Carrier 40aq036 manual

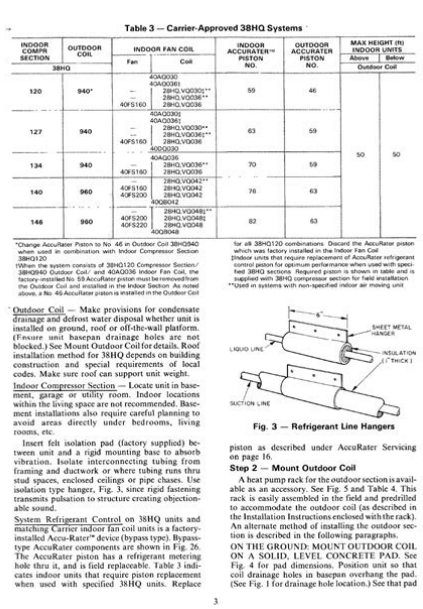

Table 3 — Carrier-Approved 38HQ Systems

INDOOR COMPR. SECTION	OUTDOOR COIL	INDOOR FAN COIL		INDOOR ACCURATER™ PISTON NO.	OUTDOOR ACCURATER PISTON NO.	MAX HEIGHT (ft) INDOOR UNITS	
		Fan	Coil			Above	Below
38HQ						Outdoor Coil	
120	940*	—	40A0030 40A0036 28HQ,VQ030** 28HQ,VQ036** 28HQ,VQ036	59	46	50	50
		40FS160					
127	940	—	40A0030 40A0036 28HQ,VQ030** 28HQ,VQ036** 28HQ,VQ036	63	59		
		40FS160					
134	940	40FS160	40A0030 40A0036 28HQ,VQ036** 28HQ,VQ036	70	59		
140	960	40FS160 40FS200	28HQ,VQ042** 28HQ,VQ042 28HQ,VQ042	76	63		
146	960	40FS200 40FS220	40B0042 28HQ,VQ048‡‡ 28HQ,VQ048‡ 28HQ,VQ048 40RKH8	82	63		

*Change AccuRater Piston to No. 46 in Outdoor Coil 38HQ940 when used in combination with Indoor Compressor Section 38HQ120.

†When the system consists of 38HQ120 Compressor Section/ 38HQ940 Outdoor Coil/ and 40AQ036 Indoor Fan Coil, the factory-installed No. 59 AccuRater piston must be removed from the Outdoor Coil and installed in the Indoor Section. As noted above, a No. 46 AccuRater piston is installed in the Outdoor Coil for all 38HQ120 combinations. Discard the AccuRater piston which was factory installed in the Indoor Fan Coil. ‡Indoor units that require replacement of AccuRater refrigerant control piston for optimum performance when used with specified 38HQ sections. Required piston is shown in table and is supplied with 38HQ compressor section for field installation. **Used in systems with non-specified indoor air moving unit.

Outdoor Coil — Make provisions for condensate drainage and defrost water disposal whether unit is installed on ground, roof or off-the-wall platform. (Ensure unit basepan drainage holes are not blocked.) See Mount Outdoor Coil for details. Roof installation method for 38HQ depends on building construction and special requirements of local codes. Make sure roof can support unit weight.

Indoor Compressor Section — Locate unit in basement, garage or utility room. Indoor locations within the living space are not recommended. Basement installations also require careful planning to avoid areas directly under bedrooms, living rooms, etc.

Insert felt isolation pad (factory supplied) between unit and a rigid mounting base to absorb vibration. Isolate interconnecting tubing from framing and ductwork or where tubing runs thru stud spaces, enclosed ceilings or pipe chases. Use isolation type hanger, Fig. 3, since rigid fastening transmits pulsation to structure creating objectionable sound.

System Refrigerant Control on 38HQ units and matching Carrier indoor fan coil units is a factory-installed Accu-Rater™ device (bypass type). Bypass-type AccuRater components are shown in Fig. 26. The AccuRater piston has a refrigerant metering hole thru it, and is field replaceable. Table 3 indicates indoor units that require piston replacement when used with specified 38HQ units. Replace

Fig. 3 — Refrigerant Line Hangers

piston as described under AccuRater Servicing on page 16.

