HDC
ADMINISTRATIVE APPROVALS

May 3rd, 2017

1. 39 Mount Vernon Street (hvac) - Approved
2. 133 Islington Street (skylight) - Approved
3. 459 Islington Street (fencing and lighting) - Approved
1. 39 Mount Vernon Street (hvac) - Approved
Application for Administrative Approval

Historic District Commission

Owner: Peter Carey
Address: 39 Mount Vernon Street
Portsmouth, NH 03801
Phone: 603-436-8811

Applicant (if different): Kirsten Blanchard
Address: 
(Street)
(City, State, Zip)
Phone: 

Signature: 

Building Permit #: 281

To permit the following: Install a 2.5 ton air conditioning condenser and cooling coil. Note that a vegetative screen is being proposed to remove the condensers from public view.

Action Taken by H.D.C.

Date: 5-3-17
Status: Recommend Approval

Stipulations:

Signature of Principal Planner:

If approved, please acknowledge below:

I hereby acknowledge that all changes or variation in the design as presented shall require further Historic District Commission approval.

Owner

Revised: 24 April, 2017
PROPOSED HVAC INSTALLATION – 39 MOUNT VERNON STREET

The applicants’ lot (Tax Map/Lot No. 111-0032-000), at .044 acres or 1,916.64 square feet, is the smallest one in the Mount Vernon Street neighborhood and one of the smallest in Portsmouth’s South End. (See attached tax maps.) The applicants propose to have Key Heating & Air Conditioning, Inc., install two outside condenser units in the southeast corner of their lot, between their cellar bulkhead and the boundary fence between their lot and the Hayes’ lot (Tax Map/Lot No. 111-0036-000). The attached site plan and photographs show the proposed location of the condensers. For both aesthetic and technical reasons, this is the only place on the applicants’ small lot where the condensers can be sited.

One of the condensers, which will cool the entire house except for the master bedroom, is a York Affinity CZF030. It is a 2.5-ton, 16 SEER, 30,000 BTU unit that is 30" high and will tuck into the space between bulkhead and fence. It is one of York’s highest-end, smallest, and quietest units. The sound power level, as measured at the unit, averages 69 dBA.

The applicants’ master bedroom in the rear, renovated barn part of the house is not heated. There is no ductwork to the upstairs room, and getting ductwork from cellar to second floor would be next to impossible. That is why the applicants need the second, totally separate ductless system—a Mitsubishi MSZ/MUZ-FH12 Hyper Heat single-zone heat pump system that will both heat and cool the upstairs master bedroom and bathroom. This high-end unit is very efficient (30.5 SEER) and puts out 12,000 BTU. The outside unit is about the size of a small suitcase, and its sound power level, as measured at the unit, is 49 to 51 dBA.

The applicants are applying to the Board of Adjustment (BOA) for two variances. Section 10.515.14 of the Portsmouth Zoning Ordinance requires that any mechanical systems (e.g., HVAC condensers, power generators) be set back at least ten feet from any property line. The applicants seek a variance from this requirement in order to site the condensers within inches of the rear boundary fence. The applicants are also seeking a variance from the sound pressure level requirements of section 10.1332.10 of the Zoning Ordinance. This ordinance limits sound in residential districts to 55 dBA during the daytime and 45 dBA at nighttime. Sound pressure level is measured at all major lot lines, at a height of four feet above ground level. Since the applicants are proposing to locate the condensers so close to their shared boundaries with their back and side yard neighbors (Hayes and Schulthesses), they cannot meet the ordinance’s requirement.

If the BOA grants the applicants the requested variances, then the applicants must apply to the Historic District Commission (HDC) for a certificate of approval. Section 10.633.20(9) of the Zoning Ordinance exempts from the HDC certificate of approval process "ground-mounted mechanical or electrical equipment ... where (1) the equipment is located behind the structure and is not in public view, and (2) all duct work or equipment feeds are located in the building’s interior or immediately adjacent to the equipment." The applicants can meet the second requirement, but not the first since the back of their house sits on the boundary line, and they cannot locate the equipment behind the house. Nick Cracknell’s advice was to put a row of boxwood bushes in front of the condensers so that they cannot
be seen from the street. With the boxwood block and BOA approval, Nick felt that the HDC would grant administrative approval of the application.

39 MOUNT VERNON STREET ABUTTERS

Richard S. Hayes II  
Jessica F. Hayes  
241 South Street  
Tax Map/Lot No. 0111-0036-0000

Eric A. Spear  
Jean Speer  
49 Mount Vernon Street  
Tax Map/Lot No. 0111-0031-0000

Michael Quigley  
Amy Quigley  
40 Mount Vernon Street  
Tax Map/Lot No. 0111-0028-0000

Drew Schulthess  
Brittany Schulthess  
15 Mount Vernon Street  
Tax Map/Lot No. 0111-0033-0000

All four abutters, located on all four sides of the applicants’ property, have expressed their support for this project in the attached emails.

