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40	0.02 0.00 0.00 0.01 0.01 0.00 0.02 0.02 0.01 0.03 0.04	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34 30.42 31.83	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
50 50 50 50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.02 0.00 0.03 0.03	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.02 0.01 0.03 0.04	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
50 50 50 50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92	0.02 0.00 0.00 0.01 0.01 0.00 0.02 0.02 0.00 0.03 0.03	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40	0.02 0.00 0.00 0.01 0.01 0.00 0.02 0.02 0.01 0.03 0.04	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34 30.42 31.83	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
50 50 50 50	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92	0.02 0.00 0.00 0.01 0.01 0.00 0.02 0.02 0.00 0.03 0.03	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40	0.02 0.00 0.00 0.01 0.01 0.00 0.02 0.02 0.01 0.03 0.04	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34 30.42 31.83	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
550 550 150 5600	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38 70.60	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02 0.00 0.03 0.03 0.00 0.04 0.04	51.64 41.29 31.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87	25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32 4ANB006 60.76	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08	0.02 0.00 0.00 0.01 0.00 0.02 0.02 0.01 0.03 0.04 0.05	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96	0.07 0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10 0.03 0.04 0.13	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34 30.42 31.83 32.40	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
50 50 50 50 700	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38 70.60 76.01 62.63	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17	0.02 0.00 0.00 0.01 0.01 0.01 0.00 0.02 0.02 0.00 0.03 0.03 0.00 0.04 0.04	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74	0.00 0.00 0.01 0.01 0.01 0.02 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32 4ANB006 60.76 46.97	22.08 22.24 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08	0.02 0.00 0.00 0.01 0.01 0.01 0.02 0.02 0.01 0.03 0.04 0.03 0.04 0.05	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72 37.78	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96	0.07 0.00 0.00 0.00 0.02 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10 0.03 0.04 0.13	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 27.78 28.83 29.34 30.42 31.83 32.40 21.42 21.64	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
50 50 50 50 700	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38 70.60 76.01 62.63 50.40	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17	0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.00 0.03 0.03 0.00 0.04 0.04	46.10 51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87 68.82 55.22 42.81	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.00 0.03 0.03 0.01 0.04 0.04 0.04	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 4ANB006 60.76 46.97 34.49	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08	0.02 0.00 0.00 0.01 0.01 0.01 0.02 0.02 0.01 0.03 0.04 0.03 0.04 0.05	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72 37.78 26.28	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96 25.55 25.89 26.28	0.07  0.00 0.00 0.02 0.00 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10 0.03 0.04 0.13	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40 41.64 27.60 21.90	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 27.78 28.83 29.34 30.42 31.83 32.40 21.42 21.64 21.90	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
500 500 500 500 500 500	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91 57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38 70.60 76.01 62.63 50.40 89.66	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17 37.07 37.07 37.91 38.54	0.02 0.00 0.00 0.01 0.01 0.02 0.02 0.02 0.03 0.03 0.03 0.04 0.04 0.04	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87 68.82 55.22 42.81	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74 33.39 34.04 34.53	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32 4ANB006 60.76 46.97 34.49 71.77	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08	0.02 0.00 0.00 0.01 0.01 0.02 0.02 0.01 0.03 0.04 0.03 0.04 0.05	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72 37.78 26.28 61.13	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96 25.55 25.89 26.28	0.07 0.00 0.00 0.02 0.01 0.04 0.01 0.02 0.07 0.02 0.03 0.10 0.03 0.04 0.13	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40 41.64 27.60 21.90 49.17	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34 30.42 31.83 32.40 21.42 21.64 21.90 25.55	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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750 750 750 750 750 750	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91  57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38 70.60  76.01 62.63 50.40 89.66 74.04 59.73 110.09 91.28 73.94 121.19 100.75	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17 37.07 37.91 38.54 43.58 45.04 46.18 53.41 56.16 58.45 58.89 62.56	0.02 0.00 0.00 0.01 0.00 0.02 0.02 0.00 0.03 