Step 2 — Mount Outdoor Coil

A heat pump rack for the outdoor section is available as an accessory. See Fig. 5 and Table 4. This rack is easily assembled in the field and predrilled to accommodate the outdoor coil (as described in the Installation Instructions enclosed with the rack). An alternate method of installing the outdoor section is described in the following paragraphs.

ON THE GROUND: MOUNT OUTDOOR COIL ON A SOLID, LEVEL CONCRETE PAD. See Fig. 4 for pad dimensions. Position unit so that coil drainage holes in basepan overhang the pad. (See Fig. 1 for drainage hole location.) See that pad

3

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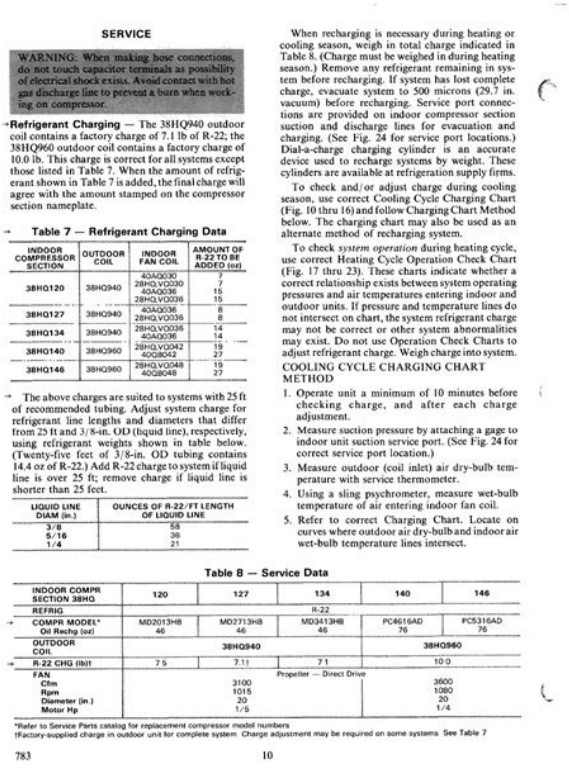

SERVICE

WARNING: When making hose connections, do not touch capacitor terminals as possibility of electrical shock exists. Avoid contact with hot gas discharge line to prevent a burn when working on compressor.

→**Refrigerant Charging** — The 38HQ940 outdoor coil contains a factory charge of 7.1 lb of R-22; the 38HQ960 outdoor coil contains a factory charge of 10.0 lb. This charge is correct for all systems except those listed in Table 7. When the amount of refrigerant shown in Table 7 is added, the final charge will agree with the amount stamped on the compressor section nameplate.

→ **Table 7 — Refrigerant Charging Data**

INDOOR COMPRESSOR SECTION	OUTDOOR COIL	INDOOR FAN COIL	AMOUNT OF R-22 TO BE ADDED (oz)
38HQ120	38HQ940	40AQ030 28HQ,VQ030 40AQ036 28HQ,VQ036	7 7 15 15
38HQ127	38HQ940	40AQ036 28HQ,VQ036	8 8
38HQ134	38HQ940	28HQ,VQ036 40AQ036	14 14
38HQ140	38HQ960	28HQ,VQ042 40Q8042	19 27
38HQ146	38HQ960	28HQ,VQ048 40Q8048	19 27

→ The above charges are suited to systems with 25 ft of recommended tubing. Adjust system charge for refrigerant line lengths and diameters that differ from 25 ft and 3/8-in. OD (liquid line), respectively, using refrigerant weights shown in table below. (Twenty-five feet of 3/8-in. OD tubing contains 14.4 oz of R-22.) Add R-22 charge to system if liquid line is over 25 ft; remove charge if liquid line is shorter than 25 feet.

LIQUID LINE DIAM (in.)	OUNCES OF R-22/FT LENGTH OF LIQUID LINE
3/8	58
5/16	36
1/4	21

When recharging is necessary during heating or cooling season, weigh in total charge indicated in Table 8. (Charge must be weighed in during heating season.) Remove any refrigerant remaining in system before recharging. If system has lost complete charge, evacuate system to 500 microns (29.7 in. vacuum) before recharging. Service port connections are provided on indoor compressor section suction and discharge lines for evacuation and charging. (See Fig. 24 for service port locations.) Dial-a-charge charging cylinder is an accurate device used to recharge systems by weight. These cylinders are available at refrigeration supply firms.

