

ROMACA, S.A. INDUSTRIAL

REFRIGERACION COMERCIAL E INDUSTRIAL
AIRE ACONDICIONADO • CHILLERS • COMPRESORES Y PIEZAS

C/JOSE JOAQUIN PUELLO #14 (ENTRE PIMENTEL Y JUAN PABLO PINA)
VILLA CONSUELO, SANTO DOMINGO, REPUBLICA DOMINICANA
TELS: (809) 688-8760 / (809) 689-7926 / (809) 689-3184
FAX: (809) 689-4716 EMAIL: ROMACA.CXA@CLARO.NET.DO
WEBSITE: WWW.ROMACAINDUSTRIAL.COM

RNC: 1-01-09203-3



Confíe en los expertos

Distribuidor Autorizado
Stocking Dealer Rep. Dom.



Máquinas
de Hielo

GENERAC

Plantas Eléctricas

COTIZACION

38

DATOS DEL CLIENTE:

1667
JUNTA CENTRAL ELECTORAL
LIC. MARIA ESTELA DE LEON
AV. 27 DE FEBRERO, ESQ. LUPERON, PLAZA
DE LA BANDERA, D.N.
SANTO DOMINGO D.N
REP. DOM.

Tel: (809) 539-5419

Fax: (809) 539-5419

Fecha(Mes/Dia): 09/20/19

Solicitud:

Vencimiento: 09/20/19

Pagina :

1/5

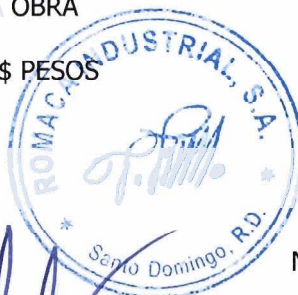
CODIGO	DESCRIPCION	CANTIDAD	P.U	DESC%	VALOR
--------	-------------	----------	-----	-------	-------

SUMINISTRO E INSTALACION DE 3 UNIDADES
DE AIRE ACONDICIONADO SPLIT, 208/230V
1PH-60HZ, R410A: (1) DE 5TON TIPO
MANEJADORA, (1)TIPO MANEJADORA DE 3 TON
Y (1) 2 TON TIPO CASSETTE

* DESCRIPCION Y ALCANCE:
ESTA COTIZACION CONTEMPLA EQUIPO,
ACCESORIOS, MATERIALES Y SERVICIOS.
EN EL CUAL ESTE TRABAJO DE SISTEMA
DE CLIMATIZACION SE ESTA REALIZANDO
EN LA JUNTA CENTRAL ELECTORAL

* TIEMPO DE ENTREGA
EQUIPOS:
- 3TON DUCTEABLE INFINITY DISPONIBLE
PARA ENTREGA INMEDIATA
- 5 TON DUCTEABLE INFINITY/ 24,000BTU
TIPO CASSETTE CON TIEMPO DE ENTREGA
DE 4 A 6 SEMANAS DESPUES DE PUESTA LA
ORDEN
INSTALACIONES: 4 DIAS A PARTIR DE LA
LLEGADA DE LOS EQUIPOS A LA OBRA

* PRECIOS EXPRESADOS EN RD \$ PESOS



SUB-TOTAL:
ITBIS:

NETO A PAGAR:

DIGITADO POR

APROBADO POR

RECIBIDO POR

ROMACA INDUSTRIAL S.A.

REFRIGERACION COMERCIAL E INDUSTRIAL
AIRE ACONDICIONADO • CHILLERS • COMPRESORES Y PIEZAS

C/JOSE JOAQUIN PUELLO #14 (ENTRE PIMENTEL Y JUAN PABLO PINA)
VILLA CONSUELO, SANTO DOMINGO, REPUBLICA DOMINICANA
TELS: (809) 688-8760/ (809) 689-7926/ (809) 689-3184
FAX: (809) 689-4716 EMAIL: ROMACA.CIA@CLARO.NET.DO
WEBSITE: WWW.ROMACAINDUSTRIAL.COM

RNC: 1-01-09203-3



Confíe en los expertos
Distribuidor Autorizado
Stocking Dealer Rep. Dom.



Máquinas de Hielo
GENERAC
Plantas Eléctricas

COTIZACION

NO. 119538

DATOS DEL CLIENTE:

1667
JUNTA CENTRAL ELECTORAL
LIC. MARIA ESTELA DE LEON
AV. 27 DE FEBRERO, ESQ. LUPERON, PLAZA
DE LA BANDERA, D.N.
SANTO DOMINGO D.N
REP. DOM.
Tel: (809) 539-5419 Fax: (809) 539-5419

Fecha(Mes/Dia): 09/20/19
Solicitud:
Vencimiento: 09/20/19
Pagina : 2/5

CODIGO	DESCRIPCION	CANTIDAD	P.U	DESC%	VALOR
--------	-------------	----------	-----	-------	-------

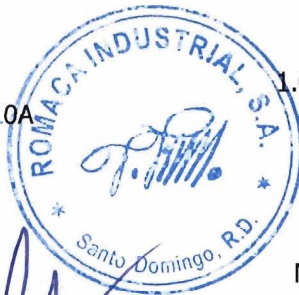
* FORMA DE PAGO: 70% CON LA ORDEN Y 30%
CONTRA ENTREGA

* GARANTIA:
LOS EQUIPOS COTIZADOS POR NOSOTROS SON
CARRIER ORIGINALES, CONSTAN DE (1) AÑO DE
GARANTIA BAJO CONDICIONES NORMALES DE
FUNCIONAMIENTO
* 5 AÑOS DE GARANTIA EN EL COMPRESOR
* POLITICA DE GARANTIA: PARTES NO
FUNCIONALES COMO FILTROS, FUSIBLES Y
PARTES PLASTICAS NO ESTAN CUBIERTAS.
* NO CUBRE DAÑOS PROVOCADOS POR PROBLEMA
ELECTRICOS DEL EDIFICIO Y/O USO ABUSIVO

* ESTA COTIZACION NO INCLUYE:
-POLIZAS DE SEGURO Y FIANZAS
-TRABAJOS DE ALBAÑILERIA(PASANTES,
RESANE DE HUECOS, NI NINGUN OTRO TRABAJO
QUE NO HAYA SIDO DESCRITO ANTERIORMENTE)
-POLIZAS DE SEGURO

**** EQUIPOS**

2023	UD.A/A CARRIER SPLIT DUCTEABLE DE 60,000BTU R-410A	1.0	237966.10		237,966.10
------	---	-----	-----------	--	------------



SUB-TOTAL: _____
ITBIS: _____
NETO A PAGAR: _____

DIGITADO POR

APROBADO POR

RECIBIDO POR

ROMACA, S.A. INDUSTRIAL

REFRIGERACION COMERCIAL E INDUSTRIAL
AIRE ACONDICIONADO • CHILLERS • COMPRESORES Y PIEZAS

C/JOSE JOAQUIN PUELLO #14 (ENTRE PIMENTEL Y JUAN PABLO PINA)
VILLA CONSUELO, SANTO DOMINGO, REPUBLICA DOMINICANA
TELS: (809) 688-8760/ (809) 689-7926/ (809) 689-3184
FAX: (809) 689-4716 EMAIL: ROMACA.CXA@CLARO.NET.DO
WEBSITE: WWW.ROMACAINDUSTRIAL.COM

RNC: 1-01-09203-3



Confíe en los expertos
Distribuidor Autorizado
Stocking Dealer Rep. Dom.



Máquinas
de Hielo

GENERAC

Plantas Eléctricas

COTIZACION

NO. 119538

DATOS DEL CLIENTE:

1667
JUNTA CENTRAL ELECTORAL
LIC. MARIA ESTELA DE LEON
AV. 27 DE FEBRERO, ESQ. LUPERON, PLAZA
DE LA BANDERA, D.N.
SANTO DOMINGO D.N
REP. DOM.
Tel: (809) 539-5419 Fax: (809) 539-5419

Fecha(Mes/Dia): 09/20/19
Solicitud:
Vencimiento: 09/20/19
Pagina : 3/5

CODIGO	DESCRIPCION	CANTIDAD	P.U	DESC%	VALOR
	INVERTER EFICIENCIA SEER 17 INFINITY 208/230V 1PH/60HZ COMPUESTA POR: CONDENSADOR MOD.24VNA960A003 MANEJADORA MOD.FE4ANB006L00 TERMOSTATO MOD.SYSTXCCITC01-B WIFI				
2023	UD.A/A CARRIER SPLIT DUCTEABLE DE 36,000 BTU R-410A INVERTER EFICIENCIA SEER 18 INFINITY 208/230V 1PH/60HZ COMPUESTA POR: CONDENSADOR MOD.24VNA936A003 MANEJADORA MOD.FE4ANF003L00 TERMOSTATO MOD.SYSTXCCITC01-B WIFI	1.0	193898.30		193,898.31
2023	UD.A/A CARRIER SPLIT TIPO CASSETTE DE 24,000BTU R-410A INVERTER EFICIENCIA SEER 20 208/230V 1PH/60HZ COMPUESTA POR: CONDENSADOR MOD.38QUA024DS CONSOLA TIPO CASSETTE MOD.40QTD024DS	1.0	114406.77		114,406.78
2023	** INSTALACIONES MATERIALES PARA INSTALACION MECANICA, INCLUYE: TUBERIAS DE REFRIGERANTE EN COBRE AISLADA CON	1.0	96558.06		96,558.06



SUB-TOTAL: _____
ITBIS: _____
NETO A PAGAR: _____

DIGITADO POR

APROBADO POR

RECIBIDO POR

ROMACA INDUSTRIAL S.A.

REFRIGERACION COMERCIAL E INDUSTRIAL
AIRE ACONDICIONADO • CHILLERS • COMPRESORES Y PIEZAS

C/JOSE JOAQUIN PUELLO #14 (ENTRE PIMENTEL Y JUAN PABLO PINA)
VILLA CONSUELO, SANTO DOMINGO, REPUBLICA DOMINICANA
TELS: (809) 688-8760/ (809) 689-7926/ (809) 689-3184
FAX: (809) 689-4716 EMAIL: ROMACA.CXA@CLARO.NET.DO
WEBSITE: WWW.ROMACAINDUSTRIAL.COM

RNC: 1-01-09203-3



Confíe en los expertos

Distribuidor Autorizado
Stocking Dealer Rep. Dom.



Máquinas

GENERAC

Plantas Eléctricas

COTIZACION

NO. 119538

DATOS DEL CLIENTE:

1667
JUNTA CENTRAL ELECTORAL
LIC. MARIA ESTELA DE LEON
AV. 27 DE FEBRERO, ESQ. LUPERON, PLAZA
DE LA BANDERA, D.N.
SANTO DOMINGO D.N
REP. DOM.

Tel: (809) 539-5419

Fax: (809) 539-5419

Fecha(Mes/Dia): 09/20/19
Solicitud:
Vencimiento: 09/20/19
Pagina : 4/5

CODIGO	DESCRIPCION	CANTIDAD	P.U	DESC%	VALOR
2023	NEOPRENO, FILTROS, VISORES, FIJACIONES, ANCLAJES, ACCESORIOS Y MATERIALES MENORE				
2023	MATERIALES P/SISTEMA DE DUCTOS DE SUMINISTRO Y RETORNO DE AIRE. CONSTRUIDO EN PLANCHAS DE POLIURETANO RECUBIERTO DE ALUMNIO. INCLUYE: CEMENTO DE CONTACTO, CINTA DE ALUMINIO, PERFILES, ACCESORIOS Y MATERIALES MENORES.	1.0	106244.41		106,244.41
2023	SISTEMA DE TUBERIAS DE DRENAJE PARA CONDENSADO EN PVC AISLADO CON MANGAS DE NEOPRENO	1.0	4,550.00		4,550.00
2023	MATERIALES PARA ALIMENTADOR ELECTRICO UNIDADES ACONDICIONADORAS DE AIRE. INCLUYE: ALIMENTADORES, TUBERIA LIQUID TIGHT, CONECTORES, BREAKERS Y MATERIALES MENORES.	1.0	4,550.00		4,550.00
2023	BASE P/CONDENSADORES, CONSTRUIDA EN HORMIGON	2.0	6,500.00		13,000.00
2023	MANO DE OBRA	1.0	169000.00		169,000.00



SUB-TOTAL:
ITBIS:

NETO A PAGAR:

DIGITADO POR

APROBADO POR

RECIBIDO POR

ROMACA INDUSTRIAL S.A.

REFRIGERACION COMERCIAL E INDUSTRIAL
AIRE ACONDICIONADO • CHILLERS • COMPRESORES Y PIEZAS

C/JOSE JOAQUIN PUELLO #14 (ENTRE PIMENTEL Y JUAN PABLO PINA)
VILLA CONSUELO, SANTO DOMINGO, REPUBLICA DOMINICANA
TELS: (809) 688-8760/ (809) 689-7926/ (809) 689-3184
FAX: (809) 689-4716 EMAIL: ROMACA.CXA@CLARO.NET.DO
WEBSITE: WWW.ROMACAINDUSTRIAL.COM
RNC: 1-01-09203-3



Confíe en los expertos
Distribuidor Autorizado
Stocking Dealer Rep. Dom.



Máquinas de Hielo
GENERAC
Plantas Eléctricas

COTIZACION

NO. 119538

DATOS DEL CLIENTE:

1667
JUNTA CENTRAL ELECTORAL
LIC. MARIA ESTELA DE LEON
AV. 27 DE FEBRERO, ESQ. LUPERON, PLAZA
DE LA BANDERA, D.N.
SANTO DOMINGO D.N.
REP. DOM.
Tel: (809) 539-5419 Fax: (809) 539-5419

Fecha(Mes/Dia): 09/20/19
Solicitud:
Vencimiento: 09/20/19
Pagina : 5/5

CODIGO	DESCRIPCION	CANTIDAD	P.U	DESC%	VALOR
--------	-------------	----------	-----	-------	-------

INSTALACION Y PUESTA EN OPERACION

ATENCION: RAYMI NUÑEZ
EMAIL:RAYMI_NUNEZ@JCE.DO

*** REQUISICION NO. 2019-002016 ***



SUB-TOTAL: 940,173.66
ITBIS: 169,231.26
NETO A PAGAR: 1109404.92


DIGITADO POR


APROBADO POR

RECIBIDO POR



XPOWERFLEX
INVERTER

UP TO 20 SEER

Flexible Matching System

The ultimate in cooling and heating comfort





Maximum flexibility at your reach.

Energy Efficient — DC Inverter technology with twin rotary compressor and DC fan motor, allows systems to achieve excellent energy efficiencies up to 20 SEER.



Quiet Operation — Ideal for spaces where people spend large amounts of time, and need low sound levels.



Environmentally Friendly — Washable filters on indoor units and the use of R410A refrigerant reduce harmful effects on the earth.



Built to last — The outdoor unit is built to last with a coil golden anti-corrosive treatment, which prolongs the unit's performance and sustains severe climates.



TECHNICAL SPECIFICATIONS

Indoor Units



FLOOR / UNDER CEILING MOUNTED SPLIT



- ▶ Slim Profile
- ▶ Two installation method (Floor / Ceiling)
- ▶ Auto-cool-dry-heat Fan
- ▶ Low sound level
- ▶ Automatic air swing in both direction
- ▶ Three fan speed
- ▶ Auto restart function
- ▶ Drain pipe Connection - Left or Right
- ▶ On/off, alarm ports
- ▶ Wired controller | Weekly controller
- ▶ Central controller ports

INDOOR MODEL			40QZL018DS	40QZL024DS	40QZL036DS	40QZL048DS
Power supply		V-ph-Hz	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph
Cooling	Capacity	Btu/h	18000(2700-21000)	24000(4100-28000)	36000(10000-41000)	48000(13600-50000)
	EER	Btu/W	12.5	12.5	8.0	9.3
	SEER		20	20	16	17.8
Heating	Capacity	Btu/h	18000(3000-24000)	24400(4100-29500)	38000(9000-45000)	50000(14300-55000)
	COP	W/W	3.2	3.8	2.8	3.2
Minimum circuit ampacity		A	15	18	30	35
Max.fuse		A	20	25	50	50
Indoor air flow(Hi/Med/Lo)		m3/h	982/885/790	1290/1204/1017	1762/1559/1084	2300/1900/1700
Indoor noise level (sound pressure) (Hi/Mid/Lo)		dB(A)	47/44/39	53/48/42	54/49/43	57/54/52
Indoor unit	Dimension (WxDxH)	mm	1068x675x235	1068x675x235	1285x675x235	1650x675x235
	Packing (WxDxH)	mm	1145x755x313	1145x755x313	1360x755x313	1725x755x313
	Net/Gross weight	kg	25/29.7	26.5/31.4	31.3/37	38/44
Design pressure		PSIG	550/340 PSIG			
Condensate Drain Connection		mm	ODΦ25			
Refrigerant piping	Liquid side/Gas side	mm(inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Remote control			
Room temperature Range	Cooling	°C	17~32			
	Heating	°C	0~30			
Operation temperature		°C	17~30			
Qty'per 20' /40' /40'HQ			102/220/252	102/220/252	92/188/213	72/147/167

Indoor Units



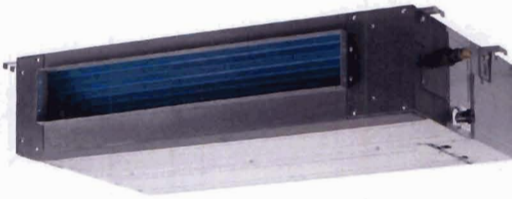
CASSETTE SPLIT

- ▶ 360° air flow
- ▶ Advantage duct design for nearby room
- ▶ Easy malfunction checking - Error code on LED display
- ▶ Auto Restart
- ▶ 3 Fan speeds
- ▶ In-built drain pump
- ▶ On/off, alarm ports
- ▶ Wired controller / Weekly controller / Central controller ports

INDOOR MODEL			40QTD018DS	40QTD024DS	40QTD036DS	40QTD048DS
CASSETTE PANEL MODEL			40CAS-S4	40CAS-L2	40CAS-L2	40CAS-L2
Power supply		V-ph-Hz	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph
Cooling	Capacity	Btu/h	18000(2700-21000)	24000(4100-28000)	36000(10000-41000)	48000(13600-50000)
	EER	Btu/W	12.5	12.5	9.0	9.5
	SEER		20	20	17.5	16.8
Heating	Capacity	Btu/h	18000(3000-24000)	24400(4100-29500)	38000(9000-45000)	50000(14300-55000)
	COP	W/W	3.2	3.2	3.0	3.1
Minimum circuit ampacity		A	15	18	30	35
Max.fuse		A	20	25	50	50
Indoor air flow (Hi/Med/Lo)		m3/h	951/821/705	1189/1082/974	1861/1628/1375	2000/1750/1450
Indoor noise level (sound pressure) (Hi/Mid/Lo)		dB(A)	44/39/36	51/47/43	55/52/49	55/52/49
Indoor unit	Dimension (W x Dx H) (body)	mm	570x570x260	840x840x205	840x840x245	840x840x287
	Packing (W x Dx H) (body)	mm	655x655x290	900x900x217	900x900x257	900x900x292
	Dimension (W x Dx H) (panel)	mm	647x647x50	950x950x55	950x950x55	950x950x55
	Packing (W x Dx H) (panel)	mm	715x715x123	1035x1035x90	1035x1035x90	1035x1035x90
	Net/Gross weight(body)	kg	16.1/18.7	21/24.6	26.4/30	28.7/32.9
	Net/Gross weight(panel)	kg	2.5/4.5	5/8	5/8	5/8
Design pressure		PSIG	550/340 PSIG			
Condensate Drain Connection		mm	ODΦ25	ODΦ32	ODΦ32	ODΦ32
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Remote control			
Room temperature Range	Cooling	°C	17~32			
	Heating	°C	0~30			
Qty per 20' /40' /40'HQ			234/488/566	148/312/342	128/268/294	100/212/238

TECHNICAL SPECIFICATIONS

Indoor Units



DUCTED SPLIT



- ▶ Slim profile, low height
- ▶ Quick & easy to install
- ▶ Flexible intake from back & below

- ▶ Flange and fresh air hole standard
- ▶ Standard & Easy to replace filters
- ▶ Adjustable external static pressure

- ▶ On/off, alarm ports
- ▶ Wired controller / Weekly controller / Central controller ports

INDOOR MODEL			40QSM018DS	40QSM024DS	40QSM036DS	40QSM048DS
Power supply		V-ph-Hz	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph
Cooling	Capacity	Btu/h	18000(2700-21000)	24000(4100-28000)	36000(10000-41000)	48000(13600-50000)
	EER	Btu/W	12.5	12.5	8.5	8.9
	SEER		19	20	15.5	17.4
Heating	Capacity	Btu/h	18000(3000-24000)	24400(4100-29500)	38000(9000-45000)	50000(14300-55000)
	COP	W/W	3.08	3.36	3.0	3.6
Minimum circuit ampacity		A	15	18	30	35
Max.fuse		A	20	25	50	50
Indoor air flow (Hi/Med/Lo) (No duct)		m3/h	884/731/612	1394/1054/884	1904/1598/1156	2499/2006/1598
ESP	Range	Pa	0-70	0-100	0-100	0-100
Indoor noise level (Hi/Med/Lo)		dB(A)	41/39/37	53/48/43	53/51/47	52 /49/46
Indoor unit	Dimension (WxDxH)	mm	920x635x210	920x635x270	1140x775x270	1200x865x300
	Packing(WxDxH)	mm	1135x655x290	1150x655x350	1355x795x350	1405x920x373
	Net/Gross weight	kg	23/27.5	26/31	34.6/41.6	43/51.5
Design pressure		PSIG	550/340 PSIG			
Condensate Drain Connection		mm	ODΦ25			
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Wired control			
Room temperature Range	Cooling	°C	17-32			
	Heating	°C	0-30			
Qty'per 20' /40' /40'HQ			134/270/310	108/216/252	75/153/170	60/126/147

Outdoor Units



Double Fans



Single Fan



UNIVERSAL OUTDOOR UNIT - HEAT PUMP

OUTDOOR MODELS			38QUA018DS	38QUA024DS	38QUA036DS	38QUA048DS
Power supply	V- Ph-Hz		208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph	208-230V~, 50/60Hz, 1Ph
Max. fuse	A		20.0	25.0	50.0	50
Minimum circuit ampacity	A		15.0	18.0	30.0	35
Outdoor air flow (Max.)	m ³ /h		2500	4000	4300	7600
Outdoor noise level	dB(A)		60	61	66	62.5
Metering Device			Capillary +EXV			
Outdoor unit	Dimension (WxDxH)	mm	845x363x702	946x410x810	946x410x810	952x415x1333
	Packing (WxDxH)	mm	965x395x755	1090x500x875	1090x500x875	1095x495x1480
	Net/ Gross weight	kg	43.2/46.5	62/67.4	67.4/73	98.6/111.6
Refrigerant type/Quantity	Oz		R410A/68.8	R410A/82.9	R410A/108	R410A/148.2
Design pressure	PSIG		550/340			
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. pipe length	m	30	50	65	65
	Max. difference in level	m	20	25	30	30
Ambient temperature	Cooling	°C	-25~50	-25~50	-15~50	-15~50
	Heating	°C	-25~30	-25~30	-15~30	-15~30
Qty/per 20' /40' /40'HQ	Outdoor		102/216/216	44/96/144	44/96/144	22/48/48



A Century of Innovation.