VARIANCE CRITERIA

The requested variances are not contrary to the public interest, and they are consistent with the spirit of the ordinance. The proposed installation of air conditioning and heat pump equipment does not conflict with the explicit or implicit purposes of the ordinance and does not alter the essential residential character of the neighborhood, threaten public health, safety, or welfare, or otherwise injure “public rights.”

Granting the requested variances would do substantial justice. The proposed air conditioning and heat pump installation benefits the applicants while doing no harm whatsoever to the general public or to other individuals.

Granting the requested variances will not diminish the values of surrounding properties.

Literal enforcement of the ordinance would result in unnecessary hardship to the applicants. The applicants’ property is burdened by the zoning restrictions in a manner that is distinct from other similarly situated property. The applicants’ lot, at .044 acres or
1,916.64 square feet, is the smallest one in the Mount Vernon Street neighborhood and one of the smallest in Portsmouth’s South End. Nearly everything about the lot and house, the only structure on the lot, is nonconforming. Located in a General Residence B zone, the property does not meet minimum lot area, minimum front, side, or rear yard dimensions, or street frontage requirements. All sides of the structure lie with street or boundary setback areas.

Because of the special conditions of the property, the ordinance’s restrictions, as applied to the property, do not serve the restrictions’ purposes in a “fair and substantial” way. In particular, the proposed installation of air conditioning and heat pump equipment is (1) Consistent with the restrictions’ residential purpose, (2) does not add significantly to intensity of land use, (3) does not significantly affect yard or open space in that the equipment pads take up less than 12 square feet of yard space, (4) does not significantly impact neighboring properties in terms of noise and vibration, (5) preserves the visual environment, (6) has minimal impact on the historic (circa 1885) structure, and (7) does no environmental harm.

The special conditions of the applicants’ property are such that the proposed installation of air conditioning and heat pump equipment is reasonable and does not alter the essential residential character of the neighborhood. The size and configuration of the applicants’ lot leave few options for siting the equipment. Locating the equipment anywhere in the three-foot-wide strip of land on the west side of the applicants’ house (the side facing the Speers’ lot) poses both technical and aesthetic problems. The equipment and their pads will not fit in this narrow area, they cannot be located near the gas meters on that side of the house, and they would be much more visible from the street. On the east side of the house, pocket gardens line both sides of the driveway and patio toward the rear of the house.

Consideration was given to locating the equipment on the deck between front and rear sections of the house. While the mahogany deck is five feet wide, 13’6” long, and could accommodate the condensers, the equipment would take up already limited outdoor living space and significantly detract from the aesthetic appeal of this historic house. On the deck, elevated 16 to 18 inches above the ground/patio level, the condensers would be much more visible and difficult to conceal, even behind the pocket garden vegetation. The proposed location of the equipment at the very rear of the lot is farthest removed from the street as well as the closest neighbors’ (the Schultheses’) house. Blocked by cellar bulkhead and potted boxwood plants, the condensers would be completely hidden from both street and neighbors’ views.
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Jean Speer
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Michael Quigley
Amy Quigley
40 Mount Vernon Street
Tax Map/Lot No. 0111-0028-0000

Drew Schultheiss
Brittany Schultheiss
15 Mount Vernon Street
Tax Map/Lot No. 0111-0033-0000
I personally prefer the KYX9000 (just kidding, I made that up). Brittany and I approve.

drew

Drew Schulthess
Strategy Director & Owner

catchfire
catchfirecreative.com
603.373.8971
@catchfirecreate

On Fri, Mar 17, 2017 at 9:41 AM, Ric Hayes <richayes1@gmail.com> wrote:
You have our approval.

Regards,

Ric Hayes
241 South Street
6035022402

Sent from my iPhone

On Mar 17, 2017, at 9:02 AM, afjag@aol.com wrote:

Hi, guys!

Thanks so much for getting back to MJ and me on our proposed HVAC project. We're hoping to have Key HVAC install two outside condenser units between our bulkhead and the boundary fence between the Hayes' property and ours. I've attached three photographs and a site plan that show the proposed location. Unfortunately, it's the only place on our tiny lot where Key can put the condensers.

One of the condensers, which will cool all of the house except for the master bedroom, is a York Affinity CZF030. It's a 2.5 ton, 16 SEER, 30,000 BTU unit that's 30" high and will tuck into the space between bulkhead and fence. It's one of York's smallest and quietest units. The sound power level, as measured at the unit, averages 69 dBA.