To check and/or adjust charge during cooling season, use correct Cooling Cycle Charging Chart (Fig. 10 thru 16) and follow Charging Chart Method below. The charging chart may also be used as an alternate method of recharging system.

To check *system operation* during heating cycle, use correct Heating Cycle Operation Check Chart (Fig. 17 thru 23). These charts indicate whether a correct relationship exists between system operating pressures and air temperatures entering indoor and outdoor units. If pressure and temperature lines do not intersect on chart, the system refrigerant charge may not be correct or other system abnormalities may exist. Do not use Operation Check Charts to adjust refrigerant charge. Weigh charge into system.

COOLING CYCLE CHARGING CHART METHOD

1. Operate unit a minimum of 10 minutes before checking charge, and after each charge adjustment.
2. Measure suction pressure by attaching a gage to indoor unit suction service port. (See Fig. 24 for correct service port location.)
3. Measure outdoor (coil inlet) air dry-bulb temperature with service thermometer.
4. Using a sling psychrometer, measure wet-bulb temperature of air entering indoor fan coil.
5. Refer to correct Charging Chart. Locate on curves where outdoor air dry-bulb and indoor air wet-bulb temperature lines intersect.

Table 8 — Service Data

INDOOR COMPR SECTION 38HQ	120	127	134	140	146
REFRIG	R-22				
→ COMPR MODEL*	MD2013HB	MD2713HB	MD3413HB	PC461GAD	PC531GAD
Oil Rechg (oz)	46	46	46	76	76
OUTDOOR COIL	38HQ940			38HQ960	
→ R-22 CHG (lb)†	7.5	7.11	7.1	10.0	
FAN	Propeller — Direct Drive				
Cfm	3100			3600	
Rpm	1015			1080	
Diameter (in.)	20			20	
Motor Hp	1/5			1/4	

*Refer to Service Parts catalog for replacement compressor model numbers
†Factory-supplied charge in outdoor unit for complete system. Charge adjustment may be required on some systems. See Table 7

783 10

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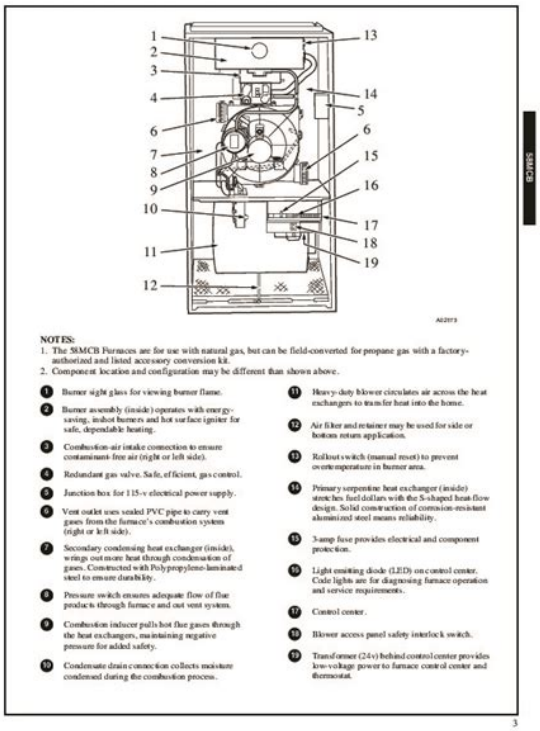
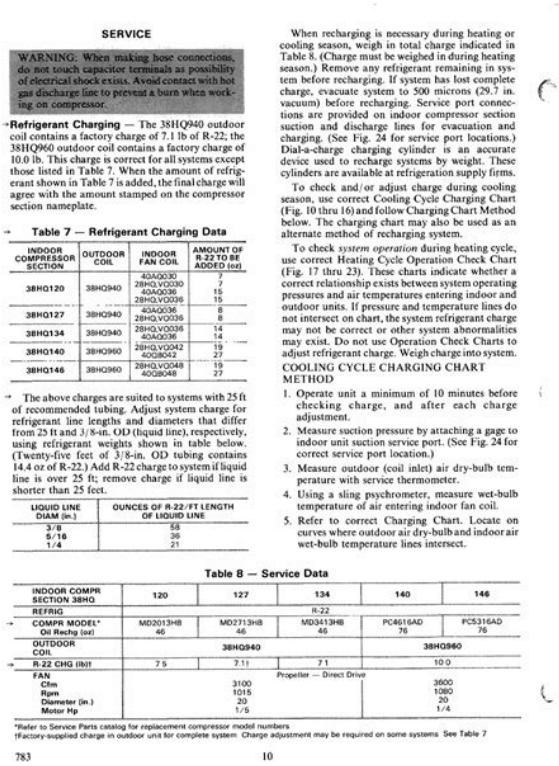


