



CONSTRUCTION PERMIT APPLICATION

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

C-19-001535

I. IDENTIFICATION

1. Proposed Work Site at: 207 Georges Road

2. Name of Owner in Fee: Laurene Ryan

Te [REDACTED] e-mail [REDACTED]

Address 207 Georges Road Brick, NJ 08724

3. Ownership in Fee: Public Private municipality zip code

4. Principal Contractor: BC Express, Inc. Tel. (732) 240-2828

Address 2115 Route 9 e-mail info@bcexpressinc.net

Toms River, NJ 08755

License No. OR, if new home, Builder Reg. No. 19HC0035600C Exp. Date 3/31/19

Home Improvement Contractor Registration No. or Exemption Reason 13VH00725200

Federal Emp. ID No. 22-3161926 FAX: (732) 240-7488

5. Architect or Engineer Contact

Address e-mail

Tel. FAX:

6. Responsible Person in Charge once Work has Begun Doug Wong

Tel. (732) 240-2828 FAX: (732) 240-7488

V. FEE SUMMARY (for office use only)

	Update	Update
1. Building	\$ 150	
2. Electrical		
3. Plumbing		
4. Fire Protection		
5. Elevator Devices Mechanical	200	75
6. Subtotal		
7. Less 20% for State Plan Review		
8. Subtotal		
9. State Permit Surcharge Fee	23	4
10. Subtotal		
11. Cert. of Occupancy		
12. Other		
13. TOTAL	\$ 373	79

VI. BUILDING/SITE CHARACTERISTICS

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

(office use only)

IIa. PROPOSED WORK

- ☒ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates	Re-viewer
						Approval	Rejection
\$250							
\$14,000							

TOTAL COST \$14,250

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use:
2. Use Group, Proposed: Select Group
3. Change in Use Group, Indicate Present: Select Group
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: Select Group Select Group
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

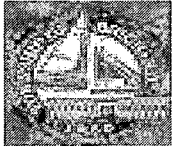
IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

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

RECEIVED

BUILDING

APR 2 9 29 AM '19



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 7/8/2019
Control Number C-19-001535
Permit Number 19-1100
Permit Issue Date 5/3/2019
Certificate Number 19-1100

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 207 GEORGES RD Brick Township, NJ Block: 1205.05 Lot: 11 Qual: _____
Owner in Fee: RYAN, JAMES A. & LAURENE M.
Owner Address: 207 GEORGES RD BRICK NJ 08724
Telephone: [REDACTED]
Contractor BC EXPRESS INC.
Address 2115 LAKEWOOD RD <ROUTE 9> TOMS RIVER NJ 08755
Telephone: (732) 240-2828 Fax: (732) 240-7488
License Number or Builders Registration Number: _____ Federal Emp. Number: 22-3161926

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: ALTERATION - RESIDENTIAL - ... REPLACE A/C & FURNACE

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

Fee: \$0.00

Check Number: _____

Collected By: _____

OFFICE USE ONLY

[illegible]

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer									
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Department of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Department of Environmental Protection									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition		Name of Code & Edition		Other
Building _____	Energy _____			
Electrical _____	Barrier Free _____			
Plumbing _____	Flood Hazard _____			
Fire Protection _____	As Built Elevation Cert. _____			
Mechanical _____	Other _____			

X. CERTIFICATES ISSUED (office use only)

	No.	DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	_____	_____	_____	_____	_____
☐ Temporary Certificate of Compliance	_____	_____	_____	_____	_____
☐ Continued Certificate of Occupancy	_____	_____	_____	_____	_____
☐ Certificate of Compliance	_____	_____	_____	_____	_____
☐ Certificate of Occupancy	_____	_____	_____	_____	_____
☐ Certificate of Approval	_____	_____	_____	_____	_____
☐ Lead Abatement Clearance Certificate	_____	_____	_____	_____	_____

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, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

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, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

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.

(X) Check if contractor.

Agent Name BC Express, Inc.

Address 2115 Route 9

Toms River, NJ 08755

Telephone (732) 240-2828

Signature _____

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:23-2.15(b)4.

- IV. ☐ HOME ELEVATION: Include Home Elevation Contractor Certification as per N.J.S.A. 52:27D-123.16.



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 1205-05 Lot 11 Qualification Code _____

Work Site Location 207 Georges Road
Brick, NJ 08724

Owner in Fee: Laurene Ryan

Tel. [REDACTED] e-mail _____

Address 207 Georges Road Brick, NJ 08724 zip code _____

Contractor: Battista Electric Tel: (732) 240-2828

Address 628 Surf Avenue e-mail _____
Beachwood, NJ

Contractor License No. 34E101086400 Exp. Date 3/31/2021

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 22-3119127 FAX: (732) 240-7488

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

☐ Pole/Pad # _____ ☐ Temporary ☐ Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ \$250

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Failure	Approval Initial
☐ No Plans Required		Rough			
☐ Partial Underslab Utilities Approved		Barrier-Free			
Date: _____ Approved by: _____		Trench			
☐ Electric Plans Approved		Temp. Serv.			
Date: _____ Approved by: _____		Constr. Serv.			
Joint Plan Review Required:		TCO			
☐ Bldg. ☐ Plumb. ☐ Fire ☐ Elev.		Other			
SUBCODE APPROVAL for PERMIT		Service			
Date: _____		Final			
Approved by: _____		Barrier-Free			
SUBCODE APPROVAL for CERTIFICATE		Temp. Cut-in Card Date Issued			
☐ CO ☐ CCO ☐ CA		Final Cut-in Card Date Issued			
Date: <u>6/26/19</u>		Annual Pool Inspection			
Approved by: <u>[Signature]</u>		Date of Grounding and Bonding Certification			

