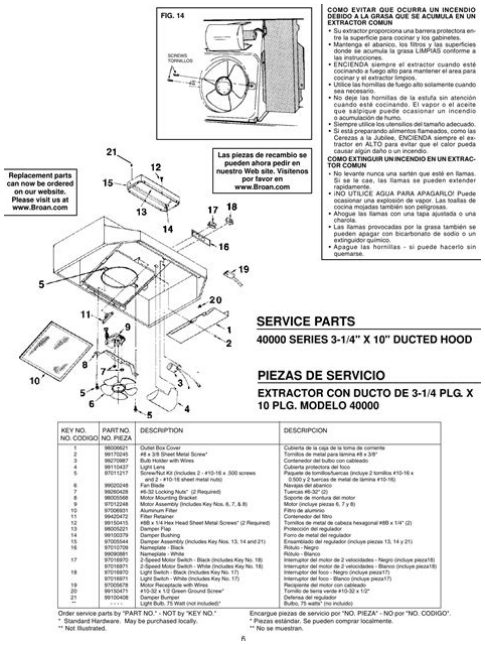
Ductless Installation Manual



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Book Descriptions:

Ductless Installation Manual

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This function can prevent cold air blowing out to avoid discomfort to the users. The unit will adjust the room temperature more accurately to give you comfort. Thanks! This makes it much more energy efficient than turning on and off all the time. You are able to program the unit to turn off when set temperature is reached, if desired. It can also be DIY with the use of special tools such as vacuuum pump and pressure gauges. It would not come with a pad. The indoor unit will draw power from the outdoor unit via the communication cable included within the installation kit. Im asking so I can get the proper breaker. Thank you. For the gauge it would either be 14 or 12 AWG depending on your local electrical codes for 15 amps the 2pole breaker size needed for this unit. If it is 20 degrees outside, will the heat pump still work. Directory of Efficient Products Combination Ratings Database Commercial Financing Commercial Photos Commercial Technical Videos Condensed Catalog Residential Condensed Catalog Commercial Consumer Color Literature Consumer Product Safety Consumer Videos Ductless Consumer Color Literature Equipment Selection Program Excel Files For

TAX Credit Split System Combinations FAST HVACR PARTS FER Model Lookup Tool Geothermal Looplink Software Geothermal Nomenclature Builder HVAC Equipment Cost of Operation Calculator Ion System Control ProductAtAGlance PAAG Product Guide Commercial Product Guide Residential Rooftop Replacement Guide State, Local and Utility Incentives Tax Code Flyer Technical Evaluation Forms U.S. Tax Credit Manufacturers Certificates. To the extent permitted by law, AHIC Australia Pty Ltd is not liable for any errors, omissions or misrepresentation in such information or for any loss or damage suffered by persons who use or rely on the information. We cant connect to the server for this app or website at this time. There might be too much traffic or a configuration error. Try again later, or contact the app or website owner.http://www.annaleehuber.com/content_files/davis-perception-ii-manual.xml

I recently installed a Pioneer 12000 BTU 230 Volt unit which I thought I would share how I install a minisplit. Be sure to follow the Installation manual that comes with your unit. There are many lowcost vacuum pumps and gauges which I bought some budget ones for the install. How To Install Pioneer 12000 BTU 230 Volts Ductless Mini Split It needs a flat solid surface that is level to sit on. Mini Split Pad on Amazon IdealAir 728184 2 x 16 x 36 Cement Equipment Pad Whichever way a pad is set up be sure it is level and set the outside unit on top of it. Be sure to mount the bracket on a good stud so the unit is secure. The wire harness will need to be fed in from the back. If this happens to you simply be sure the wire color match inside and out. For example, Red would be connected to the connector labeled 1 inside and outside. Screw the nuts on by hand carefully making sure not to strip the threads. Once hand tight use a wrench to tighten them up and get a good seal. It is the only service port on the unit. After 1520 minutes turn off the vacuum pump and watch the manifold gauges pressure. It should hold a negative pressure if not there is a leak that needs to be fixed. This is done by removing the caps and using an Allen key turning them to the left counterclockwise. They will need a few turns for the valve to come fully open. The right side shows the temperature when the unit is turned on.While it can be installed quickly it is best to go slow. I just did a ClimateRight mini split, it comes fully charged, both units, and you install the line set and that opens a valve. I’m thinking about trying the Pioneer next because it’s a bit less expensive and has a better trouble shooting and install manual. I never guessed that there were this many little things to factor when installing these units. Do I need to add more refrigerant. If so, how do I do that, where do I do that, and how much do I put in. Thank you again.

