

BLOCK 840 LOT 9 QUALIFICATION CODE _____ ADDRESS (SITE) 1701 Forge Pond Rd PERMIT NO. 15-2531



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

C-15-003365

I. IDENTIFICATION

1. Proposed Work Site at: 1701 Forge Pond Rd

2. Name of Owner in Fee: Weinstein

Tel. [REDACTED] e-mail N/A

Address Same street municipality zip code

3. Ownership in Fee: Public ☐ Private ☐

4. Principal Contractor: AJ Perri Tel. (732) 982-8700

Address 1162 Pine Brook Road e-mail abankos@ajperri.com

Tinton Falls, NJ 07724

License No. OR, if new home, Builder Reg. No. 19HC00103100 Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 35-2514152 FAX: (732) 709-2889

5. Architect or Engineer _____ Contact _____

Address _____ e-mail _____

Tel. (_____) _____ FAX: (_____) _____

6. Responsible Person in Charge once Work has Begun Greg Johnston

Tel. (732) 720-2116 (Amy) FAX: (732) 709-2889

V. FEE SUMMARY (for office use only)

	Update	Update
1. Building	\$ <u>100</u>	
2. Electrical	\$ <u>110</u>	
3. Plumbing		
4. Fire Protection		
5. Elevator Devices		
6. Subtotal		
7. Less 20% for State Plan Review	\$	
8. Subtotal	\$	
9. State Permit Surcharge Fee	\$ <u>21</u>	
10. Subtotal	\$	
11. Cert. of Occupancy		
12. Other		
13. TOTAL	\$ <u>210</u>	

VI. BUILDING/SITE CHARACTERISTICS

	(office use only)
1. Number of Stories	
2. Height of Structure	ft.
3. Area — Largest Floor	sq. ft.
4. New Building Area	sq. ft.
5. Volume of New Structure	cu. ft.
6. Max. Live Load	
7. Max. Occupancy Load	
8. If Industrialized Building: State Approved _____ HUD _____	
9. Total Land Area Disturbed	sq. ft.
10. Flood Hazard Zone	
11. Base Flood Elevation	ft.
12. Wetlands yes _____ no _____	

IIa. PROPOSED WORK

☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition

☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction

☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

IIb. SUBCODES
(Check all that apply)

	Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
☐ Building	<u>4450</u>	<u>Man</u>							
☒ Electrical	<u>8000</u>	<u>GR</u>	<u>7-15</u>		<u>7/8/15</u>	<u>to</u>			
☒ Plumbing	<u>11600</u>	<u>GR</u>	<u>7-15</u>		<u>7-16-15</u>	<u>GR</u>			
☐ Fire Protection									
☐ Elevator									
TOTAL COST		<u>14,100</u>							

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____

2. Use Group, Proposed: _____

3. Change in Use Group, Indicate Present: _____

4. No. of dwelling units: Total Units Income-restricted

Gained, Sale	
Gained, Rental	
Lost, Sale	
Lost, Rental	

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____

2. Use Group, Proposed: _____

3. Change in Use Group, Indicate Present: _____

C. MIXED USE -List secondary use(s): _____

D. Construct. Classification: Present _____ Proposed _____

III. PLAN REVIEW (optional)

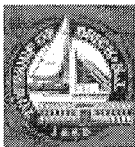
DO YOU WANT:

1. ☐ Partial Releases

2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/ Dumbwaiters/Moving Walks	4. ☐ Refrigeration Systems	8. ☐ Smoke Control Systems in Open Wells
2. ☐ High Pressure Boilers	5. ☐ Cross-Connections/Backflow Preventers	9. ☐ Underground Storage Tanks
3. ☐ ...	6. ☐ Hazardous Uses/Places of Assembly	10. ☐ Swimming Pools, Spas and Hot Tubs
	7. ☐ Sprinklers	11. ☐ LPGas Tanks



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 8/25/2015
Control Number C-15-003365
Permit Number 15-2531
Permit Issue Date 7/30/2015
Certificate Number 15-2531

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 1701 FORGE POND RD Brick Township, NJ Block: 846 Lot: 9 Qual: _____
Owner in Fee: WEINSTEIN, STANLEY P. & EILEEN M.
Owner Address: 1701 FORGE POND RD. BRICK NJ 08724
Telephone: [REDACTED]
Contractor AJ PERRI INC
Address 1162 PINE BROOK ROAD TINTON FALLS NJ 07724
Telephone: (732) 982-8700 Fax: (732) 709-2889
License Number or Builders Registration Number: 12566 13VH00346300 Federal Emp. Number: 36-4726097

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: REPLACEMENT A/C

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

Construction Official

Date Printed: 8/25/2015

U.C.C. F260 (rev. 08/05)

Fee: \$0.00

Check Number: _____

Collected By: _____

Page 1



15sl9u0 ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 8410 Lot 1701 Qualification Code 8

Work Site Location Box Weinstein Forge Pond Rd 08734

Owner in Fee: Te e-mail NIA

Address RCLE Inc. street 9 Ellis Court municipality Momnouth Beach, NJ 07750 Tel. (732) 982-8700 zip code 08700

Contractor License No. 7654 Exp. Date 732

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 2232938-37 FAX: (732) 709-2889

Federal Emp. ID No. 2232938-37

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed Temporary Other Utility Co.