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent or) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: [Signature]

Print name here: Joseph Battista

☒ Licensed Elec. Contractor ☐ Certified Landscape Irrigation Contr ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

replace furnace, a/c

QTY.	SIZE	ITEMS	FEE (Office Use Only)
_____	_____	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 UW Lights	_____
_____	_____	Storable 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 A/C Unit	_____
_____	_____	HP/KW Space Heater/Air Handler	_____
_____	_____	KW Baseboard Heat	_____
_____	_____	HP Motors 1/+ HP	_____
_____	_____	KW Transformer/Generator	_____
_____	_____	AMP Service	_____
_____	_____	AMP Subpanels	_____
_____	_____	AMP Motor Control Center	_____
_____	_____	KW Elec. Sign/Outline Light	_____
_____	_____	<u>furnace</u>	_____

Administrative Surcharge \$ _____

Minimum Fee \$ _____

State Permit Surcharge Fee \$ _____

TOTAL FEE \$ _____



MECHANICAL INSPECTION TECHNICAL SECTION



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

Block 1205.05 Lot 11 Qualification Code _____

Work Site Location 207 Georges Road
Brick, NJ 08724

Owner in Fee: Laurene Ryan

Tel. [REDACTED] e-mail _____

Address 207 Georges Road Brick, NJ 08724
street municipality zip code

Contractor: BC Express, Inc. Tel. (732) 240-2828

Address 2115 Route 9 e-mail info@bcexpressinc.net
Toms River, NJ 08755

Contractor License No. 19HC0035600C Exp. Date 06/30/2020

Home Improvement Contractor Registration No. or Exemption Reason 13VH00725200

Federal Emp. ID No. 22-3161926 FAX: (732) 240-7488

B. MECHANICAL CHARACTERISTICS

Use Group Present: _____ Proposed: _____

Heating System work: ☐ New OR ☐ Modification to Existing OR ☐ Conversion OR ☐ Replacement

Type: ☐ Hydronic ☐ Hot Air

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar ☐ Other _____

Estimated Cost of Mechanical Work \$ \$12,000

JOB SUMMARY (Office Use Only)		INSPECTIONS		DATES		
PLAN REVIEW		Type:	Failure	Failure	Approval	Initial
☐ No Plans Required		Gas Piping				
☐ Mechanical Plans Approved		Appliance				
Date: _____ Approved by: _____		Chimney/Vent				
Joint Plan Review Required:		Oil Piping				
☐ Bldg. ☐ Elec. ☐ Plumb. ☐ Fire		Oil Tank				
☐ Elev.		LPG Tank				
SUBCODE APPROVAL for PERMIT		Hydronic Piping				
Date: _____		Fireplace				
Approved by: _____		Chimney Cert.				
SUBCODE APPROVAL for CERTIFICATE		Other <u>FINAL</u>				
☐ TCA ☐ CCO						
Date: <u>6-26-19</u>						
Approved by: <u>[Signature]</u>						

Date Received
Control #

5/3/19

Date Issued
Permit #

19-1100

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent or) owner of record and am authorized to make this application.

Sign here: _____

Print name here: Doug Wong

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

replace furnace, a/c

NO. FIXTURE/EQUIPMENT

____ Water Heater
____ Fuel Oil Piping Connections
____ Gas Piping Connections
____ Steam Boiler
____ Hot Water Boiler
____ Hot Air Furnace
____ Oil Tank
____ LPG Tank
____ Fireplace
____ Generator
____ Other

FEE (Office Use Only)

\$ _____

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



MECHANICAL INSPECTOR TECHNICAL SECTION



Update +A

Date Received
Control #

5/3/19

Date Issued
Permit #

19-1100 +A

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

Block 1205.05 Lot 11 Qualification Code _____

Work Site Location _____

Owner in Fee: Ryan

Tel. _____ e-mail _____

Address S.A.A.

Contractor: Bernie Meyer Tel. 732 240-2828

Address 449 Downing Ave. e-mail _____

Bayville, NJ 08721

Contractor License No. or Builder Registration No. 4543 Exp. Date 6/30/19

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. _____ FAX: _____

B. MECHANICAL CHARACTERISTICS

Use Group Present: R-3 or R-5

Heating System work: ☐ New OR ☐ Modification to Existing OR ☐ Conversion OR ☐ Replacement

Type: ☐ Hydronic ☐ Hot Air

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar ☐ Other _____

Estimated Cost of Mechanical Work \$ 2,000

JOB SUMMARY (Office Use Only)	
PLAN REVIEW	INSPECTIONS
☐ No Plans Required	Type: _____
☐ Mechanical Plans Approved	Gas Piping _____
Date: _____ Approved by: _____	Appliance _____
Joint Plan Review Required:	Chimney/Vent _____
☐ Bldg ☐ Elec. ☐ Plumb. ☐ Fire.	Oil Piping _____
☐ Elev.	Oil Tank _____
SUBCODE APPROVAL for PERMIT	LPG Tank _____
Date: _____	Hydronic Piping _____
Approved by: _____	Fireplace _____
SUBCODE APPROVAL for CERTIFICATE	Chimney Cert. _____
☐ CA ☐ CCO	Other <u>Final</u> _____
Date: <u>6-26-19</u>	
Approved by: _____	

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Sign here: See Attached Plumbing Tech w/

