

**CHECKLIST OF INSTALLING OR CONVERTING
EQUIPMENT TO DISPENSE E85/INTERMEDIATE ETHANOL BLENDS**



- Notify your licensed installer, the state underground storage tank program, and Weights & Measures Division of your intent to dispense E85/intermediate ethanol blends. Your installer should determine if the age, composition and condition of your tank and piping are compatible for E85/intermediate ethanol blends use. For assistance, contact Minnesota Clean Air Choice Team via the contact information below.
Tank Manufacturer: _____ Material _____ Single/Double Wall _____ Year of Construction: _____
- Complete and submit the Minnesota Pollution Control Agency's UST alternative fuel compatibility form, available at <http://www.pca.state.mn.us/index.php/view-document.html?gid=18486>.
- In the case of a conversion, the tank must be cleaned of all water and sediment. Ensure no water is present to protect the quality of your E85/intermediate ethanol blends and the operation of your customers' vehicles.
- Do not dispense E10 and E85/intermediate ethanol blends through a **single-hose** multi-product dispenser. Blends of E20 through E85 must be dispensed through a separate hose and nozzle than E10.
- Dispenser Manufacturer/Model/Year: _____ UL Listed or Manufacturer Approved for E85? _____
- Ensure all visible fittings and connections at the top of the tank are tight (no vapors escape/no water enters).
- Ensure sump and spill containment covers will prevent water from entering the system.
- Use ONLY 1-micron dispenser filters or a comparable E85-specific filter with E85 blends. Do NOT use 10-micron gasoline or 30-micron diesel filters. CimTek is a popular brand of alcohol-compatible filters.
- Use ONLY an alcohol-compatible hose with E85/intermediate ethanol blends.
- Use ONLY steel or nickel-plated swivels, connectors and nozzles (hanging hardware) with E85/intermediate ethanol blends. Do NOT use aluminum gasoline nozzles.
- Identify the E85 fill port and paint the access cover according to API RP 1637. Make certain transport drivers cannot make fuel deliveries to wrong storage tank.
- Calibrate the dispenser meter at the time of conversion or new installation and two weeks later to verify meter accuracy with E85/intermediate ethanol blends. More frequent calibration (API RP 1626) may be required to ensure the retailer is receiving proper compensation for each sale.
- Label dispenser with all E85/intermediate ethanol blends logos, cautionary and required decals. Use nozzle covers indicating E85/intermediate ethanol blends are not gasoline (E10) or diesel. Consider using hangtags, pump toppers and other signage to educate customers. Price sign inserts, curbside signs, the decals mentioned above and other materials are available from the MN Clean Air Choice Team. These can significantly increase consumer awareness and your monthly sales.
- Tank should be filled to 80% of capacity and kept as full as possible for 7 to 10 days.
- Conduct a precision test of the tank system (0.1 gallon/hour test) with ATG system within seven days after tank is filled to confirm the integrity of the system and to ensure leak detection equipment is operating properly. Report any "fail" results immediately.
- Ensure no water is allowed to contaminate your fueling system. If water is suspected or detected, track down its source and fix the problem immediately. The best way to guard against contamination is to properly clean and maintain the fueling system. Confirm no leaks exist in tank fill cap and containment reservoir before beginning your E85/intermediate ethanol blends operation. Water-detecting pastes, suitable for E85/intermediate ethanol blends, may be available in the future.
- If product seems to pump slowly, check and replace filters. Persistent filter clogging may indicate moisture or another source of fuel contamination.

MN Clean Air Choice Team/American Lung Assn in Minnesota: 651-227-8014 & CleanAirChoice.org
See the Handbook for Handling, Storing, and Dispensing E85 for complete details.

I, the undersigned, agree that all of the above best practices have been completed, or will be completed prior to dispensing product.

(Printed name & Signature)

(Date)