Building Occupied as 4980

Est. Cost of Elec. Work \$ 4980

JOB SUMMARY (Office Use Only)

PLAN REVIEW No Plans Required

Partial Under-slab Utilities Approved Partial

Date: 7/21/16 Approved by: cc

Electric Plans Approved Temp. Serv.

Date: 7/21/16 Approved by: cc

Joint Plan Review Required: TCO

[] Bldg. [] Plumb. [] Fire. [] Elev. Other Service

SUBCODE APPROVAL for PERMIT Final

SUBCODE APPROVAL for PERMIT Barrier-Free

SUBCODE APPROVAL for PERMIT Temp. Cut-in Card Date Issued

SUBCODE APPROVAL for PERMIT Final Cut-in Card Date Issued

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Replace AC unit + Air Handler

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors—Fract. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UV Lights

Storage Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central AC Unit

Date Received 7-30-15
Control # 15-2531
Date Issued
Permit #

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Greg Johnston

Address 1162 Pine Brook Road
Tinton Falls, NJ 07724

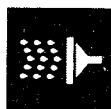
Telephone (732) 720-2116 (Amy)

Signature _____

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.



15819400 PLUMBING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 846 Lot 101 Qualification Code 846

Work Site Location 101 Torrey Pond Rd Back 08224

Owner in Fee: 144 Stein

Tel. [REDACTED] e-mail 214

Add. Same Street 9 JOHNSON STREET Municipality MONMOUTH BEACH, NJ 07750 Zip code 07750

Contractor: MICHAEL J. PERRI T/A AJ PERRI Tel. (732) 689-6363

Address: 9 JOHNSON STREET e-mail

Contractor License No. 36BI01256600 Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):

Federal Emp. ID No. FAX: (732) 709-2889

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed

Building Sewer Size Public Sewer Private Septic

Water Service Size Public Water Private Well

Est. Cost of Plumbing Work \$ 14000

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required

☐ Partial - Underslab Utilities Approved

Date: Approved by: Type: INSPECTIONS

☐ Plumbing Plans Approved

Date: Approved by: Rough Slab

Joint Plan Review Required: Water Sewer

☐ Bldg. ☐ Elec. ☐ Fire. ☐ Elev. Fixtures

SUBCODE APPROVAL FOR PERMIT Gas Equipment

Date: 2/16/15 LP Gas Tank

Approved by: [Signature] Fuel Oil Piping

SUBCODE APPROVAL FOR CERTIFICATE

☐ CO ☐ CCO ☐ CA Solar

Date: 8/17/15 Final TCO

Approved by: [Signature] 8-14-15

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) [Signature] and am duly qualified to perform this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☐ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Replace AC Unit + Air Handler

Date Received 7-30-15
Control # 15-2531
Date Issued
Permit #

QTY.

FIXTURE/EQUIPMENT

Water Closet

Urinal/Bidet

Bath Tub

Lavatory

Shower

Floor Drain

Sink

Dishwasher

Drinking Fountain

Washing Machine

Hose Bibb

Water Heater

Fuel Oil Piping

Gas Piping

LP Gas Tank

Steam Boiler

Hot Water Boiler

Sewer Pump

Interceptor/Separator

Backflow Preventer

Greasetrap

Sewer Connection

Water Service Connection

Stacks

Other AC Unit

Other Air Handler

FEE (Office Use Only)
\$

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



CONSTRUCTION PERMIT

Date Issued 7-30-15
Control # C-15-003365
Permit # 15-2531

IDENTIFICATION Block: 846 Lot: 9 Qualifier _____
Work Site Location: 1701 FORGE POND RD Brick Township, NJ Contractor: AJ PERRI INC
Owner in Fee: WEINSTEIN, STANLEY P. & EILEEN M. Address: 1162 PINE BROOK ROAD TINTON FALLS NJ 07724
1701 FORGE POND RD. BRICK NJ 08724 Telephone: (732) 720-2116
Telephone: _____ Lic. No. or Bldrs. Reg. No. 13VH00346300
Federal Employee. No. 36-4726097

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

REPLACEMENT A/C

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$16,600

David Newman Jr
Construction Official

7/17/15
Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$100
Plumbing	\$110
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$31
CO Fee	\$0
Other	\$0
Total	\$241
Check No. <u>8802045454</u>	
Cash	\$0
Credit	\$0
Collected By <u>[Signature]</u>	

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within 48 business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

15251
ELECTRICAL \$100.00
PLUMBING \$110.00
DCA \$31.00
CHECK \$241.00

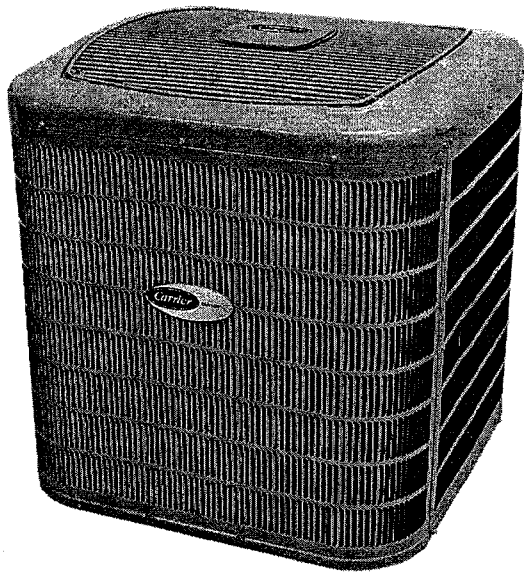
24ANB148

**24ANB1
Infinity® 21 2-Stage Air Conditioner
with Puron® Refrigerant
2 to 5 Nominal Tons**



turn to the experts 

Product Data



INFINITY SERIES

Carrier's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 24ANB1 has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer.