Print name here: Signature i Seal

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Replace Water Heater

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
<u>1</u>	Water Heater	\$ _____
_____	Fuel Oil Piping Connections	_____
_____	Gas Piping Connections	_____
_____	Steam Boiler	_____
_____	Hot Water Boiler	_____
_____	Hot Air Furnace	_____
_____	Oil Tank	_____
_____	LPG Tank	_____
_____	Fireplace	_____
_____	Other	_____
Administrative Surcharge \$		_____
Minimum Fee \$		_____
State Permit Surcharge Fee \$		_____
TOTAL FEE \$		_____



PERMIT UPDATE

Date Update Issued 6/3/19
Control # C-19-001535+A
Permit # +A

19-1100-1

IDENTIFICATION Block: 1205.05 Lot: 11 Qualifier _____
Work Site Location: 207 GEORGES RD Brick Township, NJ Contractor BC EXPRESS INC.
Address 2115 LAKEWOOD RD <ROUTE 9> TOMS RIVER NJ
Owner in Fee RYAN, JAMES A. & LAURENE M. 08755
207 GEORGES RD BRICK NJ 08724 Telephone: (732) 240-2828
Lic. No. or Bldrs. Reg. No. 13VH00752500 19HC00356000
Federal Employee No. 22-3161926

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:

ALTERATION - RESIDENTIAL UPDATE +A - REPLACE WATER HEATER

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 \$2,000

Construction Official Donald F. Morrison

Date 4/24/19

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

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT 175.00
94.00
379.00

PAYMENTS (Office Use Only)

Building _____ \$0
Electrical _____ \$0
Plumbing _____ \$0
Fire Protection _____ \$0
Elevator Devices _____ \$0
Other _____ \$75.00
DCA Training Fee _____ \$4
CO Fee _____
Other _____ \$0
Total _____ \$79
Check No. 16409
Cash _____ \$0
Credit _____ \$0
Collected By [Signature]

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 three 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.



CONSTRUCTION PERMIT

Date Issued 5/3/19
Control # C-19-001535
Permit # 19-1100

IDENTIFICATION Block: 1205.05 Lot: 11 Qualifier _____
Work Site Location: 207 GEORGES RD Brick Township, NJ Contractor BC EXPRESS INC.
Address 2115 LAKEWOOD RD <ROUTE 9> TOMS RIVER NJ
Owner in Fee RYAN, JAMES A. & LAURENE M. Telephone: 08755
207 GEORGES RD BRICK NJ 08724 Lic. No. or Bldrs. Reg. No. 13VH00752500 19HC00356000
Telephone: _____ Federal Employee No. 22-3161926

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:

ALTERATION - RESIDENTIAL ... REPLACE A/C & FURNACE

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 \$12,250

David F. Newman
Construction Official

4/26/19
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 _____ \$150
Plumbing _____ \$0
Fire Protection _____ \$0
Elevator Devices _____ \$0
Other _____ \$200.00
DCA Training Fee _____ \$23
CO Fee _____
Other _____ \$0
Total _____ \$373

Check No. 16409
Cash _____ \$0
Credit _____ \$0
Collected By: (Signature)

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 three 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.



CHIMNEY VERIFICATION FOR REPLACEMENT OF FUEL-FIRED EQUIPMENT

BLOCK 1205.05 LOT 11 QUALIFICATION CODE _____ PERMIT # _____

WORK SITE ADDRESS 207 Georges Road

Owner in Fee Laurene Ryan

Verifying Individual Doug Wong

Company BC Express, Inc.

Address 2115 Route 9

Toms River, NJ 08755

Street

City

State

Zip Code

Tel: (732) 240-2828

Fax: (732) 240-7488

Check the Appropriate Box(es):

Type of Replacement:

- ☐ Oil to Gas Conversion
☐ Gas to Oil Conversion
☒ Gas Appliance Replacement
☐ Oil to Oil Replacement
☐ Other _____

Existing Vent/Chimney:

- ☐ "B" Label Vent
☐ "L" Label Vent
☐ Flexible Liner
☐ Power Vent/Exhauster

Size

- ☐ Chimney-Interior
☐ Chimney-Exterior
☐ Masonry Chimney-Tile Lined
☐ Masonry Chimney-Unlined
☐ Other PVC

Type

Appliance 1: furnace

Oil / Gas / Other: _____

Appliance 2: AC

Oil / Gas / Other: _____

Appliance 3: _____

Oil / Gas / Other: _____

Fuel Type

BTU Rating (input/hour)

160,000

140,000

CHIMNEY LINER

If a chimney liner is being installed, all documentation on the liner must accompany the Permit application.

Manufacturer: _____ Model: _____ UL Listing: _____

Material of Liner: Stainless Steel Aluminum

Size of Appliance Vent: _____ Size of Liner: _____ Height of Chimney: _____

Length of Connector: _____ Vent Connector Rise: _____

How does the appliance vent? ☐ Natural Draft ☐ Fan-assisted ☐ Other: _____

PLEASE SIGN ONE OF THE FOLLOWING VERIFICATION STATEMENTS

For Oil or Coal to Gas Conversions:

I have verified that the chimney/vent is in good repair and clear of obstruction and is substantially clean of residue from its previous use serving an oil or coal appliance. I have verified that the chimney/vent is appropriately lined and sized for the appliance(s) being installed.

Signature _____

Date _____

Oil to Oil or Gas to Gas Replacements or New/Additional Appliances:

I have verified that the existing chimney/vent is in good repair and clear of obstruction. I have verified that the existing chimney/vent is appropriately lined and sized for the appliance(s) being installed and/or remaining.

Signature _____

Date _____

Direct Vent Appliance:

I hereby verify that the appliance(s) being installed is a direct vent appliance. I further verify that the existing chimney/vent is appropriately lined and sized for any remaining appliances.

Signature _____

Date _____

Verification Not Submitted:

I choose not to submit verification. I understand that I will be required to be present for the inspection to remove and reinstall the chimney vent connector.

