

# INSTRUCTIONS FOR THE GENERATION 1 & 2 LIQUID-COOLED CONDENSER (LCC) INSTALLATION

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# EGI LCC GEN 1&2 KIT CONTENTS:

- ✓ 1-EGI Liquid-cooled condenser (custom built for Generation 1& 2 CMEP-OL)
- ✓ 1-pair of compression fittings
- ✓ 1-PTFE lined stainless steel braided hose with threaded compression endings
- ✓ 4-Bolts, 4-Washers, 4-Nuts (Mounting hardware)



# TOOLS YOU WILL NEED:

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- 19mm, 17mm, and (2) 14 mm Wrenches
- 4 mm and 5 mm Hex (Allen) Wrenches
- Phillips Screwdriver (or Drill using Phillips Head)
- 3-16 mm Pipe Cutter
- Electric Drill
- 1/4 in Drill Bit

# INSTALLATION INSTRUCTIONS

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STEPS 1-17

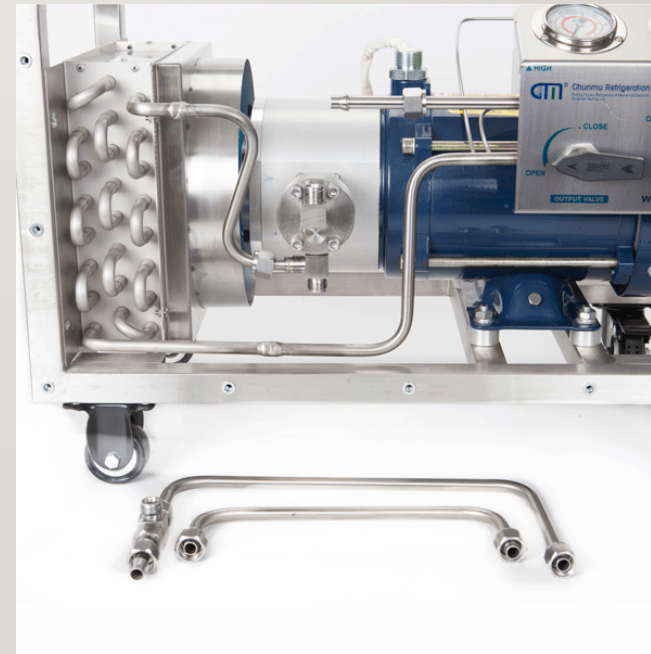
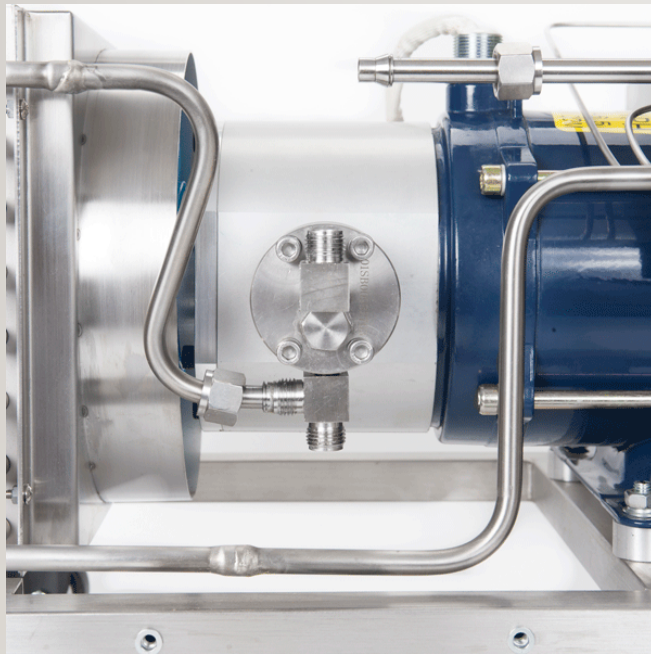
# STEP 1: REMOVE COVER USING THE PHILLIPS SCREWDRIVER OR DRILL USING PHILLIPS HEAD.

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# STEP 2: USE 19 MM WRENCH TO LOOSEN COMPRESSOR FITTINGS TO REMOVE UPPER AND LOWER TUBING.