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

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

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 14.5 - 21 SEER / 11.7 - 15 EER
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 65 dBA
- Quiet mount split post compressor grommets
- Electronic ECM ball bearing outdoor condenser fan motor
- Forward-swept condenser fan blade
- Compressor sound hood
- Laminated steel compressor mounting plate

Comfort

- System supports Infinity™ Control or standard 2-stage thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- 2-stage scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Low pressure switch
- High pressure switch
- Filter drier
- Crankcase heater standard
- Balanced refrigeration system for maximum reliability

Controls and Diagnostics

- Infinity™ control or 2-stage thermostat
- Two control wires to outdoor unit with Infinity Control (serial numbers 1213E and newer)
- Utility Interface Connection
- Enhanced diagnostics capability with Infinity Control

Durability

WeatherArmor Ultra™ protection package:

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

Applications

- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to 0°F) with complete Infinity system.

ELECTRICAL DATA

Unit Size – Voltage, Series	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH ft. (m)‡	MAX LENGTH ft. (m)‡	MAX FUSE** or CKT BRK AMPS
		MIN	MAX	LRA	RLA	FLA		60° C	75° C	60° C	75° C	
24–31	208–230/1	253	197	58.3	11.1	1.8	15.7	14	14	50 (15.2)	48 (14.6)	25
36–31				83.0	15.3	2.0	21.1	12	12	59 (18.0)	56 (17.1)	30
48–31				104.0	21.2	2.7	29.2	10	10	68 (20.7)	65 (19.8)	40
60–31				152.9	28.8	2.7	38.7	8	8	80 (24.4)	76 (23.2)	60

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

† If wire is applied at ambient greater than 30°C, consult table 310–16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336–26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

‡ Length shown is as measured one way along wire path between unit and service panel for voltage drop not to exceed 2%.

** Time-Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

A-WEIGHTED SOUND POWER (dBA)

Unit Size – Voltage, Series	Standard Rating (dBA)	Typical Octave Band Spectrum (dBA, without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24–31	71 – High Stage	49.5	56.0	60.5	67.5	58.0	53.5	53.0
	65 – Low Stage	47.0	52.0	56.5	60.5	55.0	50.0	49.0
36–31	68 – High Stage	47.5	53.0	60.0	60.0	56.0	52.0	51.0
	66 – Low Stage	46.5	54.5	56.0	56.5	53.0	50.0	48.0
48–31	69 – High Stage	49.0	61.5	62.0	62.0	59.5	54.5	49.5
	66 – Low Stage	48.5	59.5	59.0	59.5	56.5	51.5	48.5
60–31	69 – High Stage	50.8	57.5	60.5	63.0	59.5	57.5	54.5
	68 – Low Stage	48.0	56.0	59.0	62.0	57.5	55.5	52.0

NOTE: Tested in accordance with AHRI Standard 270–08. (Not listed with AHRI).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE – VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
24–31	10 (5.6)
36–31	11 (6.1)
48–31	12 (6.7)
60–31	14 (7.8)