Signature _____

Date _____

FOR MINOR AND EMERGENCY WORK, THIS FORM MUST BE PROVIDED WITH YOUR PERMIT APPLICATION. FOR ALL OTHER WORK, THIS FORM MUST BE PRESENTED TO THE CODE OFFICIAL PRIOR TO FINAL INSPECTION.

All applicable information requested on this form must be supplied.

This form may not be submitted by a homeowner in lieu of the required inspection.

NOT AN
ELECTRICIAN'S
OR PLUMBER'S
LICENSE

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Home Improvement Contractors

HAS REGISTERED

BC EXPRESS, INC.
Ben Wong
2115 Lakewood Rd
Toms River NJ 08755-1215

FOR PRACTICE IN NEW JERSEY AS A(N): Home Improvement Contractor

02/04/2019 TO 03/31/2020
VALID

13VH00752500
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Exam. of HVACR Contractors

HAS LICENSED

Douglas Wong
2115 Route 9
Toms River NJ 08755

FOR PRACTICE IN NEW JERSEY AS A(N): Master HVACR Contractor

05/24/2018 TO 06/30/2020
VALID

19HC00356000
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

New Jersey Office of the Attorney General
Division of Consumer Affairs
THIS IS TO CERTIFY THAT THE
Board of Exam. of HVACR Contractors
HAS LICENSED
Douglas Wong
Master HVACR Contractor

05/24/2018 TO 06/30/2020
VALID

19HC00356000
License/Registration/Certificate #

SIGNATURE

ACTING DIRECTOR

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:
Board of Exam. of HVACR Contractors
P.O. Box 47031
Newark, NJ 07101

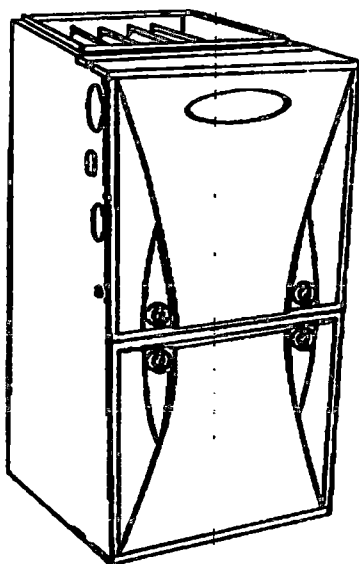
PLEASE DETACH HERE

59TP6A
Performance Two-Stage, Variable Speed
4-Way Multipoise
Condensing Gas Furnace
Series 1



turn to the experts

Product Data



A11263

The 59TP6A Multipoise Variable-Speed Condensing Gas Furnace features the two-stage Performance™ System. The Comfort Heat® technology two-stage gas valve is at the heart of the comfort provided by this furnace, along with the variable-speed ECM blower motor, and two-speed inducer motor. With an Annual Fuel Utilization Efficiency (AFUE) up to 96.5%, the Performance™ Series two-stage gas furnace provides exceptional savings when compared to standard gas furnaces. This Performance Gas Furnace also features 4-way multipoise installation flexibility, and is available in eight model sizes. The 59TP6A can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. All units meet California Air Quality Management District emission requirements. All sizes are design certified in Canada.

STANDARD FEATURES

- All sizes meet ENERGY STAR® Version 4.0 criteria for gas furnaces: 95+AFUE; AMACF electrical rating: 2% or less

- cabinet airflow leakage.
- Quiet operation. Compare for yourself at HVACpartners.com.
- Ideal height 35" (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Silicon Nitride Perfect Light™ Hot Surface Igniter.
- SmartSwap™ technology helps control humidity levels in the home when used with a compatible humidity control system.
- ComfortFan™ technology allows control of continuous fan speed from a compatible thermostat.
- 4-way multipoise design for upflow, downflow or horizontal installations, with unique vent elbow and optional through-the-cabinet downflow venting capability.
- Full-featured variable-speed blower motor, two-speed inducer motor, and two-stage gas valve.
- Self-diagnostics.
- Adjustable blower speed for cooling, continuous fan, and dehumidification.
- Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.
- Propane convertible (See Accessory list).
- Factory-configured ready for upflow applications.
- Fully-insulated casing including blower section.
- Convenient Air Purifier and Humidifier connections.
- Direct-vent/sealed combustion, single-pipe venting or ventilated combustion air.
- Installation flexibility: sidewall or vertical vent.
- Residential installations may be eligible for consumer financing through the Retail Credit Program.
- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1-in. water column with all present air inlets, air outlets, and condensate drain port(s) sealed.

Performance
SERIES



SAP ORDERING NO.	CASING DIMENSIONS (IN.)			RATED HEATING OUTPUT† (BTUH)			HEATING AIRFLOW			COOLING CFM @ 0.5 ESP (In. W.C.)	MOTOR HP - SPEED (VARIABLE SPEED)
	H	D	W	High	Low	AFUE	CFM‡ (High Heating)	CFM (Low Heating)	High Heating ESP (In. W.C.)		
59TP6A040E141110	35	29.5	14.2	39,000	25,000	96.5%	815	660	0.10	905	1/2
59TP6A040E171112	35	29.5	17.5	39,000	25,000	96.0%	860	660	0.10	1065	1/2
59TP6A060E141112	35	29.5	14.2	58,000	38,000	95.0%	1120	910	0.12	1065	1/2
59TP6A060E171112	35	29.5	17.5	58,000	38,000	96.3%	1135	860	0.12	1475	3/4
59TP6A080E171116	35	29.5	17.5	78,000	50,000	96.2%	1505	1160	0.15	1610	3/4
59TP6A080E211120	35	29.5	21.0	78,000	51,000	96.5%	1555	1200	0.15	2005	1
59TP6A100E211120	35	29.5	21.0	97,000	63,000	96.1%	1865	1435	0.20	2005	1
59TP6A120E241122	35	29.5	24.0	117,000	76,000	96.5%	2375	1675	0.20	2115	1

†Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.