If you have oneinchthick furnace filters, a onceamonth change is recommended. If you don’t change it, the filter will block the proper airflow and strain your furnace. Return air grilles are larger and are located on a wall or the ceiling in newer homes. Older homes frequently have return air grilles on the floor. NOTE If your system control has a “Constant ON” feature, you will not always feel warmth, even though air may be blowing. Verify that the circuit breakers are ON or that fuses have not blown. If you must reset breakers or replace fuses, do so only once. Contact your Carrier expert for assistance if the breakers trip or the fuses blow a second time. Check air filters for accumulations of large particles. Check for blocked exhaust air grilles or ductwork. Keep grilles and ductwork open and unobstructed. Defrost time could be five to 20 minutes, depending on temperature and settings. With this information, the dealer will be able to correct any problems. Make sure that the condensate drain tube has a slight slope and is not kinked. Provide your model and serial number. With this information, the dealer will be able to correct any problems. Water likely means the support base has shifted since installation and is no longer level. Soak the core in warm water and mild soap for three hours and then rinse under warm not hot water. Use a vacuum cleaner to remove accumulated dust and then handwash in warm water. Filter life varies from home to home and is based on several factors, but most last from eight to 12 months. If your geothermal unit is connected to well water instead of a closed loop, we recommend the heat exchanger inside the unit be cleaned periodically to prevent the buildup of minerals that can reduce system performance. ARP changes coming soon. This notice is dismissible, click the top right X and it will vanish. The ARP Forum will become Pro Member only on September 1, 2020.http://www.bedrucken24.de/userfiles/eberspacher-heater-manuals.xml



SERVICE

WARNING: When making hose connections, do not touch capacitor terminals as possibility of electrical shock exists. Avoid contact with hot gas discharge line to prevent a burn when working on compressor.

→**Refrigerant Charging** — The 38HQ940 outdoor coil contains a factory charge of 7.1 lb of R-22; the 38HQ960 outdoor coil contains a factory charge of 10.0 lb. This charge is correct for all systems except those listed in Table 7. When the amount of refrigerant shown in Table 7 is added, the final charge will agree with the amount stamped on the compressor section nameplate.

→ **Table 7 — Refrigerant Charging Data**

INDOOR COMPRESSOR SECTION	OUTDOOR COIL	INDOOR FAN COIL	AMOUNT OF R-22 TO BE ADDED (oz)
38HQ120	38HQ940	40AQ030	7
		28HQ,VQ030	7
		40AQ036	15
		28HQ,VQ036	15
38HQ127	38HQ940	40AQ036	8
		28HQ,VQ036	8
38HQ134	38HQ940	28HQ,VQ036	14
		40AQ036	14
38HQ140	38HQ960	28HQ,VQ042	19
		40QB042	27
38HQ146	38HQ960	28HQ,VQ048	19
		40QB048	27

→ The above charges are suited to systems with 25 ft of recommended tubing. Adjust system charge for refrigerant line lengths and diameters that differ from 25 ft and 3/8-in. OD (liquid line), respectively, using refrigerant weights shown in table below. (Twenty-five feet of 3/8-in. OD tubing contains 14.4 oz of R-22.) Add R-22 charge to system if liquid line is over 25 ft; remove charge if liquid line is shorter than 25 feet.