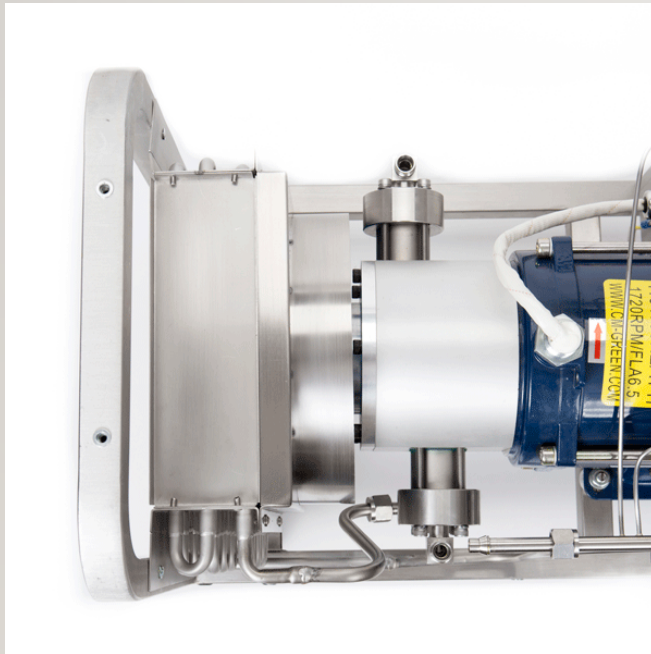
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# STEP 3:

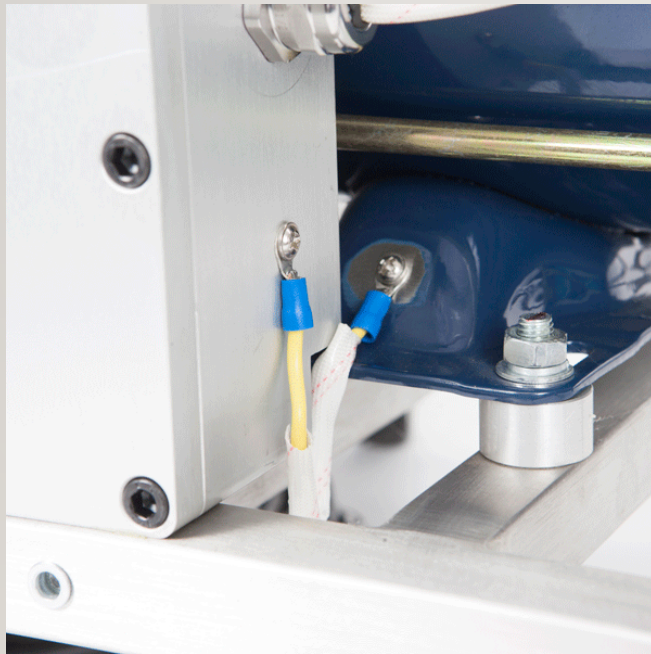
Remove both cylinder heads using 5mm Hex Wrench

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# STEP 4

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Remove motor chassis bolts using the 14 mm Wrenches and disconnect ground wire (usually a yellow wire with white jacket) from the pump power box.



# STEP 5

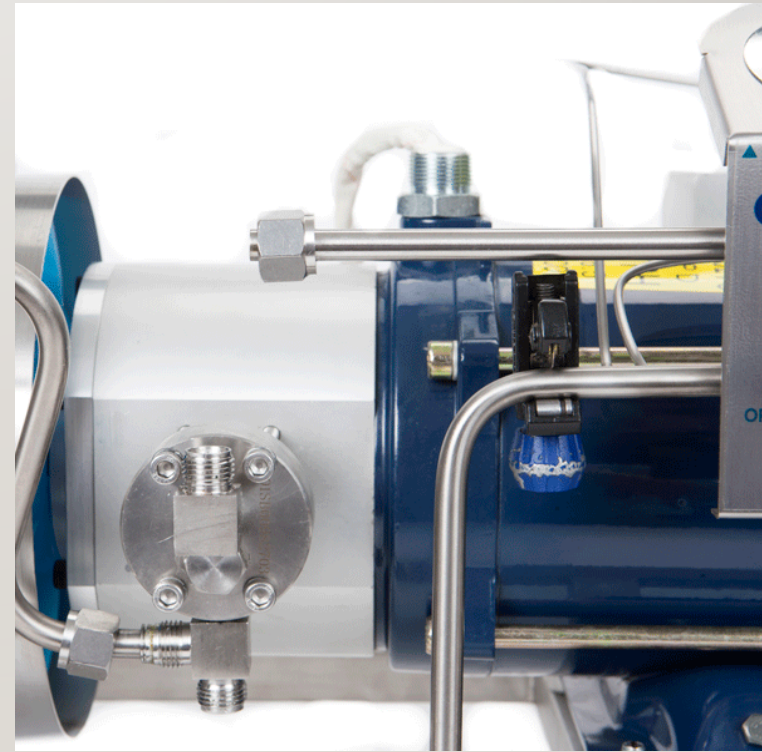
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Slightly bend up reset button tube toward sky without breaking, and carefully slide motor assembly away from the air condenser.

