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Daikin HFC-134a

DAIKIN Car Air Conditioner Refrigerant HFC-134a User Manual

Model: HFC-134a

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the DAIKIN HFC-134a Car Air Conditioner Refrigerant. This product is designed for refilling car air conditioning systems that utilize HFC-134a refrigerant.

Each package contains 30 cans, with each can holding 200g of refrigerant. The refrigerant's composition is CH_2FCF_3 , with a purity of 99.7% or more and an acid content of 0.0001% or less.



Image 1: DAIKIN HFC-134a Car Air Conditioner Refrigerant (30-can set). The cans are clearly labeled with the refrigerant type,

2. SAFETY PRECAUTIONS

WARNING: This product contains high-pressure gas. Incorrect handling can lead to severe injury, including can rupture, liquid splashing causing blindness, or frostbite.

- **Professional Handling Required:** Always ensure that a **certified car air conditioner gas charging technician** handles this product. All procedures must strictly adhere to the car air conditioner manufacturer's manual.
- **Temperature Restrictions:**
 - Do not store or use this product in locations where the temperature exceeds 40°C (104°F).
 - Do not raise the temperature of the can above 40°C (104°F).
 - Do not expose the can to fire or open flames.
- **Compatibility:** This product (HFC-134a) **cannot be used for R-12 car air conditioning systems**. Ensure your vehicle's system is compatible with HFC-134a refrigerant before use.
- **Ventilation:** Use in a well-ventilated area to prevent accumulation of gas.

3. SETUP

The setup process for charging car air conditioning systems with HFC-134a refrigerant requires specialized tools and knowledge. This procedure must only be performed by a certified technician.

1. **Vehicle Preparation:** Ensure the vehicle is in a safe, well-ventilated area, with the engine off and cool.
2. **Safety Gear:** The technician must wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
3. **System Check:** Verify the car's A/C system is designed for HFC-134a. Inspect the system for any visible leaks or damage.
4. **Connect Equipment:** Connect the appropriate manifold gauge set and vacuum pump to the vehicle's A/C service ports.

4. OPERATING INSTRUCTIONS (REFRIGERANT CHARGING)

Refrigerant charging is a precise process that should only be carried out by a certified professional to ensure safety and proper system function.

1. **Evacuate System:** The A/C system must be thoroughly evacuated using a vacuum pump to remove all air and moisture. This step is critical for system performance and longevity.
2. **Connect Refrigerant Can:** Connect the HFC-134a refrigerant can to the manifold gauge set.
3. **Charge System:** Following the vehicle manufacturer's specifications for refrigerant quantity, slowly introduce the HFC-134a into the low-pressure side of the A/C system. Monitor pressures carefully.
4. **Leak Detection:** After charging, perform a leak test using appropriate leak detection methods to ensure there are no refrigerant leaks.
5. **System Performance Check:** Start the vehicle and test the A/C system's cooling performance.

5. MAINTENANCE

Regular maintenance of your car's air conditioning system, performed by qualified technicians, can extend its lifespan and ensure optimal performance.

- **Periodic Checks:** Have your A/C system checked annually for proper refrigerant levels and overall system health.
- **Leak Prevention:** Address any suspected leaks immediately to prevent refrigerant loss and potential environmental impact.
- **Component Inspection:** Technicians should inspect hoses, seals, and other components for wear and tear.

6. TROUBLESHOOTING

If your car's air conditioning system is not performing as expected after refrigerant charging, consider the following common issues. All diagnostic and repair work should be performed by a certified technician.

Problem	Possible Cause	Solution (Professional Action)
A/C not cooling sufficiently	Low refrigerant charge, system leak, compressor issue, clogged condenser.	Diagnose and repair leaks, recharge to correct specifications, inspect/replace faulty components.
Unusual noises from A/C	Compressor malfunction, loose belt, foreign object in system.	Inspect and repair/replace noisy components.
A/C blows warm air intermittently	Overcharged system, faulty pressure switch, electrical issue.	Verify correct charge, test electrical components, replace faulty sensors.

Note: Attempting to diagnose or repair complex A/C system issues without proper training and equipment can be dangerous and may cause further damage.

7. SPECIFICATIONS

Brand	Daikin
Model Name	HFC-134a
Product Model Number	HFC-134a
Refrigerant Type	1,1,1,2-Tetrafluoroethane (HFC-134a)
Contents per Can	200g
Total Cans per Set	30 cans
Total Product Weight	8.87 Kilograms
Package Dimensions (L x W x H)	42.7 x 33.9 x 12.5 cm

Composition (CH₂FCF₃) Purity	99.7% or more
Acid Content	0.0001% or less

8. WARRANTY AND SUPPORT

For any questions regarding product warranty, technical support, or service, please contact Daikin customer service or visit the official Daikin website. Please have your product model number (HFC-134a) and purchase details ready when contacting support.

Daikin Industries, Ltd.

Chemicals Division

Osaka, Japan

Note: Specific warranty terms may vary by region and retailer. Please refer to your purchase documentation for details.