Built on Willis Carrier's invention of modern air conditioning in 1902, Carrier is the world leader in heating, air-conditioning and refrigeration solutions. We constantly build upon our history of proven innovation with new products and services that improve global comfort and efficiency. Carrier Ductless Systems deliver efficiency, performance and control thanks to advanced technology. When it comes to creating comfort, one size or system may not fit all, but one name does: **Carrier**.

www.carriercca.com

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



Turn to the Experts.

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. ArmorCoat™ provides a tin plating of the indoor coil's copper hairpins. This creates a barrier between the corrosion-causing elements and the coil.

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.

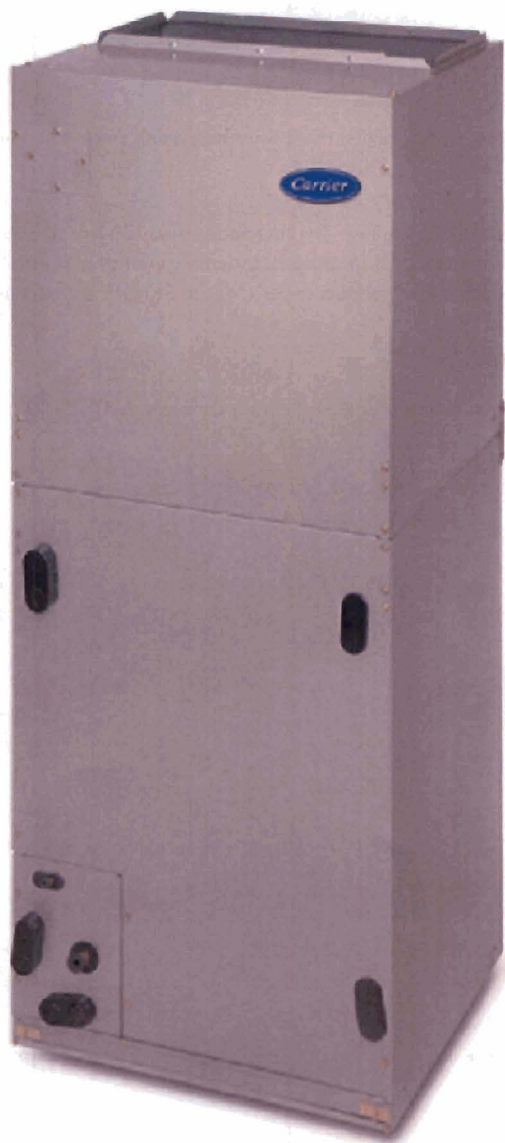
The FE4A and FE5A provide these benefits due to Carrier's command of Electronically Commutating Motor (ECM) technology. These motors are extremely efficient at all speeds, and enable the FE4A and FE5A to operate at the correct speed to deliver airflow precisely, ensuring proper performance across a wide 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 copper 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

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 copper tubing
- Lanced sine wave aluminum fins
- Discreet refined counterflow refrigerant circuitry
- Bi-flow hard-shutoff TXV metering device
- ArmorCoat™ coil protection available

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
- Inspection plate on A-coil models for quick coil cleanliness inspection
- 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

1 2 3 4 5 6 7 8 9 10 11 12
 F E 4 A N B 0 0 2 0 0 0

Product

F = Fan Coil

Type

E = Infinity™, VS, Puron® Refrigerant

Position

4 = Multi-poise
 5 = Upflow / Downflow

Series

A

Electrical

N = 208/230v, 1ph-60 Hz

Heating Size

T00 = ArmorCoat™
 000 = No Heat

Capacity

002 = 18–36,000
 003 = 24–42,000
 004 = 24–42,000
 005 = 30–48,000
 006 = 36–60,000

Cabinet / Insulation

B = Modular
 F = Single piece

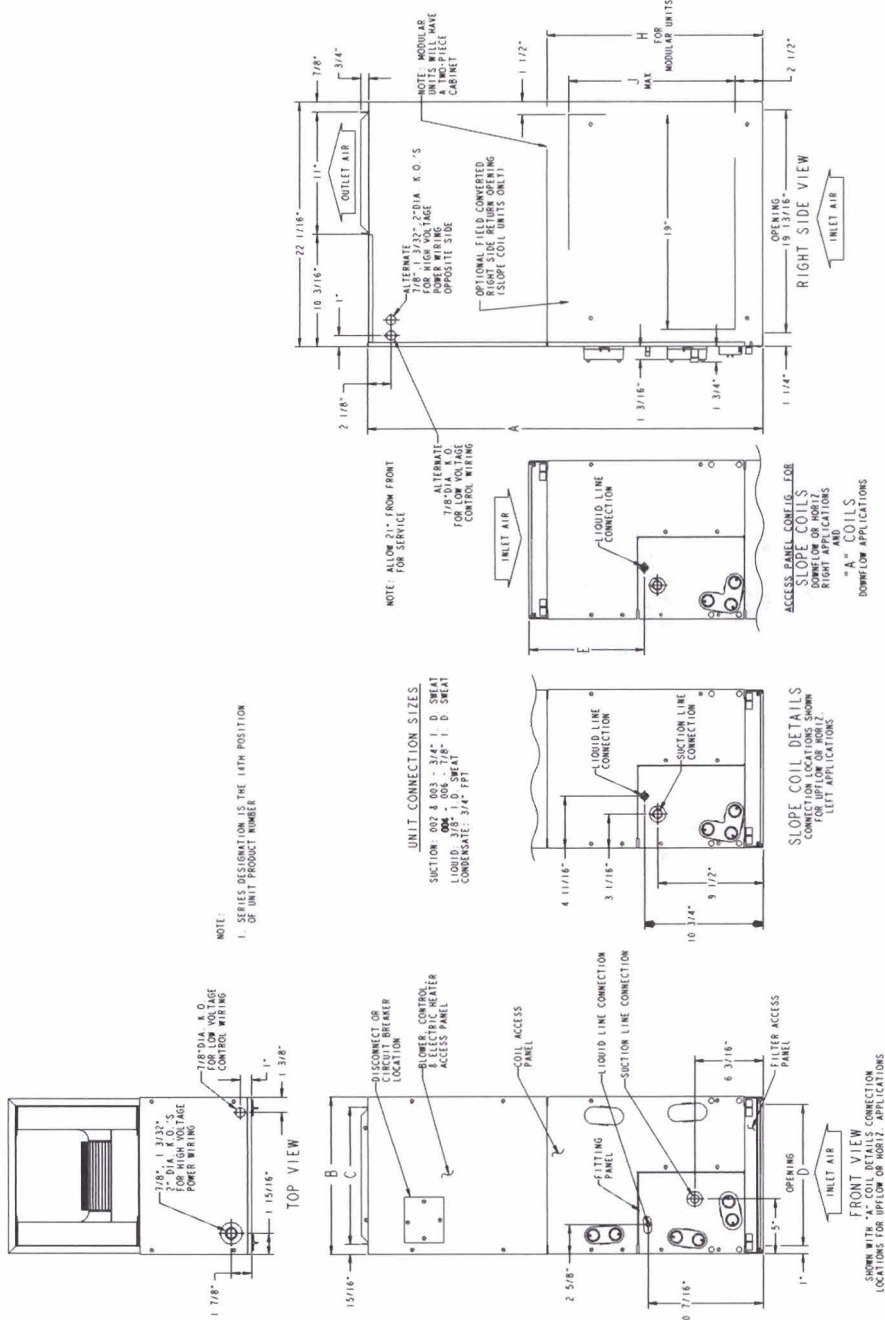
FE4A / FE5A



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI



FE4A / FE5A



DIMENSIONS

UNIT	SIZE	A		B		C		D		E		H*	
		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	—	—
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

* Modular Cabinet

PHYSICAL DATA

ORDERING NO.	FIELD-INSTALLED HEAT (kW)	NOMINAL COOLING CAPACITY (BTUH)	DIMENSIONS			SHIPPING WEIGHT lb / kg
			Height	Width	Depth	
FE4ANF002000 FE4ANF002T00	5, 8, 9, 10, 15, 20	18,000 to 36,000	42-11/16-in 1084 mm	17-5/8-in 448 mm	22-1/16-in 560 mm	135 lb 61 kg
FE4ANF003000 FE4AN(B,F)003T00	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	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	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	5, 8, 9, 10, 15, 18, 20	24,000 to 42,000	59-3/16-in 1503 mm	24-11/16-in 627 mm	22-1/16-in 560 mm	200 lb 91 kg

SPECIFICATIONS

MODEL	FE4A				FE5A
SIZE	002	003	005	006	004
COIL					
Refrigerant Metering Device	Puron® Refrigerant (R-410A) TXV				
TXV Size	2 Ton	3 Ton	4 Ton	4 Ton	3 Ton
Configuration	A	Slope	A	A	A
Rows—Fins/In.	3 / 14.5				
Face Area (Sq Ft)	3.46	3.46	5.93	7.42	7.42
MATCHES OUTDOOR UNIT SIZES					
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, Downflow, Horizontal				Upflow, Downflow
CFM/Ton (Nominal Clg/Htg)	350+				
Motor HP (ECM)	1/2	1/2	1/2	3/4	3/4
Filter 21-1/2-in (546 mm) x	16-3/8-in (417 mm)	19-7/8-in (505 mm)	19-7/8-in (505 mm)	23-5/16-in (592 mm)	23-5/16-in (592 mm)
CABINET CONFIGURATION OPTIONS					
	1-piece	1-piece / Modular	1-piece / Modular	Modular	Modular

FE4A / FE5A

PERFORMANCE DATA

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	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
002	EMERGENCY	625	625	675	775	950	—	—
	18,000	625	625	675	—	—	—	—
	24,000	650	725	775	900	—	—	—
	30,000	800	875	875	925	1125	—	—
	36,000	975	975	975	1025	1125	—	—
003	EMERGENCY	675	700	775	850	1050	—	—
	24,000	675	875	875	1100	1150	—	—
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1350	—	—
005	EMERGENCY	675	700	775	850	1050	1400	1425
	30,000	800	875	875	1100	1150	—	—
	36,000	975	975	1025	1150	1250	—	—
	42,000	1125	1125	1125	1150	1250	—	—
	48,000	1305	1305	1305	1305	1350	1500	1600
006	EMERGENCY	1050	1050	1050	1050	1125	1750	1750
	36,000	1050	1050	1100	1350	1350	—	—
	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 FE5A	OUTDOOR UNIT CAPACITY BTUH	ELECTRIC HEATER kW RANGE						
		5	9	10	15	20	24	30
004	EMERGENCY	675	775	775	900	1125	—	—
	24,000	975	975	975	—	—	—	—
	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.

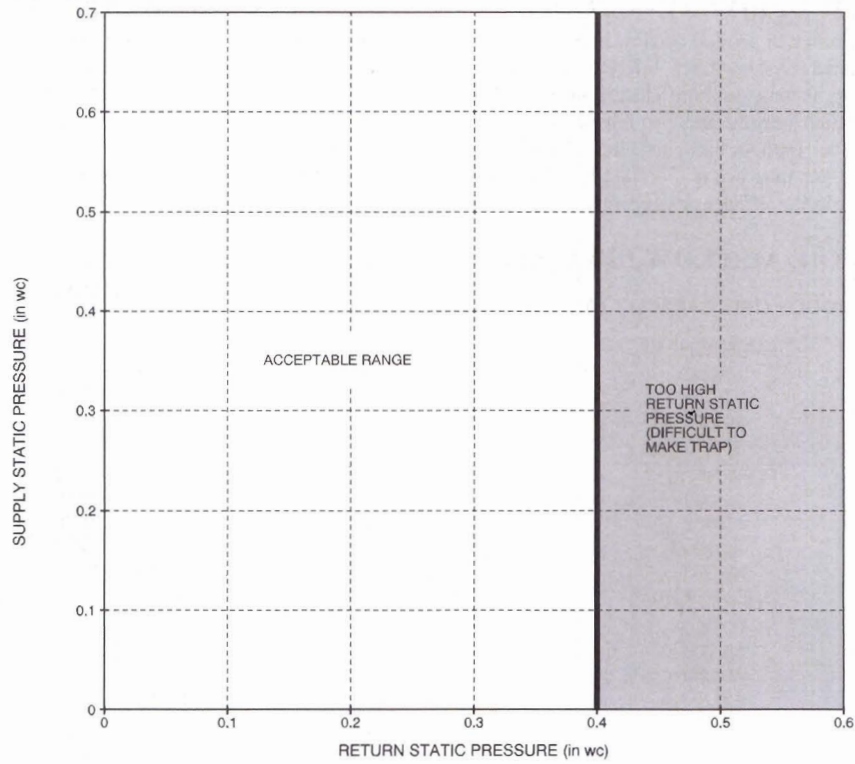
Note 2: These airflows are minimum airflows as UL listed.

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

FE4A / FE5A

ACCEPTABLE DUCT CONDITIONS

FE4A / FE5A



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.

A07273

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

GROSS COOLING CAPACITIES (MBTUH)

INDOOR COIL		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
AIR		35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FE4ANF002																
500	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	0.00
	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	0.01
	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	0.19
650	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	0.01
	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	0.02
	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	0.21
875	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	0.02
	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	0.03
	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	0.25
1000	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	0.03
	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	0.04
	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	0.27
1250	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	0.05
	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	0.07
	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	0.30
FE4ANF003																
600	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	11.81	0.01
	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	0.01
	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	0.21
800	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	0.02
	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	0.03
	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	0.24
1000	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	0.03
	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	0.05
	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	0.27
1200	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	0.05
	67/19	58.54	36.17	0.05	51.21	32.59	0.05	43.10	28.87	0.06	34.13	25.02	0.06	24.47	21.08	0.06
	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	0.29
1400	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	0.07
	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	0.08
	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	0.32
FE5ANB004																
600	72/22	40.42	19.84	0.00	36.59	17.80	0.00	32.35	15.70	0.00	27.64	13.54	0.00	22.39	11.33	0.00
	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	0.00
	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	0.17
800	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
	62/17	34.51	26.21	0.00	29.39	23.46	0.00	23.73	20.64	0.00	17.81	17.81	0.01	14.85	14.85	0.18
1000	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	0.00
	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	0.01
	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	0.19
1200	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	0.00
	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	0.01
	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	0.20
1400	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	0.01
	67/19	66.53	40.71	0.01	58.99	36.93	0.01	50.47	32.91	0.02	40.84	28.66	0.02	29.98	24.20	0.02
	62/17	53.91	42.17	0.02	46.10	38.14	0.02	37.43	33.92	0.02	29.46	29.46	0.07	24.60	24.60	0.22
FE4ANF005																
750	72/22	57.24	28.01	0.00	51.64	25.08	0.00	45.46	22.08	0.00	38.59	19.00	0.00	30.99	15.85	0.00
	67/19	46.98	28.35	0.00	41.29	25.33	0.00	35.01	22.24	0.00	28.09	19.09	0.00	20.47	15.90	0.01
	62/17	37.67	28.59	0.01	31.89	25.50	0.01	25.61	22.37	0.01	19.28	19.28	0.02	16.05	16.05	0.19
950	72/22	69.68	33.97	0.00	62.89	30.52	0.00	55.32	26.92	0.00	46.89	23.21	0.00	37.57	19.40	0.00
	67/19	57.29	34.68	0.01	50.33	31.06	0.01	42.64	27.33	0.01	34.14	23.51	0.01	24.80	19.63	0.01
	62/17	45.99	35.21	0.01	38.92	31.47	0.01	31.24	27.68	0.01	23.90	23.90	0.04	19.89	19.89	0.20
1150	72/22	80.80	39.28	0.00	72.96	35.40	0.00	64.17	31.32	0.00	54.37	27.06	0.01	43.48	22.66	0.01
	67/19	66.56	40.46	0.02	58.50	36.34	0.02	49.54	32.05	0.02	39.60	27.64	0.02	28.70	23.15	0.02
	62/17	53.51	41.36	0.02	45.29	37.07	0.02	36.38	32.70	0.02	28.26	28.26	0.07	23.51	23.51	0.22
1500	72/22	97.47	47.29	0.00	88.05	42.83	0.00	77.49	38.05	0.01	65.68	33.04	0.02	52.41	27.78	0.02
	67/19	80.52	49.40	0.03	70.85	44.58	0.03	60.01	39.53	0.03	47.89	34.25	0.03	34.64	28.83	0.04
	62/17	64.96	51.12	0.03	55.02	46.04	0.03	44.30	40.80	0.04	35.27	35.27	0.10	29.34	29.34	0.25
1700	72/22	105.61	51.26	0.00	95.43	46.52	0.01	84.03	41.43	0.03	71.21	36.06	0.03	56.82	30.42	0.03
	67/19	87.38	53.92	0.04	76.93	48.80	0.04	65.20	43.40	0.04	52.01	37.70	0.04	37.60	31.83	0.05
	62/17	70.60	56.17	0.04	59.87	50.74	0.04	48.32	45.08	0.05	38.96	38.96	0.13	32.40	32.40	0.27
FE4ANB006																
1050	72/22	76.01	37.07	0.00	68.82	33.39	0.00	60.76	29.56	0.00	51.72	25.55	0.00	41.64	21.42	0.00
	67/19	62.63	37.91	0.01	55.22	34.04	0.01	46.97	30.03	0.01	37.78	25.89	0.01	27.60	21.64	0.01
	62/17	50.40	38.54	0.01	42.81	34.53	0.01	34.49	30.41	0.01	26.28	26.28	0.03	21.90	21.90	0.19
1300	72/22	89.66	43.58	0.00	81.26	39.43	0.00	71.77	35.02	0.00	61.13	30.39	0.00	49.17	25.55	0.01
	67/19	74.04	45.04	0.01	65.36	40.60	0.01	55.62	35.94	0.01	44.72	31.09	0.01	32.62	26.09	0.01

CFM – Cubic Ft per Minute

EWB – Entering Wet Bulb (°F / °C)

LWB – Leaving Wet Bulb (°F / °C)

TC – Gross Cooling Capacity 1000 Btuh

SHC – Gross Sensible Capacity 1000 Btuh

BF – Bypass Factor

MBH – 1000 Btuh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
 Leaving db = entering db – $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{lwb})
 $h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$
 where h_{ewb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- 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 SHC.
- Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)						Use formula shown below
	79	78	77	76	75	Under 75	
	81	82	83	84	85	Over 85	
	Correction Factor						
0.10	.098	1.96	2.94	3.92	4.91		
0.20	0.87	1.74	2.62	3.49	4.36		
0.30	0.76	1.53	2.29	3.05	3.82		

Interpolation is permissible.

