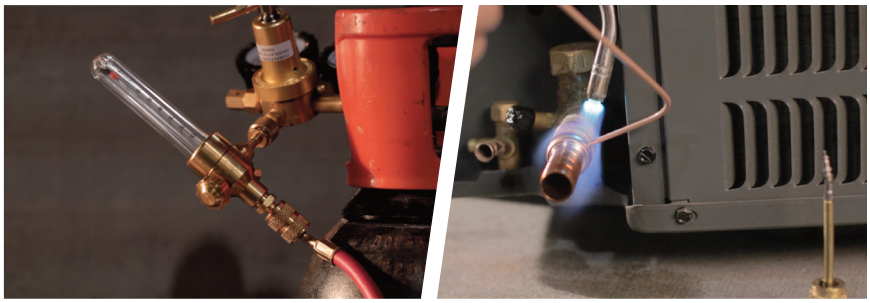
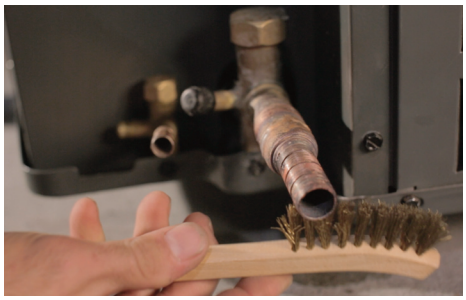
YogaPipeACR Installation Instructions

Congratulations! You have chosen a faster, more efficient way to install an air conditioning line-set. Note that proper installation is essential to ensuring longevity of the equipment on which this product is being installed. We have provided specific information regarding the brazing procedure and pressure testing figures. Please ensure to adhere to these guidelines for ease of installation and warranty purposes.

1 Conduct an inventory of the tools and materials that will be required to complete installation. **1**- YogaPipe Approved Pipe Cutter. **2**- YogaPipe Fittings. **3**- YogaPipe Approved Crimping Tool. **4** - YogaPipe Approved Reamer.



2 Determine whether a male or female fitting is most suitable for your application. Using refrigeration best practices (pre-cleaning and nitrogen shielding), braze selected fittings to both coil and condensing unit.



3 Visually inspect completed brazed connection for any potential leak points. NOTE: Re-brazing will not be possible once pipe crimp connection has been completed. Clean barbed surface of fitting with wire brush to ensure clean pipe contact area.

4 Carefully roll the o-rings into the recessed grooves on the fitting body. Start with the first groove and work towards the back of the fitting as the o-rings will roll over the rings that have been already seated in the grooves. Lightly spinning the o-rings will ensure they are not twisted and are properly in place.

5 Next, snap the plastic isolation collar onto the stainless steel crimping sleeve. Ensure the three inspection holes are at the end closest to the isolation collar.

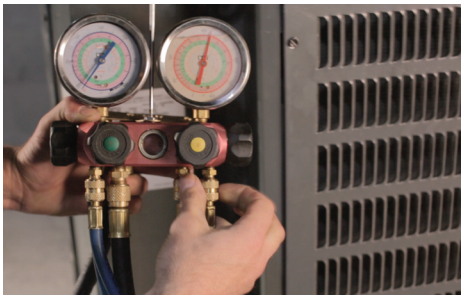
Push the collar and sleeve assembly onto the fitting body. The plastic collar will make an audible "snap" when it is properly installed. Spin lightly to ensure correct seating of collar/sleeve assembly.

6 Using a blade-style pipe cutter, make a square cut, being careful to minimize pipe distortion. Manually remove any burrs or debris from pipe end if present. **NOTE: IF NOT USING PRE-INSULATED YOGAPIPE ACR, YOGAPIPE MUST BE INSULATED AS PER CODE.**

7 In preparation for installing the pipe onto the fitting assembly, reaming is required. Insert reamer into pipe end. Turn the reaming tool 3-5 rotations with enough force to cut a bevel into the pipe end. Remove the reamer and inspect pipe end. Remove shavings if present.

8 Push pipe onto fitting and into sleeve until pipe is visible through the inspection windows in the stainless steel sleeve.

