Howell Township
4567 ROUTE 9 NORTH (2nd FLOOR)
HOWELL, NJ 07731

Date Issued 9/13/2023
Control Number C-63030
Permit Number 20231756
Permit Issue Date 8/17/2023
Certificate Number 20231756

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 8 ANNIE DRIVE HOWELL, NJ 07731 Block: 79.05 Lot: 5 Qual:

Owner in Fee: HARTMAN, ANNE M.

Owner Address: 8 ANNIE DRIVE HOWELL NJ 07731

Telephone: [redacted]

Contractor ROYAL AIR HEATING & COOLING

Address 1735 ROUTE 9 NORTH HOWELL NJ 07731

Telephone: (732) 409-3322 Fax: (732) 677-2776 Federal Emp. Number: [redacted]

License Number or Builders Registration Number:

Home Warranty Number: Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification: 5B

Maximum Live Load: Maximum Occupancy Load:

Description of Work/Use: REPLACE EXTERIOR CONDENSING UNIT, REPLACEMENT A/C A-COIL, REPLACEMENT 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:

Date Printed: 9/13/2023

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

ELECTRICAL SUBCODE
TECHNICAL SECTION

Date Received 8/3/2023
Date Issued 8/17/2023
Control # C-63030
Permit # 20231756

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

Block 79.05 Lot 5 Qualification Code

Work Site Location: 8 ANNIE DRIVE HOWELL, NJ 07731

Owner in Fee: HARTMAN, ANNE M.

Address 8 ANNIE DRIVE HOWELL NJ 07731

Email

Tel. [redacted]

Contractor: ROYAL AIR HEATING & COOLING

Address 1735 ROUTE 9 NORTH HOWELL NJ 07731

Email royalairhvac@gmail.com

Tel. (732) 409-3322 Fax. (732) 677-2776

Lic No. Exp. Date

Home improvment Contractor Registration No. or Exemption Reason(is applicable):

Federal Employee No. 22-3686217

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed R-5

☐ Pole/Pad # ☐ Temporary ☐ Other

Building Occupied as Utility Co.

Estimated Cost of Electrical Work $3,500

C. CERTIFICATION IN LIEU OF OATH

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

Applicant's Signature/Contractor's Seal and Signature and Printed Name

☐ Licensed Elec Cont'r ☐ Certif'd Landscape Irrigation Cont'r ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
REPLACE EXTERIOR CONDENSING UNIT, REPLACEMENT A/C A-COIL, REPLACEMENT FURNACE,

QTY.	SIZE	ITEMS	FEE (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors - Fract. HP	
		Emergency & Exit Lights	
		Communication Points	
		Alarm Devices/F.A.C. Panel	
		TOTAL NUMBERS	
		Pool Permit/with UW Lights	
		Storable Pool/Spa/Hot Tub	
		KW Elec. Range/Receptical	
		KW Oven/Surface Unit	
		KW Elec. Water Heater	
		KW Elec. Dryer/Recepticle	
		KW Dishwasher	
		HP Garbage Disposal	
1	7	KW Central A/C Unit	$25
1	1	HP/KW Space Heater/Air Hand	$25
		KW Baseboard Heat	
		HP Motors 1/+ HP	
		KW Transformer/Generator	
		AMP Service	
		AMP Subpanels	
		AMP Motor Control Center	
		KW Elec. Sign/Outline Light	
		Administrative Surcharge	
		Minimum Fee	$85
		State Permit Surcharge Fee	$7
		TOTAL FEE	$92

COPY

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☐ No Plan Required

☐ Partial/Underslab Approved

Partial Underslab Utilities Approved

Date: by:

☐ Electrical Plans Approved

Date: by:

Joint Plan Review Required

☐ Building ☐ Plumbing

☐ Fire ☐ Elevator

SUBCODE APPROVAL for PERMIT

Date:

Approved by:

SUBCODE APPROVAL for CERTIFICATE

☐ CO ☐ CCO ☒ CA

Date: 9-13-23

Approved by:

INSPECTIONS Type:	Failure	Failure	Approval	Initial
		Dates (Month/Day)		
Rough				
Barrier-Free				
Trench				
Temp. Serv.				
Constr. Serv.				
TCO				
Other				
Service				
Final		8-24-23	9-7-23	9-13-23
Barrier-Free		JK		
Temp. Cut-in-Card Date Issued				
Final Cut-in-Card Date Issued				
Annual Pool Inspection				
Date of Grounding and Bonding Certification				

Fuses Mn 35 Hss 36

U.C.C F120 (rev. 11/09)

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

79.05- 5

MECHANICAL INSPECTION
TECHNICAL SECTION

Date Received
Control # 63030
Date Issued 8/17/23
Permit # 20231756

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

Block 79.05 Lot 5 Qualification Code 8

Work Site Location 8 Annie Dr Howell

Owner in Fee: Anne Hartman

Tel [redacted] e-mail

Address same as above

Contractor: Royal Air (street / municipality) Tel. (732) 409-3322 (zip code)