‡Minimum heat CFM when low-heat rise adjustment switch (SW1-3) and comfort/efficiency adjustment switch (SW1-4) on control center are OFF.

ESP - External Static Pressure

FEATURES AND BENEFITS

Comfort Heat Technology® — This feature with Adaptive Control is a proprietary function that promotes homeowner comfort through two stages of heating. This Carrier furnace offers a patented algorithm that continually monitors and adjusts furnace operation by looking at both current and past conditions to determine the most effective stage of heating and the amount of time to run each stage, every cycle.

SmartEvap™ Technology — When paired with a compatible thermostat, this dehumidification feature overrides the cooling blower off-delay when there is a call for dehumidification. By deactivating the blower off-delay, SmartEvap technology prevents condensate that remains on the coil after a dehumidification cycle from re-humidifying throughout the home. This results in reduced humidity and a more comfortable indoor environment for the homeowner.

Unlike competitive systems, SmartEvap technology only overrides the cooling blower off delay when humidity control is needed. Once humidity is back in control, SmartEvap re-enables the energy-saving cooling blower off-delay.

ComfortFan™ Technology — Sometimes the constant fan setting on a standard furnace system can actually reduce homeowner comfort by providing too much or too little air! Fan On Plus technology improves comfort all year long by allowing the homeowner to select the continuous fan speed of their choice using a compatible thermostat.

HYBRID HEAT® Dual Fuel system — This system can provide more control over your monthly energy bills by automatically selecting the most economical method of heating. With HYBRID HEAT, our system automatically switches between the gas furnace and the electric heat pump as outside temperatures change to maintain greater efficiency and comfort than with any traditional single-source heating system. The heat pump also delivers high-efficiency cooling in the summer.

Power Heat™ Igniter — Carrier's unique SiN igniter is not only physically robust but it is also electrically robust. It is capable of running at line voltage and does not require complex voltage regulators as do other brands. This unique feature further enhances the gas furnace reliability and continues Carrier's tradition of technology leadership and innovation in providing a reliable and durable product.

Full-Featured, Variable Speed Motors — Our variable-speed ECM (Electronically Commutated Motor) optimizes comfort levels in the home year round, features such as passive/active dehumidification, ramping profiles, and quiet operation. They can provide cooling match enhancements to increase the effective SEER of select Carrier air conditioner or heat pump system. This motor does not report back RPM and static pressure to enable static pressure reporting to the UI or zoning system, which is required for zoning, active filter monitoring and system static pressure reporting.

Reliable Heat Exchanger Design — The aluminized steel, clam shell primary heat exchanger was re-engineered to achieve greater efficiency out of a smaller size. The first two passes of the heat exchanger are based on the current 80% product, a design with more than ten years of field-proven performance and success. These innovations, paired with the continuation of a crumpled, no-weld seam create an efficient, robust design for this essential component.

The condensing heat exchanger, a stainless steel fin and tube design, is positioned in the furnace to extract additional heat. Stainless steel coupling box componentry between heat exchangers has exceptional corrosion resistance in both natural gas and propane applications.

Optional Media Filter Cabinet — Enhanced indoor air quality in the home is made easier with our media filter cabinet. When installed as a part of the system, this cabinet allows for easy and convenient addition of a Carrier high efficiency air filter.

4-Way Multipoise Design — One model for all applications — there is no need to stock special downflow or horizontal models when one unit will do it all. The new heat exchanger design allows these units to achieve the certified AFUE in all positions.

Direct or Single-pipe Venting, or Optional Ventilated Combustion Air — This furnace can be installed as a 2-pipe (Direct Vent) furnace, in an optional ventilated combustion air application, or in single-pipe, non-direct vent applications. This provides added flexibility to meet diverse installation needs.

Sealed Combustion System — This furnace brings in combustion air from outside the furnace, which results in especially quiet operation. By sealing the entire combustion vestibule, the entire furnace can be made quieter, not just the burners.

Insulated Casing — Foil-faced insulation in heat exchanger section of the casing minimizes heat loss. The acoustical insulation in the blower compartment reduces air and motor noise for quiet operation.

Monoport Burners — The burners are specially designed and finely tuned for smooth, quiet combustion and economical operation.

Bottom Closure — Factory-installed for side return; easily removable for bottom return. The multi-use bottom closure can also serve for roll-out protection in horizontal applications, and act as the bottom closure for the optional return air base accessory.

Certifications — This furnace is CSA (AGA and CGA) design certified for use with natural and propane gases. The furnace is factory-shipped for use with natural gas. A CSA listed gas conversion kit is required to convert furnace for use with propane gas. The efficiency is AHRI efficiency rating certified. This furnace meets California Air Quality Management District emission requirements.