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

ESTIMATED SOUND POWER LEVEL (dBA)

MODEL SIZE	CONDITIONS		OCTAVE BAND CENTER FREQUENCY						
	CFM	ESP	63	125	250	500	1000	2000	4000
FE4ANF002	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
	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
FE4ANF003	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
	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
FE5ANB004	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
	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
FE4ANF005	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
	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
FE4ANB006	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
	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	

*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

HEATER KW	ELEMENTS	STATIC PRESSURE CORRECTION (in wc)	
		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.

FE4A / FE5A

FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

MODEL	CFM									
	400	600	800	1000	1200	1400	1600	1800	2000	
FE4A										
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										
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										
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
FE4A											
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											
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	
				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.

† These heaters field convertible to single phase.

** Single point wiring kit required for these heaters in Canada.

‡ Blower motor heat not included.

ELECTRIC HEATER INTERNAL PROTECTION

HEATER kW	PHASE	FUSES QTY / SIZE	CKT BKR QTY / SIZE*
5	1	—	1/60
8	1	—	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.

FE4A / FE5A

ACCESSORY ELECTRIC HEATER ELECTRICAL DATA

HEATER PART NO.	kW		INTERNAL CIRCUIT PROTECTION	HEATER AMPS 208/230V			Min Ampacity 208/230V**			Min Wire Size (AWG) 208/230V††			Min Grd Wire Size 208/230V			Max Fuse/Ckt Bkr Amps 208/230V			Max Wire Length 208/230V (ft)‡		
	240v	208v		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit	
					L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4
KFCEH0401N03	3	2.3	1	None	10.9/12.0	—	—	15.9/17.3	—	—	12/12	—	—	20/20	—	—	67/68	—	—	—	
KFCEH0501N05 ¹	5	3.8	1	None	18.1/20.0	—	—	26.0/28.4	—	—	10/10	—	—	30/30	—	—	66/66	—	—	—	
KFCEH0501N05 ²	5	3.8	1	None	18.1/20.0	—	—	31.2/33.5	—	—	10/10	—	—	35/35	—	—	65/65	—	—	—	
KFCEH2401C06 ¹	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	26.0/28.4	—	—	10/10	—	—	30/30	—	—	66/66	—	—	—	
KFCEH2401C06 ²	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	31.2/33.5	—	—	10/10	—	—	35/35	—	—	65/65	—	—	—	
KFCEH0901N08	8	6.0	1	None	28.9/32.0	—	—	44.7/48.5	—	—	8/8	—	—	45/50	—	—	59/60	—	—	—	
KFCEH2501C08	8	6.0	1	Ckt Bkr	28.9/32.0	—	—	44.7/48.5	—	—	8/8	—	—	45/50	—	—	54/67	—	—	—	
KFCEH2901N09 ¹	9	6.8	1	None	32.8/36.0	—	—	49.5/53.5	—	—	8/8	—	—	35/35	—	—	83/85	—	—	—	
KFCEH2901N09 ²	9	6.8	3	None	18.8/20.8	—	—	32.0/34.5	—	—	10/10	—	—	35/35	—	—	83/85	—	—	—	
KFCEH0901N10	10	7.5	1	None	36.2/40.0	—	—	53.8/58.5	—	—	6/6	—	—	60/60	—	—	78/80	—	—	—	
KFCEH2601C10	10	7.5	1	Ckt Bkr	36.2/40.0	—	—	53.8/58.5	—	—	6/6	—	—	60/60	—	—	78/80	—	—	—	
KFCEH3001F15*	15	11.3	1	Fuse	54.2/59.9	36.2/40.0	18.1/20.0	76.3/83.4	22.7/25.0	4/4	6/6	10/10	8/8	10/10	10/10	60/60	25/25	88/88	78/80	75/76	
KFCEH3101C15*	15	11.3	1	Ckt Bkr	—	—	18.1/20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	
KFCEH1601315	15	11.3	3	None	31.3/34.6	—	—	47.7/51.8	—	—	8/8	—	—	50/60	—	—	59/60	—	—	—	
KFCEH2001318	18	13.5	3	None	37.6/41.5	—	—	55.9/60.4	—	—	6/6	—	—	60/70	—	—	76/77	—	—	—	
KFCEH3201F20*	20	15.0	1	Fuse	72.3/79.9	36.2/40.0	36.2/40.0	96.9/106.4	45.3/50.0	3/2	6/6	8/8	8/8	100/110	60/60	50/50	85/109	78/80	59/59		
KFCEH3301C20*	20	15.0	1	Ckt Bkr	—	—	36.2/40.0	—	—	—	—	—	—	—	—	—	—	—	—	—	
KFCEH3401F24**	24	18.0	3	Fuse	50.1/55.4	—	—	71.2/77.8	—	—	4/4	—	—	80/80	—	—	94/95	—	—	—	
KFCEH3401F24**	24	18.0	1	Fuse	86.7/95.5	—	—	116.9/127.9	—	—	1/1	—	—	125/150	—	—	115/116	—	—	—	
KFCEH3501F30**	30	22.5	3	Fuse	62.8/68.2	—	—	86.8/95.0	—	—	3/3	—	—	60/100	—	—	97/98	—	—	—	
KFCEH3501F30**	30	22.5	1	Fuse	109.0/120.0	—	—	144.8/158.5	—	—	0/00	—	—	150/175	—	—	117/150	—	—	—	

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

HEATER PART NO.	kW		HEATER AMPS 208/230V			MIN AMPACITY 208/230V**			MIN WIRE SIZE (AWG) 208/230V††			MIN GND WIRE SIZE 208/230V			MAX FUSE/CKT BKR AMPS 208/230V			MAX WIRE LENGTH 208/230V (FT)‡		
	240V	208V	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	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	8/8	8/8	8/8	10/10	45/50	40/40	40/40	59/60	73/73	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	6/6	8/8	8/8	10/10	60/60	50/50	50/50	78/80	59/59	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.

†† 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. For fan coil sizes 018-037.
2. For fan coil sizes 042-061, and all FE, FK, and FV models.
3. Single circuit application of F15 and F20 heaters requires single-point wiring kit accessory.

SMARTSOURCE™ HYDRONIC ACCESSORY COILS

MODEL	HEATING CAP. (BTU)	NO. OF ROWS	FLOW RATE (GPM)	HEIGHT	WIDTH	DEPTH	FAN COIL SIZE USED WITH
HC2AXX017050	50,000	2	3.0 – 6.0	18–in (457 mm)	18–in (457 mm)	18–in (457 mm)	002
HC3AXX017065	65,000	3					
HC2AXX021070	70,000	2	5.0 – 8.0	18–in (457 mm)	18–in (457 mm)	22–in (559 mm)	003, 005
HC3AXX021090	90,000	3					
HC2AXX024080	80,000	2		18–in (457 mm)	18–in (457 mm)	26–in (660 mm)	004, 006
HC3AXX024100	100,000	3					
KFAIF0101HWC*	NA	NA	NA	NA	NA	NA	ALL (required)

* Relay Interface Kit – Hydronic Kit This kit provides identification of the auxiliary or primary heating devise as a boiler or hot water coil and relay to operate the boiler or hot water coil. SUGGESTED USE: All fan coils installed with SmartSource™ Hydronic coils.

REQUIRED ACCESSORY

ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
1.	Infinity™ Series User Interface	SYSTXCCUID01–B
	or	
	Infinity™ Series Zone Control	SYSTXCCUIZ01–B

ADDITIONAL ACCESSORIES

ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
2.	Infinity™ Series 4 Zone Board	SYSTXCC4ZC01
3.	Infinity™ Series Smart Sensor	SYSTXCCSMS01
4.	Infinity™ Series System Access Module	SYSTXCCSAM01
5.	Infinity™ Series Network Interface Module	SYSTXCCNIM01
6.	Disconnect Kit	KFADK0201DSC
7.	Downflow Base Kit	KFACB0201CFB
		KFACB0301CFB
		KFACB0401CFB
8.	Downflow Conversion Kit	KFADC0201SLP
		KFADC0401ACL
9.	Single–Point Wiring Kit	KFASP0101SPK
10.	Filter Kit (12 Pack)	KFAFK0212MED
		KFAFK0312LRG
		KFAFK0412XXL
11.	Filter Media Cabinet	FNCCABCC0017
		FNCCABCC0021
		FNCCABCC0024
12.	Media Filter Cartridges	FILCCFNC0017
		FILCCFNC0021
		FILCCFNC0024
13.	Infinity™ Series Air Purifier	GAPABXCC1620
		GAPABXCC2020
		GAPABXCC2024
14.	PVC Condensate Trap Kit (50 pack)	KFAET0150ETK
15.	Air Cleaner 240–volt Conversion Kit	KEAVC0201240
16.	Downflow/Horizontal Conversion Gasket Kit	KFAHD0101SLP
17.	Airflow Sensor Kit (Air Cleaner)	KEAAC0101AAA
18.	Horizontal Water Management Kit (25 pack)	KFAHC0125AAA

* Factory authorized and listed, field installed.

Accessory Kits Description Suggested and Required Use

1. Infinity™ Series User Interface

Deluxe 7–Day Programmable wall–mounted system control.
REQUIRED USE: For all single–zone systems.

or

Infinity™ Series Zone Control

Deluxe Zoning 7–Day Programmable wall–mounted control.
REQUIRED USE: For all multi–zone systems.

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™ Series System Access Module

Hardware for wireless access and control via phone or internet.
SUGGESTED USE: For all systems where remote access is desired.

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.

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 humidity.
SUGGESTED USE: All fan coils (except FE5 and FF1).

**24VNA9 Infinity® 19VS
Variable Speed Air Conditioner
with Puron® Refrigerant
2 – 5 Ton**



Product Data



INFINITY® 19VS

The Infinity 19VS air conditioner offers high-efficiency variable speed performance in a remarkably small cabinet and provides up to 19 SEER cooling efficiency. The variable speed inverter capacity control delivers up to 5 stages of operation for exceptional load matching, dehumidification and zoning performance.

This product has been designed and manufactured to provide flexible system matching and work with a wide variety of indoor units and controls.

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.

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency

- Up to 19 SEER / up to 12.5 EER
- Microtube Technology™ refrigeration system

Sound

- Sound level as low as 56 dBA in low speed (Silencer System II).
- Soft start and smooth ramp to operating speeds

Comfort

- Variable speed compressor operates at 5 stages with capacity range from as wide as 25-100%
- Air cooled Inverter variable speed drive
 - System requires Infinity Touch Control with version 11 software or newer for 5 stage operation
 - Ratings provided with 2-stage thermostats and suitable non-communicating indoor products for 2-stage operation.

Reliability

- Puron® refrigerant – environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- Inverter control drives compressor and fan motor
- No control module attached to fan motor
- Infinity intelligence monitors critical system parameters
- Pressure equalizer valve for easy compressor starting
- High pressure switch
- Suction pressure transducer
- Compressor discharge temperature sensor
- Suction temperature sensor
- Filter drier (field installed)
- Internal crankcase heater standard

Flexibility and installation:

- 2 control wires to outdoor unit in complete Infinity system and Touch Control
- Smaller and lighter than 2-stage units
- Minimum and Maximum adjustments with Infinity Touch Control
- Compatible with non-communicating thermostats

Durability

WeatherArmor Ultra™ protection package:

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

Applications

- Line sets up to 100 ft (30.5 m) equivalent length
- No long-line accessories required.

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	4	V	N	A	9	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Variations	Open	Open	Voltage	Minor Series		
24 = AC	V = VS HP	N = Infinity Series	A = Puron	9 = 19 SEER	1,000 Btuh (nominal)	A = Standard B = Design Variation	0 = Not Defined	0 = Not Defined	3 = 208/230-1	0, 1, 2...		



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



STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series				
	24A–30 24B–30	25–30	36–30	48–30	60–30
Puron Refrigerant	X	X	X	X	X
Variable Speed Rotary Compressor	X	X	X	X	X
Air-Cooled Integrated Inverter Drive	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X
Internal Pressure and Temperature Protection	X	X	X	X	X
Suction Pressure Transducer	X	X	X	X	X
High Pressure Switch	X	X	X	X	X
Internal Crankcase Heater	X	X	X	X	X
Enhanced Diagnostics with Infinity Touch™ Control (version 11 software or newer)	X	X	X	X	X
Deluxe Sound Blanket	X	X	X	X	X
Outdoor Air Temperature Sensor	X	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† ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	100 (30.5)	100 (30.5)	N/A
Outdoor unit ABOVE indoor unit	100 (30.5)	100 (30.5)	100 (30.5)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

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

Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	AC with Puron® Refrigerant - Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		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)
2-Ton	3/8	100*	100*	100*	100*	100*	100*	100*
3-Ton	3/8	100*	100*	100*	100*	100*	100*	100*
4-Ton	3/8	100*	100*	100*	100*	100	100	--
5-Ton	3/8	100*	100*	100*	100*	100	100	--

* Maximum actual length not to exceed 100 ft (30.5 m)

† Total equivalent length accounts for losses due to elbows or fitting.

-- = outside acceptable range

LONG LINE APPLICATIONS

Unit is approved for up to 100 ft (30.5 m) equivalent length and vertical separations shown above with no additional accessories. Longer line set applications are not permitted.

COOLING CAPACITY LOSS TABLE

Nominal Size (Btuh)	Line OD (in.)	24VNA9 Cooling Capacity Loss (%)				
		Total Equivalent Line Length (ft)				
		25	50	75	80	100
24B-30	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
24A-30 25-30	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
36-30	5/8	1.1	2.4	3.7	4.0	5.0
	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
48-30	3/4	0.7	1.6	2.4	2.6	3.2
	7/8	0.3	0.7	1.1	1.2	1.6
	1 1/8	0.0	0.1	0.2	0.3	0.4
60-30	3/4	1.0	2.3	3.5	3.8	4.8
	7/8	0.4	1.0	1.7	1.8	2.3
	1 1/8	0.0	0.1	0.3	0.4	0.5

Rating Line Size in **BOLD**

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 Control Setup screen.

Cooling – Comfort Mode			Minimum Cooling (Dehum or Zoning)
Size	Max Capacity Airflow	Highest Min Capacity Airflow	
2–Ton	739	263	222
3–Ton	990	289	236
4–Ton	1389	542	457
5–Ton	1600	700	600

Cooling – Efficiency Mode		
Size	Max Capacity Airflow	Highest Min Capacity Airflow
2–Ton	825	585
3–Ton	1050	600
4–Ton	1400	875
5–Ton	1800	975

LEGEND:

Max Capacity Airflow – Stage 5 airflow varies depending on conditions. This is the highest airflow the system will attempt to deliver in this particular mode. Ductwork for non-zoned systems should be sized for this airflow to ensure the system can deliver full capacity when needed. Improper duct design may result in excessive airflow noise and/or cutback occurrences at max airflow conditions.

Highest Min. Capacity Airflow – Stage 1 airflow also varies depending on conditions. In zoned systems, each zone must be capable of delivering this airflow for the system to deliver full capacity into the zone. Otherwise, airflow may be diverted to other zones or cutback may occur.

Min Cooling (Dehum or Zoning) – Lowest airflow the system will deliver. May operate down to this airflow in dehumidification mode or in zoning applications where ductwork restrictions have caused the blower to cut-back.

PHYSICAL DATA

UNIT SIZE SERIES	24A–30	24B–30	25–30	36–30	48–30	60–30
Operating Weight lb (kg)	160 (72.6)	135 (61.2)	160 (72.6)	160 (72.6)	216 (98.0)	241 (109.3)
Shipping Weight lb (kg)	186 (84.4)	158 (71.7)	186 (84.4)	186 (84.4)	255 (115.7)	282 (127.9)
Compressor Type	Variable Speed Rotary					
REFRIGERANT	Puron® (R-410A)					
Control	TXV (Puron® Hard Shutoff)					
Charge lb (kg)	5.5 (2.50)	4.80 (2.18)	5.5 (2.50)	6.0 (2.72)	7.5 (3.40)	8.30 (3.76)
COND FAN	Forward Swept Propeller Type, Direct Drive					
Air Discharge	Vertical					
Air Qty (CFM)	2500	2500	2500	2500	4500	4500
Motor HP	1/3	1/5	1/3	1/3	1/3	1/3
Motor RPM	1050	825	1050	1050	850	900
COND COIL						
Face Area (Sq ft)	13.90	11.12	13.90	13.90	21.50	23.65
Fins per In.	20	20	20	20	20	20
Rows	1	1	1	1	1	1
Circuits	6	6	6	6	8	8
VALVE CONNECT. (In. ID)						
Vapor	3/4	5/8	3/4	3/4	7/8	7/8
Liquid	3/8					
REFRIGERANT TUBES (In. OD)						
Rated Vapor*	7/8	3/4	7/8	7/8	1–1/8	1–1/8
Max Liquid Line	3/8					

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

ELECTRICAL DATA

UNIT SIZE - VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE ** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
24A-30	208-230-1	253	197	N/A	17.7	1.20	23.6	40
24B-30				N/A	10.32	0.58	13.5	20
25-30				N/A	17.7	1.20	23.6	40
36-30				N/A	18.3	1.20	24.4	40
48-30				N/A	23.9	1.20	31.4	50
60-30				N/A	31.3	1.40	40.8	60

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

** Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

NOTE: Control circuit is 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

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - VOLTAGE, SERIES	
24A-30, 24B-30	If a Touch Control is installed, subcooling recommendation displayed in Charging Mode must be followed. If not, subcooling chart shown on the charging label must be followed
25-30	
36-30	
48-30	
60-30	

RPM-CAPACITY-SOUND (dBA)*

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
24VNA924A			
1	1200	36%	56
2	1900	58%	61
3	2400	73%	64
4	2600	79%	68
5	3300	100%	71
24VNA924B			
1	1500	35%	55
2	2566	56%	60
3	3150	69%	65
4	3950	87%	66
5	4700	100%	68
24VNA925			
1	1200	36%	56
2	1900	58%	61
3	2400	73%	63
4	2600	79%	67
5	3300	100%	69
24VNA936			
1	1200	25%	56
2	2400	50%	61
3	3300	69%	65
4	4200	88%	69
5	4800	100%	71
24VNA948			
1	1500	35%	62
2	2460	57%	65
3	2800	65%	67
4	3650	84%	70
5	4320	100%	72
24VNA960			
1	1200	32%	57
2	2180	55%	61
3	2850	70%	64
4	3700	90%	70
5	4140	100%	72

*Estimated sound for stages 2, 3, and 4

For 2-stage operation: Low = Stage 2, High = Stage 5

SOUND POWER LEVEL (dBA)

Unit Size – Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Cooling
024A-30	Freq (Hz)	1200 RPM	3300 RPM
	125	40.4	43.9
	250	44.4	53.9
	500	46.3	61.8
	1000	45.0	59.0
	2000	37.2	56.7
	4000	31.0	60.0
	8000	28.4	45.4
	Sound Rating (dBA)	56	71
024B-30	Freq (Hz)	1500 RPM	4700 RPM
	125	40.5	44.0
	250	45.5	49.5
	500	41.5	53.0
	1000	44.0	52.5
	2000	39.0	50.5
	4000	34.5	53.0
	8000	31.0	45.0
	Sound Rating (dBA)	55	67
025-30	Freq (Hz)	1200 RPM	3300 RPM
	125	40.4	45.4
	250	44.4	57.9
	500	46.3	61.3
	1000	45.0	58.0
	2000	37.2	54.7
	4000	31.0	52.0
	8000	28.4	41.9
	Sound Rating (dBA)	56	69
036-30	Freq (Hz)	1200 RPM	4800 RPM
	125	40.4	43.9
	250	44.4	53.9
	500	46.3	61.8
	1000	45.0	59.0
	2000	37.2	56.7
	4000	31.0	60.0
	8000	28.4	45.4
	Sound Rating (dBA)	56	71
048-30	Freq (Hz)	1500 RPM	4320 RPM
	125	40.9	42.4
	250	46.4	54.4
	500	47.3	60.3
	1000	56.5	63.5
	2000	39.2	56.7
	4000	35.0	56.0
	8000	31.9	44.9
	Sound Rating (dBA)	62	72
060-30	Freq (Hz)	1200 RPM	4140 RPM
	125	39.0	49.5
	250	48.0	59.5
	500	46.5	62.0
	1000	45.5	60.0
	2000	39.5	58.5
	4000	36.5	55.0
	8000	35.5	48.0
	Sound Rating (dBA)	57	72

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

ACCESSORIES

KIT NUMBER	KIT NAME	24A-30 24B-30 25-30	36-30	48-30	60
KSASF0101AAA	SPRT FEET KIT			X	X
KSASF0201AAA	SPRT FEET KIT	X	X		
KSATX0201PUR	TXV KIT	X			
KSATX0301PUR	TXV KIT		X		
KSATX0401PUR	TXV KIT			X	
KSATX0501PUR	TXV KIT				X
KSBTX0201PUR	TXV KIT	X			
KSBTX0301PUR	TXV KIT		X		
KSBTX0401PUR	TXV KIT			X	

x = Accessory S = Standard

Accessory Description and Usage

Support Feet

Raises unit above base pad. 2 and 3 ton kit contains 5 feet for stable installation with small base. 4 and 5 ton kit contains 4 feet.