**STEP 6:** USING 3-16 MM PIPE CUTTER, CUT THE CONDENSER OUTPUT TUBE IN A LOCATION BEYOND WHERE THE 2 SMALLER TUBES ARE ATTACHED TO IT. **WE RECOMMEND THAT YOU MAKE YOUR CUT WHERE THE STRAIGHT TUBING MEETS THE BEND.**

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# STEP 7

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Drill out the rivets that mount the air condenser to the frame, and remove the air-cooled condenser.



# STEP 8

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Using 17 mm Wrench, saddle connecting rod to brace and stop the fan rotation. While saddling the connecting rod, use the 4 mm Hex Wrench to remove the plastic fan from the compressor.



# STEP 9

Slide motor assembly back into its original position and loosely re-install chassis bolts using both 14 mm Wrenches.



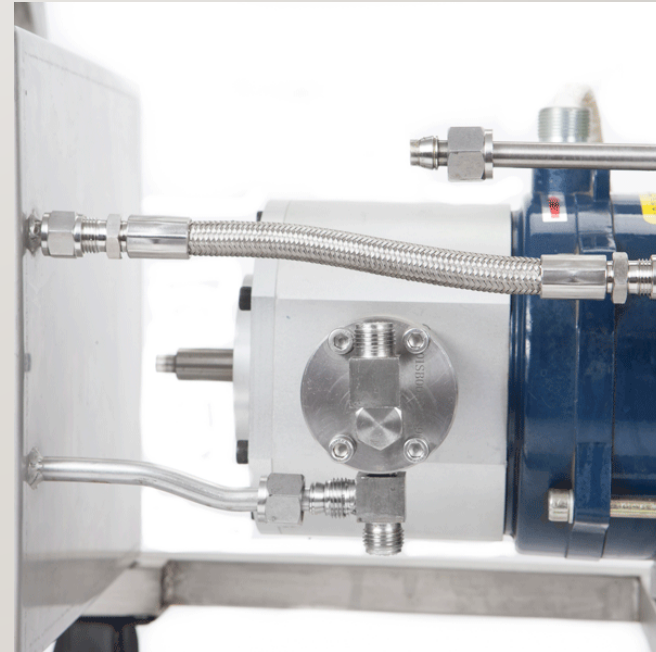
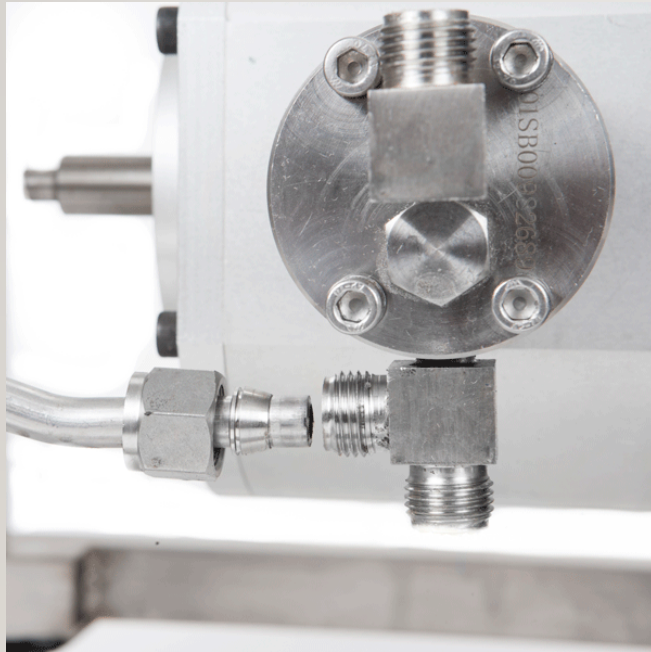
**STEP 10:** SLIDE IN LIQUID-COOLED CONDENSER. THEN CUT THE **TOP TUBE** THAT IS CONNECTED TO THE CONDENSER BY LEAVING APPROXIMATELY 1 CM IN LENGTH.