0.03 0.00 0.04 0.04 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.02	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87 68.82 55.22 42.81 81.26 65.36 50.78 99.92 80.74 63.04 110.14 89.24	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74 33.39 34.04 34.53 39.43 40.60 41.52 48.60 45.29 46.96 50.99	0.00 0.00 0.01 0.00 0.01 0.00 0.03 0.03	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32 4ANB006 60.76 46.97 34.49 71.77 55.62 40.97 88.41 68.83 51.08 97.57 76.15	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08 29.56 30.03 30.41 35.02 35.94 36.70 43.46 45.42 47.08 48.25 51.01	0.02 0.00 0.00 0.01 0.01 0.02 0.02 0.01 0.03 0.04 0.05 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.03 0.04 0.05	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72 37.78 26.28 61.13 44.72 31.77 75.38 40.82 83.25 61.30	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96 25.55 25.89 26.28 30.39 31.09 31.77 37.95 39.55 40.82 42.30 44.63	0.07  0.00 0.00 0.00 0.01 0.04 0.01 0.02 0.03 0.10 0.03 0.04 0.13  0.00 0.01 0.06 0.02 0.03 0.10 0.03 0.00 0.01 0.03 0.00 0.01 0.06	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40 41.64 27.60 21.90 49.17 32.62 26.48 60.66 40.35 34.04 67.02 44.72	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 27.78 28.83 29.34 30.42 31.83 32.40 21.42 21.64 21.90 25.55 26.09 26.48 32.13 33.42 34.04 35.98 37.88	0.000000000000000000000000000000000000
750 750 750 750 750 750	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91  57.24  46.98  37.67  69.68  57.29  45.99  80.80  66.56  53.51  97.47  80.52  64.96  105.61  87.38  70.60  76.01  62.63  50.40  89.66  74.04  59.73  110.09  91.28  73.94  121.19  100.75  81.81	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17 37.07 37.07 37.91 38.54 43.58 45.04 46.18 53.41 56.16 58.45 58.89 62.56 65.71	0.02 0.00 0.00 0.01 0.00 0.02 0.02 0.00 0.03 0.00 0.04 0.04 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87 68.82 55.22 42.81 81.26 65.36 50.78 99.92 80.74 63.04 110.14 89.24 69.88	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74 33.39 34.04 34.53 39.43 40.60 41.52 48.64 50.96 50.91 50.99 59.72	0.00 0.00 0.01 0.00 0.01 0.00 0.02 0.02	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32 4ANB006 60.76 46.97 34.49 71.77 55.62 40.97 88.41 68.83 51.08 97.57 76.15 56.88	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08 29.56 30.03 30.41 35.02 35.94 36.70 43.46 45.42 47.08 48.25 51.01 53.37	0.02 0.00 0.01 0.00 0.01 0.02 0.02 0.01 0.03 0.04 0.05 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72 37.78 26.28 61.13 44.72 31.77 75.38 55.35 40.82 83.25 61.30 46.27	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96 25.58 26.28 30.39 31.09 31.77 37.95 39.55 40.82 42.30 44.63 46.27	0.07 0.00 0.00 0.00 0.01 0.04 0.01 0.02 0.03 0.10 0.03 0.04 0.13 0.00 0.01 0.06 0.02 0.03 0.10 0.03 0.04 0.13	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40 41.64 27.60 21.90 49.17 32.62 26.48 60.66 40.35 40.40 47.02 44.72 38.60	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 23.51 27.78 28.83 29.34 30.42 31.83 32.40 21.42 21.64 21.90 25.55 26.09 26.48 32.13 33.42 33.42 35.98 37.88 38.60	0.000000000000000000000000000000000000
400 950 1150 500 700 300 750 200	62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17 72/22 67/19 62/17	53.91  57.24 46.98 37.67 69.68 57.29 45.99 80.80 66.56 53.51 97.47 80.52 64.96 105.61 87.38 70.60  76.01 62.63 50.40 89.66 74.04 59.73 110.09 91.28 73.94 121.19 100.75	40.71 42.17 28.01 28.35 28.59 33.97 34.68 35.21 39.28 40.46 41.36 47.29 49.40 51.12 51.26 53.92 56.17 37.07 37.91 38.54 43.58 45.04 46.18 53.41 56.16 58.45 58.89 62.56	0.02 0.00 0.00 0.01 0.00 0.02 0.02 0.00 0.03 0.03 0.00 0.04 0.04 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.02	51.64 41.29 31.89 62.89 50.33 38.92 72.96 58.50 45.29 88.05 70.85 55.02 95.43 76.93 59.87 68.82 55.22 42.81 81.26 65.36 50.78 99.92 80.74 63.04 110.14 89.24	38.14 25.08 25.33 25.50 30.52 31.06 31.47 35.40 36.34 37.07 42.83 44.58 46.04 46.52 48.80 50.74 33.39 34.04 34.53 39.43 40.60 41.52 48.60 45.29 46.96 50.99	0.00 0.00 0.01 0.00 0.01 0.00 0.03 0.03	4ANF005 45.46 35.01 25.61 55.32 42.64 31.24 64.17 49.54 36.38 77.49 60.01 44.30 84.03 65.20 48.32 4ANB006 60.76 46.97 34.49 71.77 55.62 40.97 88.41 68.83 51.08 97.57 76.15	22.08 22.24 22.37 26.92 27.33 27.68 31.32 32.05 32.70 38.05 39.53 40.80 41.43 43.40 45.08 29.56 30.03 30.41 35.02 35.94 36.70 43.46 45.42 47.08 48.25 51.01	0.02 0.00 0.00 0.01 0.01 0.02 0.02 0.01 0.03 0.04 0.05 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.03 0.04 0.05	29.46 38.59 28.09 19.28 46.89 34.14 23.90 54.37 39.60 28.26 65.68 47.89 35.27 71.21 52.01 38.96 51.72 37.78 26.28 61.13 44.72 31.77 75.38 40.82 83.25 61.30	29.46 19.00 19.09 19.28 23.21 23.51 23.90 27.06 27.64 28.26 33.04 34.25 35.27 36.06 37.70 38.96 25.55 25.89 26.28 30.39 31.09 31.77 37.95 39.55 40.82 42.30 44.63	0.07  0.00 0.00 0.00 0.01 0.04 0.01 0.02 0.03 0.10 0.03 0.04 0.13  0.00 0.01 0.06 0.02 0.03 0.10 0.03 0.00 0.01 0.03 0.00 0.01 0.06	24.60 30.99 20.47 16.05 37.57 24.80 19.89 43.48 28.70 23.51 52.41 34.64 29.34 56.82 37.60 32.40 41.64 27.60 21.90 49.17 32.62 26.48 60.66 40.35 34.04 67.02 44.72	24.60 15.85 15.90 16.05 19.40 19.63 19.89 22.66 23.15 27.78 28.83 29.34 30.42 31.83 32.40 21.42 21.64 21.90 25.55 26.09 26.48 32.13 33.42 34.04 35.98 37.88	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0