LIQUID LINE DIAM (in.)	OUNCES OF R-22/FT LENGTH OF LIQUID LINE
3/8	58
5/16	36
1/4	21

When recharging is necessary during heating or cooling season, weigh in total charge indicated in Table 8. (Charge must be weighed in during heating season.) Remove any refrigerant remaining in system before recharging. If system has lost complete charge, evacuate system to 500 microns (29.7 in. vacuum) before recharging. Service port connections are provided on indoor compressor section suction and discharge lines for evacuation and charging. (See Fig. 24 for service port locations.) Dial-a-charge charging cylinder is an accurate device used to recharge systems by weight. These cylinders are available at refrigeration supply firms.

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2. Measure suction pressure by attaching a gage to indoor unit suction service port. (See Fig. 24 for correct service port location.)
3. Measure outdoor (coil inlet) air dry-bulb temperature with service thermometer.
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Table 8 — Service Data

INDOOR COMPR SECTION 38HQ	120	127	134	140	146
REFRIG	R-22				
→ COMPR MODEL*	MD2013HB	MD2713HB	MD3413HB	PC4616AD	PC5316AD
Oil Rechg (oz)	46	46	46	76	76
OUTDOOR COIL	38HQ940			38HQ960	
→ R-22 CHG (lb)†	7.5	7.11	7.1	10.0	
FAN	Propeller — Direct Drive				
Cfm	3100			3600	
Rpm	1015			1080	
Diameter (in.)	20			20	
Motor Hp	1/5			1/4	

*Refer to Service Parts catalog for replacement compressor model numbers
†Factory-supplied charge in outdoor unit for complete system. Charge adjustment may be required on some systems. See Table 7

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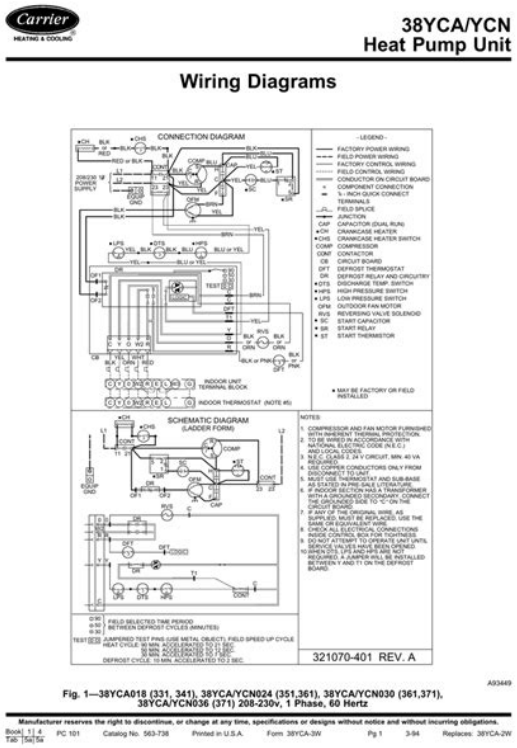

Fig. 1—38YCA018 (331, 341), 38YCA/YCN024 (351,361), 38YCA/YCN030 (361,371), 38YCA/YCN036 (371) 208-230v, 1 Phase, 60 Hertz

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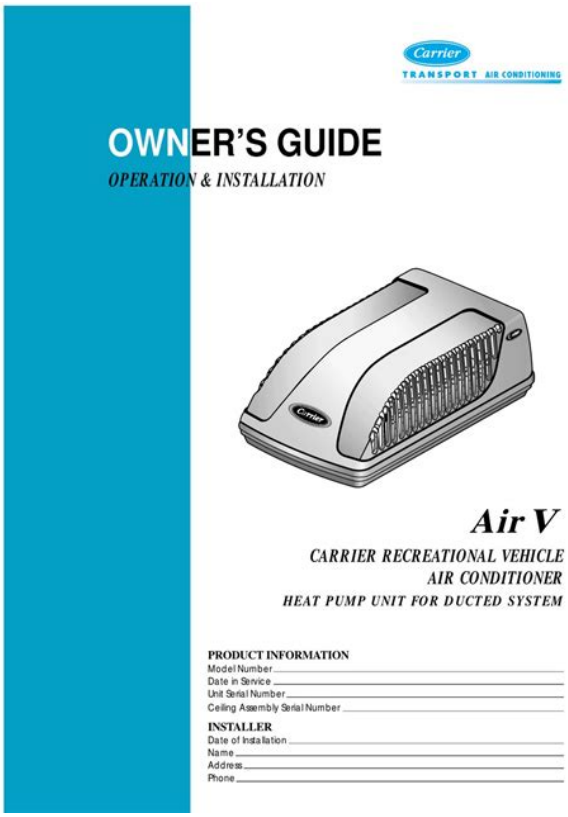

