

## FFC & HFC Indoor Fan Coil Connection Kit

These fan coil connection kits are pre-configured combination packages of flare tube kits, couplings, or reducers to connect the liquid and suction lines of fan coils with flare connections and large horizontal outside air units to the piping system. To ensure equipment compatibility, the pre-flared kits are designed to utilize the factory Flare Nut provided with the original equipment.

The copper flare tube provided with the fitting is annealed (O60) C12200 copper tube and conforms to JIS B 8607 Class 2 dimensional requirements. The copper flared tube allowable working pressure is equal to the annealed copper tube rating by tube size per ASME B31.5.

The Coupling is ETL listed for U.S. and Canada with an allowable working pressure of 1167 PSIG per UL-207. The fitting is intended for use with C12200 Type L copper tube conforming to ASTM B280. All tempers of copper tube may be used (O60, H55, H58). The fitting may also be connected to C19400 copper alloy.

Specialty tube support inserts may be supplied with the kit for proper fit onto certain fan coil connecting tubing. Refer to RCS installation instructions for details prior to installing these fittings.

<b>Application</b>	High Pressure HVAC/R
<b>Max Rated Pressure</b>	600 psi
<b>Compatible Tubing</b>	Seamless Copper Tubing, Drawn H58, Light Drawn H55, or Annealed O60 made to ASTM B280 and ASTM B75 Standard.
<b>Agency Approval</b>	ETL Listed 5011885. Conforms to UL 207 STD. Certified to CSA STD C22.2#140.3
<b>Refrigerants</b>	All CFC, HCFC, HFC, HFO, and class A2L refrigerants and refrigeration oils.  The product is suitable for use with R744 (CO <sub>2</sub> ) when used within the design pressure rating.  The product is not suitable for use with ammonia, methyl chloride, hazardous or flammable refrigerants from Group 2 or 3 per ASHRAE 15.

**Installation** The fittings must be installed per RCS installation instructions by skilled installers, trained specifically in the application and installation of RCS fittings.

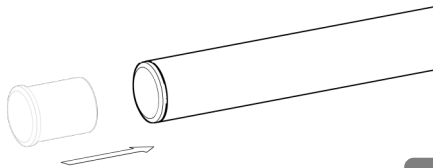
Contact RCS, Inc. for alternative tube support inserts when installing fittings on annealed copper coils or pre-insulated line sets with tube wall thicknesses less than specified by ASTM B280. Do not use on annealed copper sizes larger than 5/8" O.D.

RCS KIT NUMBER	1/4" LIQUID	3/8" LIQUID	1/2" LP GAS	5/8" LP GAS	3/4" LP GAS	7/8" LP GAS
FFC-0204	AFLR-02		AFLR-04			
FFC-0305		AFLR-03		AFLR-05		
HFC-F3-0606		AFLR-03			ACPLT-06	
HFC-F3-0706		AFLR-03			ARED-0706	
HFC-F3-0707		AFLR-03				ACPLT-07
HFC-F3-0807		AFLR-03				ARED-0807

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications, and/or materials. Technical specification sheets appearing on [refcouplingsys.com](http://refcouplingsys.com) are the most recent data available.

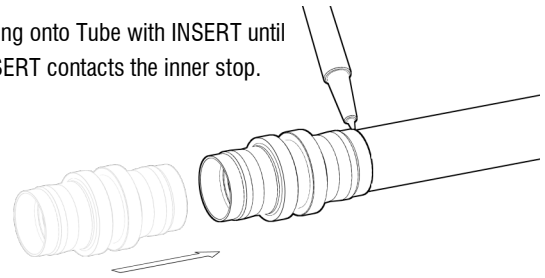
# Assembly Guide

Tube surface must be clean, free from scratches or any surface imperfections, and de-burred inside and out.  
Place tube support INSERT in to clean and de-burred tube.



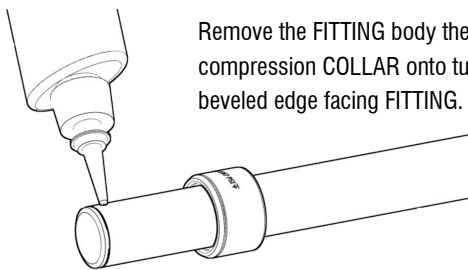
1

Place Fitting onto Tube with INSERT until TUBE/INSERT contacts the inner stop.



Mark Tube at end of FITTING with permanent felt tip marker.

2

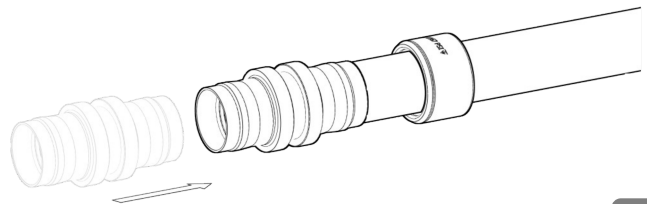


Remove the FITTING body then slide the compression COLLAR onto tube with the beveled edge facing FITTING.

Apply LocTite® to full circumference of tube end.  
Keep LocTite® 1/8" from end of TUBE and INSERT.

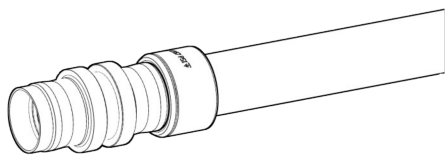
3

Slide the FITTING body back onto the TUBE with INSERT in place until TUBE/INSERT contacts the fitting inner stop.



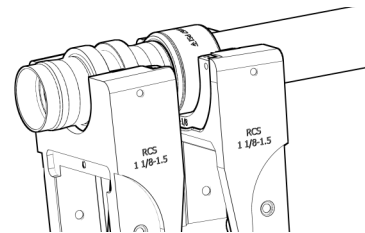
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Keeping the TUBE/INSERT against the FITTING inner stop, slide the COLLAR against the FITTING. Collar should overlap the FITTING body.



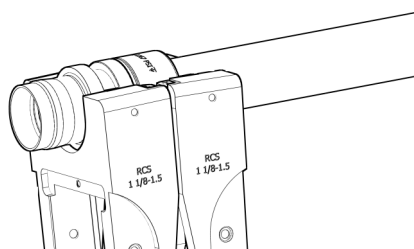
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Place the FITTING and COLLAR into correct size press clamps. The assembly MUST be fully seated on the lower circumference of the clamps. Do not change the insertion depth of the TUBE/INSERT and the connecting joint.



6

Using the press tool, press the COLLAR onto the FITTING body until it is fully seated against FITTING stop. TUBE/INSERT must be maintained against the FITTING inner stop during the pressing operation.



7



That the tube insert depth reference mark is visible and closely aligned with the end of the FITTING body.



That the COLLAR is in the correct orientation, fully seated, and is flush against the shoulder of the FITTING body.



That any gap between the COLLAR and the FITTING shoulders are less than 1mm.

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