" SHC - Gross Sensible Capacity 1000 Btuh BF - Bypass Factor

NOTES:

 Contact manufacturer for cooling capacities at conditions other than shown in table.

2. Formulas:

Leaving db = entering db -sensible heat cap. 1.09 x CFM

Leaving wb = wb corresponding to enthalpy of air leaving coil (h<sub>lwb</sub>)

h<sub>twb</sub> = h<sub>ewb</sub> -total capacity (Btuh)

4.5 x CFM

where hewb = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.

3. SHC is based on 80°F db temperature of air entering coil. Below 80°F db, subtract (Correction Factor x CFM) from SHC. Above 80°F db, add (Correction Factor x CFM) to

Bypass Factor = 0 indicates no psychometric solution.
 Use bypass factor of next lower EWB for approximation.

#### SHC CORRECTION FACTOR

	ENTE	RING A	IR DRY	-BULB	TEMPE	RATURE (°F)					
BYPASS	79	78	77	76	75	Under 75					
<b>FACTOR</b>	81	82	83	84	85	Over 85					
	Correction Factor										
0.10	.098	1.96	2.94	3.92	4.91	Use formula					
0.20	0.87	1.74	2.62	3.49	4.36	shown					
0.30	0.76	1.53	2.29	3.05	3.82	below					

Interpolation is permissible.

MBH - 1000 Btuh

Correction Factor =  $1.09 \times (1 - BF) \times (db - 80)$ 

#### ESTIMATED SOUND POWER LEVEL (dRA)

MODEL	CONDI	TIONS			OCTAVE	BAND CENTE	R FREQUENC	Υ	
SIZE	CFM	ESP	63	125	250	500	1000	2000	4000
	400	0.25	61.0	57.0	55.0	50.0	48.0	46.0	42.0
	600	0.25	62.7	58.7	56.7	51.7	49.7	47.7	43.7
EE44NE000	800	0.25	64.0	60.0	58.0	53.0	51.0	49.0	45.0
FE4ANF002	1000	0.25	65.0	61.0	57.0	56.0	52.0	50.0	46.0
	1200	0.25	65.8	61.8	57.8	56.8	52.8	50.8	46.8
	1400	0.25	66.4	62.4	58.4	57.4	53.4	51.4	47.4
	400	0.25	61.0	57.0	55.0	50.0	48.0	46.0	42.0
	600	0.25	62.7	58.7	56.7	51.7	49.7	47.7	43.7
	800	0.25	64.0	60.0	58.0	53.0	51.0	49.0	45.0
FE4ANF003	1000	0.25	65.0	61.0	59.0	54.0	52.0	50.0	46.0
	1200	0.25	65.8	61.8	59.8	54.8	52.8	50.8	46.8
	1400	0.25	66.4	62.4	58.4	57.4	53.4	51.4	47.4
	1600	0.25	67.0	63.0	59.0	58.0	54.0	52.0	48.0
	600	0.25	62.7	58.7	56.7	51.7	49.7	47.7	43.7
	800	0.25	64.0	60.0	58.0	53.0	51.0	49.0	45.0
FE5ANB004	1000	0.25	65.0	61.0	59.0	54.0	52.0	50.0	46.0
FE5ANB004	1200	0.25	65.8	61.8	59.8	54.8	52.8	50.8	46.8
	1400	0.25	66.4	62.4	60.4	55.4	53.4	51.4	47.4
	1600	0.25	67.0	63.0	61.0	56.0	54.0	52.0	48.0
	400	0.25	61.0	57.0	55.0	50.0	48.0	46.0	42.0
	600	0.25	62.7	58.7	56.7	51.7	49.7	47.7	43.7
	800	0.25	64.0	60.0	58.0	53.0	51.0	49.0	45.0
FE4ANF005	1000	0.25	65.0	61.0	59.0	54.0	52.0	50.0	46.0
	1200	0.25	65.8	61.8	59.8	54.8	52.8	50.8	46.8
	1400	0.25	66.4	62.4	58.4	57.4	53.4	51.4	47.4
	1600	0.25	67.0	63.0	59.0	58.0	54.0	52.0	48.0
	600	0.25	62.7	58.7	56.7	51.7	49.7	47.7	43.7
	800	0.25	64.0	60.0	58.0	53.0	51.0	49.0	45.0
	1000	0.25	65.0	61.0	59.0	54.0	52.0	50.0	46.0
	1200	0.25	65.8	61.8	59.8	54.8	52.8	50.8	46.8
FE4ANB006	1400	0.25	66.4	62.4	60.4	55.4	53.4	51.4	47.4
	1600	0.25	67.0	63.0	61.0	56.0	54.0	52.0	48.0
	1800	0.25	67.5	63.5	59.5	58.5	54.5	52.5	48.5
	2000	0.25	68.0	64.0	60.0	59.0	55.0	53.0	49.0
	2150	0.25	68.3	64.3	60.3	59.3	55.3	53.3	49.3

<sup>\*</sup>Est, sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, chapter 52, p. 52.7.