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# STEP 11: RE-INSTALL BOTH CYLINDER HEADS LEAVING ALL CONNECTIONS LOOSE AND INSTALL FLEXIBLE HOSE USING PRESSURE FITTINGS.

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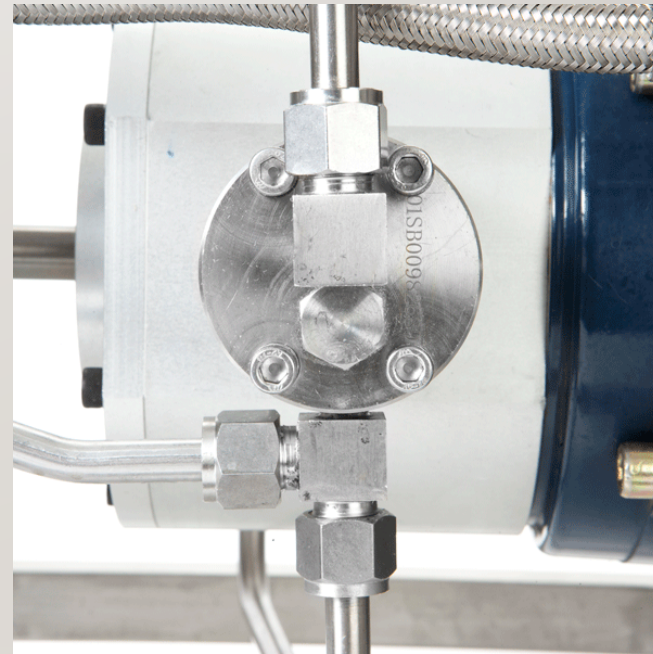
# STEP 12:

## CUT TO FIT. NO ROOM FOR ERROR ON THIS STEP.

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This is an important cut as the tubing is not flexible and is static and there is no room for error.

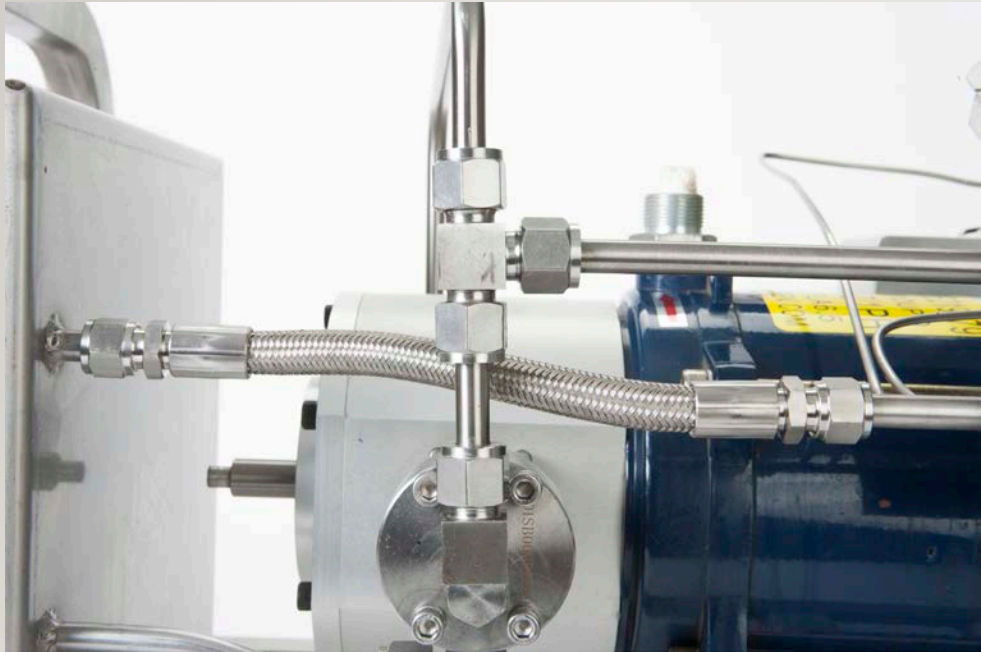
Cut lower tubing of liquid cooled condenser so it will have a **snug fit** with its connection to the cylinder head. This cut on the lower tubing of the liquid cooled condenser should be made **somewhere after** where the bend in the tubing is located.





# STEP 13

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- Attach compressor tubing to cylinder head. Tighten both connections while still leaving loose.
- Slide on compression fittings to top tube of condenser and to the output tube of the pump and attach braided hose. Tighten all of these connections.