So for example if a unit comes with 16 feet of line set and you only need 10 feet you can avoid flaring by coiling up the excess. But if you want a custom fit you need to cut the copper tubing to size, then place the flaring nut over the tubing and then flare the copper before you can attach it to the outside unit. After this you can evacuate the unit. I have a question about the evacuation process. After running the pump for a while and you are ready to test for leaks do you shut off the pump and close the valve on the manifold The gauge will show negative pressure, after sitting for 2030 minutes if it goes back up to 0 there is a leak and it needs to be fixed. If it holds the vacuum there is no leaks and the refrigerant can be released. Unit is level on pads now, just want to know if it needs to be secured with expansion bolts, etc. I am wondering if there is any special consideration for this when connecting the outside line set Did you have to flare the copper tubing before making the connections. With respect to the vacuum pump process my understanding is the low pressure blue hose and blue gauge side gets evacuated. So I believe the high pressure valve should be closed but the low pressure side is opened while the pump is running. Once you are satisfied that the pressure is holding steady and there are no leaks pioneer instructs you to open the refrigerant line a quarter turn for 5 seconds then close the refrigerant. Now the gauges should show a positive reading. One should again observe the gauge to make sure there is no leak. Once certain there is no leak the refrigerant can be totally released It is soft and easily bendable. The copper ends came with a flare so I used them. You are correct about the vacuum pump process. The blue side is for low pressure. I should have used the low side but was only testing for a vacuum and leaks. Can’t find any info or

error codes with 88.

Any ideas as to what it could be It does flash the temperature the unit is set on, can you turn the temperature down to 6869 degrees and see if it comes on. Here is a link to the Pioneer troubleshooting guide with error codes. Can't power it off, turn it down or up with it. It has to physically be unplugged to turn it off. Its a blinking 88 with a wifi symbol to the right of it which is also blinking. Puron or reon Thanks Earl As long as it is the indoor wall unit it can be let loose. The refrigerant is in the outdoor unit that everything needs to be sealed before opening the valves. I think 20amp needs 12g wire Anyhow your breaker is over sized should be 15amp Guess they need to update their listing. I installed the 12000 BTU 230 Volt model which the instructions called for a 20 AMP breaker. I could have used 12 Gauge wire but had the larger 10 gauge from another project so used it. Wire gauge can be larger but not smaller. If you install a unit let us know how it goes. Do you just unhook the pump, screw the cap back on and then charge the lines. Or is there another step that I'm missing. I am going to be installing the 9k BTU 120v today It starts at around 13 minutes into the video. Hope we can get an answer ASAP. Disconnect the vacuum hose line after letting in refrigerant. When disconnecting this will let a small bit of refrigerant out not allowing any air back into the system. The lineset can be left rolled up in a loop close to the unit or if the lineset is shortened the unit can be checked with gauges to be sure it is operating correctly. The unit comes as stated precharged for the expectation of a 16 foot lineset. If you use a shorter or long lineset you will have to either extract coolant for shorter linesets, or add additional coolant for longer linesets. Adding coolant is pretty easy, albeit maybe expensive for a single job. You buy a can or tank of the refrigerant and using the gauge set you add more into the system.