Our master bedroom in the renovated barn part of the house is not heated. There's no ductwork to
the room, and getting ductwork from cellar to second floor would be next to impossible. So, that’s why we need to go with the second, totally separate ductless system. It’s a Mitsubishi MSZ/MUZ-FH12 Hyper Heat single-zone heat pump system. The unit’s very efficient (30.5 SEER) and puts out 12,000 BTU. The outside unit is about the size of a small suitcase, and its sound power level, again as measured at the unit, is 49 to 51 dBA.

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Nick Cracknell, the City’s principal planner, tells us that abutters’ support for our BOA application is critical. If the BOA grants us variances, then the next step in the process is the Historic District Commission. Section 10.633.20(9) of the Zoning Ordinance exempts from the HDC certificate of approval process “ground-mounted mechanical or electrical equipment … where (1) the equipment is located behind the structure and is not in public view, and (2) all duct work or equipment feeds are located in the building’s interior or immediately adjacent to the equipment.” We can meet the second requirement, but not the first since the back of our house sits on the boundary line, and we can’t locate the equipment behind the house. Nick’s advice was that we put a row of boxwood bushes in front of the condensers so that they can’t be seen from the street. With the boxwood block and BOA approval, Nick felt that the HDC would grant administrative approval of our application.

So, if all this looks and sounds OK to you and your spouses, MJ and I would sure appreciate it if you would email us back your vote of support. Then, if it’s OK with you, we’ll share your endorsement with both BOA and HDC. In the meantime, if you have any questions or concerns, or want to wander over to our place and check things out, please just give us a holler. My cell number is 236-1494, and MJ’s is 817-8876.

Many thanks for all your help!

Pete and MJ

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<Photo 3.jpg>
<Site Plan - Tax Map:Lot 111-032-000.pdf>
<Tax Map.jpg>
<York Affinity CZF-CZH Brochure.pdf>
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Pete,

I completely support this project.

Eric

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Heating and Air Conditioning

TECHNICAL GUIDE

AFFINITY™ SERIES
SPLIT SYSTEM AIR CONDITIONERS
16 SEER – R-410A – 1 PHASE
2 THRU 5 NOMINAL TONS
MODELS: CZF024 THRU 060

DESCRIPTION
The 16 SEER Series unit is the outdoor part of a versatile climate system. It is designed with a matching indoor coil component from Johnson Controls Unitary Products. Available for typical applications, this climate system is supported with accessories and documents to serve specific functions.

FEATURES
- Superior Coil Protection - A stamped, decorative metal coil guard protects the microchannel coil from debris and other damaging material.
- Protected Compressor - The compressor is safeguarded against abnormal pressures and temperatures by an internal pressure relief valve, an internal temperature sensor, and factory high and low pressure system controls. A factory installed liquid line filter-drier further protects the compressor against moisture and debris.
- Environmentally Friendly Refrigerant - The next generation refrigerant R-410A delivers environmentally friendly performance with zero ozone depletion.
- Durable Finish - An automotive quality finish provides the ultimate protection from harmful UV rays and rust creep, ensuring a long-lasting, high quality appearance. A powder-paint topcoat is applied over a baked-on primer using a galvanized, zinc coated steel base material. The result is a finish that has been proven in testing to provide 33% greater durability than conventional powder-coat finishes.
- QuietDrive™ System - Features combination of swept-wing fan, composite base pan, isolated compressor compartment, and single-stage compressor to reduce overall sound to a mere whisper.
- Low RPM Fan Motor - Helps to reduce airflow noise.
- Swept Wing Fan - A fan design boasting technology adapted from aeronautical and defense engineering provides for whisper-quiet operation by allowing air to flow smoothly and efficiently across the fan tips.
- Composite Base Pan - The strong and durable composite base pan provides added strength while resisting rust and corrosion, as well as reducing sound and vibration.
- Isolated Compressor Compartment - A molded composite bulkhead isolates the refrigeration components and the compressor from the rest of the unit, reducing sound and vibration.
- Lower Installed Cost - Designed to provide enhanced installability by featuring a slide-down control compartment that allows easy access to control components, along with angled service valves to reduce overall installation time and cost. Factory charged for a 15 foot lineset.
- Factory Installed Filter-Drier - A factory installed, solid core liquid line filter-drier removes harmful debris and moisture from the system.
- Easy Service Access - A full end, full service access panel with handle makes for easy entry to internal components.
- Communications Capable - Requiring only a simple 4-wire installation, the communicating capability enables the use of the Touch Screen Communicating Control, allowing real time visibility of system operation and the use of diagnostic features, while still maintaining the ability to function with a traditional thermostat.
- Premium System Warranty* - Limited lifetime compressor warranty when registered online within 90 days of installation.
- Agency Listed - Safety certified by CSA to UL 1995 / CSA 22.2. Performance certified to AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.

