



ADVANCED TEMPERATURE CONTROL

1416 GRAHAMS LANE, BURLINGTON, ONTARIO L7S 1W3

TEL: (905) 637-3468 FAX: (905) 637-3363

PRE-DELIVERY INSPECTION REPORT – M960242

TRUCK #: _____	DATE: _____
VEH. PLATE #: _____	AMB TEMP: _____
VIN#: _____	REFRIG: R-134a _____
END USER: _____	R-404a _____
UNIT SERIAL# _____	CHARGE: _____ lbs

VISUAL INSPECTION

1. After completing installation, turn vehicle off, open all cargo doors to allow box temperature to normalize with ambient air.
2. Perform visual inspection of installation. Confirm all harnesses and hoses are secured to prevent any abrasion damage.
3. Confirm engine coolant level, if required refer to vehicle owner’s manual for details on specific vehicle.
4. Confirm Unit Serial # sticker installed in cabin (typically drivers side door)
5. Install refrigerant gauges, prepare system for testing. On low temperature units, prepare to adjust CPR valve on evaporator with 5/16” allen wrench.

**Confirmation
(Initials)**

OVER THE ROAD (OTR) COOLING TEST

1. Verify the systems refrigerant and oil charge using the basis presented on page 3
2. Verify operating mode for system is correct (Check parameters → **Op.Mode** setting)
3. Close all cargo doors, start vehicle and run on over the road mode. Turn ON ATC unit, set cargo temp to 0C.
4. Immediately after start up, adjust CPR setting to 38 psig, optionally this can be completed after heating test when cargo box will be warm (Explained on page 4)
5. 60 Seconds after starting system record system pressures
 - a. Discharge Press: _____ psig Suction Press: _____ psig
6. Confirm condenser fans starts at 170 PSI (R-134 system) or 190 PSI (R-404 system)
7. Check that evaporator fans are operational
8. Record time to reach set point (0C) _____ min.
9. Confirm system cycles off at set point
10. After set point reached, record system pressures:
 - a. Discharge Press: _____ psig Suction Press: _____ psig
11. Initiate Manual Defrost (See manual if required).
 - a. Confirm systems goes into defrost and exits, record defrost time. _____ min.



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OVER THE ROAD (OTR) HEATING TEST (if equipped)

Confirmation
(Initials)

1. Prior to starting heating test, confirm vehicle coolant temperature is at normal operating temp.
2. Set cargo temperature to 20C. Ensure temperature starts to rise and that auxiliary electric coolant pump is operational.
3. *If using R-404a HG (Hot gas heat) system, verify compressor cycles ON during heating
4. Record time to reach setpoint 20C. _____ min.
5. Ensure that heat cycles off, (coolant valve and aux. electric coolant pump disengage).
6. *If using R-404a HG (Hot gas heat) system, verify compressor cycles OFF after heating cycle
7. Check coolant hose temps. **Caution hoses should be HOT and difficult to hold.**
8. Turn vehicle engine off & re-check coolant level, verify no changes to auxiliary compressor belt routing or damage to belt.

Note: steps 3 and 6 only apply to systems equip with hot gas heat

ELECTRIC STANDBY (ESB) – COOLING TEST (if equipped)

1. Plug unit in to test electric standby operation, ensure vehicle engine is off.
2. Set cargo temperature to ensure unit is in cooling mode (below cargo temp). Confirm condenser fans starts at 170 PSI (R-134 system) or 190 PSI (R-404 system) and evaporator fans are running. Ensure return air temperature is decreasing.
3. Set in cab control to return air temperature and ensure compressor cycles off and that ONLY the evaporator fans are operational.
4. Record cargo temperature and system pressures
 - a. Cargo Temperature: _____ C
 - b. Discharge Press: _____psig Suction Press: _____ psig

ELECTRIC STANDBY (ESB) – HEATING TEST (if equipped)

1. Set cargo temperature to ensure unit is in heating mode (above current cargo temp). Ensure that return air temperature increases and condenser fans are NOT operational.
2. *If unit is equip with electrical heat, verify compressor is NOT operational
3. *If unit is equip with hot gas heat, verify compressor is operational
4. Set in cab control to return air temperature and ensure that ONLY the evaporator motors are operational.

Note: only one of steps 2 or 3 are required depending on if the unit is equip with hot gas heat.

WARRANTY REGISTRATION:

1. Register warranty on:
<https://atctruckrefrigeration.com/find-a-dealer/refrigeration-system-registration/>

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Technician Name: _____ Signature: _____

Supervisors Name: _____ Signature: _____



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Recommended Refrigeration Charge List*

*Note:

- Provided below are **general** refrigerant and oil charge recommendations for ATC refrigeration units
 - These values are to be considered a basis to getting the installing dealer started
 - Oil charge values below identify the additional oil required on top of the compressors factory requirement
- However, additional refrigerant and oil may be required if:
 - Hose runs are longer than standard (specifically the hose length from cond to evap)
 - Installations occurring in unique climates (i.e., Arizona, Las Vegas)
- Contact ATC for any install specific questions:
 - Phone Number: **1-833-878-5282**
 - Email: **Atcwarranty@atc.ca**

Unit	Refrig	Additional Oil Charge (oz of Oil)	Refrig Charge (lb. of Refrig)	Additional Refrig for Standby (lb. of Refrig)
8 Series				
8M	R134a	3 oz	3 lb	N/A
8L	R134a	3 oz	3 lb	N/A
10 Series				
10M	R134a	3 oz	4 lb	N/A
10L	R404A	3 oz	4 lb	N/A
14 Series				
14M RT	R134a	3 oz	5 lb	1 lb
14L RT	R404A	3 oz	4.5 lb	1 lb
16 Series				
16MA	R134a	4 oz	6 lb	1 lb
16LA	R404A	4 oz	6 lb	1 lb
16LA	R134a	4 oz	6 lb	1 lb
16M RT	R134a	4 oz	6 lb	1 lb
16L RT	R404A	4 oz	5.5 lb	1 lb
20 Series				
20MA	R134a	4 oz	8 lb	1.5 lb
20LA	R404A	4 oz	7.5 lb	1 lb



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Crankcase pressure regulator (CPR) Valve Adjusting Instructions*

*Note:

- The CPR valve must be set to **38 psi** with a **warm** cargo box.
 - Option 1: Immediately at start-up before the cooling test
 - Option 2: Immediately after the heating test/during defrost with warm cargo box
- Technician will require a **5/16" Allen wrench/key**
- Use either cab control **or** manual pressure gauges to verify pressure reading
 - It is not possible to use both as cab control pressure readings may vary

Provided below are instructions for adjusting the CPR valve for an ATC system:

1. Remove the CPR valve cap by turning it counter clockwise until it is removed



2. Use the cab control **or** manual pressure gauges to observe the low side/suction pressure reading (Instructions for using cab control are shown below)



3. Insert 5/16" Allen wrench/key to increase or decrease the pressure so that the low side/suction reading in the cab control or manual pressure gauge displays 38 PSI

Increase: Turn Allen key clockwise

Decrease: Turn Allen key counter clockwise