Usage Guideline:

Recommended for rooftop applications

Thermostatic Expansion Valve (TXV)

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:

Required if indoor unit does not already contain Puron® refrigerant TXV

CONTROLS

SYSTXCCITN01-A	Infinity Touch Control (non-Wi-Fi) version 11 or newer
SYSTXCCITC01-A	Infinity Touch Control (Wi-Fi)
SYSTXCCITW01-A	Infinity Touch Control with Wi-Fi & Wireless Access Point
SYSTXCC4ZC01	Infinity 4-Zone Damper Control Module
SYSTXCCSMS01	Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCNIM01	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.)
SYSTXCCSMS01	Infinity Smart Sensor

THERMOSTATS

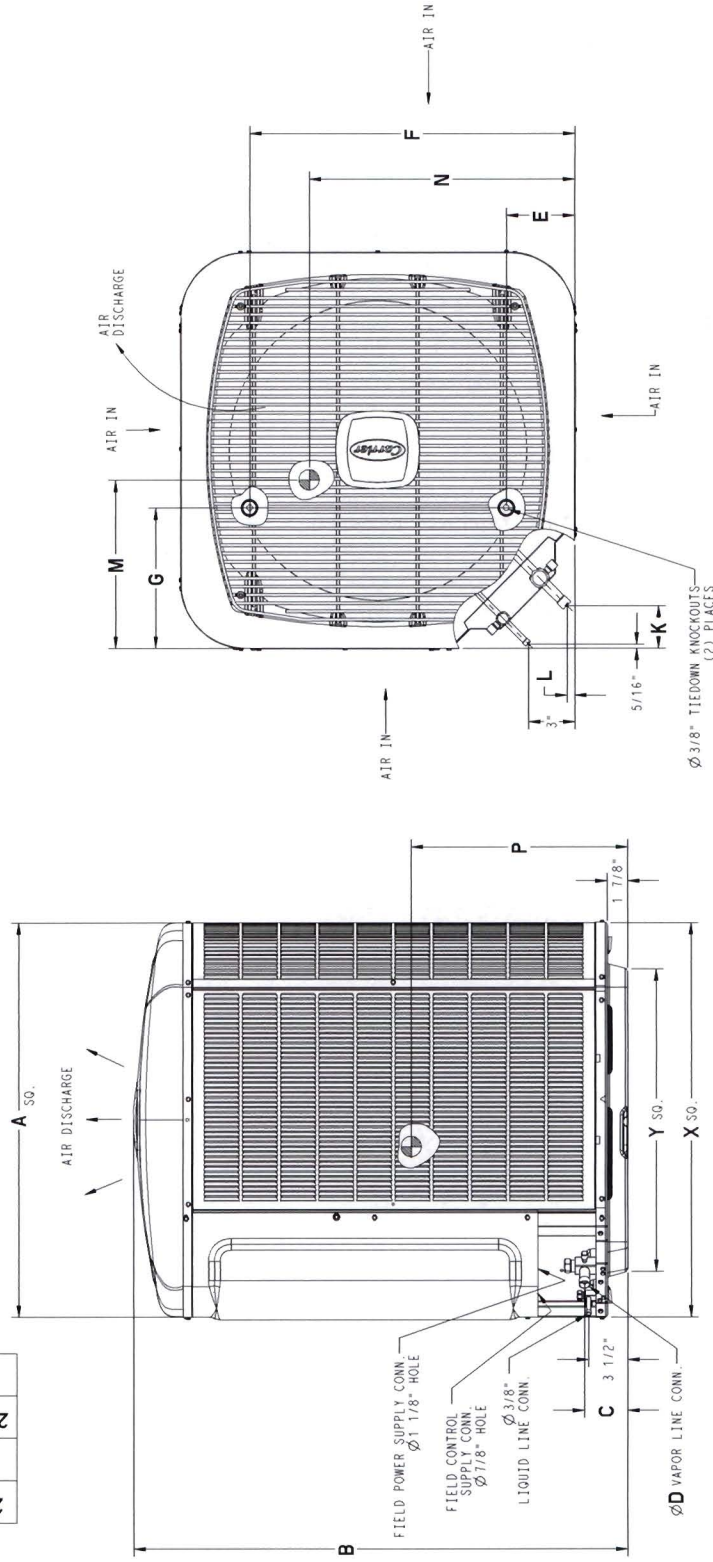
PART NUMBER	PROGRAM	GAS	ELECTRIC	HEAT	COOL
TP-PAC01	7-Day	√	√	1	1
TP-NRH01-A	NP	√	√	3	2
TP-NAC01	NP	√	√	1	1

DIMENSIONS - ENGLISH

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (lbs)	SHIPPING DIMENSIONS (L x W x H)
24VNA924A	0	0	23 1/8"	38 7/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	160	25 1/4" X 25 1/4" X 43 3/8"
24VNA924B	0	X	23 1/8"	31 5/8"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	11 1/4"	11 1/4"	14 1/2"	135	25 1/4" X 25 1/4" X 35 5/8"
24VNA925A	0	X	23 1/8"	38 7/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	160	25 1/4" X 25 1/4" X 43 3/8"
24VNA936A	0	X	23 1/8"	38 7/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	160	25 1/4" X 25 1/4" X 43 3/8"
24VNA948A	0	X	31 3/16"	39 3/4"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	14 1/2"	14 5/8"	18 3/4"	216	33 3/8" X 33 3/8" X 46 1/8"
24VNA960A	0	X	31 3/16"	43 3/16"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	15"	20"	241	33 3/8" X 33 3/8" X 49 9/16"

X = YES
0 = NO

208-230-160	230-160	208/230-360	460-360
-------------	---------	-------------	---------



UNIT SIZE	X* MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	Y* MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
24, 25, 36	23 1/8"	17 3/4"
48, 60	25 3/4"	20 7/16"
	31 3/16"	23"
	35"	26 3/4"

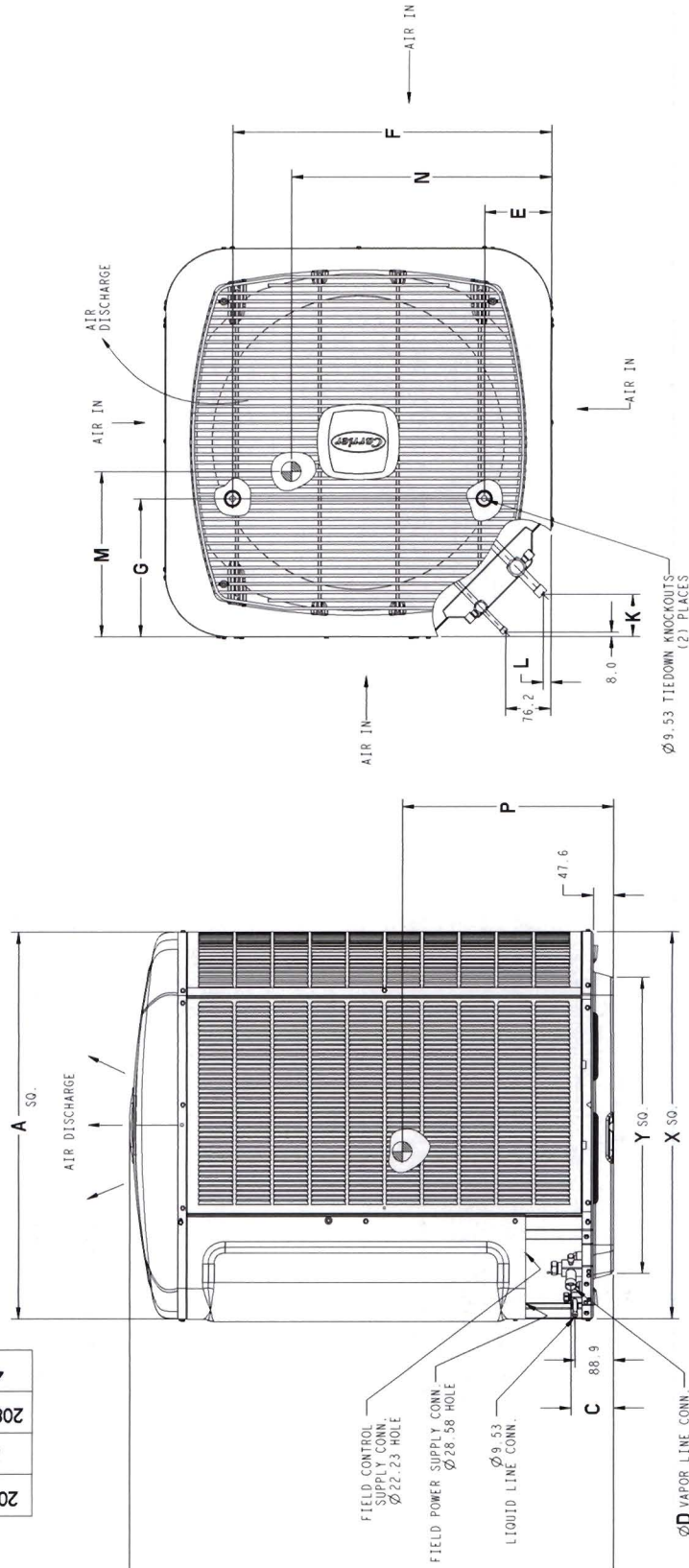
When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. Allow 24 in. (609.6 mm) clearance to service end of unit and 48 in. (1219.2 mm) (above unit. For proper airflow, a 6-in. (152.4 mm) clearance on 1 side of unit and 12-in. (304.8 mm) on all remaining sides must be maintained. Maintain a distance of 24 in. (609.6 mm) between units or 18 in. (457.2 mm) if no overhang within 12 ft. (3.66 m) Position so water, snow, or ice from roof or eaves cannot fall directly on unit.
NOTE: 18" (457.2 mm) clearance option described above is approved for outdoor units with wire grille coil guard only. Units with lower panels require 24" (609.6 mm) between units.
On rooftop applications, locate unit at least 6 in. (152.4 mm) above roof surface.

DIMENSIONS - SI

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (Kgs)	SHIPPING WEIGHT (Kgs)	SHIPPING DIMENSIONS (L x W x H)
24VNA924A	0	X 0 0 0	587.3	975.9	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	273.1	463.6	72.6	84.4	641.5 X 641.5 X 1102.2
24VNA924B	0	X 0 0 0	587.3	803.1	96.1	19.1	112.7	458.8	198.4	71.4	12.7	285.8	285.8	368.3	61.2	71.7	641.5 X 641.5 X 905.2
24VNA925A	0	X 0 0 0	587.3	975.9	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	273.1	463.6	72.6	84.4	641.5 X 641.5 X 1102.2
24VNA936A	0	X 0 0 0	587.3	975.9	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	273.1	463.6	72.6	84.4	641.5 X 641.5 X 1102.2
24VNA948A	0	X 0 0 0	792.2	1010.3	98.4	22.2	166.7	627.1	231.8	74.6	15.9	368.3	371.5	476.3	98.0	115.7	846.6 X 846.6 X 1172.2
24VNA960A	0	X 0 0 0	792.2	1096.7	98.4	22.2	166.7	627.1	231.8	74.6	15.9	419.1	381.0	508.0	109.3	127.9	846.6 X 846.6 X 1258.6

X = YES
O = NO

208-230-160	230-160	208/230-3-60	460-3-60
-------------	---------	--------------	----------



UNIT SIZE	X" MIN GROUND MOUNTING PAD DIMENSIONS	Y" MIN ROOF-TOP MOUNTING PAD DIMENSIONS
24, 25, 36	587.4	451.3
48, 60	654.0	518.5
	792.2	583.2
	889.0	679.7

When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. Allow 24 in. (609.6 mm) clearance to service end of unit and 48 in. (1219.2 mm) (above unit. For proper airflow, a 6-in. (152.4 mm) clearance on 1 side of unit and 12-in. (304.8 mm) on all remaining sides must be maintained. Maintain a distance of 24 in. (609.6 mm) between units or 18 in. (457.2 mm) if no overhang within 12 ft. (3.66 m) Position so water, snow, or ice from roof or eaves cannot fall directly on unit.

NOTE: 18" (457.2 mm) clearance option described above is approved for outdoor units with wire grille coil guard only. Units with lower panels require 24" (609.6 mm) between units.

On rooftop applications, locate unit at least 6 in. (152.4 mm) above roof surface.

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: www.MyCarrierRatings.com

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at : <http://rpmob.wrightsoft.com/>

Model Number	Coil Model Number	Furnace Model Number	Cooling Capacity High	SEER	EER	ID CFM
24VNA924A**30	FE4AN(B,F)005L+UI		23000	18.0	11.0	825
24VNA924A**30	FV4CN(B,F)003L		22600	16.0	11.0	700
24VNA924B**30	FE4ANF002L+UI		24000	18.0	11.0	825
24VNA924B**30	FV4CNF002L		23800	16.0	11.0	700
24VNA925A**30	FE4AN(B,F)005L+UI		24000	19.0	12.5	825
24VNA925A**30	FV4CN(B,F)003L		22600	19.0	12.2	700
24VNA936A**30	FE4AN(B,F)005L+UI		35000	18.0	10.5	1050
24VNA936A**30	FV4CN(B,F)005L		35000	16.0	10.5	1050
24VNA948A**30	FE4ANB006L+UI		46500	19.0	11.0	1400
24VNA948A**30	FV4CNB006L		46000	15.5	11.0	1400
24VNA960A**30	FE4ANB006L+UI		57000	17.0	10.0	1600
24VNA960A**30	FV4CNB006L		57500	15.0	10.0	1750

* 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

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

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE

EDB °F (°C)	EVAR AIR	EWB °F (°C)	24VNA924A / FE4ANF005 Efficiency Mode Condenser Entering Air Temperature * F (°C)																																					
			115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)																	
			ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**														
75 (23.9)	72 (22.2)	67 (19.4)	STAGE 5																																					
			825	22.60	9.53	3.21	24.02	10.05	2.61	25.33	10.54	2.07	26.67	11.04	1.60	27.98	11.54	1.20	29.07	15.84	0.84	825	20.56	13.19	3.20	21.88	13.76	2.63	23.10	14.31	2.09	24.34	14.86	1.64	25.65	15.41	1.24	26.73	15.95	0.89
			825	19.06	16.04	3.19	20.29	16.66	2.63	21.44	17.25	2.10	22.61	17.85	1.66	23.74	18.44	1.26	24.85	19.01	0.83	825	18.10	18.10	3.18	19.09	19.09	2.63	20.04	20.04	2.11	20.97	20.97	1.67	21.89	21.89	1.29	22.78	22.78	0.96
			825	22.44	13.14	3.20	23.85	13.70	2.61	25.15	14.23	2.06	26.49	14.77	1.60	27.80	15.31	1.19	29.07	15.84	0.84	825	20.48	16.76	3.20	21.79	17.38	2.62	23.00	17.96	2.09	24.24	18.56	1.63	25.45	19.15	1.23	26.62	19.73	0.89
			825	19.26	19.26	3.19	20.37	20.18	2.63	21.49	20.85	2.10	22.63	21.51	1.65	23.75	22.15	1.26	24.85	22.77	0.92	825	18.10	18.10	3.18	19.09	19.09	2.63	20.04	20.04	2.11	20.97	20.97	1.67	21.89	21.89	1.29	22.78	22.78	0.96
825	19.23	19.23	3.19	20.28	20.28	2.63	21.25	21.25	2.10	22.23	22.23	1.66	23.18	23.18	1.27	24.10	24.10	0.94	825	18.10	18.10	3.18	19.09	19.09	2.63	20.04	20.04	2.11	20.97	20.97	1.67	21.89	21.89	1.29	22.78	22.78	0.96			
80 (26.7)	72 (22.2)	67 (19.4)	STAGE 3																																					
			650	15.08	6.47	1.54	16.06	6.82	1.33	16.82	7.10	1.10	17.75	7.44	0.91	18.67	7.76	0.72	19.56	8.12	0.54	650	13.68	9.15	1.54	14.59	9.54	1.35	15.33	9.87	1.12	16.19	10.25	0.94	17.03	10.62	0.76	17.86	10.99	0.59
			650	12.70	11.25	1.54	13.54	11.67	1.36	14.27	12.04	1.13	15.07	12.45	0.96	15.86	12.85	0.79	16.62	13.24	0.62	650	12.27	12.27	1.54	12.97	12.97	1.37	13.58	13.58	1.14	14.24	14.24	0.97	14.89	14.89	0.81	15.52	15.52	0.65
			650	14.96	9.12	1.53	15.93	9.51	1.33	16.68	9.81	1.10	17.61	10.18	0.91	18.52	10.55	0.72	19.47	10.93	0.54	650	13.64	11.78	1.54	14.54	12.20	1.35	15.27	12.55	1.12	16.13	12.96	0.94	16.96	13.36	0.76	17.78	13.76	0.59
			650	13.08	13.08	1.54	13.82	13.82	1.36	14.43	14.43	1.13	15.14	15.09	0.96	15.89	15.56	0.79	16.65	15.99	0.62	650	13.08	13.08	1.54	13.82	13.82	1.36	14.43	14.43	1.13	15.14	15.09	0.96	15.89	15.56	0.79	16.65	15.99	0.62
650	13.06	13.06	1.54	13.79	13.79	1.36	14.41	14.41	1.13	15.10	15.10	0.96	15.77	15.77	0.79	16.42	16.42	0.63	650	13.06	13.06	1.54	13.79	13.79	1.36	14.41	14.41	1.13	15.10	15.10	0.96	15.77	15.77	0.79	16.42	16.42	0.63			
75 (23.9)	72 (22.2)	67 (19.4)	STAGE 1																																					
			585	11.92	5.31	0.85	12.72	5.59	0.82	10.55	4.66	0.46	11.18	4.89	0.44	11.84	5.13	0.39	12.52	5.37	0.28	585	10.80	7.83	0.86	9.58	6.85	0.47	10.16	7.10	0.47	10.74	7.35	0.43	11.36	7.61	0.34			
			585	10.05	9.78	0.86	10.74	10.13	0.84	8.93	8.56	0.49	9.46	8.83	0.49	8.82	8.82	0.49	9.29	9.29	0.50	585	10.05	9.78	0.86	9.97	9.97	0.86	10.57	10.57	0.85	10.00	9.10	0.46	10.85	9.37	0.38			
			585	9.97	9.97	0.86	10.57	10.57	0.85	8.82	8.82	0.49	9.29	9.29	0.50	9.29	9.29	0.50	9.29	9.29	0.50	585	9.97	9.97	0.86	10.57	10.57	0.85	10.00	9.10	0.46	10.85	9.37	0.38						
			585	11.80	7.81	0.85	12.59	8.12	0.82	10.41	6.81	0.46	11.06	7.06	0.44	11.73	7.32	0.38	12.41	7.59	0.28	585	11.80	7.81	0.85	12.59	8.12	0.82	10.41	6.81	0.46	11.06	7.06	0.44	11.73	7.32	0.38	12.41	7.59	0.28
585	10.80	10.29	0.86	11.52	10.64	0.83	9.55	8.98	0.47	10.13	9.25	0.47	10.71	9.53	0.43	11.32	9.81	0.34	585	10.80	10.29	0.86	11.52	10.64	0.83	9.55	8.98	0.47	10.13	9.25	0.47	10.71	9.53	0.43	11.32	9.81	0.34			
585	10.06	10.06	0.86	11.26	11.28	0.84	9.40	9.40	0.48	9.89	9.89	0.48	10.37	10.37	0.44	10.87	10.87	0.36	585	10.06	10.06	0.86	11.26	11.28	0.84	9.40	9.40	0.48	9.89	9.89	0.48	10.37	10.37	0.44	10.87	10.87	0.36			
585	10.64	10.64	0.86	11.26	11.26	0.84	9.39	9.39	0.48	9.87	9.87	0.48	10.35	10.35	0.44	10.85	10.85	0.36	585	10.64	10.64	0.86	11.26	11.26	0.84	9.39	9.39	0.48	9.87	9.87	0.48	10.35	10.35	0.44	10.85	10.85	0.36			