Address 1735 Rt 9 e-mail Royalairhvac@gmail.com

Howell

Contractor License No. 19HC00062700 Exp. Date 06/30/2024

Home Improvement Contractor Registration No. or Exemption Reason 01273700

Federal Emp. ID No. FAX:

B. MECHANICAL CHARACTERISTICS

Use Group Present: R-5

Heating System work: [ ] New OR [ ] Modification to Existing OR [ ] Conversion OR [X] Replacement

Type: [ ] Hydronic [X] Hot Air

Fuel Type: [X] Gas [ ] Oil [ ] Electric [ ] Solar [ ] Other

Estimated Cost of Mechanical Work $ 3,500

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[✓] No Plans Required
[ ] Mechanical Plans Approved
Date 8-10-23 Approved by: JW
Joint Plan Review Required:
[ ] Bldg. [ ] Elec. [ ] Plumb. [ ] Fire. [ ] Elev.
SUBCODE APPROVAL for PERMIT
Date: 8-10-23
Approved by: Jim Wojcekowski
SUBCODE APPROVAL for CERTIFICATE
[✓] CA [ ] CCO
Date: 8.24.23
Approved by: JW

INSPECTIONS Type:	Failure	Failure	DATES Approval	Initial
Water Heater				
Appliance				
Chimney/Vent				
Piping				
Tank				
Cooling/AC				
Generator				
Fireplace				
Chimney Cert.			OK	JW
Other				
Other				
Final			8.24.23	JW

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.
Applicant sign/Contractor sign and seal here:

Print name here: Ehab Darwish

[ ] Licensed Contractor [✓] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
Replace furnace, coil & condenser

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only) $
	Water Heater	
	Fuel Oil Piping Connections	
	Gas Piping Connections	
	Steam Boiler	
	Hot Water Boiler	
1	Hot Air Furnace	
	Oil Tank	
	LPG Tank	
	Fireplace	
	Generator	
1	Other	
	Administrative Surcharge $	
	Minimum Fee $	85
	State Permit Surcharge Fee $	7
	TOTAL FEE $	92

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

CHIMNEY VERIFICATION FOR REPLACEMENT OF FUEL-FIRED EQUIPMENT

BLOCK 79.05 LOT 5 QUALIFICATION CODE _____ PERMIT # _____

WORK SITE ADDRESS 8 ANNIE DR HOWELL

Owner in Fee ANNE HARTMAN

Verifying Individual EHAB DARWISH Company ROYAL AIR

Address 1735 RT 9 N HOWELL 07731
Street City State Zip Code

Te[redacted] Fax: [redacted]

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: **Size** 6"

✔	"B" Label Vent
	"L" Label Vent
	Flexible Liner
	Power Vent/Exhauster

	Chimney-Interior
	Chimney-Exterior
	Masonry Chimney-Tile Lined
	Masonry Chimney-Unlined
	Other _____

	Type	Fuel Type	BTU Rating (input/hour)
Appliance 1:	FURNACE	Oil / Gas / Other: GAS	75K
Appliance 2:		Oil / Gas / Other:	
Appliance 3:		Oil / Gas / Other:	

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.

_____ 7/28/23
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.

Physical Data

PHYSICAL DATA							
Model No.	RA1518	RA1524	RA1530	RA1536	RA1542	RA1548	RA1560
Nominal Tonnage	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Valve Connections							
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Refrigerant (R410A) furnished oz.[1]	54	60	72	96	105	105	148
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil	5.9	9.1	9.1	12.1	14.2	14.8	18.8
Net face area – Inner Coil	—	—	—	—	—	—	—
Tube diameter – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Number of rows	1	1	1	1	1	1	1
Fins per inch	22	18	22	22	22	22	22
Outdoor Fan							
Diameter – in.	20	20	20	20	20	24	26
Number of blades	2	2	3	3	2	3	2
Motor hp	1/8	1/8	1/4	1/4	1/8	1/6	1/5
CFM	2040	2325	2795	2900	2465	4145	3870
RPM	1075	1075	1075	1075	1075	850	820
watts	144	137	189	186	176	279	235
Shipping weight – lbs.	127	142	163	164	195	202	235
Operating weight – lbs.	120	135	155	157	188	195	228