Pro Tip: Light lubrication of o-rings on 7/8" and 11/8" fittings will assist with ease of installation of larger sizes. Use only approved compatible lubricant - International Products Corporation P-80 RediLube.



9 Ensure proper sized crimping head is selected. Open jaws and place over stainless steel crimp sleeve, positioning tightly against the plastic isolation collar. Keeping the tool perpendicular to the fitting and properly positioned, complete crimp using manual or power crimping tools. Ensure that the jaws of the crimping tool come together completely.
NOTE: IT IS IMPERATIVE FOR THE TOOL TO BE POSITIONED PROPERLY. IMPROPERLY PLACED TOOL COULD LEAD TO AN INCOMPLETE SEAL OF FITTING.

10 Remove tool from crimped connection and inspect for three circumferential indentations on the stainless crimping sleeve.

11 After completion of the crimp, proper pressure testing procedures should be followed to check for leaks. As per ASHRAE guidelines, a proper vacuum should be performed on the system to ensure system is free of moisture and contaminants.

PRO TIP: DUE TO THE TOLERANCES INVOLVED IN THE CRIMPED FITTING CONNECTION, IT IS RECOMMENDED TO PRESSURE TEST TO 400 PSI ON AIR CONDITIONING-ONLY SYSTEMS AND 600 PSI ON HEAT PUMPS TO IDENTIFY LEAKS IMMEDIATELY.

Working pressure
580 psi
Maximum pressure 650 PSI

Working temperature*
-40°F to 203°F

Refrigerant compatibility:
YogaPipe is only approved for use under ICC-ES PMG-1409 with R22, R134a, R404a, R407c, R410a and R507

*** YogaPipeACR is only suitable for use in applications that are designed to operate within the set working temperature parameters as specified in this technical data sheet.**
IMPORTANT! 1 1/8" pipe is NOT suitable for heat pump applications.

It is important that a proper vacuum is pulled and that the system is pressure tested to detect leaks immediately. As with any R-410a system, introduction of air and contaminants can lead to premature failure of equipment and potentially the pipe itself. When installed correctly you can be assured of a line set system that will meet and exceed the performance standards of a traditional line set.

				Liquid Line at 105 Degrees F			
Pipe Size (inches)	Inner (inches)	Flow Area (Sq. In)	Outer (inches)	Lb charge/ft	Lb charge/35 ft	Lb charge/50 ft	Lb charge/100 ft
1/4"	0.267	0.056	0.472	0.0227	0.7943	1.1348	2.270
3/8"	0.337	0.089	0.551	0.0362	1.2655	1.8078	3.616
1/2"	0.429	0.145	0.630	0.0586	2.0507	2.9296	5.859
5/8"	0.484	0.184	0.709	0.0746	2.6102	3.7289	7.458
3/4"	0.563	0.249	0.984	0.1009	3.5319	5.0455	10.091
7/8"	0.721	0.408	1.024	0.1655	5.7924	8.2748	16.550
1 1/8"	0.956	0.718	1.260	0.2910	10.1836	14.5480	29.096

	Suction Line at 40 Degrees F				Discharge Line at 140 Degrees F			
Pipe Size (inches)	Lb charge/ft	Lb charge/35 ft	Lb charge/50 ft	Lb charge/100 ft	Lb charge/ft	Lb charge/35 ft	Lb charge/50 ft	Lb charge/100 ft
1/4"	0.0009	0.0301	0.0430	0.086	0.0049	0.1711	0.2444	0.489
3/8"	0.0014	0.0301	0.0684	0.137	0.0078	0.2725	0.3893	0.779
1/2"	0.0022	0.0776	0.1109	0.222	0.0126	0.4416	0.6309	1.262
5/8"	0.0028	0.0988	0.1412	0.282	0.0161	0.5621	0.8030	1.606
3/4"	0.0038	0.1337	0.1910	0.382	0.0217	0.7606	1.0866	2.173
7/8"	0.0063	0.2193	0.3133	0.627	0.0356	1.2474	1.7820	3.564
1 1/8"	0.0110	0.3856	0.5508	1.102	0.0627	2.1930	3.1329	6.266

YogaPipeACR
Ultimate Flexibility and Strength

To watch the full installation video, go to YogaPipe.com