WARRANTY SUMMARY*
Extended 10-Years limited parts warranty.
Extended Lifetime limited compressor warranty.
Extended parts and compressor warranties require online registration within 90 days of purchase for replacement or closing for new home construction.
*Does not apply to R-22 models, 3-Phase models, or internet sales. See Limited Warranty certificate in User's Information Manual for details.
### Physical and Electrical Data

<table>
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<tr>
<th>MODEL</th>
<th>CZF02413(C)</th>
<th>CZF03013(C)</th>
<th>CZF03613(C)</th>
<th>CZF04213(C)</th>
<th>CZF04814(C)</th>
<th>CZF06013(C)</th>
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</tr>
<tr>
<td>Fan Motor Amps</td>
<td>Rated Load</td>
<td>0.5</td>
<td>0.5</td>
<td>1.3</td>
<td>1.3</td>
<td>1.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.8</td>
</tr>
<tr>
<td>Fan Diameter Inches</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Fan Motor</td>
<td>Rated HP</td>
<td>1/15</td>
<td>1/15</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
</tr>
<tr>
<td></td>
<td>Nominal RPM</td>
<td>850</td>
<td>850</td>
<td>850</td>
<td>850</td>
<td>915</td>
</tr>
<tr>
<td></td>
<td>Nominal CFM</td>
<td>2020</td>
<td>2045</td>
<td>3240</td>
<td>3300</td>
<td>3800</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3900</td>
</tr>
<tr>
<td>Coil</td>
<td>Face Area Sq. Ft.</td>
<td>14.1</td>
<td>14.0</td>
<td>16.1</td>
<td>19.3</td>
<td>22.8</td>
</tr>
<tr>
<td></td>
<td>Rows Deep</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Fins / Inch</td>
<td>23</td>
<td>23</td>
<td>23</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>Vapor Line Set OD (Field Installed)</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
</tr>
<tr>
<td>Unit Charge (Lbs. - Oz.)</td>
<td>3 - 12</td>
<td>4 - 6</td>
<td>5 - 0</td>
<td>6 - 4</td>
<td>7 - 5</td>
<td>6 - 14</td>
</tr>
<tr>
<td>Charge Per Foot, Oz.</td>
<td>0.62</td>
<td>0.62</td>
<td>0.62</td>
<td>0.67</td>
<td>0.67</td>
<td>0.75</td>
</tr>
<tr>
<td>Operating Weight Lbs.</td>
<td>159</td>
<td>166</td>
<td>192</td>
<td>209</td>
<td>250</td>
<td>235</td>
</tr>
</tbody>
</table>

1. Rated in accordance with AHRI Standard 110-2012, utilization range "A".
2. Dual element fuses or HACR circuit breaker: Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker: Minimum recommended overcurrent protection.
5. The Unit Charge is correct for the outdoor unit, smallest matched indoor unit, and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.

---

### Unit Model Dimensions (Inches)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Liquid</th>
<th>Vapor</th>
</tr>
</thead>
<tbody>
<tr>
<td>024</td>
<td>30</td>
<td>37</td>
<td>31</td>
<td>3/8</td>
<td></td>
</tr>
<tr>
<td>030</td>
<td>30</td>
<td>37</td>
<td>31</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>036</td>
<td>34</td>
<td>37</td>
<td>31</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>042</td>
<td>40</td>
<td>37</td>
<td>31</td>
<td>7/8</td>
<td></td>
</tr>
<tr>
<td>048</td>
<td>40</td>
<td>42-1/4</td>
<td>34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>060</td>
<td>40</td>
<td>42-1/4</td>
<td>34</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Adaptor fitting required for 1-1/8” line set.

All dimensions are in inches and are subject to change without notice.
Overall height is from bottom of basepan to top of fan guard.
Overall length and width include screw heads.
ACCESSORIES

Start Assist Kit (S1-2SA067) - Provides increased starting torque for areas with low voltage. See Hard Start Kit Accessory Installation Manual for Hard Start Kit part number for each model.

TXV Kits - S1-1TVM series thermal expansion valves precisely meter refrigerant for optimum performance over a wide range of conditions. See System Charge table for TXV part number for each model.

Low Ambient Pressure Switch Kit (S1-2LA06700424) - Allows use of air conditioning at low outdoor ambient temperatures. For use with models containing R-410A refrigerant only.