Electrical Data

Line Voltage Data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Maximum overcurrent protection (amps)[2]	20	25	30	35	40	50	60
Minimum circuit ampacity[2]	13	15	18	23	24	29	35
Compressor							
Rated load amps	9.7	11.2	12.8	16.7	17.9	21.8	26.4
Locked rotor amps	48	66.8	64	83.9	112	117	134
Condenser Fan Motor							
Full load amps	0.7	0.7	1.3	1.3	0.7	1	1.2
Locked rotor amps	1.3	1.3	2.5	2.6	1.3	2.2	2.0
Line Voltage Data (Volts-Phase-Hz)	—	—	—	208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60
Maximum overcurrent protection (amps)[2]	—	—	—	20	30	30	35
Minimum circuit ampacity[2]	—	—	—	15	18	19	22
Compressor							
Rated load amps	—	—	—	10.4	13.2	13.7	16
Locked rotor amps	—	—	—	73	88	83.1	110
Condenser Fan Motor							
Full load amps	—	—	—	1.3	0.7	1	1.3
Locked rotor amps	—	—	—	2.6	1.3	2.2	2.0
Line Voltage Data (Volts-Phase-Hz)	—	—	—	460-3-60	460-3-60	460-3-60	460-3-60
Maximum overcurrent protection (amps)[2]	—	—	—	15	15	15	15
Minimum circuit ampacity[2]	—	—	—	8	8	9	11
Compressor							
Rated load amps	—	—	—	5.8	6.0	6.2	7.8
Locked rotor amps	—	—	—	36	44	41	52
Condenser Fan Motor							
Full load amps	—	—	—	.6	.3	.6	.6
Locked rotor amps	—	—	—	2.5	.9	1.6	1.1

[1]Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.
[2]HACR type circuit breaker or fuse.
[3]Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Model Features

- 80% residential Gas Furnace CSA certified
- PlusOne™ Diagnostics — 7 Segment LED all units
- PlusOne™ Ignition System – DSI for reliability and longevity
- Heat exchanger is removable for improved serviceability. Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability.
- Low profile 34" cabinet ideal for space constrained installations
- Integrated Controls board features dip switches for easy system set up
- QR code for quick access to product information from your smart phone or tablet
- Constant Torque electrically commutated motor

Physical Data and Specifications

U.S. and Canadian Models

MODEL NUMBERS R801C (DF) SERIES	R801CA050314Z*A	R801CB075317Z*A	R801CA075521Z*A	R801CA100521Z*A	R801CA125524Z*A
Input in BTU's/Hr [kW]	50,000 [15]	75,000 [22]	75,000 [22]	100,000 [29]	125,000 [37]
Heating Capacity in BTU's/Hr [kW]	40,000 [12]	60,000 [18]	60,000 [18]	80,000 [23]	100,000 [29]
Heat Ext. Static Pressure in wc [kPa]	.10 [.025]	0.12 [0.029]	0.12 [0.029]	0.15 [0.037]	0.2 [0.05]
Blower (D x W) in inches [mm]	11 x 6[279 x 152]	11 x 7[279 x 178]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Motor H.P.-Speeds - Type [W]	1/2 hp [373] 5 Spd Constant Torque	1/2hp, 5spd, X-13 [373]	1hp, 5spd, X-13 [746]	1hp, 5spd, X-13 [746]	1hp, 5spd, X-13 [746]
Min. Circuit Ampacity	9	9	13	12	15
Min. Overload Protection	15	15	15	15	20
Max. Overload Protection	15	15	20	15	25
Heating Speed (factory setting)	MED-LOW	MED-HIGH	MED	MED-HIGH	MED-HIGH
Cooling Speed (factory setting)	HIGH	HIGH	HIGH	HIGH	HIGH
Cooling in CFM [L/s] @ 0.5 wc [0.12 kPa] E.S.P. (nominal)	1301[614]	1200 [566]	2000 [944]	2000 [944]	2000 [944]
Rated E.S.P. in wc [kPa]	0.5 [.12]	0.5 [0.12]	0.5 [0.12]	0.5 [0.12]	0.5 [0.12]
Temperature Rise Range in °F [°C]	25-55 [13.9-30.6]	35-65 [19.4-36.1]	25-55 [13.9-30.6]	30-60 [17-33]	35-65 [19.4-36.1]
Max Outlet Air in °F [°C]	155 [68.3]	190 [87.7]	165 [73.8]	190 [87.7]	185 [85.0]
Approx. Shipping Weight in Lbs. [kg]	85 [38.6]	105 [48]	120 [54]	120 [54]	140 [63]
AFUE - Electronic Ignition Modules	80%	80%	80%	80%	80%

NOTES: All models are 115V, 60HZ, 1Ø. Gas connection size for all models is 1/2" N.P.T.
① In accordance with D.O.E. test procedures.
② See Conversion Kit Index Form for high altitude derate in U.S. applications.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit, and thus is subject to a mitigation fee of up to $450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

This furnace is to be installed for propane firing only in air districts requiring 14 ng/J NOx emission limits. Operating in natural gas mode is in violation of these Rules.

[ ] Designates Metric Conversions