

## Questions for IT 26-024 Hand Village Heat Pump Replacement

1. How many of the units are 2.5-ton and how many are 3-ton units?

Answer: 2.5 ton units=21  
3 ton units=7

2. It is unclear unless you have worked in the buildings before. I believe the units on the 3<sup>rd</sup> floor are 3 ton, but the unit numbers don't indicate which floor they are on. Thanks in advance.

Answer: See answer #1 for numbers/sizes of units. APSU to give winning contractor locations/room numbers for unit.

3. Can you clarify the number of units?

Answer: 28

4. Per Schedule the Specified Equipment is Rheem/Ruud and R-32 Refrigerant. I am not a Rheem Dealer and the Cost would be roughly 20-25% more than my Primary Brand Tempstar. Is there any leeway there? I have personally done several jobs very similar to this one with Tempstar Equipment with great results. The Tempstar Equipment does use R-454B which is the the most common and universally used of the new E.P.A mandated Refrigerants. Will they accept a Comparable Tempstar System with R-454B Refrigerant?

Answer: No leeway on units. Must be Rheem or Ruud.

5. Per Schedule Pro-Press fittings are not to be used; Brazed Connections only. I find this to be an Unsafe and Contradictory to current Manufacture and Industry Standards Instructions and Standards with A2L Refrigerant Systems. All New E.P.A Compliant A2L Refrigerant Systems are manufactured with Press Stub Fittings due to A2L Refrigerants Classification and Flammability. Open Flame Brazing is very much discouraged for the safety. Also Brazing in multi-family usually requires Hot Work Permits and 1 Hour Fire watches that result in additional time and labor cost. Are Burn/Hotwork Permits and 1 Hour Firewatch required? And for these reasons will you reconsider Pro-Press Connections?

Answer: No pro press connections on this job. All connections to be brazed. Contractor to follow all safety protocols as called for.

6. Per Schedule there are 2.5 Ton and 3 Ton Systems. However there is not an accurate count for number of each. Are they able to provide and accurate count of how many of each? Or are they ok with me Quoting all 3 Ton Systems. Based on closeness in Tonnage, Airflow Requirements, Duct Sizing, Ect. I see no reason to not install 3 Ton Units for all 28 Systems listed on Schedule.

Answer: See answer #1. Please bid per specs on units.

7. Per Schedule all New Units are to be Single Phase Power. During Site Visit yesterday I was made aware that some units are still Three Phase power. Would the accept wire nut capping the third leg of power in Disconnects; or will they want Breakers, Disconnects, Ect, changed for Single Phase Systems? The schedule says nothing about phase change improvements or disconnect replacement; only Breakers and wires for proper Ampacity. This would result in significant increase of cost on project and would need to be performed by Licensed Electrician.

Answer: Contractor to swap out new breaker and disconnects all on new installs to convert to single phase. Units shall be 208/230 single phase units. Also add appropriate breaker filler in panel.

8. During Site visit there were concerns of getting Air Handlers in and out of some closets due to Water Heater Location. If water heater has to be removed what will that process be? Will a Maintenance Plumber be provided to assist or will we need to have our own on standby? If we are awarded the Project can we perform a Site visit to each Airhandler in order to know how many will need to be moved and provide an additional bid if that responsibility falls on us.

Answer: If water heater needs to be moved, APSU will handle this removal and re-install. APSU is not expecting this to be a high number. We have not had to remove on yet on any install of new units. Contractor to contact APSU rep for any units needing moved.

9. Are the heat pumps going on the roofs? Yes

10. Size of units: Units are standard sizes and will set on roof curbs.

11. Address of building: West Ave 241.

12. Roof material. EPDM.