ACCESSORY CONTROLS

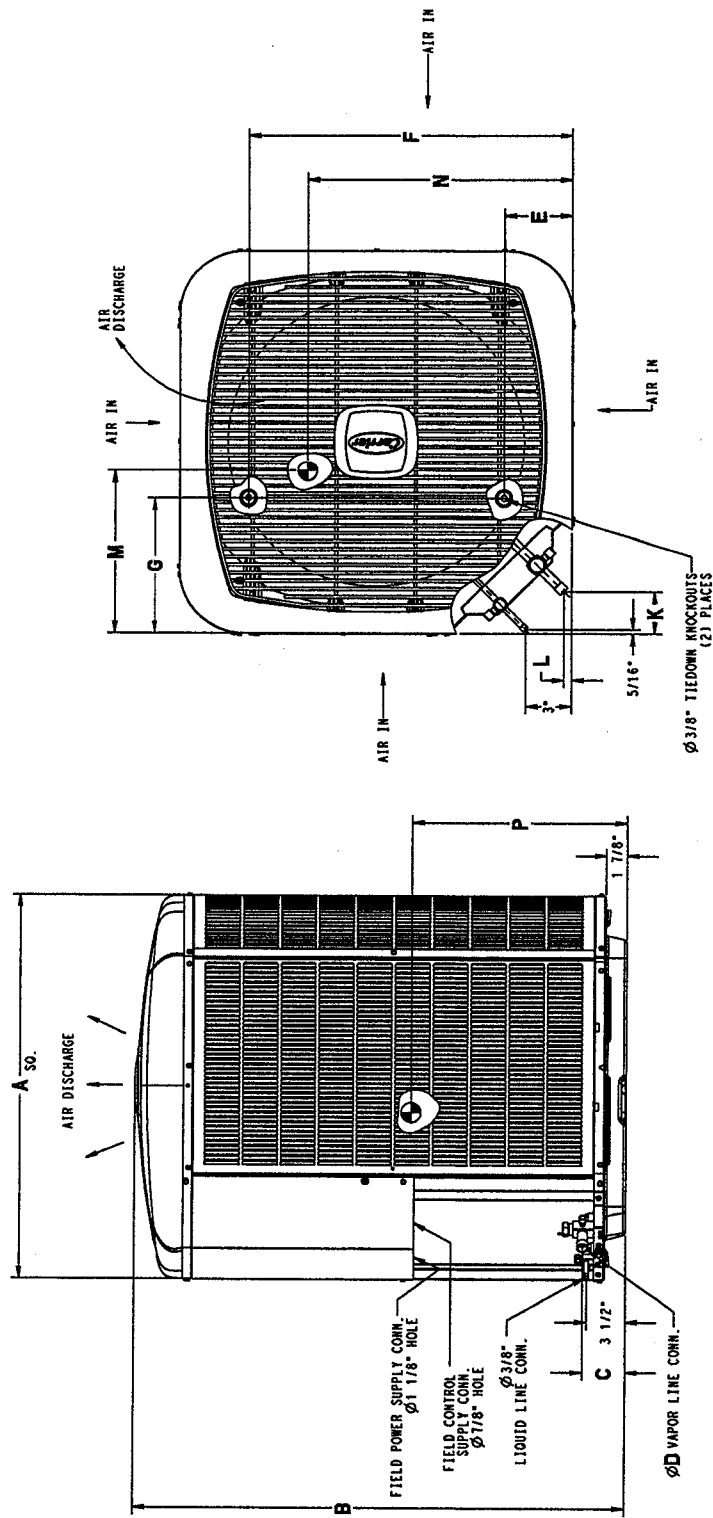
PART NUMBER	DESCRIPTION
SYSTXCCITN01	Infinity Touch Control (non-Wi-Fi)
SYSTXCCITW01	Infinity Touch Control with Wi-Fi & Wireless Access Point
SYSTXCC4ZC01	Infinity 4–Zone Damper Control Module (Wall-mounted control for a four–zone system.)
SYSTXCCSMS01	Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCRRS01	Infinity Remote Room Sensor (Monitors temperature in an individual zone.)
SYSTXCCRCT01 or SYSTXCCRWF01	Infinity System Remote Access Module (Hardware for wireless access and control via internet.)
SYSTXCCNIM01	Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.)

24ANB1

DIMENSIONS - ENGLISH

UNIT	SERIES	ELECTRICAL CHARACTERISTICS			A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (lbs)	SHIPPING WEIGHT (lbs)	SHIPPING DIMENSIONS (L x W x H)	
2AAMB124	1	X	0	0	0	35°	40 5/8"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 13/16"	5/8"	18"	16"	18 1/2"	282	324	37 1/8" x 37 1/8" x 46 1/8"
2AAMB136	1	X	0	0	0	35°	47 7/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 13/16"	5/8"	17"	16 1/2"	22"	312	357	37 1/8" x 37 1/8" x 51 13/16"
2AAMB146	1	X	0	0	0	35°	47 7/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 13/16"	5/8"	18"	18 3/4"	335	381	37 1/8" x 37 1/8" x 51 13/16"	
2AAMB160	1	X	0	0	0	35°	47 7/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 13/16"	5/8"	18 3/4"	17"	19 1/2"	336	381	37 1/8" x 37 1/8" x 51 13/16"