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA924A

COOLING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL	2-STAGE (HI-Stage 5, Lo-Stage 2)				
					High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
*FEAN(B,F)005L		1.00	1.00		0.94	0.94	1.12	1.11	59*P2A060E14**12
FEAN(B,F)003L		0.96	1.00		0.94	0.99	1.09	1.09	59*P2A060E14**12
FE4ANB006L		0.98	1.08		0.94	1.00	1.09	1.09	59*P2A060E14**12
FE4ANF002L		0.96	1.00		0.94	0.99	1.09	1.09	59*P2A060E14**12
CAP**3614AL*		0.98	1.03	58CV(A.X)070-12	0.94	0.99	1.09	1.11	59*P2A060E14**12
CAP**3617AL*		0.98	1.03	58CV(A.X)070-12	0.94	0.99	1.09	1.11	59*P2A060E14**12
CNPV*3617AL*		0.98	1.08	58CV(A.X)070-12	0.95	1.00	1.08	1.11	59*P2A060E14**12
CNPV*3617AL*		0.97	1.01	58CV(A.X)070-12	0.95	0.99	1.09	1.10	59*P2A060E14**12
CNPV*3617AL*		0.97	1.02	58CV(A.X)070-12	0.93	0.98	1.10	1.10	59*P2A060E14**12
CNPV*4217AL*		0.96	1.00	58CV(A.X)070-12	0.93	0.98	1.10	1.10	59*P2A060E14**12
CSPH*3612AL*		1.00	1.05	58CV(A.X)070-12	0.95	1.00	1.11	1.13	59*P2A060E17**14
CSPH*4212AL*		1.00	1.05	58CV(A.X)070-12	0.95	1.00	1.11	1.13	59*P2A060E17**14
CAP**3617AL*		0.98	1.03	58CV(A.X)090-16	0.95	0.99	1.12	1.11	59*P2A060E17**16
CAP**3621AL*		0.98	1.03	58CV(A.X)090-16	0.93	0.93	1.08	1.10	59*P2A060E17**16
CAP**3621AL*		0.98	1.04	58CV(A.X)090-16	0.93	0.93	1.08	1.10	59*P2A060E17**16
CNPV*3617AL*		0.97	1.01	58CV(A.X)090-16	0.94	0.94	1.07	1.17	59*P5A040E14**10
CNPV*3621AL*		0.97	1.01	58CV(A.X)090-16	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*3717AL*		0.97	0.97	58CV(A.X)090-16	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*4217AL*		0.96	1.00	58CV(A.X)090-16	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*4217AL*		0.96	1.00	58CV(A.X)090-16	0.94	0.94	1.07	1.17	59*P5A040E14**10
CSPH*3612AL*		1.00	1.00	58CV(A.X)090-16	0.94	0.94	1.07	1.17	59*P5A040E14**10
CSPH*4212AL*		1.01	1.01	58CV(A.X)090-16	0.93	0.93	1.07	1.17	59*P5A040E14**10
CAP**3617AL*		0.98	1.03	59*N*A060V17**14	0.93	0.93	1.07	1.17	59*P5A040E14**10
CAP**3621AL*		0.98	1.03	59*N*A060V17**14	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*3617AL*		0.98	1.08	59*N*A060V17**14	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*3617AL*		0.94	1.03	59*N*A060V17**14	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*3621AL*		0.94	1.03	59*N*A060V17**14	0.93	0.93	1.07	1.17	59*P5A040E14**10
CNPV*4217AL*		0.95	1.04	59*N*A060V17**14	0.94	0.94	1.07	1.17	59*P5A040E14**10
CNPV*4217AL*		0.95	1.04	59*N*A060V17**14	0.94	0.94	1.07	1.17	59*P5A040E14**10
CSPH*3612AL*		1.00	1.05	59*N*A060V17**14	0.95	0.95	1.08	1.13	59*P5A040E14**10
CAP**3617AL*		0.98	1.03	59*N*A060V17**14	0.95	0.95	1.08	1.13	59*P5A040E14**10
CAP**3621AL*		0.98	1.03	59*N*A060V17**14	0.95	0.95	1.08	1.13	59*P5A040E14**10
CNPV*3617AL*		0.99	1.04	59*N*A060V17**14	0.94	0.94	1.07	1.13	59*P5A040E14**10
CNPV*3617AL*		0.95	1.04	59*N*A060V17**14	0.94	0.94	1.07	1.13	59*P5A040E14**10
CNPV*3621AL*		0.95	1.04	59*N*A060V17**14	0.94	0.94	1.07	1.13	59*P5A040E14**10
CNPV*3717AL*		0.97	1.02	59*N*A060V17**14	0.95	0.95	1.07	1.13	59*P5A040E14**10
CNPV*4217AL*		0.95	1.04	59*N*A060V17**14	0.93	0.93	1.07	1.13	59*P5A040E14**10
CSPH*3612AL*		0.99	1.04	59*N*A060V17**14	0.94	0.94	1.07	1.13	59*P5A040E14**10
CSPH*4212AL*		1.00	1.05	59*N*A060V17**14	0.95	0.95	1.07	1.13	59*P5A040E14**10
CAP**3617AL*		0.98	1.03	59*N*A060V17**14	0.95	0.95	1.07	1.13	59*P5A040E14**10
CAP**4221AL*		0.98	1.04	59MN7A060V21**20	0.97	0.97	1.07	1.16	59*P5A060E17**14
CNPV*3617AL*		0.99	1.04	59MN7A060V21**20	0.97	0.97	1.07	1.16	59*P5A060E17**14

COOLING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL	2-STAGE (HI-Stage 5, Lo-Stage 2)				
					High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model
FV4CN(B,F)003L		0.94	0.94		0.94	0.94	0.99	0.94	
FV4CNF002L		0.94	0.94		0.94	0.99	1.00	0.97	
CAP**2414AL*		0.94	0.99	58PH*045-08	0.94	0.99	1.08	1.12	58PH*045-08
CAP**2417AL*		0.94	0.99	58PH*045-08	0.94	0.99	1.08	1.12	58PH*045-08
CAP**3014AL*		0.95	0.95	58PH*045-08	0.95	0.95	1.08	1.11	58PH*045-08
CAP**3017AL*		0.95	0.95	58PH*045-08	0.95	0.95	1.08	1.11	58PH*045-08
CNPV*2412AL*		0.93	0.98	58PH*045-08	0.93	0.98	1.08	1.12	58PH*045-08
CNPV*2417AL*		0.93	0.98	58PH*045-08	0.93	0.98	1.08	1.12	58PH*045-08
CNPV*3014AL*		0.95	1.00	58PH*045-08	0.95	1.00	1.08	1.11	58PH*045-08
CNPV*3017AL*		0.95	1.00	58PH*045-08	0.95	1.00	1.08	1.11	58PH*045-08
CNPV*3117AL*		0.95	1.12	58PH*045-08	0.95	1.12	1.11	1.09	58PH*045-08
CAP**2414AL*		0.93	0.93	58CTW045-12	0.93	0.93	1.08	1.08	58CTW045-12
CAP**2417AL*		0.94	0.94	58CTW045-12	0.94	0.94	1.08	1.07	58CTW045-12
CAP**3014AL*		0.93	0.93	58CTW045-12	0.93	0.93	1.10	1.09	58CTW045-12
CAP**3017AL*		0.93	0.93	58CTW045-12	0.93	0.93	1.11	1.09	58CTW045-12
CNPV*2414AL*		0.93	0.98	58CTW045-12	0.93	0.98	1.08	1.07	58CTW045-12
CNPV*2417AL*		0.93	0.98	58CTW045-12	0.93	0.98	1.08	1.07	58CTW045-12
CNPV*3014AL*		0.93	0.97	58CTW045-12	0.93	0.97	1.10	1.09	58CTW045-12
CNPV*3017AL*		0.93	0.93	58CTW045-12	0.93	0.93	1.11	1.09	58CTW045-12
CNPV*3117AL*		0.94	0.94	58CTW045-12	0.94	0.94	1.12	1.06	58CTW045-12
CSPH*3012AL*		0.93	0.93	58CTW070-16	0.93	0.93	1.11	1.08	58CTW070-16
CAP**2417AL*		0.93	0.93	58CTW070-16	0.93	0.93	1.11	1.08	58CTW070-16
CAP**3017AL*		0.93	0.93	58CTW070-16	0.93	0.93	1.11	1.08	58CTW070-16
CNPV*2417AL*		0.96	1.05	58CTW070-16	0.96	1.05	1.09	1.07	58CTW070-16
CNPV*3017AL*		0.93	0.93	58CTW070-16	0.93	0.93	1.11	1.08	58CTW070-16
CNPV*3117AL*		0.95	0.95	58CTW070-16	0.95	0.95	1.12	1.05	58CTW070-16
CSPH*2412AL*		0.97	1.01	58CTW070-16	0.97	1.01	1.09	1.08	58CTW070-16
CSPH*3012AL*		0.94	0.94	58CTW070-16	0.94	0.94	1.13	1.15	58CTW070-16
CSPH*3012AL*		0.95	0.95	58CTW070-16	0.95	0.95	1.14	1.12	58CTW070-16
CAP**2414AL*		0.95	1.00	59*P2A040E14**10	0.95	1.00	1.08	1.13	59*P2A040E14**10
CAP**2417AL*		0.93	0.98	59*P2A040E14**10	0.93	0.98	1.08	1.13	59*P2A040E14**10
CAP**3014AL*		0.94	0.99	59*P2A040E14**10	0.94	0.99	1.07	1.12	59*P2A040E14**10
CAP**3017AL*		0.95	1.00	59*P2A040E14**10	0.95	1.00	1.08	1.12	59*P2A040E14**10
CNPV*2414AL*		0.93	0.97	59*P2A040E14**10	0.93	0.97	1.07	1.13	59*P2A040E14**10
CNPV*2417AL*		0.93	0.97	59*P2A040E14**10	0.93	0.97	1.07	1.13	59*P2A040E14**10
CNPV*3014AL*		0.94	0.99	59*P2A040E14**10	0.94	0.99	1.07	1.12	59*P2A040E14**10
CNPV*3017AL*		0.95	1.00	59*P2A040E14**10	0.95	1.00	1.08	1.12	59*P2A040E14**10
CNPV*3117AL*		0.94	0.94	59*P2A040E14**10	0.94	0.94	1.11	1.11	59*P2A040E14**10
CSPH*2412AL*		0.96	1.00	59*P2A040E14**10	0.96	1.00	1.10	1.23	59*P2A040E14**10
CSPH*3012AL*		0.97	1.01	59*P2A040E14**10	0.97	1.01	1.09	1.11	59*P2A040E14**10
CAP**2417AL*		0.93	0.98	59*P2A040E17**12	0.93	0.98	1.07	1.12	59*P2A040E17**12
CAP**3017AL*		0.95	1.00	59*P2A040E17**12	0.95	1.00	1.08	1.13	59*P2A040E17**12
CNPV*2417AL*		0.95	1.05	59*P2A040E17**12	0.95	1.05	1.08	1.13	59*P2A040E17**12
CNPV*3017AL*		0.95	1.05	59*P2A040E17**12	0.95	1.05	1.08	1.13	59*P2A040E17**12
CNPV*3117AL*		0.97	1.01	59*P2A040E17**12	0.97	1.01	1.09	1.10	59*P2A040E17**12
CNPV*4217AL*		0.93	0.97	59*P2A040E17**12	0.93	0.97	1.07	1.13	59*P2A040E17**12
CNPV*3017AL*		0.95	1.00	59*P2A040E17**12	0.95	1.00	1.08	1.12	59*P2A040E17**12
CNPV*3117AL*		0.97	1.01	59*P2A040E17**12	0.97	1.01	1.09	1.10	59*P2A040E17**12
CSPH*2412AL*		0.96	1.00	59*P2A040E17**12	0.96	1.00	1.10	1.25	59*P2A040E17**12
CAP**2414AL*		0.94	0.94	59*P2A060E14**12	0.94	0.94	1.09	1.10	59*P2A060E14**12
CAP**2417AL*		0.95	0.95	59*P2A060E14**12	0.95	0.95	1.10	1.10	59*P2A060E14**12
CAP**3014AL*		0.93	0.93	59*P2A060E14**12	0.93	0.93	1.11	1.11	59*P2A060E14**12

See notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB *F (°C)	EVAR. AIR *F (°C)	24VNA924B / FE4ANF002L Efficiency Mode Condenser Entering Air Temperature * F (°C)																			
		115 (46.1)				105 (40.5)				85 (35)				75 (23.9)				65 (18.3)			
		ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**
75 (23.9)	72 (22.2)		23.43	9.90	2.85	25.03	10.49	2.52	26.46	11.02	2.20	28.00	11.60	1.91	29.51	12.16	1.63	31.01	12.73	1.37	
	67 (19.4)	825	21.30	13.70	2.81	22.76	14.32	2.49	24.07	14.89	2.18	25.46	15.50	1.90	26.82	16.10	1.63	28.19	16.70	1.38	
	63 (17.2)		19.74	16.69	2.78	21.07	17.34	2.47	22.29	17.94	2.17	23.58	18.57	1.89	24.85	19.20	1.63	26.11	19.82	1.39	
	57 (13.9)		18.74	18.74	2.76	19.81	19.81	2.45	20.78	20.78	2.15	21.79	21.79	1.88	22.78	22.78	1.63	23.74	23.74	1.39	
	72 (22.2)		23.36	13.70	2.85	24.96	14.32	2.52	26.39	14.88	2.20	27.83	15.49	1.91	29.44	16.09	1.63	30.94	16.69	1.37	
80 (26.7)	67 (19.4)	825	21.24	17.45	2.81	22.69	18.11	2.49	24.00	18.72	2.18	25.39	19.36	1.90	26.76	19.99	1.63	28.12	20.63	1.38	
	63 (17.2)		19.96	19.96	2.78	21.18	20.93	2.47	22.35	21.63	2.17	23.61	22.34	1.89	24.86	23.02	1.63	26.10	23.70	1.38	
	57 (13.9)		19.93	19.93	2.78	21.05	21.05	2.47	22.07	22.07	2.16	23.12	23.12	1.89	24.16	24.16	1.63	25.17	25.17	1.39	
	72 (22.2)		16.60	7.18	1.72	17.75	7.59	1.53	18.75	7.96	1.31	19.88	8.37	1.12	20.99	8.78	0.94	22.08	9.18	0.77	
	67 (19.4)	650	15.01	10.22	1.72	16.06	10.66	1.53	16.99	11.06	1.32	18.00	11.49	1.14	18.99	11.92	0.97	19.97	12.34	0.81	
80 (26.7)	63 (17.2)		13.88	12.59	1.71	14.82	13.06	1.54	15.70	13.48	1.32	16.62	13.94	1.15	17.52	14.38	0.99	18.40	14.82	0.84	
	57 (13.9)		13.48	13.48	1.71	14.25	14.25	1.54	14.97	14.97	1.32	15.70	15.70	1.16	16.40	16.40	1.01	17.10	17.10	0.86	
	72 (22.2)		16.54	10.24	1.72	17.69	10.68	1.53	18.68	11.07	1.31	19.81	11.51	1.12	20.92	11.94	0.94	22.01	12.37	0.77	
	67 (19.4)	650	14.98	13.23	1.72	16.01	13.70	1.53	16.94	14.13	1.32	17.95	14.59	1.14	18.93	15.05	0.97	19.91	15.50	0.81	
	63 (17.2)		14.42	14.42	1.72	15.24	15.24	1.53	15.99	15.99	1.32	16.77	16.77	1.15	17.61	17.39	0.99	18.46	17.89	0.83	
75 (23.9)	57 (13.9)		14.40	14.40	1.72	15.22	15.22	1.53	15.96	15.96	1.32	16.74	16.74	1.15	17.50	17.50	0.99	18.23	18.23	0.84	
	72 (22.2)		14.01	6.30	1.38	15.00	6.65	1.24	9.25	4.60	0.54	9.85	4.81	0.46	10.45	5.01	0.37	11.04	5.22	0.29	
	67 (19.4)	650	12.64	9.35	1.39	13.52	9.73	1.25	8.32	7.38	0.55	8.85	7.61	0.48	9.37	7.84	0.40	9.89	8.07	0.33	
	63 (17.2)		11.71	11.62	1.39	12.49	12.06	1.26	8.11	8.11	0.55	8.56	8.56	0.48	9.00	9.00	0.41	9.43	9.43	0.34	
	57 (13.9)		11.67	11.67	1.39	12.35	12.35	1.26	8.11	8.11	0.55	8.55	8.55	0.48	8.98	8.98	0.41	9.42	9.42	0.34	
80 (26.7)	72 (22.2)		13.95	9.39	1.38	14.94	9.76	1.24	9.20	7.43	0.54	9.80	7.66	0.45	10.39	7.90	0.37	10.96	8.13	0.29	
	67 (19.4)	650	12.66	12.32	1.39	13.52	12.75	1.25	8.77	8.77	0.54	9.26	9.26	0.47	9.73	9.73	0.39	10.19	10.19	0.31	
	63 (17.2)		12.55	12.55	1.39	13.28	13.28	1.26	8.77	8.77	0.54	9.25	9.25	0.47	9.72	9.72	0.39	10.18	10.18	0.31	
	57 (13.9)		12.53	12.53	1.39	13.26	13.26	1.26	8.76	8.76	0.54	9.24	9.24	0.47	9.71	9.71	0.39	10.17	10.17	0.31	

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAR AIR	EWB °F (°C)	24VNA925/FE4ANF005 Efficiency Mode Condenser Entering Air Temperature °F (°C)																														
			115 (46.1)				105 (40.5)				85 (35)				85 (29.4)				75 (23.9)				65 (18.3)										
			ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**							
STAGE 5																																	
75 (23.9)	72 (22.2)	23.68	9.99	2.51	25.12	10.51	2.21	26.43	11.00	1.90	27.77	11.50	1.62	29.08	11.99	1.34	30.34	12.47	1.07	825	825	825	825	825	825	825	825	825	825	825	825		
	67 (19.4)	21.55	13.82	2.50	22.88	14.39	2.21	24.10	14.93	1.92	25.35	15.48	1.65	26.55	16.01	1.39	27.72	16.54	1.13	825	825	825	825	825	825	825	825	825	825	825	825		
	63 (17.2)	19.97	16.81	2.49	21.22	17.43	2.22	22.38	18.00	1.93	23.54	18.59	1.67	24.67	19.16	1.42	25.77	19.72	1.17	825	825	825	825	825	825	825	825	825	825	825	825	825	
	57 (13.9)	18.96	18.96	2.48	19.97	19.97	2.21	20.91	20.91	1.94	21.84	21.84	1.69	22.75	22.75	1.45	23.62	23.62	1.21	825	825	825	825	825	825	825	825	825	825	825	825	825	
	72 (22.2)	23.52	13.77	2.50	24.94	14.33	2.20	26.25	14.85	1.90	27.59	15.38	1.61	28.89	15.91	1.34	30.15	16.42	1.07	825	825	825	825	825	825	825	825	825	825	825	825	825	
80 (26.7)	67 (19.4)	21.46	17.56	2.50	22.78	18.18	2.21	24.00	18.75	1.92	25.24	19.33	1.65	26.45	19.90	1.39	27.61	20.46	1.13	825	825	825	825	825	825	825	825	825	825	825	825	825	
	63 (17.2)	20.19	20.19	2.49	21.30	21.10	2.22	22.43	21.76	1.93	23.57	22.40	1.67	24.68	23.02	1.42	25.77	23.62	1.17	825	825	825	825	825	825	825	825	825	825	825	825	825	
	57 (13.9)	20.15	20.15	2.49	21.20	21.20	2.22	22.18	22.18	1.93	23.15	23.15	1.67	24.09	24.09	1.43	25.00	25.00	1.19	825	825	825	825	825	825	825	825	825	825	825	825	825	
	72 (22.2)	15.55	6.67	1.25	16.54	7.02	1.17	17.29	7.30	1.03	18.23	7.64	0.91	19.14	7.98	0.77	20.05	8.32	0.61	650	650	650	650	650	650	650	650	650	650	650	650	650	650
	67 (19.4)	14.11	9.43	1.25	15.02	9.82	1.18	15.76	10.15	1.05	16.63	10.52	0.95	17.47	10.89	0.82	18.29	11.25	0.67	650	650	650	650	650	650	650	650	650	650	650	650	650	650
80 (26.7)	63 (17.2)	13.09	11.60	1.25	13.94	12.02	1.19	14.67	12.38	1.06	15.47	12.78	0.97	16.26	13.17	0.85	17.02	13.56	0.71	650	650	650	650	650	650	650	650	650	650	650	650	650	
	57 (13.9)	12.65	12.65	1.25	13.36	13.36	1.20	13.97	13.97	1.07	14.62	14.62	0.98	15.26	15.26	0.87	15.89	15.89	0.75	650	650	650	650	650	650	650	650	650	650	650	650	650	
	72 (22.2)	15.43	9.41	1.24	16.40	9.79	1.17	17.14	10.08	1.03	18.08	10.45	0.91	18.99	10.81	0.77	19.94	11.19	0.61	650	650	650	650	650	650	650	650	650	650	650	650	650	650
	67 (19.4)	14.07	12.14	1.25	14.97	12.56	1.18	15.70	12.91	1.05	16.56	13.31	0.94	17.39	13.70	0.82	18.21	14.09	0.67	650	650	650	650	650	650	650	650	650	650	650	650	650	650
	63 (17.2)	13.49	13.49	1.25	14.23	14.23	1.19	14.84	14.84	1.06	15.54	15.49	0.96	16.30	15.95	0.84	17.05	16.38	0.71	650	650	650	650	650	650	650	650	650	650	650	650	650	650
75 (23.9)	72 (22.2)	12.12	5.39	0.73	12.92	5.68	0.75	13.47	5.99	0.73	14.20	6.27	0.75	14.81	6.56	0.75	15.49	6.85	0.75	585	585	585	585	585	585	585	585	585	585	585	585	585	
	67 (19.4)	10.98	7.95	0.74	11.73	8.27	0.77	12.48	8.56	0.77	13.19	8.85	0.77	13.80	9.14	0.77	14.51	9.43	0.77	585	585	585	585	585	585	585	585	585	585	585	585	585	
	63 (17.2)	10.22	9.94	0.74	10.91	10.29	0.77	11.60	10.56	0.77	12.30	10.85	0.77	12.99	11.14	0.77	13.68	11.43	0.77	585	585	585	585	585	585	585	585	585	585	585	585	585	
	57 (13.9)	10.14	10.14	0.74	10.74	10.74	0.78	11.34	10.74	0.78	11.94	10.74	0.78	12.54	10.74	0.78	13.14	10.74	0.78	585	585	585	585	585	585	585	585	585	585	585	585	585	
	72 (22.2)	11.99	7.94	0.73	12.79	8.25	0.75	13.48	8.56	0.75	14.17	8.84	0.75	14.86	9.12	0.75	15.55	9.40	0.75	585	585	585	585	585	585	585	585	585	585	585	585	585	585
80 (26.7)	67 (19.4)	10.97	10.45	0.74	11.70	10.80	0.76	12.45	10.98	0.76	13.20	11.07	0.76	13.95	11.25	0.76	14.70	11.52	0.76	585	585	585	585	585	585	585	585	585	585	585	585	585	
	63 (17.2)	10.83	10.83	0.74	11.46	11.46	0.77	12.09	11.46	0.77	12.72	11.46	0.77	13.35	11.46	0.77	14.00	11.46	0.77	585	585	585	585	585	585	585	585	585	585	585	585	585	
	57 (13.9)	10.82	10.82	0.74	11.44	11.44	0.77	12.07	11.44	0.77	12.70	11.44	0.77	13.33	11.44	0.77	13.96	11.44	0.77	585	585	585	585	585	585	585	585	585	585	585	585	585	
	72 (22.2)	12.12	5.39	0.73	12.92	5.68	0.75	13.47	5.99	0.73	14.20	6.27	0.75	14.81	6.56	0.75	15.49	6.85	0.75	585	585	585	585	585	585	585	585	585	585	585	585	585	585
	67 (19.4)	10.98	7.95	0.74	11.73	8.27	0.77	12.48	8.56	0.77	13.19	8.85	0.77	13.80	9.14	0.77	14.51	9.43	0.77	585	585	585	585	585	585	585	585	585	585	585	585	585	585