#### AIRFLOW PERFORMANCE CORRECTION FACTORS

HEATED ION	FLEMENTO	STATIC PRESSURE C	ORRECTION (In wc)
0 5 8, 10	ELEMENTS	Sizes 002-005	Size 006
0	0	+.02	+.03
5	1	+.01	+.02
8, 10	2	0	0
9, 15	3	02	03
20	4	04	06
18, 24, 30	6	06	10

The FE4A airflow performance table was developed using fan coils with 10kW electric heaters (2 elements) in the units. For fan coils with heaters made up of a different number of elements, the external available static at a given CFM from the table may be corrected by adding or subtracting pressure. Use table for this correction.

## FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

						. ,			
MODEL					CFM				
FE4A	400	600	800	1000	1200	1400	1600	1800	2000
002	0.020	0.044	0.048	0.072	0.100	_	_	_	_
003	_	0.020	0.035	0.051	0.070	0.092	_	_	_
005	_	_	0.035	0.051	0.070	0.092	0.120	_	_
006	_	_	_	0.038	0.053	0.070	0.086	0.105	0.133
MODEL					CFM				
FE5A	400	600	800	1000	1200	1400	1600	1800	2000
004	_	0.015	0.026	0.038	0.053	0.070	_	_	

# AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc) AT INDICATED AIRFLOW (DRY TO WET COIL)

MODEL						CFM								
FE4A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600			
002	0.012	0.016	0.022	0.028	0.034	0.040	0.049	_		_	_			
003	_	0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110			
005	_	0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030			
	CFM													
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100			
006	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048			
MODEL	CFM													
FE5A	600	700	800	900	1000	1100	1200	1300	1400	1500	1600			
004	0.004	0.005	0.007	0.009	0.011	0.013	0.016	0.018	0.020	0.023	_			

NOTE: Subtract the above pressure drop corrections from unit airflow data when that component or condition is used. The remaining external static pressure will be available for the duct system.

#### UNITS WITHOUT ELECTRIC HEAT

UNIT SIZE	VOLTS-PHASE	FLA	MIN CKT AMPS	BRANCH CIRCUIT					
ONIT SIZE	VOLIS-PHASE	FLA	MIN CKI AMPS	Min Wire Size Awg*	Fuse/Ckt Bkr Amps				
002	208/230-1	4.3	5.4	14	15				
003	208/230-1	4.3	5.4	14	15				
005	208/230-1	4.3	5.4	14	15				
004, 006	208/230-1	6.8	8.5	14	15				

Use copper wire only to connect unit. If other than uncoated (non-plated) 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used consult applicable tables of the National Electric Code (ANSI/NFPA 70).

NOTE: If branch circuit wire length exceeds 100 ft / 30.5 m, consult NEC 210-19a to determine maximum wire length. Use 2% voltage drop. FLA — Full Load Amps

#### ACCESSORY ELECTRIC HEATERS

HEATER PART NO.	kW @ 240V	VOLTS/ PHASE	STAGES (kW OPERATING)	INTERNAL CIRCUIT PROTECTION	FAN COIL SIZE USED WITH	HEATING CAP. @ 230V‡	INTELLIGENT HEAT CAPABLE (kW OPERATING)
KFCEH0501N05	5	230/1	5	None	All	15,700	_
KFCEH0901N10	10	230/1	10	None	All	31,400	_
KFCEH3001F15	15	230/1	5, 15	Fuses**	All	47,100	5, 10, 15
KFCEH3201F20	20	230/1	5, 20	Fuses**	All	62,800	5, 10, 15, 20
KFCEH2901N09	9	230/1*	3, 9	None	All	28,300	3, 6, 9
KFCEH1601315	15	230/3	5, 15	None	All	47,100	_
KFCEH3401F24	24	230/3†	8, 16, 24	Fuses	005, 006	78,500	8, 16, 24
KFCEH3501F30	30	230/3†	10, 20, 30	Fuses	005, 006	94,200	10, 20, 30
KFCEH2401C05	5	230/1	5	Ckt Bkr	All	15,700	_
KFCEH2601C10	10	230/1	10	Ckt Bkr	All	31,400	_
KFCEH3101C15	15	230/1	5, 15	Ckt Bkr	All	47,100	5, 10, 15
KFCEH3301C20	20	230/1	5, 20	Ckt Bkr	All	62,800	5, 10, 15, 20

Field convertible to 3 phase.

