



INSTALLATION AND MAINTENANCE INSTRUCTIONS

eFlow-Constant Airflow Regulator (CAR)

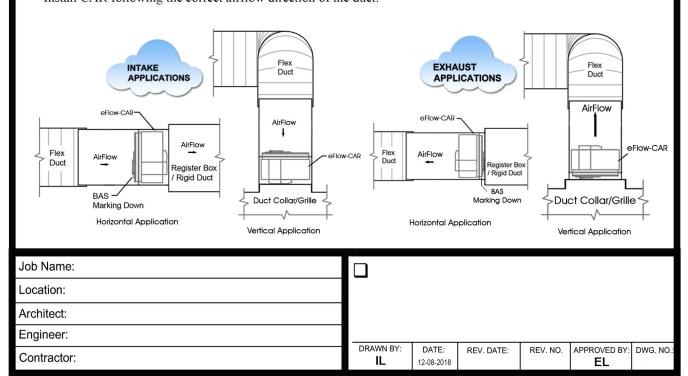
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Use and Operations:

The eFlow-Constant Airflow Regulator is a device that automatically regulates airflow in duct systems to constant levels. eFlow-CAR responds automatically to duct pressure changes to regulate airflow in supply or exhaust applications. The eFlow-CAR adjusts the amount of free area therefore controlling constant velocity and airflow. The passive control element responds to duct pressure and requires no electric or pneumatic sensors or controls. Airflow adjustment range is controlled with a bit Torx T10. eFlow-CAR is a low-cost solution to balancing forced-air systems for heating, air conditioning and ventilation, eliminating the need for in-site balancing.

Installation:

- eFlow-CAR may be installed either in horizontal or vertical round duct. If installed horizontally, the BAS marking must face downward.
- Device to be installed in registered boxes, rigid ducts, or duct collars through a friction fit caused by the rubber gasket. The gasket also creates an air seal. DO NOT USE FASTENERS TO INSTALL THIS PRODUCT.
- If installed in the intake position, the CAR must be set back at least three times the duct diameter from intake grills. The CAR must also be set back at least three times the duct diameter from duct connections duct bends, or other places with turbulent air.
- If installed in an exhaust position, the CAR must be set back at least the distance of the duct diameter from exhaust grilles. The CAR must also be set back the distance of the duct diameter from duct connections, duct bends, or other places with turbulent air.
- Install with future access for removal or inspection.
- Avoid using fasteners in the duct where the CAR is placed to prevent ineffective operation and damage.
- Avoid contact between the CAR and gypsum board duct.
- Install in accordance with necessary mechanical and building codes.
- Install CAR following the correct airflow direction of the duct.







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Maintenance:

eFlow-CAR requires no maintenance when used in normal conditions. However, if the device is installed in filterless exhaust application, maintaining access for future cleaning and inspection is recommended. To clean the CAR, remove CAR, wash it with soap and warm water, dry the CAR, and reinstall the product.

Adjustments:

eFlow-CAR's have an airflow adjustment range, controlled with a bit Torx T10. To change the airflow rate, unscrew the set screw and slide the CAR section of the regulator up or down. Move up to decrease airflow rate. Move down to increase airflow rate.

Airflow Adjustment

MOVE UP TO DECREASE AIRFLOW

Issues and Solutions:

If Airflow is too low:

- Wrong eFlow-CAR installed; check CFM requirements against CAR label, replace or adjust airflow rate if necessary.
- CAR operating incorrectly; check CAR for damage and replace if necessary.
- Duct pressure too low; increase fan speed or replace fan if necessary.
- Duct air leakage too high; seal any gaps with tape.

If Airflow or Noise is too high:

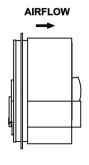
- Wrong eFlow-CAR installed; check CFM requirements against CAR label, replace or adjust airflow rate if necessary.
- CAR operating incorrectly; check CAR for damage and replace if necessary.
- Duct pressure too high; decrease fan speed or replace fan if necessary.
- CAR too close to fan; separate the two with manual damper to lower pressure through eFlow-CAR, or move CAR further away from fan.



MOVE DOWN TO INCREASE AIRFLOW



FRONT VIEW



SIDE VIEW

Job Name:						
Location:						
Architect:						
Engineer:						
Contractor:	DRAWN BY:	DATE: 12-08-2018	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:





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ATTENTION: eFlow-CAR Reference points are indicated in Cubic Meter/ Hour measure (CMH) To set desired Cubic Foot/Minute (CFM) setpoint, please refer to conversion chart below. Cubic Foot/Minute (CFM) -Cubic Meter/Hour (CMH) **Conversion Chart** eFlow-CAR 3" eFlow-CAR 8" eFlow-CAR 10" eFlow-CAR 4" eFlow-CAR 5" eFlow-CAR 6" CFM CMH CFM CMH СЕМ СМН CFM CMH CFM СМН CFM СМН Note: 1 CMH=0.588578 CFM, 1 CFM=1.699011 CMH Job Name: Location: Architect: Engineer: DRAWN BY: DATE: APPROVED BY DWG. NO. REV. DATE: REV. NO. Contractor: IL 12-08-2018 EL