Dehumidistat (S1-2HU16700124) - Provides increased dehumidification when matched with variable speed furnace or air handler.

Thermostats - Compatible thermostat controls are available through accessory sourcing. For optimum performance, these outdoor units are fully compatible with the Residential Touchscreen Communicating Control S1-TTSCC01.

SOUND POWER LEVEL - TYPICAL OCTAVE BAND SPECTRUM ((db re. 1-pW))

<table>
<thead>
<tr>
<th>Model Number</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>8000</th>
<th>dBA</th>
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</thead>
<tbody>
<tr>
<td>024</td>
<td>72</td>
<td>75</td>
<td>66</td>
<td>66</td>
<td>61</td>
<td>54</td>
<td>47</td>
<td>40</td>
<td>67</td>
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<tr>
<td>030</td>
<td>70</td>
<td>77</td>
<td>67</td>
<td>69</td>
<td>66</td>
<td>58</td>
<td>51</td>
<td>47</td>
<td>70</td>
</tr>
<tr>
<td>036</td>
<td>74</td>
<td>73</td>
<td>70</td>
<td>71</td>
<td>69</td>
<td>63</td>
<td>57</td>
<td>51</td>
<td>73</td>
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<tr>
<td>042</td>
<td>78</td>
<td>72</td>
<td>69</td>
<td>70</td>
<td>67</td>
<td>61</td>
<td>55</td>
<td>48</td>
<td>71</td>
</tr>
<tr>
<td>048</td>
<td>72</td>
<td>69</td>
<td>69</td>
<td>70</td>
<td>67</td>
<td>62</td>
<td>57</td>
<td>50</td>
<td>71</td>
</tr>
<tr>
<td>060</td>
<td>76</td>
<td>73</td>
<td>74</td>
<td>70</td>
<td>70</td>
<td>62</td>
<td>58</td>
<td>55</td>
<td>74</td>
</tr>
</tbody>
</table>

Rated in accordance with ARI Standard 270.

TYPICAL INSTALLATION

NOTES:
ALL OUTDOOR WIRING MUST BE WEATHERPROOF
MINIMUM 24" UNIT TO UNIT CLEARANCE
Product Overview
Heat pumps are now a realistic option for any home, in any climate. The new MSZ-FH family of Hyper-Heating INVERTER residential systems offer year-round, high-efficiency cooling and heating for a variety of rooms, including bedrooms, basements, sunrooms and more. The slim, wall-mounted indoor units provide zone comfort control while the INVERTER-driven compressor and electric LEVs offer higher efficiency with controlled power usage.