X = YES
Q = NO



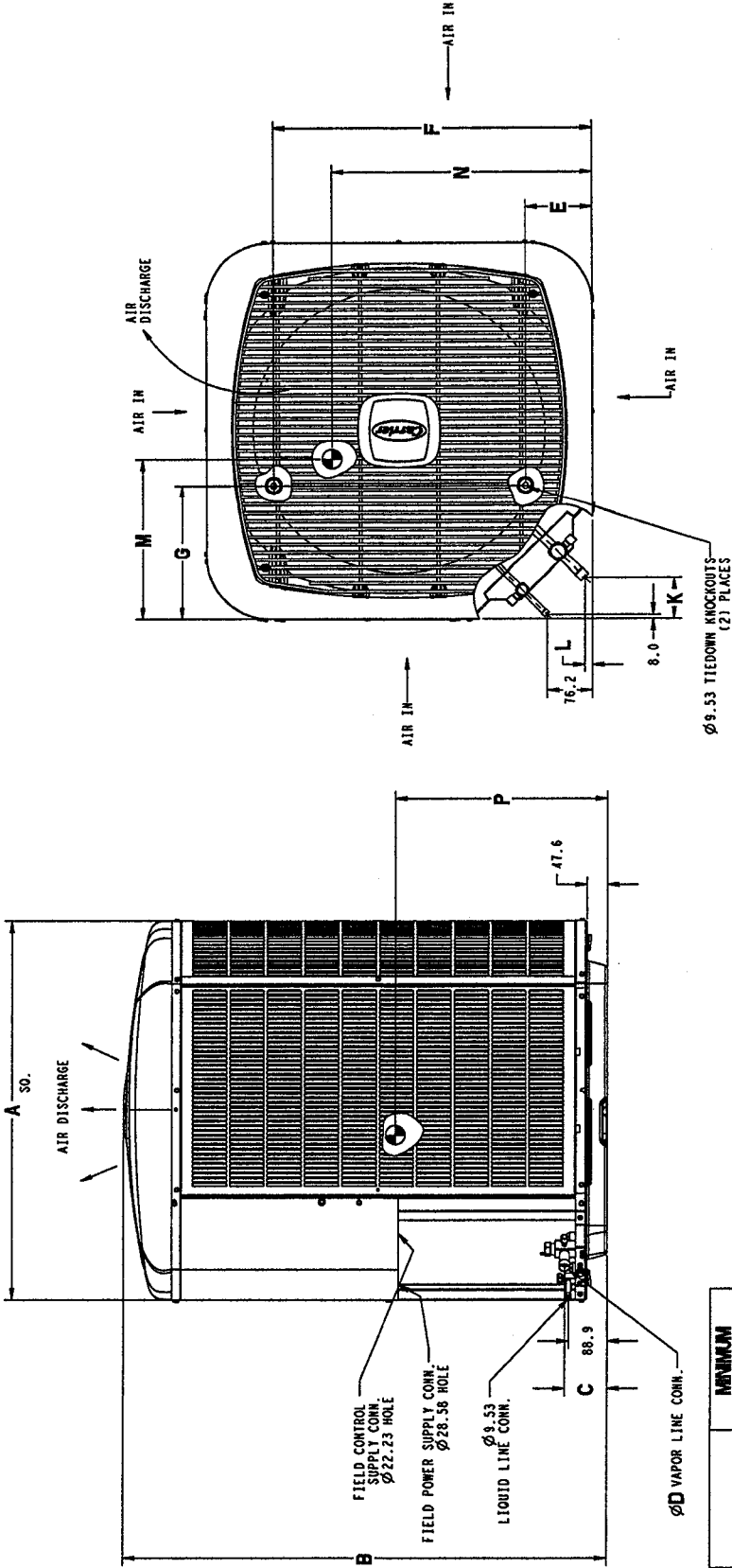
UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
-	31 1/2" X 31 1/2"
24 35 48 60	36" X 36"

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	
24ANB124	1	X	0	0	889.0	1032.5	97.9	22.2	166.1	722.8	231.3	74.5	16.3	457.2	406.4	469.9	127.9	147.0	942.9 X 942.9 X 1172.2
24ANB136	1	X	0	0	889.0	1205.3	97.9	22.2	166.1	722.8	231.3	74.5	16.3	431.8	419.1	558.8	141.5	161.9	942.9 X 942.9 X 1315.7
24ANB148	1	X	0	0	889.0	1205.3	97.9	22.2	166.1	722.8	231.3	74.5	16.3	457.2	457.2	476.3	152.0	172.8	942.9 X 942.9 X 1315.7
24ANB160	1	X	0	0	889.0	1205.3	97.9	22.2	166.1	722.8	231.3	74.5	16.3	476.3	431.8	495.3	152.4	172.8	942.9 X 942.9 X 1315.7

208-230-160	230-160	208/230-3-60	460-3-60
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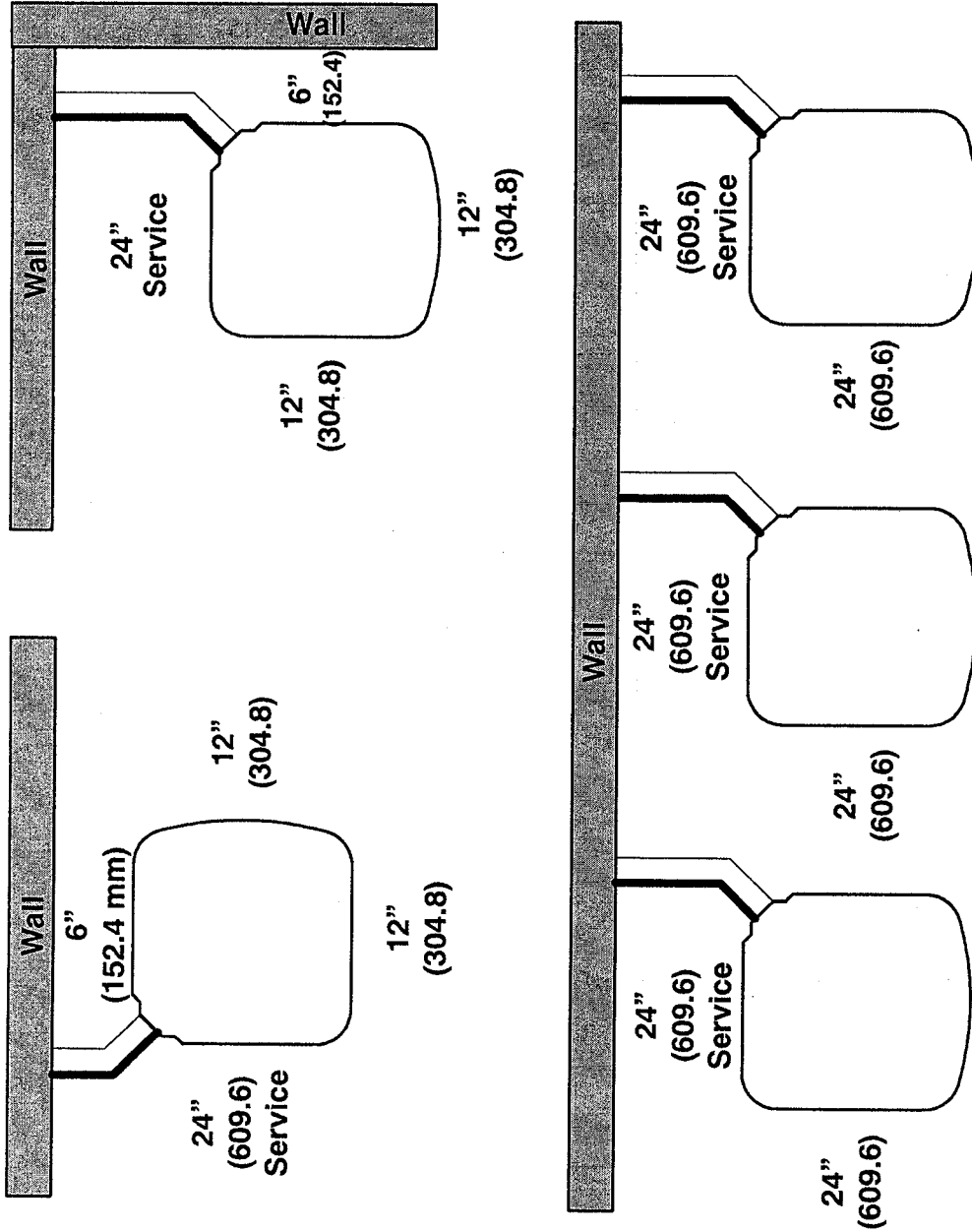
X = YES
O = NO