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#### ELECTRIC HEATER INTERNAL PROTECTION

HEATER KW	PHASE	FUSES QTY / SIZE	CKT BKR QTY / SIZE*
5	1	_	1/60
8	1	Date Services	1/60
9	1/3		
10	1	_	1/60
15	1	2/30, 2/60	2/60
15	3	_	_
18	3		_
20	1	4/60	2/60
24	3/1	6/60	
30	3/1	6/60	_

All circuit breakers are 2 pole.



<sup>†</sup> These heaters field convertible to single phase.

<sup>\*\*</sup> Single point wiring kit required for these heaters in Canada.

<sup>#</sup> Blower motor heat not included.

## ACCESSORY ELECTRIC HEATER ELECTRICAL DATA

	kW H		p	INTERNAL		EATER AMPS		20						BRANCH	CIRCUIT							
HEATER PART NO.			kW H			208/230V			Min Ampacity 208/230V**			Vire Size (A 208/230V††			Gnd Wire S 208/230V	ize		se/Ckt Bkr 208/230V	Amps		Wire Leng 8/230V (ft)‡	
TAIT NO.			S	PROTEC- TION	Single	Dual	Circuit	Single	Dual	Circuit	Single	Dual	Circuit	Single	Dual (	Circuit	Single	Dual	Circuit	Single	Dual	Circuit
	240v	208v			Circuit	L1.L2	L3,L4	Circuit	L1,L2	L3,L4	Circuit	L1.L2	L3,L4	Circuit	L1,L2	L3,L4	Circuit	L1,L2	L3,L4	Circuit	L1,L2	L3,L4
KFCEH0501N05	5	3.8	1	None	18.1/20.0	_	_	31.2/33.5	_	-	8/8	-	_	10/10	_	-	35/35	-	-	85/88	1_	_
KFCEH2401C05	5	3.8	1	Ckt Bkr	18.1/20.0	-	-	31.2/33.5	_	-	8/8	-	-	10/10	_	-	35/35	_	-	85/88	_	-
KFCEH0801N08	8	6.0	1	None	28.9/32.0	-	-	44.7/48.5	-	_	8/8	-		10/10	_	_	45/50	_	_	59/60	_	-
KFCEH2501C08	8	6.0	1.	Ckt Bkr	28.9/32.0	-	-	44.7/48.5	_	_	8/8	_	_	10/10	_	_	45/50	-	-	59/60	_	-
KFCEH2901N09*	9	6.8	1	None	32.8/36.0	_	-	49,5/53.5	_	_	8/6	_	-	10/10	_	_	50/60	_	_	54/87	_	-
KFCEH2901N09*‡	9	6.8	3	None	18.8/20.8	_	_	32.0/34.5	_	-	8/8	_	-	10/10	_	_	35/35	_	_	83/85	_	-
KFCEH0901N10	10	7.5	1	None	36.2/40.0	_	_	53.8/58.5	_	-	6/6	_	-	10/10	_	_	60/60	_	_	78/80	_	-
KFCEH2601C10	10	7.5	1	Ckt Bkr	36.2/40.0	_	_	53.8/58.5	_	_	6/6	_	-	10/10	_	_	60/60	_	_	78/80		-
KFCEH3001F15*1	15	11.3	1	Fuse	54.2/59.9	36.2/40.0	18.1/20.0	76.3/83.4	53.8/58.5	22.7/25.0	4/4	6/6	10/10	8/8	10/10	10/10	80/90	60/60	25/25	88/89	78/80	75/76
KFCEH3101C15*	15	11,3	1	Ckt Bkr	_	36,2/40.0	18.1/20.0	_	53.8/58.5	22.7/25.0	_	6/6	10/10	-	10/10	10/10	-	60/60	25/25	-	78/80	75/76
KFCEH1801315	15	11,3	3	None	31,3/34.6		_	47.7/51.8	_		8/6		-	10/10	-	-	50/60	-	20/20	56/90	76/60	-
KFCEH2001318	18	13.5	3	None	37.6/41.5		_	55,5/60,4	-	_	6/6	_	-	10/8	_	_	60/70	_	_	76/77		-
KFCEH3201F20*1	20	15.0	1	Fuse	72.3/79.9	36,2/40.0	36,2/40.0	98.9/108.4	53.8/58.5	45.3/50.0	3/2	6/6	8/8	8/6	10/10	10/10	100/110	60/60	50/50	15,945.4	78/80	-
KFCEH3301C20*	20	15.0	1	Ckt Bkr	-	36,2/40.0	36,2/40.0	50.5/100.4	53.8/58.5	45.3/50.0	-	6/6	8/8	0/0	10/10	10/10				85/109	,	59/59
	24	18.0	3	Fuse	50.1/55.4	-	-	71,2/77.8	33,0/30,3		4/4		1.57.5				-	60/60	50/50	_	78/80	59/59
KFCEH3401F24*†	24	18.0	1	Fuse	86.7/95.5			116.9/127.9		-			-	8/8		-	80/80	-	-	94/95		-
	30	22.5	2	Fuse	62.6/69.2				-	-	1/1	_	_	6/6	_	_	125/150	-	-	115/116	1-1	_
KFCEH3501F30*†			3			_	_	86.8/95,0	-	_	3/3	_	-	8/8	-	-	90/100	-	_	97/98	-	_
	30	22.5	1	Fuse	109.0/120.0	_	_	144.8/158.5	-	-	0/00	-	-	6/6	_	-	150/175	-	mark.	117/150	-	_