# STEP 14

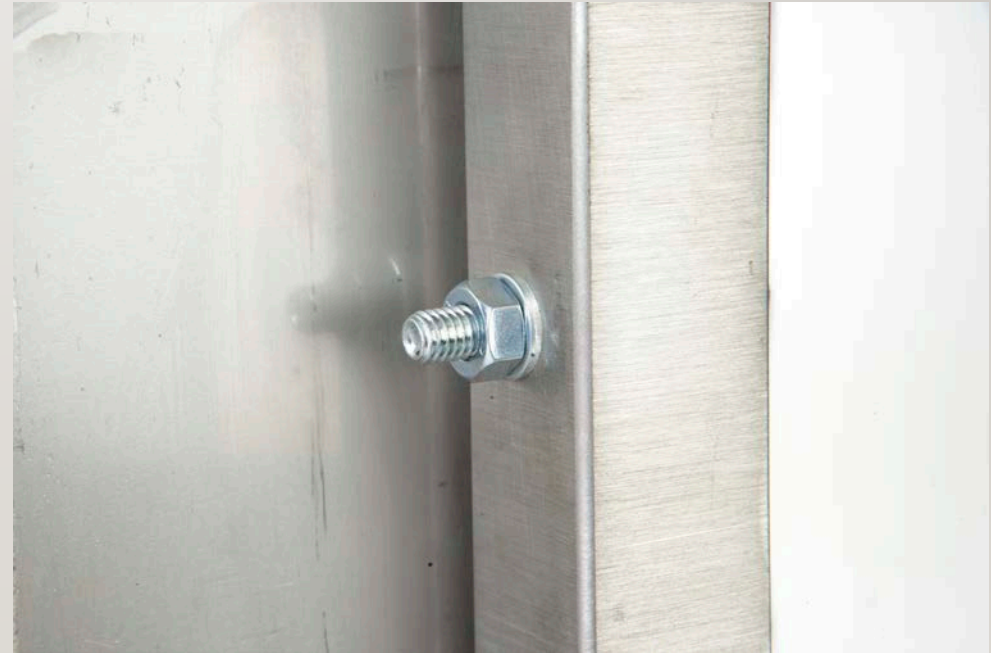
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Make sure that you look over double-check the entire system to ensure that all connection points of your installation fit well.



# STEP 15: MEASURE AND DRILL CONDENSER MOUNTING HOLES ON FRAME AND INSTALL CONDENSER BY TIGHTENING BOLTS.

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# STEP 16: TIGHTEN DOWN CARRIAGE BOLTS UNDER MOTOR MOUNT, AND THEN TIGHTEN ALL REMAINING LOOSE COMPRESSION FITTING CONNECTIONS.

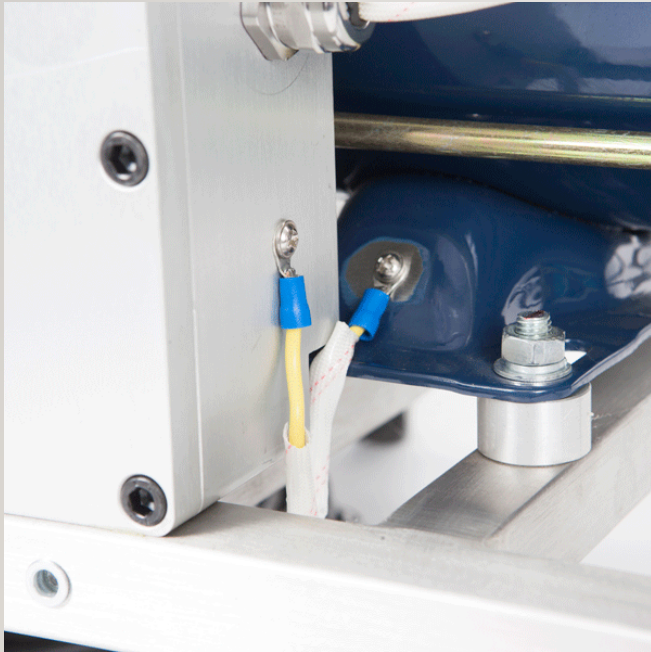
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# FINAL STEP: RECONNECT GROUND WIRE TO POWER BOX.

DOUBLE CHECK ALL CONNECTIONS TO ENSURE THEY ALL ARE TIGHT. RE-INSTALL PROTECTIVE CMEP-OL HOUSING.

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# ENJOY YOUR LIQUID-COOLED CMEP-OL!

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