SPECIFICATIONS

Heating Capacity and Efficiency			040-10	040-12	060-12	060-14	060-16	060-20	100-20	120-22
Input	High Heat	(BTUH)	40,000	40,000	60,000	60,000	80,000	80,000	100,000	120,000
	Low Heat	(BTUH)	26,000	26,000	39,000	39,000	52,000	52,000	65,000	78,000
Output	High Heat	(BTUH)	39,000	39,000	58,000	58,000	78,000	78,000	97,000	117,000
	Low Heat	(BTUH)	25,000	25,000	38,000	38,000	50,000	51,000	63,000	76,000
Certified Temperature Rise Range °F (°C)			High Heat (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)
			Low Heat (17 - 33)	30 - 60 (17 - 33)	30 - 60 (17 - 33)	30 - 60 (17 - 33)	30 - 60 (17 - 33)	30 - 60 (17 - 33)	30 - 60 (17 - 33)	30 - 60 (17 - 33)

Airflow Capacity and Blower Data			040-10	040-12	060-12	060-14	060-16	060-20	100-20	120-22
Rated External Static Pressure (in. w.c.)	Heating		0.10	0.10	0.12	0.12	0.15	0.15	0.20	0.20
	Cooling		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Airflow Delivery @ Rated ESP (CFM)	High Heat		815	860	1120	1135	1505	1555	1865	2375
	Low Heat		660	660	910	860	1160	1200	1435	1675
Cooling Capacity (tons) @ 400, 350 CFM/ton	Cooling		905	1065	1065	1475	1610	2005	2005	2115
	400 CFM/ton		2	2.5	2.5	3.5	4	5	5	5
	350 CFM/ton		2.5	3	3	4	4.5	5.5	5.5	6
Direct-Drive Motor Type			Electronically Communicated Motor (ECM)							
Direct-Drive Motor HP			1/2	1/2	1/2	3/4	3/4	1	1	1
Motor Full Load Amps			6.8	6.8	6.8	8.4	8.4	10.9	10.9	10.9
RPM Range			600 - 1200							
Speed Selections			Variable (PWM)							
Blower Wheel Dia x Width			11 x 7	11 x 8	11 x 7	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
Air Filtration System			Optional Media Cabinet Field Supplied Filter							
Filter Used for Certified Watt Data			KGAWF1506UFR							

Electrical Data			040-10	040-12	060-12	060-14	060-16	060-20	100-20	120-22
Input Voltage			115-60-1							
Operating Voltage Range			104-127							
Maximum Input Amps			7.5	7.5	7.6	9.2	9.2	11.7	11.8	11.8
Unit Ampacity			10.3	10.2	10.3	12.4	12.4	15.5	15.6	15.6
Minimum Wire Size			14	14	14	14	14	12	12	12
Maximum Wire Length @ Minimum Wire Size			36	36	36	29	29	37	36	36
			(11.0)	(11.0)	(11.0)	(8.8)	(8.8)	(11.3)	(11.0)	(11.0)
Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended)			15	15	15	15	15	20	20	20
Transformer Capacity (24vac output)			40 VA							
External Control Power Available			Heating	24.3 VA						
			Cooling	34.6 VA						

Controls			040-10	040-12	060-12	060-14	060-16	060-20	100-20	120-22
Gas Connection Size			1/2" - NPT							
Burners (Monoport)			2	2	3	3	4	4	5	6
Gas Valve (Redundant)			White Rodgers							
Minimum Inlet Gas pressure (in. wc)			4.5							
Maximum Inlet Gas pressure (in. wc)			13.6							
Manufactured (Mobile) Home Kit			not approved for MH use							
Ignition Device			Silicon Nitride							
Limit Control			165	180	165	180	170	200	180	160
Heating Blower Control (Heating Off-Delay)			Adjustable: 90, 120, 150, 180 seconds							
Cooling Blower Control (Time Delay Relay)			90 seconds							
Communication System			None							
Thermostat Connections			R, W/W1, W2 Y/Y2, Y1, G, Com 24V, DHUM							
Accessory Connections			EAC (115vac), HUM (24vac), 1-stg AC (via Y/Y2)							

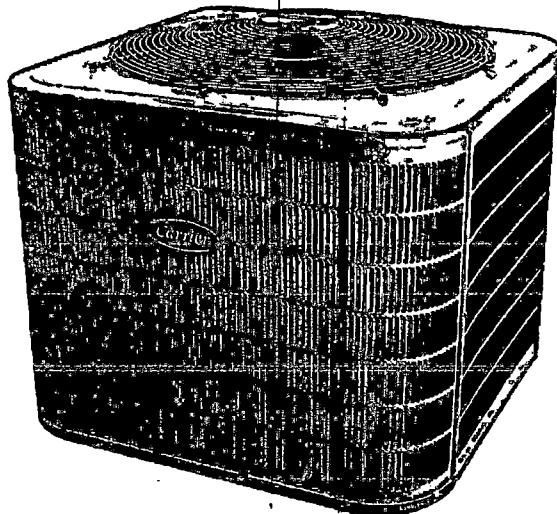
* See Accessory List for part numbers available

**24ACC6
Performance™ 16 Air Conditioner
with Puron® Refrigerant
1-1/2 to 5 Tons**



turn to the experts 

Product Data



Performance SERIES

Carrier's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 24ACC 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 - 16.5 SEER / 11.5 - 13.5 EER
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 72 dBA
- Compressor sound blanket standard

Comfort

- System supports Edge® Thermostat™ or standard thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier
- High and low pressure switches
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Louvered coil guard
- Baked-on, complete outer coverage, powder paint

Applications

- Long-line - up to 250 feet (76.20 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 -20°F/-28.9°C) with accessory kit

MODEL NUMBER NOMENCLATURE

1 N	2 N	3 A	4 A	5 A/N	6 N	7 N	8 N	9 A/N	10 A/N	11 A/N	12 N	13 N
2	4	A	C	C	6	3	6	A	0	0	3	0
Product Series	Product Family	Tier	Major Series	SEER	Cooling Capacity	Grille Variations	Open	Open	Voltage	Series		
24=AC	A=RES AC	C=Performance	C=Puron	6=16 SEER		A = Standard	0=Not Defined	0=Not Defined	3=208/230-1	0 = Original Series		



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.