## FIELD MULTIPOINT WIRING OF 24-AND 30-kW SINGLE PHASE

HEATER PART NO.	kW		PHAs	HEATER AMPS 208/230V		MIN AMPACITY 208/230V**		MIN WIRE SIZE (AWG) 208/230V††		MIN GND WIRE SIZE	MAX FUSE/CKT BKR AMPS 208/230V		MAX WIRE LENGTH 208/230V (FT)##						
	240V	208V	E	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	208/230V	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6
KFCEH3401F24*†	24	18.0	1	28.9/32.0	28.9/32.0	28.9/32.0	44.7/48.5	36.2/40.0	36.2/40.0	8/8	8/8	8/8	10/10	45/50	40/40	40/40	59/60	73/73	73/73
KFCEH3501F30+	30	22.5	1	36.2/40.0	36.2/40.0	36.2/40.0	53.8/58.5	45.3/50.0	45.3/50.0	6/6	8/8	8/8	10/10	60/60	50/50	50/50	78/80	59/59	59/59

- \* Heaters are intelligent Heat capable when used with the FE fan coil and Comfort Zone II™ or Infinity Control™.
- † Field convertible to 1 phase, single or multiple supply circuit.
- ‡ Field convertible to 3 phase.
- \*\* Includes blower motor amps of largest fan coil used with heater.
- th Copper wire must be used. If other than uncoated (non-plated), 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the National Electric Code (ANSI/NFPA 70).
- ‡‡ Length shown is as measured 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%. NOTES:
- 1. Single circuit application of F15 and F20 heaters requires single-point wiring kit accessory.

## **ACCESSORIES**

## REQUIRED ACCESSORY

	ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
	Infinity® Touch Control with Integrated Wi-Fi	SYSTXCCITC01	All
	or		
1.	Infinity® Touch Control Wi-Fi with bundled router	SYSTXCCITW01	All
	or		
	Infinity® Touch Control	SYSTXCCITN01	All

## ADDITIONAL ACCESSORIES

	ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
2.	Infinity® Series 4 Zone Board	SYSTXCC4ZC01	All
3.	Infinity® Series Smart Sensor	SYSTXCCSMS01-A	All
4.	Infinity® Remote Room Sensor	SYSTXCCRRS01	All
5.	Infinity® Series Network Interface Module	SYSTXCCNIM01	All
6.	Disconnect Kit	KFADK0201DSC	Cooling controls and heaters 3- through 10-kW
		KFACB0201CFB	002
7.	Downflow Base Kit	KFACB0301CFB	003, 005
		KFACB0401CFB	004, 006
0	Downflow Conversion Kit	KFADC0201SLP	003
8.	Downflow Conversion Kit	KFADC0401ACL	002, 004, 005, 006
9.	Single-Point Wiring Kit	KFASP0101SPK	Only with 15- and 20-kW Fused Heaters
		KFAFK0212MED	002
10.	Filter Kit (12 Pack)	KFAFK0312LRG	003, 005
		KFAFK0412XXL	004, 006
		FNCCABCC0017	002
11.	Filter Media Cabinet	FNCCABCC0021	003, 005
	4 0	FNCCABCC0024	004, 006
- 25 1		FILCCFNC0017	002
12.	Media Filter Cartridges	FILCCFNC0021	003, 005
	3	FILCCFNC0024	004, 006
		GAPABXCC1620	002
13.	Infinity® Series Air Purifier	GAPABXCC2020	003, 005
	,	GAPABXCC2024	004, 006
14.	PVC Condensate Trap Kit (50 pack)	KFAET0150ETK	All
15.	Air Cleaner 240-volt Conversion Kit	KEAVC0201240	All
16.	Downflow/Horizontal Conversion Gasket Kit	KFAHD0101SLP	All
17.	Airflow Sensor Kit (Air Cleaner)	KEAAC0101AAA	All
18.	Horizontal Water Management Kit (25 pack)	KFAHC0125AAA	All
	,,,	KFAFR0101FRM	NA
10	Charden Filter Book I/I	KFAFR0201FRM	002
19.	Standard Filter Rack Kit	KFAFR0301FRM	003, 005
		KFAFR0401FRM	004, 006
20.	Hydronic Relay Interface Kit	KFAIF0101HWC	All

<sup>\*</sup> Factory authorized and listed, field installed.

#### Accessory Kits Description Suggested and Required Use

#### 1. Infinity® Touch Control with Integrated Wi-Fi

Deluxe programmable wall-mounted system control with integrated Wi-Fi.

ОΓ

#### Infinity® Touch Control Wi-Fi with bundled router

Deluxe programmable wall-mounted system control with integrated Wi-Fi.

Sold bundled with Wi-Fi router

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#### Infinity® Touch Control

Deluxe programmable wall-mounted system control without remote access.

#### 2. Infinity® Series 4 Zone Board

4-Zone Damper Control Module wall-mounted control.

