

## Service Note 1201-075

Revised by QDESC

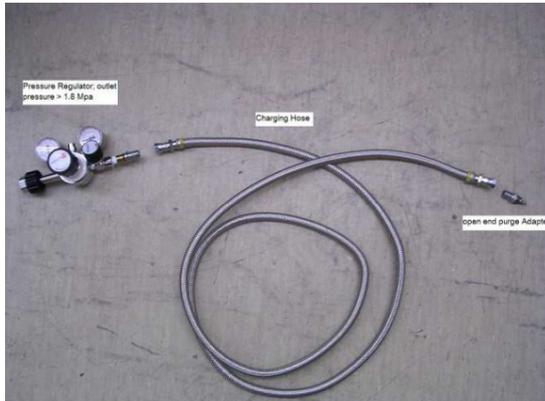
# Compressor Oil Charge Instruction

### Parts

- Helium Cylinder (high purity 5.0 or better)
- Oil Fill Tank 4201-730 (x2)
- Oil Tank to Compressor Oil Intake Flex Line
- Pressure reducer
- Vent Fixture

Please distinguish between oil charging hose (short) and the gas charging hose (long).  
Do not mix them!

### Gas charging kit with long gas charging hose



### Short oil charging hose



### Oil Vessel



## Main Steps

1. The oil fill tanks will come charged with between 0.75 and 1.0 lbs of oil. The tanks will be charged to 5 psi with helium gas. (The weight and charge value will be documented on a sticker – please note this value for your records).
2. Reduce helium pressure in closed cycle to 0.5-0.8MPa using vent fixture on helium charge port of indoor unit. Monitor the helium pressure on the indoor unit display. Be sure not to discharge the gas completely.



3. In case of air-cooled compressor, the oil will be charged to capsule located in outdoor unit. In case of water-cooled compressor, the oil will be charged to capsule located in indoor unit. Bring the oil fill tanks and the helium cylinder to the compressor unit to be filled. Let the oil fill tanks stay in upright position for about 15min at least before continuing!
4. Attach pressure regulator to the helium gas cylinder, attach the gas (long) flex hose and purge the line for 10-15 sec using the purge adapter. Disconnect the purge adapter and increase the pressure to 150-170PSI (1-1.2MPa, higher than remaining pressure in compressor but not too high).
5. Attach the other end of the gas flex line to the oil fill tank to the longer pipe (dry side). Do not open the valve at this time.

**Oil tank with helium charge hose attached.**



6. Attach the oil flex (short) line to compressor oil fill port.

**Oil charge hose attached to compressor oil fill port.**



7. Slowly attach the other side of the oil flex line to the oil vessel and transfer the oil. You will know that the transfer is complete when you hear the bubbling sound of helium passing through oil tank (depend on pressure difference this can take 15-60 seconds)

**Oil charge hose attached to oil bottle**



8. Disconnect the oil tank from flex hose attached to the oil fill port.
9. Disconnect the oil tank from flex hose attached to the helium cylinder.
10. Repeat steps 6-11 with new oil tanks if you want to fill more oil.
11. Fix the protective cup on the oil filling port.
12. Connect the gas charging hose to the service (gas filling port) on the indoor unit.



13. Slowly increase the pressure on the Regulator, filling the compressor to working pressure of 1.45-1.5MPa. See corresponding service note for more details, if needed.
14. Close main valve and disconnect the pressure reducer from helium gas cylinder.