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
24, 36, 48, 60	800.1 X 800.1
889.0 X 889.0	889.0 X 889.0

CLEARANCES

Clearances (various examples)



Note: Numbers in () = mm

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

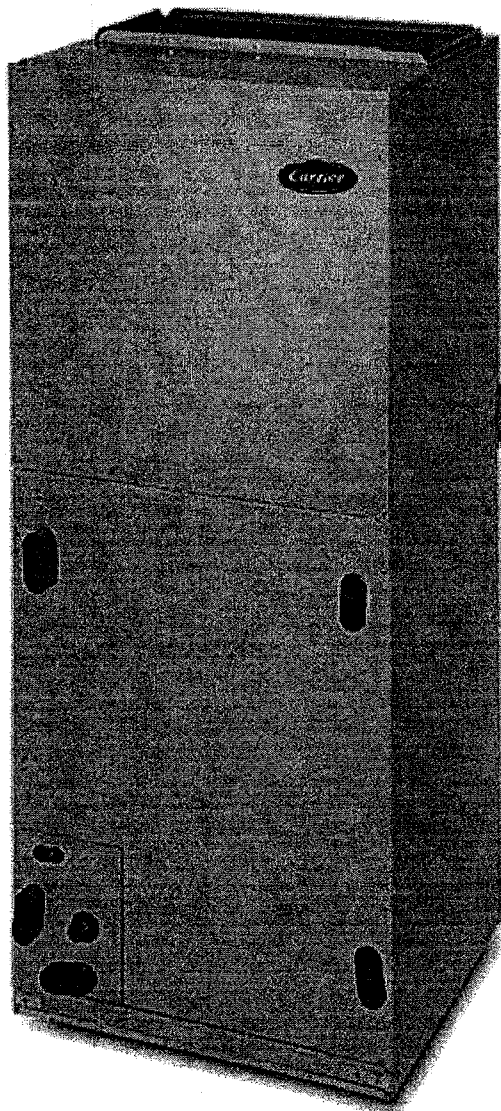
FE4A, FE5A Infinity® Series
Communicating Variable-Speed Fan Coil
Puron® Refrigerant
Sizes 002 thru 006



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.

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

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

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

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

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

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

FEATURES

Smart Diagnostics

- Self configuring (ease of installation)
- Easier troubleshooting, providing faster service and repair