ISO 9001
QMS-SAI Global



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

STANDARD FEATURES

Feature	18	24	30	36	42	48	60
Puron Refrigerant	X	X	X	X	X	X	X
Maximum SEER *	16.0	16.0	16.5	16.5	16.0	16.0	16.0
Scroll Compressor	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X	X	X	X
Internal Thermal Overload	X	X	X	X	X	X	X
Long Line capability	X	X	X	X	X	X	X
Low Ambient capability with Kit	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X
Low Pressure Switch	X	X	X	X	X	X	X
Compressor Sound Blanket	X	X	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X	X	X

* With approved combinations

X = Standard

PHYSICAL DATA

UNIT SIZE -- VOLTAGE, SERIES	18-30	24-30	30-30	36-30	42-30	48-30	60-30
Operating Weight lb (kg)	136 (61.7)	163 (73.9)	167 (75.7)	180 (81.6)	234 (106.1)	248 (112.5)	337 (152.9)
Shipping Weight lb (kg)	163 (73.9)	188 (89.8)	204 (92.5)	219 (99.3)	281 (127.5)	291 (132.0)	372 (168.7)
Compressor Type	Scroll						
REFRIGERANT	Puron (R-410A)						
Control	TXV (Puron Hard Shutoff)						
Charge lb (kg)	4.60 (2.09)	6.00 (2.72)	6.81 (3.09)	7.00 (3.18)	8.62 (3.91)	10.50 (4.76)	14.50 (6.58)
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	1881	2614	2614	3223	3810	4048	4046
Motor HP	1/12	1/10	1/10	1/12	1/5	1/4	1/4
Motor RPM	1100	800	800	800	800	800	800
COND COIL							
Face Area (Sq ft)	11.50	15.10	17.20	17.60	25.15	20.10	30.15
Fins per In.	25	25	25	25	25	20	20
Rows	1	1	1	1	1	2	2
Circuits	3	4	4	4	6	7	8
VALVE CONNECT. (In. ID)							
Vapor	3/4	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8	3/8	3/8	3/8	3/8	3/8	3/8
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	3/4			7/8			1 1/8
Max Liquid Line	3/8						

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

† See Liquid Line Sizing For Cooling Only Systems with Puron Refrigerant tables.

ELECTRICAL DATA

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH	MAX LENGTH	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	ft. (m)‡	ft. (m)‡	
18-30	208/230/1-60	253	197	48.0	9.0	0.50	11.8	14	14	67 (20.4)	64 (19.5)	20
24-30				58.3	13.5	0.70	17.6	14	14	46 (14.0)	43 (13.1)	25
30-30				64.0	12.8	0.70	16.7	14	14	44 (13.4)	41 (12.5)	25
36-30				77.0	14.1	0.50	18.1	12	12	57 (17.4)	54 (16.5)	30
42-30				112.0	17.9	1.20	23.6	10	10	85 (25.9)	81 (24.7)	40
48-30				109.0	19.9	1.20	26.1	10	10	70 (21.3)	67 (20.4)	40
60-30				135.0	21.4	1.20	28.0	8	10	91 (27.7)	56 (17.1)	40

* 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 310-18 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 LEVEL (dBA)

Unit Size - Voltage, Series	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18-30	73	49.5	58.5	64.5	69.0	63.0	59.5	52.4
24-30	74	54.5	62.0	67.0	71.5	66.0	62.0	53.0
30-30	74	56.0	62.5	66.0	68.5	64.5	61.0	53.5
36-30	72	52.0	61.0	64.0	66.0	61.0	58.5	51.5
42-30	74	56.5	61.5	65.0	66.5	63.5	61.0	56.5
48-30	73	58.0	61.0	65.0	66.0	62.0	58.0	51.0
60-30	74	56.5	62.5	66.5	68.0	63.0	59.5	51.5

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
18-30	10 (5.6)
24-30	10 (5.6)
30-30	10 (5.6)
36-30	10 (5.6)
42-30	9 (5.0)
48-30	10 (5.6)
60-30	9 (5.0)

Residential Power Vent Gas Water Heater

TTW® Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed
80% Recovery Efficiency

Model Number	Capacity						Recovery at 90°F Rise*				Model Number	Capacity		Recovery at 50°C Rise*				
	U.S. Imp Gal.	Imp Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input	1st Hour Rating (Gal.)	Energy Factor	Nat. U.S. GPH	Imp. U.S. GPH	LP U.S. GPH	LP U.S. Imp. GPH		Liters	Liters	Nat. kW Input	LP kW Input	1st Hour Rating (Liters)	Energy Factor	Nat. Liters/ Hour
RG1PV40S6N	40	33	40,000	38,000	72	0.66	43	36	41	34	RG1PV40S6N	151	117	111	273	0.66	163	155
RG1PV50S6N	50	42	40,000	38,000	86	0.65	43	36	41	34	RG1PV50S6N	189	117	111	326	0.65	163	155
★ RG2PV40T6N	40	33	40,000	40,000	72	0.76	43	36	43	36	★ RG2PV40T6N	151	11.7	11.7	273	0.70	163	163
★ RG2PV50T6N	50	42	40,000	40,000	86	0.70	43	36	43	36	★ RG2PV50T6N	189	11.7	11.7	326	0.70	163	163
★ RG2PV50H6N	48	42	65,000	58,000	112	0.70	70	58	62	52	★ RG2PV50H6N	182	19.1	17.0	424	0.70	265	235
RG1PV55H6N	55	46	78,000	78,000	N/A	N/A	84	70	84	70	RG1PV55H6N	208	22.9	22.9	N/A	N/A	318	317
RG2PV75H6N	75	62	76,000	75,500	N/A	N/A	82	68	81	67	RG2PV75H6N	284	22.3	22.1	N/A	N/A	310	307