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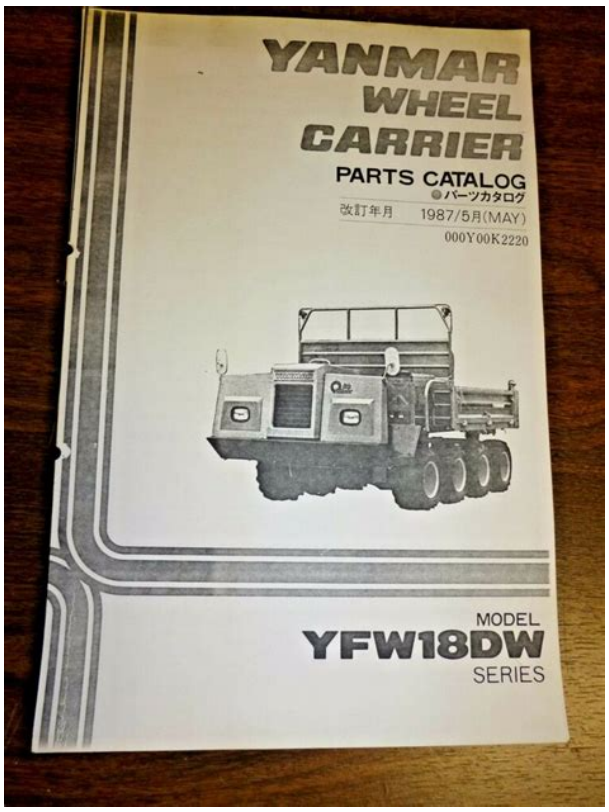

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When the set point is reached, the outdoor fan will cycle toIf the low ambient temperature controller does not operateIf condensing pressure is about 225 psig or greater, the outdoorfan motorTo check

operation of low ambient temperature controllerManufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.Printed in U.S.A. Pg 4Book 1 4. Did you miss your Activation Email Im getting cold air when the auxiliary heat comes on. I have restrung heaters in old units before as a last resort but I would like to replace my unit with as close a replacement as I can. There isnt much out there on the net so I was hoping i could get a little more info here. Thanks! About the icons The beer is tip link, if a tech saves ya some money buy em a 6 pack. The green dot is a link to my web page on appliance repair No, but I can take some. Alot of broken fridges out there hopefully ll get home at a decent time so I can get to it in the next few days. Thanks. The current system Carrier 40AQ has a Heatpump with an Emergency Heat option and is is controlled by Honeywell Thermostat T841A1233. The wiring is as follows TStat Label Color W1 Blue G Green Y Yellow O Orange R Red X1 Black W2 White E Brown The new Thermostat is a Honeywell RTH7500. Thanks in advance, MartinI looked at the stats manual, and I am not seeing W1 listed. You may have to go to the air handler and see where the blue wire is landing at the other end.I was out of town for the last days and just got back. I am pretty sure that I got the current labeling correct but I will check again. Thanks MartinTalking about procrastination. Anyway, I finally traced the wires back to the Carrier unit and there, the blue and yellow wires coming from the current thermostat are wired together. Should it be safe to assume that I can just ignore the existence of the blue wire and just follow Jays original mapping.

http://reiki-roots.co.uk/wp-content/plugins/formcraft/file-upload/server/content/files/162734652e94e3---briggs-stratton-model-95902-manual.pdf