Environmentally-Sound Refrigerant Technology

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

Energy Efficient Operation

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

Comfort Control

- Warm, comfortable heating air temperatures
- Unmatched humidity control

Airflow and Sound Technology

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

Condensate Control and Disposal Technology

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

Heat Transfer Technology

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

Quality Assisting, Ease of Installation and Service Features

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

Controls and Electrical Features

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

Filter Features

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

MODEL NUMBER NOMENCLATURE

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

Coil Type

T00 = Tin-plated

000 = Copper

L00 = Aluminum

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

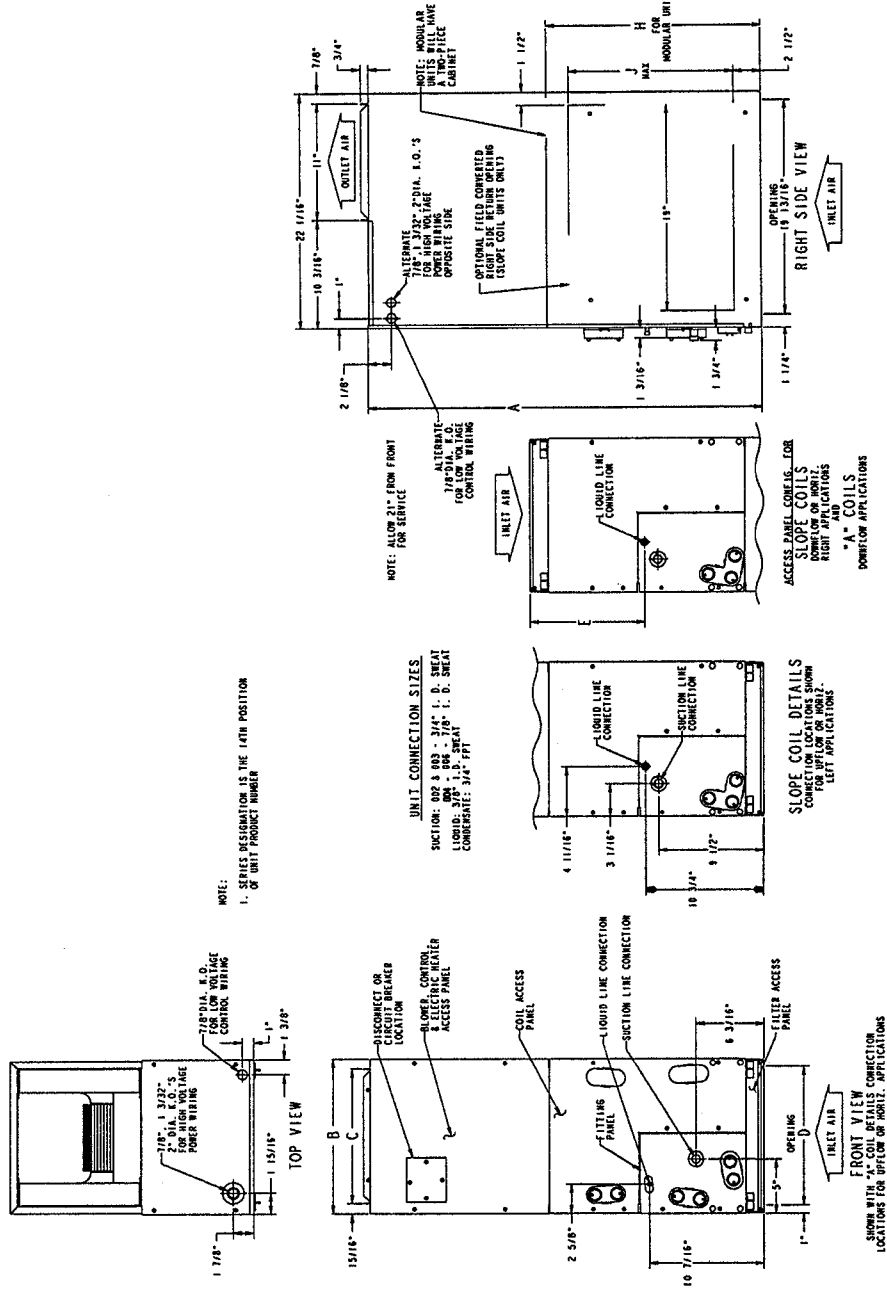
F = Single piece

FE4A / FE5A



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.