Model Number	A Floor to Vent Conn. In.	B Jacket Dia. In.	C Vent Size In.	D Floor to T&P Conn. In.	E Floor to Gas Conn. In.	F Floor to Top of Heater In.	H C/L of Water Conn. In.	J Floor to Water Conn. In.	K Depth In.	L Floor to Space Heating Inlet In.	M Floor to Space Heating Outlet In.	Approx. Shipping Weight lbs.
RG1PV40S6N	57 1/8	20	2 or 3	40	11 1/4	47 1/2	8	49	27 1/8	N/A	N/A	138
RG1PV50S6N	58 1/4	22	2 or 3	40 1/4	11 1/4	48 1/4	8	59 1/2	26 1/4	N/A	N/A	162
★ RG2PV40T6N	66 1/8	20	2 or 3	50	11 1/4	56 1/4	8	58	24 1/2	N/A	N/A	137
★ RG2PV50T6N	66 1/8	22	2 or 3	50	11 1/4	56 1/4	8	58	26 1/2	N/A	N/A	161
★ RG2PV50H6N	66 1/8	22	3 or 4	50 1/8	11 1/4	56 1/8	11	57 1/4	26 1/4	13 1/2	50 1/8	185
RG1PV55H6N	64 1/8	22	3 or 4	47 1/8	11 1/2	54 1/8	8	56	26 1/2	13 1/8	47 1/8	253
RG2PV75H6N	69 1/8	26	3 or 4	51 1/2	13 1/2	59 1/2	11	60 1/4	30 1/4	13 1/8	51 1/2	252

Model Number	A Floor to Vent Conn. mm.	B Jacket Dia. mm.	C Vent Size mm.	D Floor to T&P Conn. mm.	E Floor to Gas Conn. mm.	F Floor to Top of Heater mm.	H C/L of Water Conn. mm.	J Floor to Water Conn. mm.	K Depth mm.	L Floor to Space Heating Inlet mm.	M Floor to Space Heating Outlet mm.	Approx. Shipping Weight kg.
RG1PV40S6N	1458	508	51 or 76	1016	298	1207	203	1245	708	N/A	N/A	63
RG1PV50S6N	1480	559	51 or 76	1032	298	1226	203	1511	679	N/A	N/A	73
★ RG2PV40T6N	1699	508	51 or 76	1270	298	1441	203	1473	622	N/A	N/A	62
★ RG2PV50T6N	1699	559	51 or 76	1270	298	1441	203	1473	673	N/A	N/A	73
★ RG2PV50H6N	1680	559	76 or 102	1273	298	1432	279	1467	679	343	1273	84
RG1PV55H6N	1630	559	76 or 102	1218	279	1388	203	1422	673	340	1218	115
RG2PV75H6N	1764	666	76 or 102	1308	343	1511	279	1543	768	340	1308	114

Propane models feature a Titanium Stainless Steel propane burner. For Propane (LP) models change suffix "N" to "X". For 10 year models, change suffix from "6" to "10". *Based on manufacturer's rated recovery efficiency. 110 VAC Required for Power Venting / 110 VAC 60HZ 3.1 Amperes.

Energy Factor and First Hour Rating is based on the latest AHRI directory listings.

★ = ENERGY STAR® Qualified.

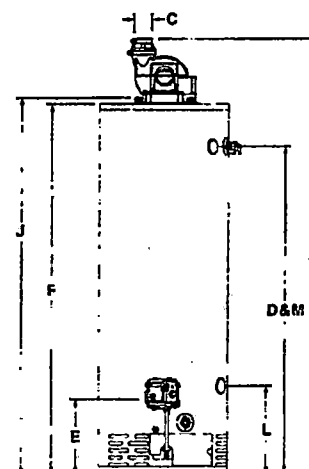
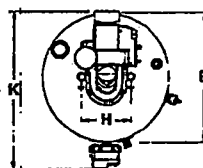
	2" Vent Pipe	3" Vent Pipe
RG1PV40S6N		
RG1PV50S6N		
Max. Equivalent Length	150 ft	1120 ft
Min. Equivalent Length	7 ft	15 ft
Number of 90° Elbows	1 45 ft 2 40 ft 3 35 ft	1 115 ft 2 110 ft 3 105 ft

	2" Vent Pipe	3" Vent Pipe
★ RG2PV40T6N		
★ RG2PV50T6N		
Max. Equivalent Length	150 ft	1120 ft
Min. Equivalent Length	7 ft	15 ft
Number of 90° Elbows	1 45 ft 2 40 ft 3 35 ft	1 115 ft 2 110 ft 3 105 ft

	3" Vent Pipe	4" Vent Pipe
RG2PV50H6N		
RG1PV55H6N		
RG2PV75H6N		
Max. Equivalent Length	160 ft	1180 ft
Min. Equivalent Length	7 ft	15 ft
Number of 90° Elbows	1 55 ft 2 50 ft 3 45 ft	1 175 ft 2 170 ft 3 165 ft

Subtract 5ft. for each additional 90° elbow

† For high altitude installations, consult the installation instructions.



General: All gas water heaters are certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure. All water connections are 3/4" NPT (19mm), all gas connections are 1/2" (13mm). All models design-certified by CSA International (formerly AGA/CGA), ANSI Z-21.10.1 and/or 10.3 and peak performance rated.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

Suitable for Water (Potable) Heating and Space Heating. Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into this system. This unit may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance.

BRADFORD WHITE
WATER HEATERS
Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

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