Thanks, MartinConfigure option 170 to 7 heat pump with aux heatJust did it and it seems to be working like a charm. Not trying out the heat yet it is hot in Atlanta. Again, I appreciate the help MartinI have Lennox Elite 13 Heat Pump with Emergeny Heat. Blower coild is CB31.My furnace control board has R, W, Y, G, and T. Any suggestions on picking up 24vac. Thanks Lots of great info! Im getting ready to replace an old defective Honeywell 8411 stat with a new RTH3100C. Terminals on the new unit are essentially the same except for my old unit has a W1, W2 and Y where the new unit does not. The manual states to call a contractor for help but I know figuring out what needs wired cant be that difficult. Rather than resort to a service call to make this happen, I have been searching the internet and this site for days before I start tearing into it. So with that said is there any possibility someone might be able to lend a new homeowner a hand. Im an ASE Master ceretified mechanic and not an HVAC man. My wiring on the old unit is as follows. G Green. C Blue. R Red. W1 Jumped to Y. Y Yellow. L Unused. W2 White. E Black. B Unused. OOrange. New unit has the following terminals. E, Aux, Y, G, O, L, R, B, C. Many thanks in advance!! We welcome your comments andAll rights reserved. You may freely linkView our Privacy Policy here. Send a Houzz Gift Card. What benefit does one have over the other.Will the two stage last longer Plus the old heat pump used R22 refrigerant. We will have to change the copper tubing if we choose the XL18 and have to install it outside of the house. Is R8 a good choice. Any benefit to the flex foil faced ducts, which will be in attic. Keep the ducts inside the house where it is at all practical. Price difference should be significantly less than the XL18i you were quoted.I assume you are in an all electric system. Depending on location R8 at a minimum with mastic. Heavy duty and changeout is easy.

www.concrete-mix-plant.com/d/files/capresso-coffeeteam-ts-manual.pdf

Generic filters less expensive available at air filter companies. This is the most efficient way of heating and cooling since you are not losing 3050% in the ducts themselves. Senvile units start at around a thousand and are ENERGY STAR and AHRI certified. Q Comments 2 Ductless Air Conditioner vs. Central Air Conditioner Which is Right for You Before weighing the pros and cons of central air conditioning and ductless air conditioning, you should have a basic grasp of what each system entails. A central air conditioning system typically has two units. The indoor unit is usually

attached to the furnace, whose blower forces cooled air through ducts that stretch around the home. The outdoor unit houses a compressor and condenser. What does Ductless Mean. Ductless systems also have indoor and outdoor components, but they arent built into existing forcedair furnaces. Outdoor units are usually mounted on outside walls, but they may also be installed farther away if necessary. Depending on the heating and cooling needs of a home, more than one outdoor unit may be needed. Similarly, there is one or more indoor airhandling unit. These units may be mounted high on walls, on ceilings or on floors. With multisplit systems, different temperatures may be set for different zones. Some of the most important things to consider when weighing the benefits of ductless systems over central air conditioners include Flexibility With ductless, indoor air handlers can be installed in a variety of places. You can also have them installed so that heated and cooled air is limited to specific parts of the home, which creates superior comfort and results in lower energy bills. Heating and Cooling Central air conditioners can only be used to cool a home. They must be paired with furnaces or heat pumps for yearround indoor comfort. In areas where temperatures rarely or never dip below about 20 degrees Fahrenheit, ductless systems can heat homes as well as cool them.

They have reversible heat pumps that move warm air in either direction. Zoned Comfort With central air conditioning, setting the temperature on the thermostat adjusts the temperature for the entire home. By opting for a multisplit ductless system, you can set different temperatures in different rooms. If you dont plan to use a room on a given day, you can stop having heated or cooled air directed there. This results in significant energy savings. Less Energy Loss One of the biggest drawbacks of a standard central air conditioning system is the fact that cooled air has to travel through ducts to get where it needs to go. Along the way, a lot of it seeps out and is lost in unconditioned parts of the home. This can result in energy losses of up to 30 percent. Your ductwork is left out of the equation with a ductless system, so the issue of leaks is eliminated entirely. Simple Installation As long as its performed by an authorized and experienced contractor, ductless air conditioning installation is a snap. Most of the legwork has to be done prior to installation. For example, technicians must determine the appropriate places to mount indoor air handlers and perform load calculations to ensure that the equipment thats used has the right capacity. Design One thing about ductless systems that sometimes gives people pause is the fact that its necessary to have indoor units installed to deliver cooled and heated air to specific rooms. In other words, equipment isnt just tucked away down in the basement. However, highquality ductless systems have compact, lowprofile indoor units that do little to detract from interior decor..See More HVAC advise needed Q Comments 5 I appreciate your advise. You gave me a different and very useful perspective on things. Luckily, we dont have any flexible ducts; its all metal. There is some ductwork in the attic and the local electric utility sealed this about 21 years ago.