- Industry-leading efficiency of 30.5 SEER (MSZ-FH09NA).
- Hyper-Heating performance down to -13° F outdoor ambient.
- 100% heating capacity at 5° F outdoor ambient.
- Triple-action filtration.
  - Nano-platinum filter.
  - Electrostatic anti-allergen enzyme filter.
  - Deodorizing filter.
- Double-vane air delivery for enhanced circulation.
  - Option to set each vane separately.
  - Indirect or direct setting option.
  - Natural flow setting that creates air movement like a natural breeze.
- i-see Sensor™ 3D.
  - Infrared human sensing technologies to measure location of human heat signatures.
  - i-see sensing floor temperature to deliver conditioned air to those areas by double-vane airflow.
- NEW multi-function wireless controller.
- Optional controllers.
  - MHK1 wireless wall-mounted controller (compatible with Honeywell Remote Internet Gateway for iPhone, Android, smart device control via the internet).
  - Wired wall-mounted controller (PAR-31MAA requires MAC-333IF).
  - Simple MA remote controller (PAC-YT53CRAU requires MAC-333IF).
<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Rating</th>
<th>Efficiency</th>
<th>Energy Efficiency</th>
<th>Moisture Removal</th>
<th>Sensible Heat Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td>Rated Capacity</td>
<td>9,000</td>
<td>12,000</td>
<td>15,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Capacity Range</td>
<td>2,000 - 3,000</td>
<td>3,000 - 4,000</td>
<td>5,000 - 6,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated Total Input</td>
<td>560</td>
<td>870</td>
<td>1,200</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Energy Efficiency</td>
<td>SEER</td>
<td>30.5</td>
<td>26.1</td>
<td>22.0</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Moisture Removal</td>
<td>Pints/h</td>
<td>0.6</td>
<td>1.9</td>
<td>4.0</td>
<td></td>
<td></td>
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<tr>
<td><strong>Heating at 47°F</strong></td>
<td>Rated Capacity</td>
<td>10,900</td>
<td>15,600</td>
<td>18,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Capacity Range</td>
<td>1,600 - 2,000</td>
<td>3,700 - 4,000</td>
<td>5,150 - 6,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated Total Input</td>
<td>710</td>
<td>960</td>
<td>1,300</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>HSPF (IM)</td>
<td>13.5</td>
<td>12.5</td>
<td>12.0</td>
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<td></td>
<td></td>
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<tr>
<td><strong>Heating at 17°F</strong></td>
<td>Rated Capacity</td>
<td>8,700</td>
<td>6,000</td>
<td>11,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated Total Input</td>
<td>600</td>
<td>720</td>
<td>1,020</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Capacity</td>
<td>12,900</td>
<td>13,600</td>
<td>16,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Heating at 5°F</strong></td>
<td>Maximum Capacity</td>
<td>10,300</td>
<td>13,600</td>
<td>16,000</td>
<td></td>
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<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Phase, Cycle, Voltage</th>
<th>Indoor - Outdoor S1 - S2</th>
<th>Indoor - Outdoor S2 - S3</th>
<th>Indoor - Remote Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCA</td>
<td>A</td>
<td>Wireless Type (Optional Wired Controller: DC12V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blower Motor (ECM)</td>
<td>F.L.A.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Super Hi-Powerful</td>
<td>199-235-317-394-497</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Super Hi-Powerful</td>
<td>160-212-275-358-444</td>
<td></td>
<td></td>
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<tr>
<td>Sound Pressure Level at Cooling (Lo-Med-Hi-Super Hi-Powerful)</td>
<td>63(dB(A)</td>
<td>20-24-29-36-42</td>
<td>21-24-29-36-42</td>
<td>27-31-35-39-44</td>
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<table>
<thead>
<tr>
<th>Remote Controller</th>
<th>Type</th>
<th>Select from MRA (Recommended), PAR-31MAA, or PAC-YTSOIPA0 Remote Controllers</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCA</td>
<td>A</td>
<td>11</td>
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<tr>
<td>MOCP</td>
<td>A</td>
<td>15</td>
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<tr>
<td>Fan Motor (ECM)</td>
<td>F.L.A.</td>
<td>0.50</td>
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<tr>
<td>Compressor</td>
<td>Model (Type)</td>
<td>DC INVERTER-Driven Twin Rotary</td>
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<tr>
<td></td>
<td>R.L.A.</td>
<td>8.2</td>
</tr>
<tr>
<td></td>
<td>L.R.A.</td>
<td>10.3</td>
</tr>
<tr>
<td></td>
<td>Airflow (Cooling)</td>
<td>CFM</td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>1,190/1,320</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Outdoor Unit</th>
<th>Detent Method</th>
<th>Linear Expansion Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Pressure Level at Cooling</td>
<td>48</td>
<td>49</td>
</tr>
<tr>
<td>Sound Pressure Level at Heating</td>
<td>48</td>
<td>51</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Type</th>
<th>R410A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge</td>
<td>Lbs., Oz.</td>
<td>2, 9</td>
</tr>
<tr>
<td>Oil</td>
<td>5, 7</td>
<td></td>
</tr>
<tr>
<td>Gas Side C.O.D.</td>
<td>3/8</td>
<td></td>
</tr>
<tr>
<td>Liquid Side C.O.D.</td>
<td>1/4</td>
<td></td>
</tr>
<tr>
<td>Refrigerant Pipe Length</td>
<td>FL</td>
<td>40</td>
</tr>
<tr>
<td>Length (Max.)</td>
<td>FL</td>
<td>65</td>
</tr>
<tr>
<td>Connection Method</td>
<td>Flanged/Flared</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:** Test conditions are based on AHRB 210/240.

4. Indoor units receive power from outdoor units through field-supplied interconnected wiring.

Specifications are subject to change without notice.

LIMITED WARRANTY: 12-year warranty on compressor, 3-year warranty on parts.
2. 133 Islington Street (skylight) - Approved
Application for Administrative Approval

Historic District Commission

Owner: P. Jackson and L. Letizio
Address: 133 Islington Street, Unit #9
          Portsmouth, NH 03801
Phone: 813-613-5033

Applicant (if different):

Address:  

Phone:  

Signature: ________________________________

Location of Structure: Map 138, Lot 15
Street Address: 133 Islington Street, Unit #9

To permit the following: Install a skylight in northeast section of the rear building

<table>
<thead>
<tr>
<th>Action Taken by H.D.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
</tr>
<tr>
<td>As Per Plan:</td>
</tr>
<tr>
<td>Stipulations:</td>
</tr>
<tr>
<td>Signature of Principal Planner:</td>
</tr>
</tbody>
</table>

If approved, please acknowledge below:

I hereby acknowledge that all changes or variation in the design as presented shall require further Historic District Commission approval.