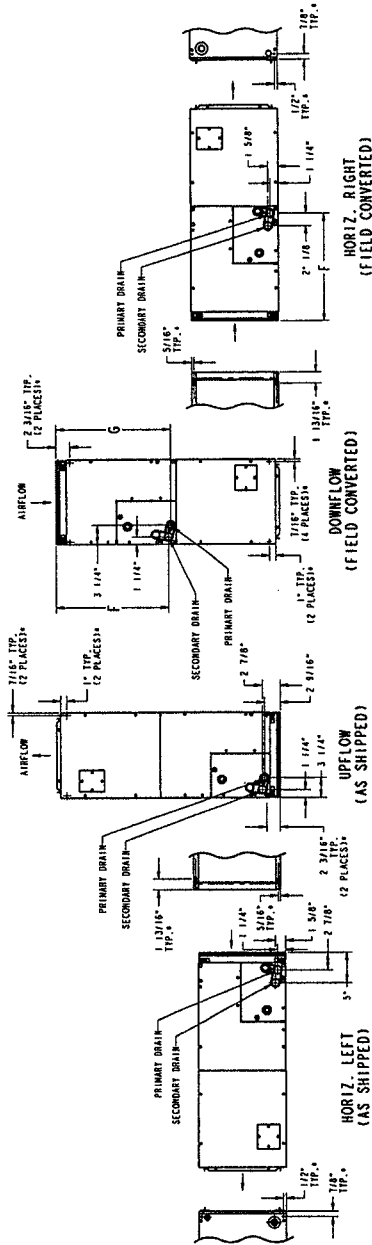


DIMENSIONS

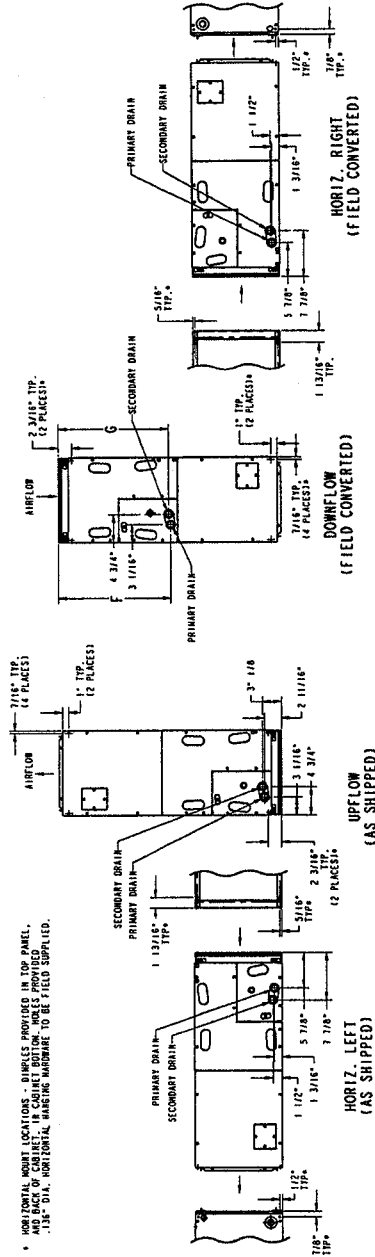
UNIT	SIZE	A		B		C		D		E		H*	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
FE4A	002	42-11/16	1084	17-5/8	448	15-3/4	400	15-5/8	397	10-3/4	273	—	—
FE4A	003	53-7/16	1357	21-1/8	537	19-1/4	489	19-1/8	486	19-3/16	487	—	—
FE4A	003*	53-7/16	1357	21-1/8	537	19-1/4	489	19-1/8	486	19-3/16	487	28-5/16	719
FE4A	005	53-7/16	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

NOTES:
1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.



* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL, AND BACK OF CABINET. IN CABINET BOTTOM. HOLES PROVIDED .136" DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.



DIMENSIONS

UNIT	SIZE	F		G		COIL CONFIGURATION	"A"	SHIPPING WEIGHT
		in	mm	in	mm			
FE4A	002	18-9/16	472	18-1/4	464	—	Yes	135 / 61
FE4A	003	26-15/16	684	27-1/2	699	Yes	—	150 / 68
FE4A	003*	26-15/16	684	27-1/2	699	Yes	—	150 / 68
FE4A	005	27-1/4	692	26-15/16	684	—	Yes	172 / 78
FE4A	005*	27-1/4	692	26-15/16	684	—	Yes	172 / 78
FE4A	006*	32-15/16	837	32-5/8	829	—	Yes	207 / 94
FE5A	004*	32-15/16	837	32-5/8	829	—	Yes	200 / 91

*** Modular Cabinet**

FE4A / FE5A

PHYSICAL DATA

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

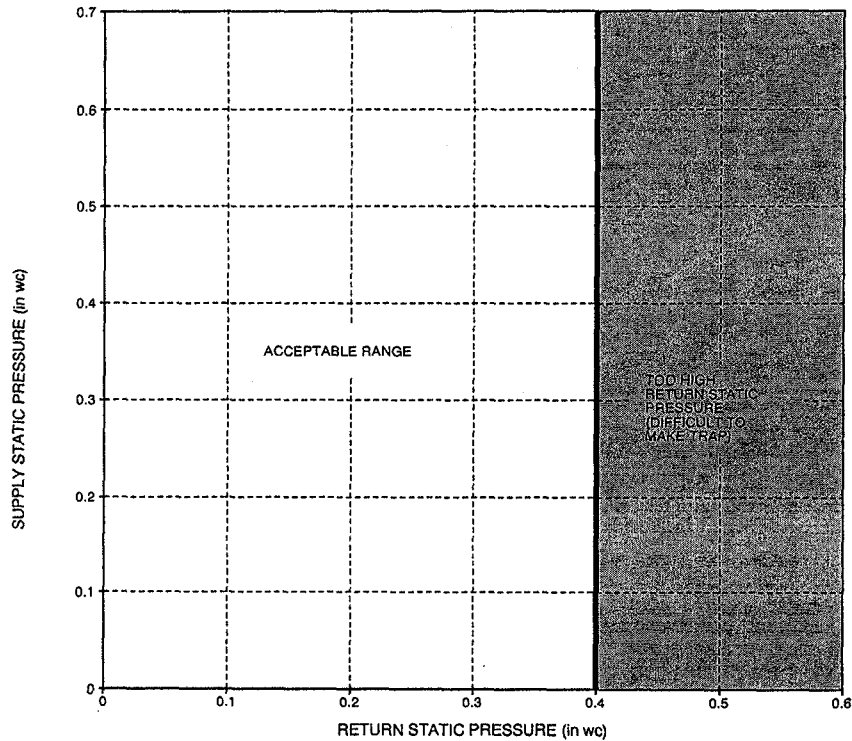
Note 1: Emergency — Air conditioner with electric heater application, or emergency heat.

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



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
	2000 CFM	0.60 in wc
FE5ANB004	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	1.00 in wc

GROSS COOLING CAPACITIES (MBTUH)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
		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
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
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	27.67	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	33.66	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
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	52.88	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
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
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