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA925

COOLING INDOOR MODEL		2-STAGE (HI-Stage 5, Lo-Stage 2)				2-STAGE (HI-Stage 5, Lo-Stage 2)			
Model	Furnace Model	Capacity	Power	High Speed Cap.	Low Speed Cap.	Model	Furnace Model	High Speed Cap.	Low Speed Cap.
*FE4AN(F)005L		1.00	1.00	0.94	0.99	CAP**3017AL*		0.94	1.12
FE4AN(B)F003L		0.96	0.98	0.94	0.99	CNPV*2414AL*		0.94	1.11
FE4AN(B)006L		0.98	1.07	0.97	1.00	CNPV*2412AL*		0.94	1.09
FE4AN(F)002L		0.98	0.98	0.97	1.00	CNPV*3014AL*		0.93	1.09
CAP**3617AL*	58CV(A)X070-12	0.98	1.01	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.93	1.11
CAP**3617AL*	58CV(A)X070-12	0.98	1.01	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.94	1.11
CNPV*3617AL*	58CV(A)X070-12	0.98	1.02	1.11	1.09	CNPV*3017AL*	58PH*045-08	0.94	1.11
CNPV*3617AL*	58CV(A)X070-12	0.97	0.99	1.08	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.09
CNPV*3717AL*	58CV(A)X070-12	0.98	1.00	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.10
CNPV*3717AL*	58CV(A)X070-12	0.98	1.00	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.10
CNPV*3612AL*	58CV(A)X070-12	1.00	1.02	1.11	1.09	CNPV*3017AL*	58PH*045-08	0.94	1.10
CSPH*4212AL*	58CV(A)X070-12	1.00	1.02	1.11	1.09	CNPV*3017AL*	58PH*045-08	0.94	1.10
CAP**3617AL*	58CV(A)X090-16	0.98	1.01	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.94	1.10
CAP**3617AL*	58CV(A)X090-16	0.98	1.01	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.94	1.10
CAP**4221AL*	58CV(A)X090-16	0.99	0.99	1.08	1.08	CNPV*3017AL*	58PH*045-08	0.94	1.10
CNPV*3617AL*	58CV(A)X090-16	0.98	1.01	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.07
CNPV*4212AL*	58CV(A)X090-16	0.98	1.02	1.11	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.07
CNPV*3617AL*	58CV(A)X090-16	0.98	1.01	1.12	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.07
CNPV*3617AL*	58CV(A)X090-16	0.97	0.99	1.08	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.07
CNPV*3717AL*	58CV(A)X090-16	0.98	0.98	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.93	1.11
CNPV*4212AL*	58CV(A)X090-16	0.96	0.98	1.12	1.06	CNPV*3017AL*	58PH*045-08	0.93	1.11
CNPV*4212AL*	58CV(A)X090-16	0.98	0.98	1.12	1.06	CNPV*3017AL*	58PH*045-08	0.95	1.08
CSPH*3612AL*	58CV(A)X090-16	1.00	1.00	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CSPH*4212AL*	58CV(A)X090-16	1.01	1.01	1.08	1.11	CNPV*3017AL*	58PH*045-08	0.98	1.11
CAP**3617AL*	58CV(A)X090-16	0.98	0.96	1.11	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**3617AL*	58CV(A)X090-16	0.98	0.97	1.11	1.09	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**3621AL*	58CV(A)X090-16	0.98	1.01	1.07	1.07	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**4221AL*	58CV(A)X090-16	0.98	1.01	1.07	1.07	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090-16	0.98	1.11	1.08	1.11	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*4212AL*	58CV(A)X090-16	0.98	0.98	1.12	1.06	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090-16	0.94	0.97	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090-16	0.94	0.97	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3621AL*	58CV(A)X090-16	0.94	0.97	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3717AL*	58CV(A)X090-16	0.98	1.00	1.12	1.06	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*4212AL*	58CV(A)X090-16	0.95	0.98	1.13	1.15	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*4212AL*	58CV(A)X090-16	1.00	1.02	1.14	1.12	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**3617AL*	58CV(A)X090V17**14	0.98	1.01	1.08	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**3621AL*	58CV(A)X090V17**14	0.98	1.01	1.08	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**4221AL*	58CV(A)X090V17**14	0.98	1.01	1.08	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090V17**14	0.98	1.11	1.08	1.11	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*4212AL*	58CV(A)X090V17**14	0.98	1.12	1.08	1.11	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090V17**14	0.94	0.97	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090V17**14	0.94	0.97	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3621AL*	58CV(A)X090V17**14	0.94	0.97	1.11	1.08	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3717AL*	58CV(A)X090V17**14	0.98	1.00	1.12	1.06	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*4212AL*	58CV(A)X090V17**14	0.95	0.98	1.13	1.15	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*4212AL*	58CV(A)X090V17**14	1.00	1.02	1.14	1.12	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**3617AL*	58CV(A)X090V17**14	0.98	1.01	1.08	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**3621AL*	58CV(A)X090V17**14	0.98	1.01	1.08	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CAP**4221AL*	58CV(A)X090V17**14	0.98	1.01	1.08	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090V17**14	0.98	1.08	1.12	1.06	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3617AL*	58CV(A)X090V17**14	0.95	1.03	1.12	1.12	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3621AL*	58CV(A)X090V17**14	0.95	1.03	1.12	1.12	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3717AL*	58CV(A)X090V17**14	0.98	1.01	1.07	1.13	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3612AL*	58CV(A)X090V17**14	0.95	0.99	1.11	1.11	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3612AL*	58CV(A)X090V17**14	0.95	0.99	1.11	1.11	CNPV*3017AL*	58PH*045-08	0.95	1.08
CNPV*3612AL*	58CV(A)X090V17**14	1.00	1.02	1.23	1.10	CNPV*3017AL*	58PH*045-08	0.96	1.09
CSPH*4212AL*	58CV(A)X090V17**14	1.00	1.02	1.23	1.10	CNPV*3017AL*	58PH*045-08	0.96	1.09
CAP**3621AL*	58CV(A)X090V17**14	0.98	1.01	1.12	1.12	CNPV*3017AL*	58PH*045-08	0.96	1.09
CAP**4221AL*	58CV(A)X090V17**14	0.99	1.02	1.13	1.13	CNPV*3017AL*	58PH*045-08	0.96	1.09
CAP**4224AL*	58CV(A)X090V17**14	0.99	1.02	1.13	1.13	CNPV*3017AL*	58PH*045-08	0.96	1.09

See notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °C (°F)	EVAR. AIR °F (°C)	24VNA936 / FEANF005 Efficiency Mode Condenser Entering Air Temperature * F (°C)																										
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)						
		ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sens	Total Sys. KW**			
STAGE 5																												
75 (23.9)	72 (22.2)	34.24	14.18	4.44	36.41	14.99	3.89	38.29	15.70	3.36	40.30	16.47	2.87	42.28	17.24	2.41	43.98	18.08	2.06	45.66	18.92	1.71	47.34	19.76	1.36	49.02	20.60	1.01
	67 (19.4)	31.38	19.07	4.38	33.35	19.95	3.85	35.13	20.75	3.34	36.99	21.60	2.87	38.79	22.42	2.43	40.39	23.26	2.02	42.07	24.10	1.67	43.75	24.94	1.32	45.13	25.72	1.00
	63 (17.2)	29.21	22.90	4.33	31.07	23.84	3.81	32.74	24.70	3.31	34.48	25.59	2.86	36.17	26.47	2.44	37.72	27.32	2.04	39.00	28.16	1.69	40.38	28.94	1.33	41.76	29.72	0.96
	57 (13.9)	27.05	27.05	4.27	28.50	28.50	3.77	29.85	29.85	3.28	31.20	31.20	2.84	32.65	32.25	2.44	34.08	33.21	2.06	35.44	33.81	1.71	36.82	34.31	1.36	38.10	34.80	1.00
	72 (22.2)	34.04	18.92	4.44	36.21	19.79	3.88	38.09	20.56	3.35	40.10	21.39	2.86	42.08	22.22	2.41	43.98	23.01	1.98	45.86	23.85	1.63	47.74	24.68	1.28	49.62	25.50	0.94
80 (26.7)	67 (19.4)	31.25	23.78	4.38	33.23	24.72	3.84	35.00	25.57	3.33	36.86	26.47	2.86	38.66	27.35	2.42	40.39	28.21	2.02	42.07	29.04	1.67	43.75	29.82	1.32	45.13	30.60	1.00
	63 (17.2)	29.21	27.55	4.33	31.05	28.56	3.81	32.70	29.48	3.31	34.43	30.44	2.86	36.11	31.38	2.43	37.72	32.28	2.04	39.00	33.16	1.69	40.38	33.94	1.33	41.76	34.72	0.96
	57 (13.9)	28.61	28.61	4.32	30.14	30.14	3.80	31.53	31.53	3.30	32.95	32.95	2.85	34.31	34.31	2.44	35.64	35.64	2.05	37.00	36.31	1.71	38.22	37.00	1.36	39.33	37.72	1.00
	72 (22.2)	21.81	9.32	1.96	23.25	9.85	1.83	24.29	10.24	1.67	25.66	10.75	1.50	27.01	11.26	1.31	28.33	11.75	1.10	29.99	12.31	0.96	31.66	13.36	0.71	33.34	14.26	0.56
	67 (19.4)	19.85	13.12	1.96	21.16	13.71	1.84	22.21	14.19	1.68	23.48	14.77	1.52	24.72	15.33	1.35	25.94	15.89	1.15	27.50	16.44	0.96	29.09	17.39	0.71	30.64	18.20	0.56
75 (23.9)	63 (17.2)	18.41	16.08	1.95	19.66	16.73	1.85	20.68	17.29	1.68	21.87	17.91	1.54	23.02	18.53	1.37	24.16	19.14	1.19	25.44	19.80	1.00	26.76	20.46	0.71	28.02	21.16	0.56
	57 (13.9)	17.71	17.71	1.95	18.75	18.75	1.85	19.63	19.63	1.68	20.61	20.61	1.54	21.57	21.57	1.39	22.50	22.50	1.22	23.48	23.48	1.00	24.46	24.46	0.71	25.44	25.44	0.56
	72 (22.2)	21.64	13.06	1.95	23.07	13.85	1.83	24.08	14.08	1.66	25.46	14.65	1.49	26.81	15.21	1.31	28.13	15.76	1.10	29.44	16.31	0.96	30.76	16.98	0.71	32.02	17.64	0.56
	67 (19.4)	19.77	16.83	1.95	21.09	17.48	1.84	22.11	18.01	1.67	23.37	18.64	1.52	24.60	19.26	1.35	25.82	19.87	1.15	27.08	20.04	0.96	28.31	20.72	0.71	29.60	21.40	0.56
	63 (17.2)	18.86	18.86	1.95	19.95	19.95	1.84	20.82	20.82	1.68	21.94	21.67	1.53	23.07	22.38	1.37	24.19	23.06	1.19	25.44	23.94	1.00	26.79	24.80	0.71	28.14	25.56	0.56
57 (13.9)	18.83	18.83	1.95	19.91	19.91	1.84	20.79	20.79	1.68	21.82	21.82	1.53	22.82	22.82	1.37	23.80	23.80	1.20	24.77	24.77	1.00	25.72	25.72	0.71	26.68	26.68	0.56	
75 (23.9)	72 (22.2)	14.74	6.58	0.98	15.80	6.96	1.00	10.82	4.81	0.48	11.57	5.09	0.46	12.38	5.38	0.39	13.21	5.69	0.27	14.04	6.00	0.39	14.81	6.31	0.27	15.58	6.52	0.27
	67 (19.4)	13.36	9.71	0.98	14.34	10.16	1.02	9.83	7.10	0.49	10.52	7.42	0.49	11.24	7.76	0.44	11.99	8.11	0.34	12.72	8.42	0.39	13.49	8.63	0.27	14.14	8.85	0.27
	63 (17.2)	12.47	12.13	0.98	13.37	12.65	1.03	9.17	8.88	0.51	9.81	9.25	0.51	10.45	9.62	0.47	11.13	10.00	0.38	11.81	10.22	0.48	12.50	10.41	0.39	13.17	10.60	0.27
	57 (13.9)	12.37	12.37	0.98	13.18	13.18	1.03	9.09	9.09	0.51	9.66	9.66	0.52	10.22	10.22	0.48	10.81	10.81	0.40	11.49	10.81	0.48	12.16	10.81	0.40	12.92	10.81	0.40
	72 (22.2)	14.58	9.69	0.97	15.63	10.12	1.00	10.67	7.06	0.47	11.46	7.39	0.46	12.27	7.73	0.39	13.08	8.07	0.27	13.85	8.37	0.39	14.64	8.66	0.27	15.41	8.95	0.27
80 (26.7)	67 (19.4)	13.36	12.75	0.98	14.32	13.27	1.02	9.80	9.32	0.49	10.49	9.70	0.49	11.21	10.08	0.44	11.95	10.47	0.34	12.72	10.89	0.45	13.49	11.52	0.36	14.26	12.08	0.36
	63 (17.2)	13.20	13.20	0.98	14.04	14.04	1.02	9.68	9.68	0.49	10.28	10.28	0.49	10.89	10.89	0.45	11.52	11.52	0.36	12.26	11.52	0.45	13.00	11.52	0.36	13.72	11.52	0.36
	57 (13.9)	13.18	13.18	0.98	14.02	14.02	1.02	9.67	9.67	0.49	10.26	10.26	0.49	10.87	10.87	0.45	11.50	11.50	0.36	12.26	11.50	0.45	12.92	11.50	0.36	13.58	11.50	0.36
	72 (22.2)	14.74	6.58	0.98	15.80	6.96	1.00	10.82	4.81	0.48	11.57	5.09	0.46	12.38	5.38	0.39	13.21	5.69	0.27	14.04	6.00	0.39	14.81	6.31	0.27	15.58	6.52	0.27
	67 (19.4)	13.36	9.71	0.98	14.34	10.16	1.02	9.83	7.10	0.49	10.52	7.42	0.49	11.24	7.76	0.44	11.99	8.11	0.34	12.72	8.42	0.39	13.49	8.63	0.27	14.14	8.85	0.27

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP AIR EWB °F (°C)	24VNA948 / FE4BN006 Efficiency Mode Condenser Entering Air Temperature °F (°C)																	
		115 (48.1)			105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)		
		ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†
STAGE 5																			
75 (23.9)	72 (22.2)	44.82	18.57	5.52	47.96	19.76	4.88	50.99	20.91	4.29	53.98	22.06	3.74	56.89	23.19	3.23	59.70	24.29	2.75
	67 (19.4)	40.99	24.95	5.42	43.86	26.26	4.80	46.65	27.54	4.23	49.36	28.80	3.70	52.01	30.04	3.21	54.60	31.27	2.75
	63 (17.2)	38.13	29.97	5.34	40.79	31.36	4.74	43.37	32.72	4.18	45.91	34.07	3.67	48.37	35.40	3.19	50.78	36.72	2.74
	57 (13.9)	35.29	35.29	5.26	37.41	37.41	4.66	39.46	39.46	4.12	41.45	41.45	3.62	43.58	43.09	3.16	45.70	44.59	2.73
	72 (22.2)	44.60	24.79	5.51	47.74	26.09	4.88	50.77	27.36	4.28	53.76	28.82	3.73	56.66	29.86	3.22	59.48	31.07	2.75
80 (26.7)	67 (19.4)	40.84	31.14	5.42	43.71	32.55	4.80	46.50	33.94	4.23	49.21	35.31	3.70	51.86	36.85	3.20	54.45	37.98	2.75
	63 (17.2)	38.13	36.06	5.34	40.76	37.59	4.74	43.33	39.07	4.18	45.84	40.54	3.67	48.30	41.98	3.18	50.70	43.40	2.74
	57 (13.9)	37.36	37.36	5.32	39.59	39.59	4.72	41.72	41.72	4.16	43.81	43.81	3.64	45.84	45.84	3.17	47.82	47.82	2.73
	72 (22.2)	29.42	12.82	2.82	31.60	13.43	2.56	33.63	14.20	2.26	35.75	15.00	2.00	37.82	15.78	1.74	39.85	16.55	1.49
	67 (19.4)	26.82	17.86	2.80	28.83	18.79	2.56	30.73	19.88	2.27	32.66	20.80	2.02	34.57	21.50	1.77	36.44	22.40	1.52
75 (23.9)	63 (17.2)	24.93	21.98	2.79	26.79	22.99	2.55	28.58	23.99	2.26	30.39	25.00	2.02	32.16	26.00	1.78	33.91	26.99	1.55
	57 (13.9)	24.03	24.03	2.78	25.61	25.61	2.55	27.12	27.12	2.26	28.62	28.62	2.03	30.11	30.11	1.80	31.55	31.55	1.57
	72 (22.2)	29.22	17.78	2.81	31.39	18.70	2.55	33.41	19.57	2.25	35.52	20.47	2.00	37.60	21.37	1.74	39.62	22.25	1.48
	67 (19.4)	26.71	22.96	2.80	28.71	24.01	2.56	30.60	25.01	2.26	32.52	26.03	2.01	34.42	27.05	1.77	36.30	28.05	1.52
	63 (17.2)	25.56	25.56	2.80	27.23	27.23	2.55	28.80	28.80	2.26	30.48	30.24	2.02	32.21	31.42	1.78	33.93	32.55	1.55
57 (13.9)	25.52	25.52	2.80	27.19	27.19	2.55	28.76	28.76	2.26	30.35	30.35	2.02	31.90	31.90	1.78	33.43	33.43	1.55	
STAGE 1																			
75 (23.9)	72 (22.2)	25.50	10.99	2.21	27.45	11.73	2.07	19.62	8.56	0.95	20.96	9.06	0.84	22.29	9.57	0.72	23.61	10.07	0.57
	67 (19.4)	23.22	15.65	2.21	25.04	16.51	2.08	17.88	12.38	0.98	19.11	12.99	0.88	20.32	13.60	0.76	21.53	14.21	0.62
	63 (17.2)	21.57	19.30	2.21	23.24	20.26	2.08	16.68	15.37	1.00	17.82	16.07	0.90	18.95	16.77	0.79	20.07	17.46	0.66
	57 (13.9)	20.89	20.89	2.20	22.32	22.32	2.08	16.33	16.33	1.00	17.34	17.34	0.91	18.34	18.34	0.81	19.33	19.33	0.68
	72 (22.2)	25.31	15.59	2.21	27.26	16.44	2.06	19.42	12.31	0.95	20.76	12.82	0.84	22.09	13.52	0.71	23.43	14.14	0.57
80 (26.7)	67 (19.4)	23.13	20.20	2.21	24.93	21.18	2.07	17.82	16.09	0.98	19.04	16.80	0.88	20.25	17.51	0.76	21.44	18.21	0.62
	63 (17.2)	22.25	22.25	2.21	23.77	23.77	2.08	17.35	17.35	0.98	18.41	18.41	0.89	19.46	19.46	0.78	20.50	20.50	0.65
	57 (13.9)	22.21	22.21	2.21	23.73	23.73	2.08	17.32	17.32	0.98	18.39	18.39	0.89	19.43	19.43	0.78	20.47	20.47	0.65
	72 (22.2)	25.50	10.99	2.21	27.45	11.73	2.07	19.62	8.56	0.95	20.96	9.06	0.84	22.29	9.57	0.72	23.61	10.07	0.57
	67 (19.4)	23.22	15.65	2.21	25.04	16.51	2.08	17.88	12.38	0.98	19.11	12.99	0.88	20.32	13.60	0.76	21.53	14.21	0.62