REQUIRED USE: For all four-zone systems. For systems with 5 to 8 zones, a second Damper Control Module is required.

#### 3. Infinity® Series Smart Sensor

Wall control used to monitor temperature and/or fan control.

SUGGESTED USE: For use in zone systems.

#### 4. Infinity® Remote Room Sensor

Wired remote temperature sensor for zone control.

SUGGESTED USE: For use in zone systems.

#### 5. Infinity® Series Network Interface Module

Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications and non-communicating 2-speed units. REQUIRED USE: For non-zoned systems installed with HRV or ERV, Hybrid Heat with non-communicating heatpumps or non-communicating 2-speed units.

#### 6. Disconnect Kit

The kit is used to disconnect electrical power to the fan coil so service or maintenance may be performed safely.

SUGGESTED USE: Units for 3- through 10-kW electric resistance heaters and cooling controls.

#### 7. Downflow Base Kit

This kit is designed to provide a 1-in. minimum clearance between unit discharge plenum, ductwork, and combustible materials. It also provides a gap-free seal with the floor.

REQUIRED USE: This kit must be used whenever fan coils are used in downflow applications.

#### 8. Downflow Conversion Kit

Fan coils are shipped from the factory for upflow or horizontal-left applications. Downflow conversion kits provide proper condensate water drainage and support for the coil when used in downflow applications. Separate kits are available for slope coils and A-coils. REQUIRED USE: This kit must be used whenever fan coils are used in downflow applications.

#### 9. Single Point Wiring Kit

The single point wiring kit acts as a jumper between L1 and L3 lugs, and between the L2 and L4 lugs. This allows the installer to run 2 heavy-gauge, high-voltage wires into the fan coil rather than 4 light-gauge, high-voltage wires.

SUGGESTED USE: Fan coils with 15- and 20-kW fused heaters only.

#### 10. Filter Kit (12 pack)

The kit consists of 12 fan coil framed filters. These filters collect large dust particles from the return air entering the fan coil and prevents them from collecting on the coil. This process helps to keep the coil clean, which increases heat transfer and, in turn, the efficiency of the system.

SUGGESTED USE: To replace filters in fan coils.

REQUIRED USE: All units unless a filter grille is used.

#### 11. Filter Media Cabinet

This cabinet is mounted to the fan coil on the return air end and designed to slip over the outer fan coil casing. The cabinets are insulated using the same insulation as production fan coils. They are designed for the removal of particulates from indoor air using FILCCFNC00(14, 17, 21, 24) media filter cartridges.

SUGGESTED USE: All fan coils.

#### 12. Media Filter Cartridges

These fan coil media filter cartridge kits are designed for the removal of particles from indoor air. The cartridge is installed in the return air duct next to the air handler or further upstream.

SUGGESTED USE: All fan coils.

#### 13. Infinity® Series Air Purifier

The Infinity Series Air Purifier wires directly to fan coil and requires no duct transitions with Carrier units. It comes with an airflow sensor.

SUGGESTED USE: All fan coils.

#### 14. Condensate Drain Trap Kit

This kit consists of 50 PVC condensate traps. Each trap is pre-formed and ready for field installation. This deep trap helps the system make and hold proper condensate flow even during blower initiation.

# SUGGESTED USE: All fan coils. 15. Air Cleaner 240-volt Conversion Kit

The AIRA electronic air cleaner comes ready for 115-v operation.

REQUIRED USE: This kit is required when running 240-volt circuit to air cleaner.

### **ACCESSORIES (CONT.)**

#### 16. Downflow/Horizontal Conversion Gasket Kit

This kit provides the proper gasketing of units when applied in either a downflow or horizontal application. REQUIRED USE: Fan coils in either downflow or horizontal applications.

#### 17. Airflow Sensor Kit (Air Cleaner)

The AIRA electronic air cleaner comes ready for 115-v operation REQUIRED USE: This kit is required whenever an electronic air cleaner is used.

#### 18. Horizontal Water Management Kit

This kit provides proper installation of fan coils under conditions of high static pressure and high relative humidty. SUGGESTED USE: All fan coils (except FE5 and FF1).

#### 19. Standard Filter Rack Kit

This kit mounts in fan coil filter rack area and modifies the existing filter rack to support standard 1-in. filter sizes. SUGGESTED USE: Fan coils using standard filter sizes.

#### 20. Hydronic Relay Interface Kit

This kit provides interface of the FE4 and FE5 fan coils with Hydronic Heat equipment.

NOTE: Electric heat cannot be used with Hydronic Interface Relay Kit.

SUGGESTED USE: All FE4 and FE5 fan coils installed with hydronic heat.

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Edition Date: 09/15

U.S. Export Classification: EAR99.

Catalog No: FE4A-10PD



HIWALL INVERTER I P SERIES



## **FEATURES:**

- Auto restart function
- 12 grades indoor fan speeds
- 5 grades outdoor fan speeds
- Turbo mode
- 2 way draining
- Self diagnosis and auto protection

- Auto desfrosting
- Emergency using function
- A Refrigerant leakage detect
- Low ambient cooling
- Anti cold air function
- Louver position memory function

- Manual switch button
- Silent mode
- Auto swing
- Two directional airflow
- 1 Timer
- High density filter







AURICHIFED.