To extract coolant is easy peasy for a tech as he would have an empty bottle to capture the gas, again using the gauge set to connect the bottle. If you use anything but the 16 foot lineset I would get a tech in to help you with that final part. It shouldn't move at all if its done right. Otherwise start looking for your leak. 9 times out of 10 its a shoddy braze job on the lines from the factory or errant dirt in the flared fittings Learn how your comment data is processed. Directory of Efficient Products Combination Ratings Database Commercial Financing Commercial Photos Commercial Technical Videos Condensed Catalog Residential Condensed Catalog Commercial Consumer Color Literature Consumer Product Safety Consumer Videos Ductless Consumer Color Literature Equipment Selection Program Excel Files For TAX Credit Split System Combinations FAST HVACR PARTS FER Model Lookup Tool Geothermal Looplink Software Geothermal Nomenclature Builder HVAC Equipment Cost of Operation Calculator Ion System Control ProductAtAGlance PAAG Product Guide Commercial Product Guide Residential Rooftop Replacement Guide State, Local and Utility Incentives Tax Code Flyer Technical Evaluation Forms U.S. Tax Credit Manufacturers Certificates. Directory of Efficient Products Combination Ratings Database Commercial Financing Commercial Photos Commercial Technical Videos Condensed Catalog Residential Condensed Catalog Commercial Consumer Color Literature Consumer Product Safety Consumer Videos Ductless Consumer Color Literature Equipment Selection Program Excel Files For TAX Credit Split System Combinations FAST HVACR PARTS FER Model Lookup Tool Geothermal Looplink Software Geothermal Nomenclature Builder HVAC Equipment Cost of Operation Calculator Ion System Control ProductAtAGlance PAAG Product Guide Commercial Product Guide Residential Rooftop Replacement Guide State, Local and Utility Incentives Tax Code Flyer Technical Evaluation Forms U.S.

Tax Credit Manufacturers Certificates Learn about your unique communication style and how to utilize it in a variety of business settings. Whats so smart about it Everything. This energy efficient unit is designed to well surpass the highest expectations when it comes to innovative, convenient

technology and features. Only Samsung can offer a residential heat pump this intelligent. Installing a mini split is an easy way to bring heating and cooling to a space. Mini splits can be ducted to multiple spaces or ductless. Today we are talking about a totally DIY ductless system from MRCOOL which is what I will be installing in my workshop. With the spray foam insulation that we have this should be more than enough to cool the building in the summer. Read on to get all the details of how the install went, start to finish. If you love this stuff as much as we do, you might want to consider following us on Instagram where we post sneak peeks and behind the scenes stuff in our stories. Also, did you know you can get tons of projects plans from all around the web when you follow us on Facebook and Pinterest. Disclosure This tutorial contains affiliate links and was sponsored by MRCOOL however the opinions are 100% my own. Full Project Video Wanna see how it all came together. Check out the full project video below and don't forget to subscribe on YouTube so you won't miss future videos. What Size Mini Split Should you Buy. Below, I have put together what I think are appropriate sizes for each of the units. However, these sizings are based on ideal conditions and there are a lot of other variables that should be considered. Installing a mini split 100% on your own can be done with the new DIY system from MR COOL. This is an example of how we installed the 36k Btu bundle in our detached workshop, the Rogue HQ. Installing a Solid Base for the Outdoor Unit A solid mounting area is needed for the outdoor unit.

We decided to pour our own concrete pad for the unit which was 2ft x 4ft. This took about six 80lb bags of concrete. We first removed the top soil, then framed out the pad and leveled the frame, followed by mixing the concrete, pouring into the frame and using a board to screed it flat, filling all the low spots. Once the concrete started to set up a bit, I troweled it smooth. Unfortunately, the dog walked over it not once, but twice. Luckily there is a big unit sitting on top of the paw prints. Another option is to attach a mounting bracket to the side of the building. However, we needed to get it as low as possible due to a window above it. Roughing in the Electrical Luckily, we still had access to all the interior walls so we pulled a 10 AWG, 3 conductor wire with ground from the panel, through the interior walls to the location we were going to install the outdoor unit. Mounting the Indoor Unit Now it was time to move inside and mount the indoor unit. This piece was made slightly smaller than the footprint of the unit so that when drywall is installed it would fit right behind it. Then, the mounting bracket was leveled and screwed to the plywood and studs. Next, I cut out a spot for the lines to run, attached the drain line to the unit and mounted the indoor unit in place. Routing the Piping and Drain In most other cases this unit would be mounted to an exterior wall and the lines would be routed through a hole in that wall and outside. However, since we have access to the walls and have some dead space behind the unit to route the excess lines we were able to have the lines exit the building right where they need to be. The bundle come with a cylindrical sleeve that can be cut down to length and used to seal the hole off nicely. The lines are then ran through this hole and outside to the exterior unit.