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAR. AIR	24VANA960 / FE4BNB006L Efficiency Mode Condenser Entering Air Temperature °F (°C)																										
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)						
		ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Total Sys. KW** Sens†	Total Sys. KW**			
STAGE 5																												
75 (23.9)	72 (22.2)	1600	55.38	22.79	7.70	59.00	24.17	6.73	62.54	25.53	5.88	65.96	26.86	5.13	69.30	28.16	4.47	72.59	29.46	3.89	1600	66.21	37.38	3.75	1600	61.52	43.58	3.65
	67 (19.4)	1600	50.63	30.18	7.50	53.95	31.68	6.54	57.12	33.14	5.70	60.22	34.57	4.96	63.25	35.99	4.32	66.21	37.38	3.75	1600	58.78	42.11	4.21	1600	55.26	52.62	3.52
	63 (17.2)	1600	47.11	36.00	7.35	50.18	37.58	6.40	53.13	39.12	5.57	55.99	40.62	4.84	58.78	42.11	4.21	61.52	43.58	3.65	1600	50.44	49.37	4.69	1600	47.24	58.26	3.89
	57 (13.9)	1600	43.16	43.16	7.19	45.55	45.55	6.23	47.97	47.63	5.40	50.44	49.37	4.69	52.86	51.01	4.06	55.26	52.62	3.52	1600	69.15	35.85	4.47	1600	66.10	45.08	3.75
	57 (13.9)	1600	55.24	30.04	7.70	58.86	31.53	6.73	62.40	33.00	5.88	65.82	34.44	5.13	69.15	35.85	4.47	72.44	37.26	3.89	1600	63.13	43.59	4.32	1600	61.44	51.25	3.65
80 (26.7)	72 (22.2)	1600	50.50	37.37	7.50	53.83	39.98	6.54	57.00	40.53	5.70	60.10	42.07	4.96	63.13	43.59	4.32	66.10	45.08	3.75	1600	47.09	43.10	7.35	1600	45.08	51.25	3.65
	67 (19.4)	1600	47.09	43.10	7.35	50.13	44.81	6.40	53.07	46.46	5.57	55.91	48.08	4.84	58.70	49.67	4.21	61.44	51.25	3.65	1600	45.08	51.25	3.65	1600	45.08	51.25	3.65
	63 (17.2)	1600	45.62	45.62	7.29	48.12	48.12	6.33	50.51	50.51	5.49	52.83	52.83	4.76	55.06	55.06	4.12	57.24	57.24	3.56	1600	55.06	55.06	4.12	1600	55.06	55.06	4.12
	57 (13.9)	1600	35.94	15.07	3.39	38.40	15.98	3.08	40.44	16.73	2.76	42.79	17.61	2.51	45.10	18.48	2.29	47.36	19.34	2.08	1350	32.49	20.54	3.35	1350	42.94	25.05	2.04
	57 (13.9)	1350	29.95	24.83	3.33	32.01	25.81	3.03	33.87	26.70	2.89	35.85	27.65	2.44	37.78	28.59	2.22	39.68	29.52	2.01	1350	28.14	28.14	3.32	1350	35.65	35.65	1.99
80 (26.7)	72 (22.2)	1350	35.82	20.59	3.39	38.29	21.54	3.08	40.32	22.34	2.76	42.67	23.26	2.51	44.98	24.17	2.29	47.24	25.07	2.08	1350	32.39	26.01	3.35	1350	42.84	30.72	2.04
	67 (19.4)	1350	32.39	26.01	3.35	34.62	26.99	3.05	36.56	27.87	2.72	38.70	28.83	2.47	40.78	29.77	2.24	42.84	30.72	2.04	1350	30.07	30.04	3.29	1350	39.65	35.14	2.01
	63 (17.2)	1350	30.07	30.04	3.29	32.09	31.18	3.03	33.90	32.16	2.89	35.85	33.17	2.44	37.76	34.16	2.22	39.65	35.14	2.01	1350	30.02	30.02	3.33	1350	37.82	37.82	2.00
	57 (13.9)	1350	30.02	30.02	3.33	31.70	31.70	3.03	33.22	33.22	2.88	34.80	34.80	2.43	36.33	36.33	2.21	37.82	37.82	2.00	1350	26.64	11.34	1.89	1350	24.89	10.21	0.75
	57 (13.9)	1200	23.86	15.71	1.89	25.60	16.40	1.84	18.63	11.93	1.02	19.89	12.40	1.00	21.11	12.85	0.92	22.30	13.31	0.77	1200	21.85	19.14	1.89	1200	20.34	15.69	0.79
75 (23.9)	72 (22.2)	1200	20.91	20.91	1.88	22.14	22.14	1.84	15.97	15.97	1.01	16.81	16.81	1.00	17.62	17.62	0.94	18.38	18.38	0.81	975	20.91	20.91	1.88	975	24.81	13.42	0.75
	67 (19.4)	1200	26.55	15.84	1.89	28.46	16.52	1.84	20.81	12.06	1.03	22.18	12.52	1.00	23.51	12.97	0.91	24.81	13.42	0.75	975	23.79	20.16	1.89	975	22.24	16.48	0.77
	63 (17.2)	1200	23.79	20.16	1.89	25.82	20.85	1.84	18.58	15.17	1.02	19.83	15.62	1.00	21.05	16.05	0.92	22.24	16.48	0.77	975	22.48	22.48	1.89	975	20.35	18.85	0.79
	57 (13.9)	1200	22.44	22.44	1.89	23.72	23.72	1.84	17.21	17.21	1.01	18.08	18.08	1.00	18.91	18.91	0.93	19.70	19.70	0.80	975	22.48	22.48	1.89	975	20.35	18.85	0.79
	57 (13.9)	1200	22.44	22.44	1.89	23.72	23.72	1.84	17.21	17.21	1.01	18.08	18.08	1.00	18.91	18.91	0.93	19.70	19.70	0.80	975	22.44	22.44	1.89	975	20.35	18.85	0.79

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA960

COOLING INDOOR MODEL		CAPACITY	POWER	FURNACE MODEL	2-STAGE (HI-Stage 5, Lo-Stage 2)					Furnace Model
Model	Capacity	Power	Furnace Model	Cooling Indoor Model	High Speed Cap.	Power	Low Speed Cap.	Power	Furnace Model	
*FE4ANB006L	1.00	1.00	58CV(A)X110-20	*FV4CNB006L	1.00	1.00	1.00	1.00	58PH*110-20	
CAP**6021AL*	0.99	0.99	58CV(A)X110-20	CAP**6021AL*	1.01	1.06	1.01	1.07	58PH*110-20	
CAP**6024AL*	0.99	0.99	58CV(A)X110-20	CAP**6024AL*	1.02	1.07	1.00	1.04	58PH*135-20	
CNPV*6124AL*	0.99	1.04	58CV(A)X110-20	CNPV*6124AL*	1.01	1.06	1.00	1.11	58PH*135-20	
CNPV*6024AL*	0.98	0.98	58CV(A)X110-20	CNPV*6024AL*	1.01	1.06	1.01	1.06	58PH*135-20	
CNPV*6124AL*	1.00	1.00	58CV(A)X110-20	CNPV*6124AL*	1.01	1.06	1.01	1.12	58PH*135-20	
CNPV*6024AL*	0.99	0.99	58CV(A)X135-22	CNPV*6024AL*	1.00	1.05	1.01	1.06	58PH*135-20	
CNPV*6124AL*	0.99	0.99	58CV(A)X135-22	CNPV*6124AL*	1.02	1.07	1.00	1.03	58PH*135-20	
CNPV*6024AL*	1.00	1.00	58CV(A)X135-22	CNPV*6024AL*	1.02	1.07	1.01	1.05	58PH*135-20	
CNPV*6124AL*	0.98	0.98	58CV(A)X155-22	CNPV*6124AL*	1.01	1.06	1.01	1.07	58PH*135-20	
CNPV*6024AL*	1.00	1.00	58CV(A)X155-22	CNPV*6024AL*	1.01	1.06	1.01	1.06	58PH*135-20	
CNPV*6124AL*	1.00	1.00	58CV(A)X155-22	CNPV*6124AL*	1.02	1.07	1.01	1.04	58PH*135-20	
CNPV*6024AL*	1.00	1.00	58CV(A)X155-22	CNPV*6024AL*	1.02	1.07	1.00	1.04	58PH*135-20	
CNPV*6124AL*	0.99	0.99	58CV(A)X155-22	CNPV*6124AL*	1.01	1.06	1.01	1.07	58PH*135-20	
CNPV*6024AL*	0.99	1.04	59*N*A080V21**20	CNPV*6024AL*	1.01	1.06	1.00	1.05	59*P2A100E21**20	
CNPV*6124AL*	0.99	1.04	59*N*A080V21**20	CNPV*6124AL*	1.01	1.06	1.01	1.07	59*P2A100E21**20	
CNPV*6024AL*	0.99	1.04	59*N*A080V21**20	CNPV*6024AL*	1.01	1.06	1.00	1.05	59*P2A100E21**20	
CNPV*6124AL*	0.99	1.04	59*N*A080V21**20	CNPV*6124AL*	1.01	1.06	1.01	1.07	59*P2A100E21**20	
CNPV*6024AL*	0.99	1.04	59*N*A100V21**22	CNPV*6024AL*	1.00	1.05	1.01	1.07	59*P2A120E24**20	
CNPV*6124AL*	0.98	0.98	59*N*A100V21**22	CNPV*6124AL*	1.00	1.05	1.01	1.04	59*P2A120E24**20	
CNPV*6024AL*	1.00	1.00	59*N*A100V21**22	CNPV*6024AL*	1.00	1.05	1.01	1.05	59*P2A120E24**20	
CNPV*6124AL*	0.99	1.04	59*N*A100V21**22	CNPV*6124AL*	0.99	1.04	1.01	1.11	59*P2A120E24**20	
CNPV*6024AL*	0.99	1.04	59*N*A120V24**22	CNPV*6024AL*	1.00	1.05	1.01	1.10	59*P2A120E24**20	
CNPV*6124AL*	0.98	0.98	59*N*A120V24**22	CNPV*6124AL*	1.00	1.05	1.01	1.11	59*P2A120E24**20	
CNPV*6024AL*	1.00	1.00	59*N*A120V24**22	CNPV*6024AL*	1.00	1.05	1.01	1.09	59*P2A120E24**20	
CNPV*6124AL*	0.99	0.99	59*N*A120V24**22	CNPV*6124AL*	0.99	1.04	1.01	1.11	59*P2A120E24**20	
CNPV*6024AL*	1.00	1.00	59*N*A120V24**22	CNPV*6024AL*	0.99	1.04	1.01	1.09	59*P2A120E24**20	
CNPV*6124AL*	0.98	1.03	59MN7A060V21**20	CNPV*6124AL*	1.00	1.05	1.00	1.09	59*P2A120E24**20	
CNPV*6024AL*	0.98	1.03	59MN7A060V21**20	CNPV*6024AL*	1.00	1.05	1.01	1.10	59*P2A120E24**20	
CNPV*6124AL*	0.98	1.09	59MN7A060V21**20	CNPV*6124AL*	1.00	1.05	1.01	1.09	59*P2A120E24**20	
CNPV*6024AL*	0.97	1.02	59MN7A060V21**20	CNPV*6024AL*	1.00	1.05	1.00	1.08	59*P2A120E24**20	
CNPV*6124AL*	0.99	1.04	59MN7A060V21**20	CNPV*6124AL*	0.99	1.04	1.01	1.09	59*P2A120E24**20	
CNPV*6024AL*	0.99	1.04	59MN7A060V21**20	CNPV*6024AL*	1.01	1.06	1.01	1.07	59*P2A120E24**20	
CNPV*6124AL*	0.99	1.04	59MN7A060V21**20	CNPV*6124AL*	1.01	1.06	1.01	1.11	59*P2A120E24**20	

See notes on page 34

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB °F (°C)	EVAP. AIR EWB °F (°C)	105 (40.5)				85 (35)				75 (23.9)				65 (18.3)			
		Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM
		Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		
STAGE 5																	
75 (23.9)	72 (22.2)	18.41	7.86	1.92	24.19	9.83	2.05	608	25.62	10.41	1.59	27.05	11.00	1.19	28.58	11.63	0.84
	67 (19.4)	16.71	10.40	1.94	22.02	12.63	2.06	608	23.35	13.37	1.62	24.68	14.13	1.23	26.09	15.02	0.89
	63 (17.2)	15.50	12.56	1.95	20.40	14.80	2.07	608	21.64	15.67	1.63	22.89	16.56	1.25	24.23	17.65	0.92
	57 (13.9)	14.52	14.52	1.95	18.30	18.00	2.07	608	19.43	19.04	1.65	20.56	20.13	1.28	21.81	21.49	0.95
	57 (13.9)	18.29	10.37	1.91	24.08	12.57	2.04	608	25.50	13.30	1.59	26.92	14.05	1.19	28.43	14.92	0.84
80 (26.7)	72 (22.2)	16.85	13.09	1.94	21.95	15.35	2.06	608	23.28	16.24	1.62	24.60	17.16	1.23	26.00	18.28	0.89
	67 (19.4)	15.55	15.22	1.95	20.38	17.52	2.07	608	21.62	18.53	1.63	22.87	19.59	1.25	24.20	20.91	0.92
	63 (17.2)	15.42	15.42	1.95	19.24	19.24	2.07	608	20.39	20.39	1.64	21.57	21.57	1.27	22.92	22.92	0.94
	57 (13.9)	15.17	6.19	1.32	15.89	6.46	1.09	437	16.82	6.84	0.91	17.81	7.24	0.73	18.87	7.68	0.54
	57 (13.9)	13.78	8.02	1.34	14.47	8.33	1.11	437	15.33	8.80	0.93	16.24	9.32	0.76	17.22	9.94	0.59
75 (23.9)	72 (22.2)	12.75	9.46	1.34	13.41	9.80	1.12	437	14.22	10.33	0.95	15.07	10.96	0.79	16.00	11.72	0.62
	67 (19.4)	11.46	11.46	1.35	12.02	11.94	1.12	437	12.74	12.57	0.97	13.52	13.34	0.82	14.39	14.31	0.66
	63 (17.2)	15.10	8.00	1.32	15.81	8.29	1.09	437	16.74	8.75	0.91	17.72	9.27	0.72	18.78	9.88	0.54
	57 (13.9)	13.74	9.82	1.34	14.42	10.15	1.11	437	15.28	10.70	0.93	16.19	11.34	0.76	17.16	12.14	0.59
	57 (13.9)	12.73	11.26	1.34	13.39	11.61	1.12	437	14.20	12.23	0.95	15.05	12.97	0.79	15.98	13.90	0.62
80 (26.7)	72 (22.2)	12.15	12.15	1.34	12.69	12.69	1.12	437	13.42	13.42	0.96	14.24	14.24	0.80	15.18	15.18	0.64
	67 (19.4)	11.86	4.74	0.81	9.26	3.75	0.47	250	9.75	3.95	0.47	10.23	4.15	0.43	10.72	4.35	0.36
	63 (17.2)	10.56	6.08	0.83	8.39	4.68	0.48	250	8.84	4.89	0.49	9.27	5.09	0.47	9.70	5.30	0.40
	57 (13.9)	9.75	7.13	0.83	7.74	5.40	0.49	250	8.15	5.61	0.51	8.56	5.83	0.49	8.96	6.04	0.44
	57 (13.9)	8.68	8.68	0.84	6.85	6.46	0.49	250	7.22	6.68	0.52	7.59	6.90	0.52	7.95	7.12	0.48
75 (23.9)	72 (22.2)	11.61	6.08	0.81	9.23	4.68	0.47	250	9.72	4.88	0.47	10.20	5.09	0.43	10.68	5.30	0.36
	67 (19.4)	10.53	7.41	0.83	8.37	5.60	0.48	250	8.81	5.82	0.49	9.25	6.03	0.47	9.68	6.24	0.40
	63 (17.2)	9.73	8.46	0.83	7.72	6.32	0.49	250	8.14	6.54	0.51	8.54	6.76	0.49	8.95	6.98	0.44
	57 (13.9)	9.21	9.21	0.83	7.09	7.09	0.49	250	7.40	7.40	0.52	7.70	7.70	0.51	8.00	8.00	0.48
	57 (13.9)	11.66	4.74	0.81	8.99	3.64	0.47	222	9.59	3.89	0.48	9.99	4.06	0.44	10.66	4.33	0.36
80 (26.7)	72 (22.2)	10.56	6.08	0.83	8.13	4.46	0.48	222	8.68	4.76	0.50	9.04	4.92	0.46	9.65	5.25	0.41
	67 (19.4)	9.75	7.13	0.83	7.49	5.09	0.49	222	8.00	5.44	0.51	8.34	5.58	0.50	8.91	5.98	0.44
	63 (17.2)	8.68	8.68	0.84	6.83	6.02	0.49	222	7.09	6.43	0.52	7.39	6.56	0.52	7.90	7.04	0.48
	57 (13.9)	11.61	6.08	0.81	8.96	4.47	0.47	222	9.55	4.76	0.47	9.96	4.92	0.44	10.62	5.26	0.36
	57 (13.9)	10.53	7.41	0.83	8.11	5.28	0.48	222	8.66	5.63	0.50	9.02	5.78	0.46	9.63	6.18	0.41
75 (23.9)	72 (22.2)	9.73	8.46	0.83	7.48	5.91	0.49	222	7.99	6.31	0.51	8.33	6.44	0.50	8.89	6.91	0.44
	67 (19.4)	9.21	9.21	0.83	6.73	6.73	0.49	222	7.19	7.19	0.52	7.40	7.40	0.52	7.93	7.93	0.48
	63 (17.2)	11.66	4.74	0.81	8.99	3.64	0.47	222	9.59	3.89	0.48	9.99	4.06	0.44	10.66	4.33	0.36
	57 (13.9)	10.56	6.08	0.83	8.13	4.46	0.48	222	8.68	4.76	0.50	9.04	4.92	0.46	9.65	5.25	0.41
	57 (13.9)	9.75	7.13	0.83	7.49	5.09	0.49	222	8.00	5.44	0.51	8.34	5.58	0.50	8.91	5.98	0.44
80 (26.7)	72 (22.2)	8.68	8.68	0.84	6.83	6.02	0.49	222	7.09	6.43	0.52	7.39	6.56	0.52	7.90	7.04	0.48
	67 (19.4)	11.61	6.08	0.81	8.96	4.47	0.47	222	9.55	4.76	0.47	9.96	4.92	0.44	10.62	5.26	0.36
	63 (17.2)	10.53	7.41	0.83	8.11	5.28	0.48	222	8.66	5.63	0.50	9.02	5.78	0.46	9.63	6.18	0.41
	57 (13.9)	9.73	8.46	0.83	7.48	5.91	0.49	222	7.99	6.31	0.51	8.33	6.44	0.50	8.89	6.91	0.44
	57 (13.9)	9.21	9.21	0.83	6.73	6.73	0.49	222	7.19	7.19	0.52	7.40	7.40	0.52	7.93	7.93	0.48