**发展**。图

UP TO 20 SEER 60 HZ

CIAC

inverter



R-410A REFRIGERANT

							1-		
CHNICA	L SPECIFICATION	S							
MDOOR L	INIT MODEL	Con U.	CG43PX012PHINIC	CG43PX009PH3N1C	CG43PX012PH3N1C	CG43PX013PH3N1C	CG43PX024PH3N1C	CG43PX030PH3N1H	CG43PX036PH3N1H
DOOR UNI	TMODEL		CH43PX012-H1N1C	CH43PX009-H3N1C	CH43PX012-H3N1C	CH43PX018+13N1C	CH43PX024-H3N1C	CH43PX030H3N1H	CH43PX036H3N1H
WER SUPPLY		V-Hz-Ph	115V,60Hz ,1Ph	208-230V, 60Hz, 1Ph	208-230V, 60Hz ,1Ph	208-230V~60Hz 1Ph	208-230V~60Hz ,1Ph	208-230V~60Hz 1Ph	208-230V~60Hz .1Pf
16	CAPACITY	Btu/h	12000(4500~13500)	9000(3200~10200)	11500(2900-12900)	17000(5000-18700)	22000(4700~23900)	30000(12300-42900)	36000 (15480 - 4896)
	INPUT	W	1200 (200~1700)	812[100~1385]	1037 (100~1400)	1583 (150~2200)	960(200~2950)	2857 [1120-3971]	4235(1736-5889)
OUNG	RATED CURRENT	Α	10.43(2~15)	3.53 (1~6)	4.5 (1~7)	6.7(1.5~11)	9.0(2~14.5)	12.5[4.9-17.4]	18.5 [7.6-25.8]
	EER	Btu/h*w	10.00	11.00	10.00	10.80	11.23	10.5	10
	SEER	W/W	16.5	19	19	20	19	18	16
-	CAPACITY	Btu/h	N/A	N/A	N/A	N/A	N/A	30000	36000
	INPUT	W	N/A	N/A	N/A	N/A	N/A	3110	3835
ATING	RATED CURRENT	A	N/A	N/A	N/A	N/A	N/A	13.5	16.7
	COP	W/W	N/A	N/A	N/A	N/A	N/A	2.83	2.75
	HSPF4	Btu/w	N/A	N/A	N/A	N/A	N/A	9.6	10
	AIR FLOW [Hi/Mi/to]	CFM	280/252/171	241/206/147	280/248/170	530/441/353	581/45/331	795/618/471	853/647/471
	NOISE LEVEL (HI/MI/Lo)	dB (A)	39.6/-/26.1	37.6/-/25	39.8/-/25.5	42.5/34/31	46/40.5/34.0	52/44/35	52/44/36
OOR UNIT	DIMENSION(W*D*H)	inch	31.57x7.44x11.69	28.43x7.36x11.42	31.57x7.44x11.69	37.99×8.46×12.56	42.5x8.89x13.8	49.57x11.10x14.25	49.57x11.10x14.25
	PACKING (W*D*H)	inch	34.45x11.22x14.76	31.10x10.63x14.57	34.45x11.22x14.76	41.14x12.01x15.94	45.47x16.33x12.4	52.76x17.72x14.96	52.76x17.72x14.96
	NET/GROSS WEIGHT	lbs.	18.7/24.3	17.4/21.6	18.1/23.8	25.1/30.9	31.15/39.46	43.2/55.6	43.2/55.6
	NOISE LEVEL (HI/MI/Lo)	dB (A)	53.2	54.5	53	53	57.0	62	63
TDOOR	DIMENSION(W*D*H)	inch	30.31x11.81x21.85	30.31x11.81x21.85	30.31x11.81x21.85	30.31x11.81x21.85	33.26×14.29×27.63	37.24/16.14/31.89	37.24/16.14/31.89
IT	PACKING (W*D*H)	inch	35.43×13.58×23.03	35.43x13.58x23.03	35.43x13.58x23.03	35.43×13.58×23.03	37.99x155.55x30.11	42.91x19.69x34.45	42.91x19.69x34.45
	NET/GROSS WEIGHT	lbs,	57.3/62.6	54/59.3	54.7/59.5	65.9/72.3	88.6/95.90	137.79/147.71	143.3/153.22
NNECTION	LIQUID SIDE / GAS SIDE	mm (inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	9.52mm(3/8im)/15.9mm(5/8im)	Φ9.52/Φ15.9(3/8*/5/8*)	Φ9.52/Φ15.9(3/8*/5/8
NINECTION	MAX. DISTANCE HEIGHT	m/fi	25/82	25/82	25/ B2	30/98	30/98	50/164	65/213
	MAX, DISTANCE LENGTH	m/ft	10/33	10/33	10/33	20/66	20/66	25/82	30/98
("PER 20" /4	0' /40'HQ	Unit	105/220/242	115/235/260	105/220/242	78/165/190	60/126/142	37/78/92	37/78/92

**AUTHORIZED DEALER:** 



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