



# AIRFLOW & ZONE CONTROLS

## CAR-II

### Constant Airflow Regulators

INSTALLATION  
OPERATION  
MAINTENANCE

## READ AND SAVE THESE INSTRUCTIONS

### PRINCIPLE OF OPERATION

The CAR-II is an airflow control device that automatically responds to changes in duct pressure in order to regulate airflow at a constant rate. A damper mechanism within each CAR-II controls the net free area through the device in order to maintain constant velocity and net airflow rates.

### INSTALLATION

The round CAR-II is designed for installation in rigid ducts, duct collars, or register boxes without the use of screws or any other mechanical fixing device. The perimeter gasket provides a seal to grip the interior of the duct in which the unit is installed. It may be installed in vertical or horizontal ducting. When installed in

horizontal ducting, the CAR-II must be installed with the base downward.

The CAR-II should be installed in accordance with all applicable building and mechanical codes. If installed in a metal duct or duct collar with a flexible duct connector (listed to UL 181), the CAR-II must be inserted at least 1.2 times the duct diameter from the flexible duct and/or duct connector. See Figure 1.

The CAR-II should always be installed so as to be accessible for inspection and removal, if necessary. To prevent potential damage and/or loss of operation, avoid the use of screws, rivets, or other mechanical fasteners in the specific area of duct where the CAR-II is

installed. Also protect the CAR-II from construction/gypsum board duct before and after installation.

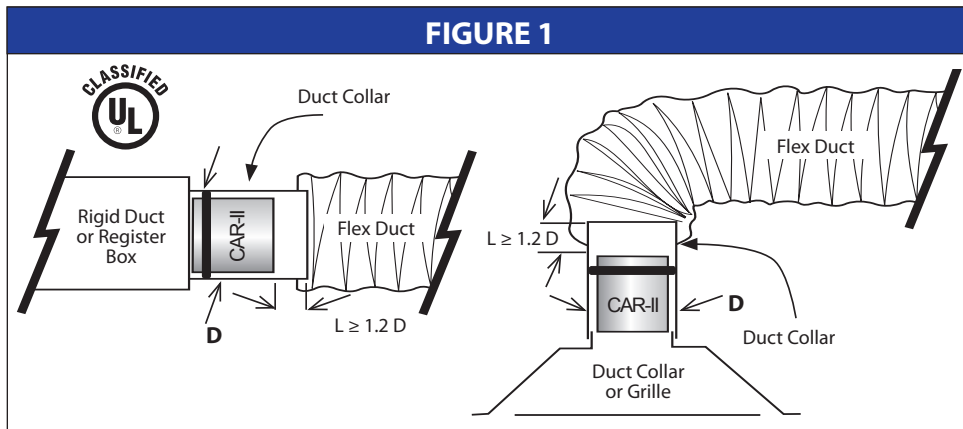
### MAINTENANCE

The CAR-II needs no maintenance when used in normal conditions. There is no risk of dust deposit or obstruction because the CAR-II has no airways subject to clogging. If the intended application includes air heavily loaded with grease or dust, a fitting with an access panel or door, such as that used for flame dampers, should be provided.

### ADJUSTMENT OF AIRFLOWS

The CAR-II is provided with factory-preset airflows. If it is necessary to make adjustment to the calibrated airflow value, contact the factory for assistance.

TROUBLESHOOTING		
PROBLEM	CAUSE	SOLUTION
<b>AIRFLOW TOO LOW</b>	Insufficient duct pressure	Check fan ratings. Replace fan if too small.
		Increase fan speed
	Excessive duct air leakage	Seal ducts with mastic or tape
	Incorrect CAR-II installed	Check CFM calibration on CAR-II label. Replace with proper CAR-II.
	CAR-II damper not functioning properly	Check CAR-II for damage and replace.
<b>AIRFLOW TOO HIGH AND/OR NOISY OPERATION</b>	CAR-II too close to fan	Add manual damper to reduce pressure across CAR-II to normal operating range.
	Fan at too high a speed	Lower fan speed.
	Incorrect CAR-II installed	Check CFM calibration on CAR-II label. Replace with proper CAR-II.
	CAR-II damper not functioning properly	Check CAR-II for damage and replace.



**WARRANTY**

American ALDES Ventilation Corporation warrants the CAR-II to be free from manufacturing defects and guarantees the performance within specified limits for a period of five (5) years when installed in normal environmental air systems for general residential and commercial heating, ventilating and air conditioning. This warranty does not include installation in industrial applications or caustic, noxious, or otherwise hazardous air-handling equipment. This warranty is limited to replacement of the product only and does not extend to consequential claims.

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