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB F (°C)	EVAP. AIR EWB F (°C)	105 (40.5)				85 (28.4)				75 (23.9)				65 (18.3)			
		Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	
		Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		
STAGE 5																	
75 (23.9)	72 (22.2)	24.23	9.92	2.44	2.12	26.93	10.95	1.84	28.54	11.60	1.58	30.28	12.32	1.33			
	67 (19.4)	22.01	12.96	2.42	2.10	24.45	14.00	1.83	25.91	14.82	1.58	27.51	15.77	1.34			
	63 (17.2)	20.38	15.34	2.39	2.08	22.64	16.40	1.82	24.00	17.33	1.57	25.48	18.47	1.35			
	57 (13.9)	18.45	18.45	2.36	2.05	20.28	19.87	1.80	21.49	20.99	1.57	22.82	22.37	1.36			
	72 (22.2)	24.17	12.95	2.44	2.12	25.27	13.22	1.84	28.48	14.82	1.58	30.22	15.77	1.33			
80 (26.7)	67 (19.4)	21.96	15.96	2.42	2.10	24.40	17.02	1.83	25.86	17.99	1.58	27.45	19.17	1.34			
	63 (17.2)	20.36	18.31	2.39	2.08	22.61	19.39	1.82	23.97	20.49	1.57	25.45	21.85	1.35			
	57 (13.9)	19.56	19.56	2.38	2.07	21.29	21.29	1.81	22.54	22.54	1.57	23.97	23.97	1.35			
	72 (22.2)	16.80	6.68	1.49	1.28	17.53	7.13	1.10	19.82	8.06	0.92	21.04	8.55	0.76			
	67 (19.4)	15.18	8.96	1.50	1.28	16.89	9.72	1.11	17.91	10.28	0.95	18.99	10.83	0.79			
75 (23.9)	63 (17.2)	13.98	10.59	1.50	1.28	14.80	10.69	1.13	15.56	11.37	1.13	16.48	12.01	0.82			
	57 (13.9)	12.63	12.63	1.49	1.29	12.99	12.94	1.14	13.83	13.75	1.14	14.64	14.51	0.86			
	72 (22.2)	16.75	8.99	1.49	1.28	17.48	9.16	1.10	19.77	10.32	0.92	20.98	10.97	0.76			
	67 (19.4)	15.14	11.05	1.50	1.28	15.81	11.13	1.11	16.85	11.84	1.11	17.87	12.51	0.95			
	63 (17.2)	13.97	12.66	1.50	1.28	14.59	12.68	1.13	15.54	13.48	1.13	16.47	14.23	0.97			
80 (26.7)	57 (13.9)	13.43	13.43	1.50	1.29	13.78	13.78	1.13	14.66	14.66	1.13	15.51	15.51	0.99			
	72 (22.2)	13.91	5.70	1.21	0.52	8.34	3.43	0.44	8.89	3.65	0.44	9.31	3.80	0.37			
	67 (19.4)	12.50	7.42	1.22	0.53	7.48	4.49	0.46	7.97	4.78	0.46	8.34	4.91	0.40			
	63 (17.2)	11.48	8.77	1.22	0.53	6.85	5.34	0.47	7.30	5.67	0.47	7.63	5.79	0.41			
	57 (13.9)	10.41	10.41	1.22	0.54	6.25	6.25	0.48	6.65	6.65	0.48	6.97	6.67	0.43			
75 (23.9)	72 (22.2)	13.57	7.46	1.21	0.52	8.31	4.53	0.44	8.88	4.82	0.44	9.28	4.96	0.37			
	67 (19.4)	12.47	9.17	1.22	0.53	7.45	5.59	0.46	7.94	5.94	0.46	8.31	6.06	0.40			
	63 (17.2)	11.48	10.51	1.22	0.53	6.85	6.43	0.47	7.30	6.83	0.47	7.62	6.93	0.41			
	57 (13.9)	11.08	11.08	1.22	0.54	6.68	6.68	0.48	7.10	7.10	0.48	7.33	7.33	0.42			
	72 (22.2)	13.91	5.70	1.21	0.52	8.34	3.43	0.44	8.89	3.65	0.44	9.31	3.80	0.37			
80 (26.7)	67 (19.4)	12.50	7.42	1.22	0.53	7.48	4.49	0.46	7.97	4.78	0.46	8.34	4.91	0.40			
	63 (17.2)	11.48	8.77	1.22	0.53	6.85	5.34	0.47	7.30	5.67	0.47	7.63	5.79	0.41			
	57 (13.9)	10.41	10.41	1.22	0.54	6.25	6.25	0.48	6.65	6.65	0.48	6.97	6.67	0.43			
	72 (22.2)	13.57	7.46	1.21	0.52	8.31	4.53	0.44	8.88	4.82	0.44	9.28	4.96	0.37			
	67 (19.4)	12.47	9.17	1.22	0.53	7.45	5.59	0.46	7.94	5.94	0.46	8.31	6.06	0.40			

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB °F (°C)	EVAR AIR EWB °F (°C)	105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
		Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW
		Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit		
75 (23.9)	72 (22.2)	19.25	8.01	1.62	25.24	10.26	1.88	26.68	10.84	1.61	28.11	11.43	1.34	29.64	12.06	1.07	608	634	663	708	
	67 (19.4)	17.48	10.88	1.63	22.98	13.18	1.89	24.31	13.92	1.63	25.64	14.68	1.38	27.06	15.57	1.13					
	63 (17.2)	16.21	13.13	1.64	21.29	15.45	1.90	22.54	16.31	1.65	23.79	17.21	1.41	25.13	18.30	1.17					
	57 (13.9)	15.18	15.18	1.65	19.10	18.78	1.90	20.23	19.83	1.66	21.37	20.92	1.44	22.62	22.29	1.21					
	72 (22.2)	19.12	10.84	1.61	25.12	13.12	1.88	26.55	13.85	1.60	27.98	14.60	1.33	29.49	15.47	1.07					
80 (26.7)	67 (19.4)	17.42	13.69	1.63	22.91	16.02	1.89	24.24	16.91	1.63	25.56	17.83	1.38	26.97	18.96	1.13	608	634	663	708	
	63 (17.2)	16.26	15.91	1.64	21.26	18.28	1.90	22.51	19.29	1.65	23.76	20.35	1.41	25.10	21.68	1.17					
	57 (13.9)	16.12	16.12	1.64	20.08	20.08	1.90	21.23	21.23	1.66	22.41	22.41	1.42	23.77	23.77	1.19					
	72 (22.2)	15.62	6.37	1.16	16.33	6.64	1.03	17.27	7.02	0.91	18.26	7.42	0.78	19.32	7.87	0.62					
	67 (19.4)	14.19	8.25	1.17	14.88	8.57	1.04	15.74	9.03	0.94	16.66	9.56	0.82	17.64	10.18	0.68					
75 (23.9)	63 (17.2)	13.12	9.74	1.18	13.79	10.07	1.05	14.60	10.61	0.96	15.46	11.23	0.85	16.38	12.00	0.71	437	452	475	510	
	57 (13.9)	11.80	11.80	1.18	12.35	12.27	1.06	13.08	12.91	0.97	13.87	13.68	0.88	14.74	14.65	0.76					
	72 (22.2)	15.65	8.23	1.16	16.25	8.52	1.02	17.19	8.98	0.91	18.17	9.50	0.78	19.23	10.12	0.62					
	67 (19.4)	14.14	10.11	1.17	14.83	10.44	1.04	15.69	10.99	0.94	16.60	11.63	0.82	17.57	12.43	0.67					
	63 (17.2)	13.11	11.59	1.18	13.77	11.94	1.05	14.58	12.56	0.96	15.44	13.30	0.85	16.36	14.24	0.71					
80 (26.7)	57 (13.9)	12.51	12.51	1.18	13.05	13.05	1.05	13.78	13.78	0.97	14.60	14.60	0.86	15.55	15.55	0.74	437	452	475	510	
	72 (22.2)	6.36	2.59	0.47	9.26	3.75	0.47	9.75	3.95	0.47	10.23	4.15	0.43	10.72	4.35	0.36					
	67 (19.4)	10.72	6.18	0.76	8.39	4.68	0.48	8.84	4.89	0.49	9.27	5.09	0.47	9.70	5.30	0.40					
	63 (17.2)	9.90	7.24	0.76	7.74	5.40	0.49	8.15	5.61	0.51	8.56	5.83	0.49	8.96	6.04	0.44					
	57 (13.9)	8.82	8.81	0.77	6.85	6.46	0.49	7.22	6.68	0.52	7.59	6.90	0.52	7.95	7.12	0.48					
75 (23.9)	72 (22.2)	11.79	6.17	0.75	9.23	4.68	0.47	9.72	4.88	0.47	10.20	5.09	0.43	10.68	5.30	0.36	342	342	342	342	
	67 (19.4)	10.69	7.53	0.76	8.37	5.60	0.48	8.81	5.82	0.49	9.25	6.03	0.47	9.68	6.24	0.40					
	63 (17.2)	9.88	8.60	0.76	7.72	6.32	0.49	8.14	6.54	0.51	8.54	6.76	0.49	8.95	6.98	0.44					
	57 (13.9)	9.35	9.35	0.77	7.09	7.09	0.49	7.40	7.40	0.52	7.70	7.70	0.51	8.00	8.00	0.48					
	72 (22.2)	3.18	1.29	0.24	5.99	3.64	0.47	6.39	3.89	0.48	6.89	4.06	0.44	7.39	4.23	0.36					
80 (26.7)	67 (19.4)	10.72	6.18	0.76	8.13	4.46	0.48	8.68	4.76	0.50	9.04	4.92	0.48	9.55	5.25	0.41	342	342	342	342	
	63 (17.2)	9.90	7.24	0.76	7.49	5.09	0.49	8.00	5.44	0.51	8.34	5.58	0.50	8.81	5.98	0.44					
	57 (13.9)	8.82	8.81	0.77	6.63	6.02	0.49	7.09	6.43	0.52	7.39	6.56	0.52	7.90	7.04	0.48					
	72 (22.2)	11.79	6.17	0.75	8.96	4.47	0.47	9.55	4.76	0.47	9.96	4.92	0.44	10.62	5.26	0.36					
	67 (19.4)	10.69	7.53	0.76	8.11	5.28	0.48	8.66	5.63	0.50	9.02	5.78	0.48	9.63	6.18	0.41					
80 (26.7)	63 (17.2)	9.88	8.60	0.76	7.48	5.91	0.49	7.99	6.31	0.51	8.33	6.44	0.50	8.89	6.91	0.44	342	342	342	342	
	57 (13.9)	9.35	9.35	0.77	6.73	6.73	0.49	7.19	7.19	0.52	7.40	7.40	0.52	7.93	7.93	0.48					
	72 (22.2)	3.18	1.29	0.24	5.99	3.64	0.47	6.39	3.89	0.48	6.89	4.06	0.44	7.39	4.23	0.36					
	67 (19.4)	10.72	6.18	0.76	8.13	4.46	0.48	8.68	4.76	0.50	9.04	4.92	0.48	9.55	5.25	0.41					
	63 (17.2)	9.90	7.24	0.76	7.49	5.09	0.49	8.00	5.44	0.51	8.34	5.58	0.50	8.81	5.98	0.44					

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB *F (°C)	EVAP. AIR WBWB *F (°C)	24VVA938 / FE4ANF05 Comfort + Dehumidify Mode Condenser Entering Air Temperature *F (°C)															
		105 (40.8)				95 (35)				75 (23.9)				65 (18.3)			
		ID SCFM	Capacity MBtuh Total	Sensit	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sensit	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sensit	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sensit	Total Sys. KW
STAGE 3																	
75 (23.9)	72		35.03	14.21	3.80	36.79	14.91	3.28	38.97	15.79	2.81	41.14	16.67	2.38	43.43	17.61	1.97
	67		32.03	18.10	3.76	33.69	18.87	3.26	35.70	19.98	2.81	37.69	21.10	2.39	39.83	22.39	2.00
	63	812	29.78	21.12	3.72	31.34	21.94	3.23	33.23	23.22	2.80	35.10	24.53	2.40	37.11	26.09	2.02
	57		26.68	25.51	3.66	28.08	26.39	3.19	29.78	27.92	2.78	31.49	29.50	2.40	33.35	31.47	2.04
	57		34.90	17.98	3.79	36.65	18.72	3.28	38.82	19.81	2.81	40.98	20.92	2.37	43.26	22.19	1.97
80 (26.7)	72		31.95	21.83	3.75	33.60	22.64	3.25	35.61	23.95	2.81	37.60	25.30	2.39	39.72	26.91	2.00
	67	812	29.73	24.84	3.72	31.29	25.70	3.23	33.16	27.18	2.80	35.04	28.72	2.39	37.04	30.61	2.02
	63		27.71	27.71	3.68	28.95	28.95	3.20	30.66	30.66	2.78	32.41	32.41	2.40	34.42	34.42	2.04
	57		21.74	8.83	1.80	22.72	9.22	1.63	24.20	9.82	1.47	25.61	10.39	1.30	27.10	11.00	1.08
	57		19.76	11.28	1.80	20.72	11.74	1.64	22.09	12.54	1.49	23.39	13.27	1.33	24.77	14.10	1.14
STAGE 1 - FE4ANF05 ONLY																	
75 (23.9)	72		14.50	5.90	0.99	9.48	3.84	0.49	10.07	4.08	0.49	10.66	4.32	0.45	11.47	4.65	0.35
	67	417	13.17	7.58	1.00	8.59	4.79	0.50	9.13	5.04	0.52	9.66	5.30	0.49	10.39	5.71	0.41
	63		12.18	8.91	1.00	7.92	5.53	0.51	8.42	5.80	0.53	8.92	6.07	0.51	9.80	6.55	0.45
	57		10.89	10.84	1.01	7.02	6.61	0.52	7.46	6.90	0.55	7.91	7.19	0.54	8.52	7.77	0.49
	57		14.44	7.57	0.99	9.44	4.79	0.49	10.03	5.04	0.49	10.62	5.30	0.45	11.43	5.71	0.35
80 (26.7)	72	417	13.13	9.25	1.00	8.56	5.73	0.50	9.10	6.01	0.52	9.64	6.28	0.49	10.36	6.78	0.41
	67		12.16	10.56	1.00	7.91	6.47	0.51	8.41	6.76	0.53	8.91	7.05	0.51	9.58	7.61	0.45
	63		11.52	11.52	1.01	7.26	7.26	0.52	7.64	7.64	0.54	8.03	8.03	0.54	8.66	8.66	0.48
	57		14.50	5.90	0.99	9.35	3.79	0.49	9.88	4.01	0.50	10.62	4.30	0.45	11.47	4.65	0.35
	57		13.17	7.58	1.00	8.46	4.66	0.50	8.94	4.90	0.52	9.62	5.27	0.49	10.39	5.71	0.41
STAGE 1 - ALL OTHER INDOOR COMBINATIONS																	
75 (23.9)	72		14.50	5.90	0.99	9.35	3.79	0.49	9.88	4.01	0.50	10.62	4.30	0.45	11.47	4.65	0.35
	67	417	13.17	7.58	1.00	8.46	4.66	0.50	8.94	4.90	0.52	9.62	5.27	0.49	10.39	5.71	0.41
	63		12.18	8.91	1.00	7.80	5.37	0.51	8.25	5.59	0.53	8.88	6.02	0.51	9.80	6.55	0.45
	57		10.89	10.84	1.01	6.91	6.39	0.52	7.30	6.60	0.55	7.87	7.12	0.54	8.52	7.77	0.49
	57		14.44	7.57	0.99	9.31	4.66	0.49	9.84	4.90	0.50	10.56	5.27	0.45	11.43	5.71	0.35
80 (26.7)	72	417	13.13	9.25	1.00	8.44	5.57	0.50	8.92	5.79	0.52	9.60	6.23	0.49	10.36	6.78	0.41
	67		12.16	10.56	1.00	7.79	6.26	0.51	8.23	6.48	0.53	8.87	6.98	0.51	9.58	7.61	0.45
	63		11.52	11.52	1.01	7.08	7.08	0.52	7.39	7.39	0.55	7.97	7.97	0.54	8.66	8.66	0.48
	57		14.50	5.90	0.99	9.35	3.79	0.49	9.88	4.01	0.50	10.62	4.30	0.45	11.47	4.65	0.35
	57		13.17	7.58	1.00	8.46	4.66	0.50	8.94	4.90	0.52	9.62	5.27	0.49	10.39	5.71	0.41

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 - Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 34

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB °F (°C)	EVAP. AIR		105 (40.5)				85 (29.4)				75 (23.9)				65 (18.3)						
	°F (°C)	EWB	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM			
			Total	Sensit			Total	Sensit			Total	Sensit			Total	Sensit					
75 (23.9)	72	(22.2)	57.74	23.45	6.51		61.60	25.02	5.73		65.43	26.57	5.06		69.11	28.06	4.43		71.73	29.06	3.80
	67	(19.4)	52.75	29.96	6.32		56.26	31.94	5.56		59.74	33.92	4.89		63.08	35.74	4.28		65.39	36.48	3.66
	63	(17.2)	49.06	35.05	6.19	1367	52.31	37.35	5.43	1440	55.53	39.67	4.77	1514	58.62	41.74	4.17	1566	60.75	42.26	3.56
	57	(13.9)	44.14	42.48	6.02		47.05	45.25	5.27		49.93	48.04	4.62		52.69	50.49	4.02		54.52	50.74	3.43
	72	(22.2)	57.61	29.82	6.52		61.47	31.80	5.74		65.28	33.78	5.06		68.97	35.61	4.43		71.59	36.37	3.80
80 (26.7)	67	(19.4)	52.85	36.25	6.32		56.15	38.64	5.56		59.62	41.04	4.89		62.96	43.19	4.28		65.29	43.67	3.66
	63	(17.2)	48.99	41.31	6.19	1367	52.23	44.02	5.43	1440	55.45	46.75	4.77	1514	58.54	49.15	4.17	1566	60.67	49.42	3.56
	57	(13.9)	45.90	45.90	6.08		48.92	48.92	5.33		51.93	51.93	4.67		54.72	54.72	4.07		55.91	55.91	3.46
	72	(22.2)	36.98	15.01	3.25		39.25	15.94	2.79		41.77	16.95	2.44		44.28	17.97	2.13		47.05	19.11	1.87
	67	(19.4)	33.40	19.03	3.22	959	35.55	20.23	2.75	1013	37.83	21.50	2.39	1066	40.10	22.76	2.09	1120	42.62	24.30	1.84
80 (26.7)	63	(17.2)	30.77	22.16	3.21		32.82	23.59	2.72		34.94	25.04	2.37		37.04	26.50	2.06		39.38	28.36	1.81
	57	(13.9)	27.31	26.75	3.18		29.19	28.48	2.69		31.09	30.22	2.34		32.99	31.96	2.04		35.10	34.26	1.79
	72	(22.2)	36.89	19.10	3.25		39.15	20.27	2.79		41.66	21.53	2.44		44.17	22.80	2.13		46.93	24.34	1.87
	67	(19.4)	33.32	23.06	3.22	959	35.47	24.51	2.75	1013	37.74	26.01	2.39	1066	40.02	27.53	2.09	1120	42.53	29.47	1.84
	63	(17.2)	30.72	26.18	3.21		32.77	27.85	2.72		34.89	29.54	2.37		36.99	31.25	2.06		39.33	33.50	1.81
75 (23.9)	72	(22.2)	27.11	11.00	2.21		19.91	8.07	1.22		20.99	8.50	1.01		22.49	9.11	0.80		24.02	9.73	0.59
	67	(19.4)	24.28	13.80	2.21	748	17.69	10.04	1.21	600	18.67	10.45	1.01	647	20.04	11.19	0.81	700	21.43	11.97	0.61
	63	(17.2)	22.21	15.99	2.20		16.05	11.57	1.21		16.97	11.96	1.01		18.23	12.81	0.82		19.53	13.71	0.62
	57	(13.9)	19.51	19.20	2.20		13.98	13.85	1.20		14.76	14.19	1.02		15.88	15.20	0.84		17.03	16.27	0.65
	72	(22.2)	27.04	13.93	2.21		19.86	10.20	1.22		20.94	10.61	1.01		22.43	11.35	0.80		23.96	12.13	0.59
80 (26.7)	67	(19.4)	24.22	16.71	2.21	748	17.65	12.16	1.21	600	18.63	12.54	1.01	647	19.99	13.42	0.81	700	21.39	14.35	0.61
	63	(17.2)	22.18	18.88	2.20		16.04	13.68	1.21		16.95	14.04	1.01		18.21	15.03	0.82		19.50	16.08	0.62
	57	(13.9)	20.85	20.65	2.20		14.90	14.90	1.20		15.50	15.50	1.02		16.63	16.63	0.83		17.82	17.82	0.64

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 65 outdoor. **Stage 1** – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 34

GUIDE SPECIFICATIONS

GENERAL

System Description

Outdoor-mounted, air-cooled, split-system air conditioning 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.

Quality 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 conditioning unit. 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 24VNA9

- 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® (R-410A) refrigerant, POE compressor oil, accumulator, charge compensator, electronic expansion valve, and reversing valve.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for Puron® 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.
- Compliant with IEC 61000-4-5 Transient Surge Requirement.

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 not qualified for low ambient cooling operation.
Minimum cooling outdoor operating temperatures:
 - Communicating systems: 40°F (4.44°C)
 - Non-communicating systems: 55°F (12.8°C)
3. For reliable operation, unit should be level in all horizontal planes.
4. This unit is qualified for up to 100 ft (30.5 m) equivalent length of line set without additional accessories.
5. 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).
6. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
7. Do not apply capillary tube indoor coils to these units.
8. Puron refrigerant TXV required on indoor coil.