The drain line is also routed through this hole, however, extra care must be taken to make sure the drain line is pitched appropriately and drains freely with no traps in the line. Since my line was mostly ran on the interior of the building I needed to insulate it to make sure the line didn't sweat. Sealing the Exterior Wall Penetration After finalizing the routing I then sealed up around the sleeve and inside of the sleeve with spray foam insulation to prevent any outside are from getting in. Installing the Outdoor Unit The outdoor unit is already in place but we needed to make sure it didn't move around so we anchored it to the slab using Tapcons with the rubber vibration pads inbetween the unit and the concrete. Wiring the Outdoor Unit Within that white sleeve there is a black electrical line that runs back to the indoor unit. That gets connected to the outdoor unit and provide power to the indoor unit. There is a white connecter and a ground wire that are used to do so. The power to the outdoor unit from the 30 amp disconnect is ran using a preassembled liquid tight conduit. The wiring is already there and it can be cut to length. The red and black wires are both hot wires and will connect to the L1 and L2 lines using yellow crimp on fork connectors. Then, all that's

left is the ground wire that gets connected to the metal plate below the connections. Connecting the Refrigerant Lines The refrigerant lines get threaded onto the connections. They are both different sizes, so you can't screw it up. Once they are tighten down you can then remove the caps on the side of the lines to expose an allen wrench key that gets turned until it stops to release the refrigerant in the lines and pressurize the system. This is the part of the system the differentiates it from other minisplits. With most other units the refrigerant is added after the fact using a system that most professionals have.

Having the refrigerant in the lines and being able to pressurize your own system makes this process totally DIY. Inserting the Fuses Now the 30 amp fuses can be inserted into the fused 30 amp disconnect. Do note that the fuses do not come with the disconnect. They have to be purchased separately. Bringing the Wire into the Panel Lastly, you'll need to tie the wire into the panel. If you don't feel comfortable doing this, by all means, hire a professional. I am not a licensed electrician and don't claim to be. Also note that the photos below show a panel that is currently under construction so there are a lot of wires that are not tied in yet. To start, the main breaker big switch at the top needs to be turned off, the face of the panel can then be removed and the insulation should be removed from the wire after it enters the panel. Connecting the Ground and Common Wires Then, the ground wire gets stripped and tied into the ground bar. This is usually towards the outside of the panel. While the white wire common wire gets tied into the common bar which is usually near the breakers. Installing the Breaker Now for this breaker we will be using a 30 amp double pole breaker. This means that two wires are hot. So two 110 volt wires will travel to the unit and provide a combined voltage of 220. Therefore, both the red and the black wires get stripped and tied into the breaker. The break then gets inserted into an open slot on the panel. Not all panels are the same so yours may look a little different. Once you get the breaker in you can then replace the face of the panel and flip the main breaker back on. This should complete the install. Adding the WIFI Adapter This is pretty straight forward, there is a usb adaptor that gets plugged into the back of the front panel. Flip up the front panel to expose it and plug it in.

Once you run through the steps in the app you'll have the unit connect to your wifi which will allow you to set up schedules, monitor the required maintenance, and enable "follow me" mode which make you unit aware if you are in the building or not and heat or cool accordingly. Conclusion Honestly, I was a little intimidated when I got started. The wiring freaked me out a little because I had never installed a breaker before and the overall process was totally new to me so I was learning as I go. That being said, there's really not much to it. After the install, I was amazed by just how easy it was. Even the wiring and panel work wasn't bad at all. With a little effort you can save yourself a ton of money by installing this unit on your own. About The Author Jamison Rantz More From This Author Im a Christian, father, husband and former aerospace engineer. In my spare time I like to engineer furniture for the weekend DIYer like myself. Your tools, materials, and skills will vary, as will the conditions at your project site. Rogue Engineer has made every effort to be complete and accurate in the instructions provided on this website. Rogue Engineer will not assume any responsibility or liability for damages or losses sustained or incurred in the course of your project or in the use of the item you create. Always follow the manufacturers operating instructions in the use of tools, check and follow your local building codes, and observe all commonly accepted safety precautions.