Owner

Revised: 24 April, 2017
4/13/17

Re: Application for Skylight approval at 133 Islington street, Unit #9.

Attn: Liz Good
Planning Department
City of Portsmouth
1 Junkins Ave
Portsmouth, NH 03801

Please find our materials for this application in the enclosed package.

This letter will serve as the introduction and mitigating narrative for the application for this proposed skylight in our condominium unit.

Lisa and I live in a Historic District in the City of Tampa and are very familiar and sensitive to with working with the Historic District Commission down here, and have done so with great success on many projects. I knew that our first stop on this project was at the Historic District Commission.

Our building, also known as Captain Andrew Hussey House, has mostly 3 living levels with windows or dormers on each level allowing the users/owners the most efficient use of their 3rd level space. For whatever reason at the time of development there were 2 units that never had dormers built into their 3rd floor level, and unit #9 was one of them. Our unit faces North and the other unit faces South. Our 3rd level is a single room of almost 500 sq ft. Without a window it is a dark featureless room in a very bright home. Basically it can only be used for storage, whereas if we can brighten it and ventilate it, the room can become a living space.

Our goals are to bring natural light and ventilation into the 3rd level, while remaining low-profile and hugging the plane of the roof. The most efficient way to achieve this would be with a skylight. We have applied for and received approval from the Home Owners Association to proceed with this application and the work. I have retained architects to take care of the design the engineering aspects of the project and assist with the permitting documentation of the project as well.
Being in the Historic District we have provided photographs with our application as well as an aerial photo to depict the position of the proposed skylight from the roof perimeter. In this package you will find:

Elevation drawings - East and North.
Photos, annotated
Aerial photo, annotated
Letter from HOA
Brochure from Skylight manufacturer, VELUX, USA.
Technical drawing detail from VELUX, USA
Filing fee of $100.00

Thank you.

Paul Jackson
General Contractor/President
Jackson General Contracting, Inc.
CGC-1522445
4803 N Grady Ave.
Tampa, FL 33614
813-613-5033
paul@jacksongc.com

Lisa Letizio
Letiziol@me.com
727-460-2315
To Whom It May Concern:

Please be advised that Paul Jackson and Lisa Letizio, owners of Unit 9 of the Captain Andrew Hussey House Association, requested the association’s approval to install a skylight on the third floor of Unit 9.

After due consideration, the association approved Paul Jackson’s and Lisa Letizio’s request to install a skylight in Unit 9.

Sincerely,

Christopher J. Fischer
HOA President
Historic District Commission, Skylight evaluation photographs for 133 Islington Street, City of Portsmouth, NH.

Supporting photographic material.

Photograph 1 – Directly across from entry at 133 Islington street.

This photo taken from directly across the street shows how the position of the proposed skylight would not ever be visible from Islington street in the immediate vicinity of the entrance to 133 Islington Street.
Photograph 2 – slightly South from photograph 1, also directly across the street from 133 Islington street.

Photograph 3 – further South, shows still less possibility to see any skylight on the North side of the condo roof.
Photograph 4 – This taken from further Northwards along Islington street, facing west.

It is only when one travels more than 200 feet towards the town center and then turns to look back that one can see between the rear of the roof of the building on the W corner of Rock St and Islington street, and the front edge of the parapet of Davies Tire store, the portion of roof that is the position of the proposed skylight at unit 9 of 133 Islington Street. This is illustrated in the photo below.
Photograph 5 – Taken from the rear vehicle lot of Davies Tire store.

From this position one gets the clearest view of a potential skylight when looking between the 2 buildings on Rock Street. The North-facing roof of the rear Condo building of 133 Islington Street is clearly in view if you step back enough into this vehicle lot at the rear of the Davies Tire store. From this position, the proposed skylight will clearly be visible by people at ground level.
# Deck mounted skylight size chart

(Rough openiings)

<table>
<thead>
<tr>
<th>Inch (mm)</th>
<th>14 1/2</th>
<th>21</th>
<th>22 1/2</th>
<th>30 1/16</th>
<th>44 1/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 1/2</td>
<td>FS</td>
<td>D26</td>
<td>FS.VS. VSE.VSS</td>
<td>FS.VS. VSE.VSS</td>
<td></td>
</tr>
<tr>
<td>26 7/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>S01</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33 7/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 3/4</td>
<td>FS</td>
<td>FS</td>
<td>FS.VS. VSE.VSS</td>
<td>FS.VS. VSE.VSS</td>
<td></td>
</tr>
<tr>
<td>54 7/16</td>
<td>FS</td>
<td>FS</td>
<td>FS.VS. VSE.VSS</td>
<td>FS.VS. VSE.VSS</td>
<td></td>
</tr>
<tr>
<td>70 1/4</td>
<td></td>
<td></td>
<td>FS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Choosing the right glass for your skylight

