

AMERICAN COOLING TECHNOLOGY

REFRIGERANT AND OIL CHARGING PROCEDURE FOR R-134a

The following steps must be followed to ensure optimum system performance and maximum compressor life:

1. All refrigeration work is to be performed by qualified technician with proper certification.
2. Always wear adequate eye protection when working with refrigerant.
3. Leak check the entire a/c system.
4. Nitrogen purge the system prior to evacuation.
5. Evacuate the system below 600 microns.
6. Add correct oil and refrigerant according to the charge chart.

CAUTION:

1. When leak checking with nitrogen, pressure not to exceed 250 P.S.I.
2. Use of refrigerant oil other than the type and amount specified by the A.C.T. oil selection chart will void warranty.
3. Never add oil or liquid refrigerant to the suction side of system.
4. Consult the A.C.T. factory with any questions at 877-228-4247.

Refrigerant and Oil Charge Chart

Evaporator	Condenser	Oil Amount	R-134a AMOUNT
EZ-3, EZ-35, EV-10	CS-2, CS-22*	4 oz.	4 lbs.
EZ-4, EZ-5, EZ-6, EZ-55, EZ-2	CS-2	5 oz.	5 lbs.
EZ-4, EZ-5, EZ-6, EZ-55, EZ-2	CS-3, CR-3	6 oz.	6 lbs.
EZ-9	DUAL CS-2	5 oz. (each system)	5 lbs. (each system)
EZ-9	DUAL CS-3	6 oz. (each system)	6 lbs. (each system)
EZ-9	SINGLE CS-3	6 oz.	6 lbs. <i>SEE NOTE 4</i>
EZ-91 w/ #12, or #16 suction	SINGLE CS-3	6.oz	6.lbs
Tie-in evaporator to above system		1-1.5 oz.	1-1.5 lbs.
* cs-22 with tie in evaporator consult A.C.T.			

NOTE:

1. All refrigerant oil must be the exact oil specified by the compressor manufacturer. (See chart below)
2. Refrigerant amounts are approximate. Use the sight glass to top off the charge. Additional oil may be necessary at 1oz. Of oil for each additional pound of refrigerant.
3. The condenser sight glass will be free of bubbles when the unit is properly charged. Note: some flash gas may occur at engine idle.
4. The a/c system must be piped according to the appropriate A.C.T. piping diagram.

Oil Selection Chart

Compressor Mfg.	Oil Type	Viscosity	ACT Part No.
Seltec, Que, Hodyon	PAG	46 @ 40°C.	PAG-046
Climate Control	POE	68 @ 40°C.	POE-068

Please contact the American Cooling Technology Service Department with any questions. Toll free at 877-228-4242.