I dont know what it was sealed with but I vaguely remember the person used a backpacklike machine with a hose and the word mastic was used. That ductwork is now covered with a couple of feet of insulation so Id rather not disturb it. There is some exposed ductwork in the basement and the joints were sealed with mastic metal tape five years ago. Its not insulated, yet it could be. But that still leaves the majority of ductwork thats in the walls that wouldnt be sealed or insulated to todays standards..See More Mini split ductless vs.I dont know what your plans are for the future, but if you ever sell, having them connected could be a major drawback for the new owners. I cant think of any benefits, to having only one system, but can find several drawbacks, such as cooking smells, etc. As for the HVAC, how Id break it up depends on your climate. If you have a really warm climate, then I would use 3 units, one for the suite, one for the bedrooms and one for the rest of the house, especially if the house has two floors. Im in S. FL, so getting the house properly cooled is high on my priorities. Heat is optional down here..See More lin51 Original Author 5 years ago I am just southeast of the Raleigh,NC area. Currently running on supp.The thermostat proposed for the XL18 is prestige IAQ and the XR15 just says digital programmable, no model number. How important is

the thermostat. Your thoughts Other reasons If I get the media filter in the attic, I would have to go up in the attic via the pull down stairs, although I was told that filter would only need to be changed once a year. Dont know size or type of ducts. Currently running on supp.The thermostat proposed for the XL18 is prestige IAQ and the XR15 just says digital programmable, no model number. Dont know size or type of ducts. They were really workhorses, werent they. A couple of blower motors along the way heat pump, but thats it, never a leak.

How did existing system perform As stated above have 14 yr old 3ton Goodman R22 heat pump with bad compressor. And you would feel cool air fist coming out of vents before heating. Never had a problem with air handler, 27 yr old Carrier, which is in the attic,except for a capacitor. The heat pump had condensor fan replaced, some capacitors, and last couple years had hard start on it. Your thoughts on changing the 27 yr old ductwork. If so, size and type recommended.If 3 ton, then minimum 10 KW which yield about 35 KBTUs. Request leak test. You can get away with linesets that are slightly smaller than recommended at the expense of some efficiency. Usually only an issue for long lineset runs. This information on any efficiency loss should be available in the equipment installation manuals. The existing lineset size should be checked to the manufacturers recommendation. I dont want a lineset that is sized close for a new system. I was looking at the 4TTR in error. As far as heat strip size 8kw recommended, based on supp.Load calc heating 41,015 btu and cooling 39,884 btu3.5 ton proposed for XR15. We have been running on supp heat now for about 2weeks now and its very comfortable,and Im assuming it cant be more than 8kw due to existing wiring. Also proposed thermostat is Honeywell PRO7000 and new ducts r8 flex silver foil. Your thoughts on sizing of heat pump and strips, thermostat, and duct type. And certainly will leave your comfort lacking if you ever require emergency heat. You are being advised incorrectly here. Does not matter to me. Just so you know. I would expect it to be comfortable with these mild and moderate days. Get a sweater though when it gets to the low 20s. Flex OK for runs but you want metal trunk lines for both supply and return. R8 insulation OK. How many returns are planned. I would want 3 strategically located and correctly sized for 1500 CFMs.

By Mariana Pickering Emu Building Science Questions to ask before you go for one of these temperature systems in your floors or walls yes, walls Full Story 141 BATHROOM DESIGN Warm Up Your Bathroom With Heated Floors By Tiffany Carboni If your bathroom floor is leaving you cold, try warming up to an electric heating system Full Story 105 ARCHITECTURE HVAC Exposed! 20 Ideas for Daring Ductwork By Mitchell Parker Raise the roof with revealed ducts that let it all hang out — and open a world of new design possibilities Full Story 36 DECORATING GUIDES 10 Ways to Hide That Air Conditioner By Mariana Pickering Emu Building Science Feeling boxed in designing around your minisplit air conditioner.