### For out of reach applications

**Clean, Quiet & Safe glass (xx04)**

Recommended

Standard on: VSS, VSE

Available on: VS, FS

Clean, Quiet & Safe glass also available in the following options:

- **Impact (xx06)**
  - Available on: VSS, VSE, VS, FS

- **Snowload (xx10)**
  - Available on: VSS, VSE, FS

**Clean**

Features Neat™ glass coating to keep your skylight cleaner longer, leaving skylights virtually spotless.

**Quiet**

Reduce unwanted outside noise by up to 25% compared to a standard double pane glass, and up to 50% compared to a plastic skylight.

**Safe**

VELUX recommends and building codes require laminated glass for out of reach applications.

### For in reach applications

**Dual pane tempered glass (xx05)**

Available on: FS, VS, QPF

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**VELUX America LLC**

450 Old Brickyard Road • PO Box 5001 • Greenwood, SC 29648-5001

Tel 1-800-888-3589 • Fax 1-864-943-2631 • veluxusa.com
Manual "Fresh Air" skylight—Model VS
- Optional factory installed in-stock blinds available
- Features pre-finished white wood frame and protective aluminum or copper cladding.
- Smooth-turning handle available for when the skylight is installed within reach.

Fixed skylight—Model FS
- Optional factory installed in-stock blinds available
- Features pre-finished white wood frame and protective aluminum or copper cladding.
- Streamlined exterior profile does not obstruct your roofline.

Factory installed in-stock blinds
If one of the in-stock blinds below are ordered with your skylights, VELUX will factory install your blind for you, or you may select one of our special order blinds. Please visit veluxusa.com to see a listing of special order blinds.

Note: Special order blinds are not pre-installed with your skylight order and require a two-week lead time.

In-stock room darkening - double pleated blinds
(Solar powered/manual)

<table>
<thead>
<tr>
<th>Basics</th>
<th>Authentics</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS00 White</td>
<td>CS43 Grey</td>
</tr>
<tr>
<td>CH00 Beige</td>
<td>CH43 Grey</td>
</tr>
<tr>
<td>CS01 Beige</td>
<td>CS42 Green</td>
</tr>
<tr>
<td>CH01 Beige</td>
<td>CH42 Green</td>
</tr>
<tr>
<td>CS41 Charcoal</td>
<td>CS43 Grey</td>
</tr>
<tr>
<td>CH41 Charcoal</td>
<td>CH43 Grey</td>
</tr>
</tbody>
</table>

In-stock light filtering - single pleated blinds
(Solar powered/manual)

<table>
<thead>
<tr>
<th>Lights</th>
<th>Naturals</th>
<th>Shadows</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS00 White</td>
<td>FS01 Classic sand</td>
<td>FS33 Shiny cappuccino</td>
</tr>
<tr>
<td>FH00 Classic sand</td>
<td>FS31 Misty brown</td>
<td>FS32 Lovely latte</td>
</tr>
<tr>
<td>FS32 Lovely latte</td>
<td>FS33 Shiny cappuccino</td>
<td></td>
</tr>
</tbody>
</table>

In-stock venetian blind (FS and VS only)
(Manual)
- Barn
- PA00 White

FS VS VSE VSS
- Manual room darkening (CH)
- Manual light filtering (FH)
- Solar room darkening (CS)
- Solar light filtering (FS)
- Manual venetian (PA)

Note: On the VS skylight, removal of the insect screen is required to operate or adjust the venetian blind. Blinds not available for FS size C12. Solar blinds not available for FS size A06.

Federal tax credit on solar powered blinds* 30% Available in room darkening - double pleated blinds.
Manual blinds, light filtering - single pleated blinds.
Solar light filtering blinds.
3. 459 Islington Street (fencing and lighting) - Approved
Greetings Nick,

attached you'll find the information you requested for the proposed outdoor space at 459 Islington. The lighting and fencing are both available through home depot and I've included links to supplement the photos should you need them. If you'd like hard copies of anything provided we'll gladly get them over to you and if there is anything additional information you require let us know. One note to make on the map-geo diagram, the low fencing will measure 4 ft. tall.

Thank you for your time,

Dagan Migirditch
Co-Founder & General Manager
Liars Bench Beer Co.

Fencing

Lighting