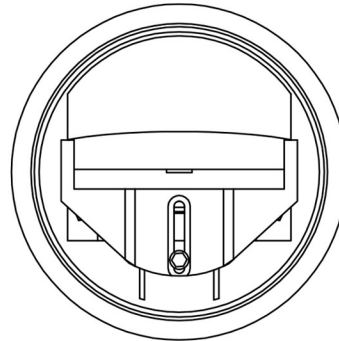


## SUBMITTAL DATA

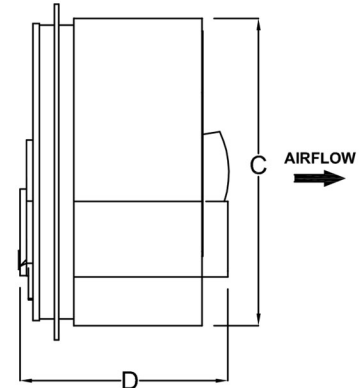
eFlow-Constant Airflow Regulator (CAR)

### Application and Design

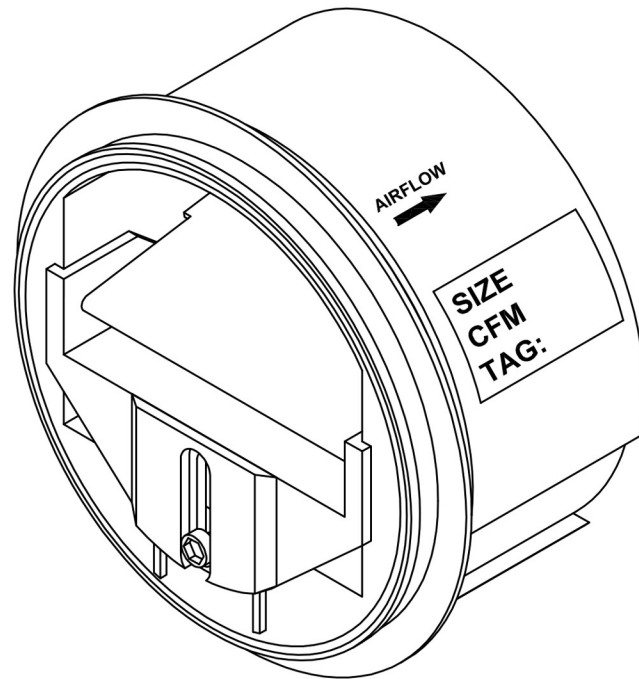
eFlow-CAR is factory set Constant Airflow Regulator designed to save significant amount of energy and money by precisely controlling airflow into or out of space, regardless of static pressure, and all along providing high Indoor Air Quality (IAQ). eFlow CAR is composed of fire resistant ABS plastic. It contains a self regulating aero-wing and spring piston design to maintain a factory preset air flow. These CAR's are designed to operate in pressure range Low Pressure (.08"-4" w.c. ), Standard Pressure (0.2"-1" w.c) and High Pressure (0.6"-2.4" w.c). They automatically adjust for variable duct pressures caused by building pressure, thermal stack effect, dust build up and other variable factors. This Constant Airflow Regulator creates cost effective answer to balancing air systems for HVAC and ventilation in high rise buildings, without the requirement for on-site balancing, electrical/pneumatic controls or sensors. eFlow-CAR may contribute to meeting USGBC LEED Building and Passive House Certification. eFlow CAR requires no maintenance under normal conditions.



FRONT VIEW



SIDE VIEW



### Standard Construction

eFlow-CAR: Classified UL R38307 / UL-2043 for heat release rate and smoke optical density.

Damper (nominal)	C	D
<input type="checkbox"/> 3 (76)	3.0 (76)	2.2 (55)
<input type="checkbox"/> 4 (101.6)	3.8 (96.5)	2.8 (70)
<input type="checkbox"/> 5 (127)	4.8 (121.9)	3.4 (86)
<input type="checkbox"/> 6 (152.4)	5.8 (147.2)	3.6 (91)
<input type="checkbox"/> 8 (203.2)	7.7 (195)	3.6 (91)
<input type="checkbox"/> 10 (254)	9.6 (245)	4.7 (120)

\*\*Size in inches(millimeters)

<input type="checkbox"/> Low Pressure Range of Operation Static Pressure	<input type="checkbox"/> Standard Pressure Range of Operation Static Pressure	<input type="checkbox"/> High Pressure Range of Operation Static Pressure
Minimum .08" w.c.	Minimum 0.2" w.c.	Minimum 0.6" w.c.
Maximum 0.4" w.c.	Maximum 1.0" w.c.	Maximum 2.4" w.c.

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Architect: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

eFlow-Constant Airflow Regulator(CAR) (Supply, Exhaust)

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**SUBMITTAL DATA**  
eFlow-Constant Airflow Regulator (CAR)

**eFlow-Constant Airflow Regular CFM Range**

Available in Standard Pressure (0.2" w.c.-1.0" w.c.)						
	CAR Diameter	CAR Diameter	CAR Diameter	CAR Diameter	CAR Diameter	CAR Diameter
eFlow-CAR	3"	4"	5"	6"	8"	10"
CFM Range	10-30 CFM	10-30 CFM	10-30 CFM	10-30 CFM	10-30 CFM	10-30 CFM
CFM Range		30-60 CFM	30-60 CFM	30-60 CFM	30-60 CFM	30-60 CFM
CFM Range			60-105 CFM	60-105 CFM	60-105 CFM	60-105 CFM
CFM Range				105-175 CFM	105-175 CFM	105-175 CFM
CFM Range					175-295 CFM	175-295 CFM
CFM Range						265-470 CFM
**blue highlighted CFM Range = standard			***yellow highlighted CFM Range = can be accomidated by special order			

Special Configuration Available in High Pressure (0.6" w.c.-2.4" w.c.)						
	CAR Diameter	CAR Diameter	CAR Diameter	CAR Diameter	CAR Diameter	CAR Diameter
eFlow-CAR	3"	4"	5"	6"	8"	10"
CFM Range	15-53 CFM	15-53 CFM	15-53 CFM	15-53 CFM	15-53 CFM	15-53 CFM
CFM Range		53-100 CFM	53-100 CFM	53-100 CFM	53-100 CFM	53-100 CFM
CFM Range			105- 176 CFM	105- 176 CFM	105- 176 CFM	105- 176 CFM
CFM Range				176-295 CFM	176-295 CFM	176-295 CFM
CFM Range					295-500 CFM	295-500 CFM
CFM Range						500-765 CFM
**blue highlighted CFM Range = standard			***yellow highlighted CFM Range = can be accomidated by special order			

Special Configuration Available in Low Pressure (0.08" w.c.- 0.4" w.c.)						
	CAR Diameter	CAR Diameter	CAR Diameter			
eFlow-CAR	3"	4"	5"	6"	8"	10"
CFM Range	5-18 CFM	5-18 CFM	5-18 CFM	5-18 CFM	5-18 CFM	5-18 CFM
CFM Range		18-35 CFM	18-35 CFM	18-35 CFM	18-35 CFM	18-35 CFM
CFM Range			35-70 CFM	35-70 CFM	35-70 CFM	35-70 CFM
**blue highlighted CFM Range = standard			***yellow highlighted CFM Range = can be accomidated by special order			

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Architect: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

eFlow-Constant Airflow Regulator(CAR)  
(Supply, Exhaust)

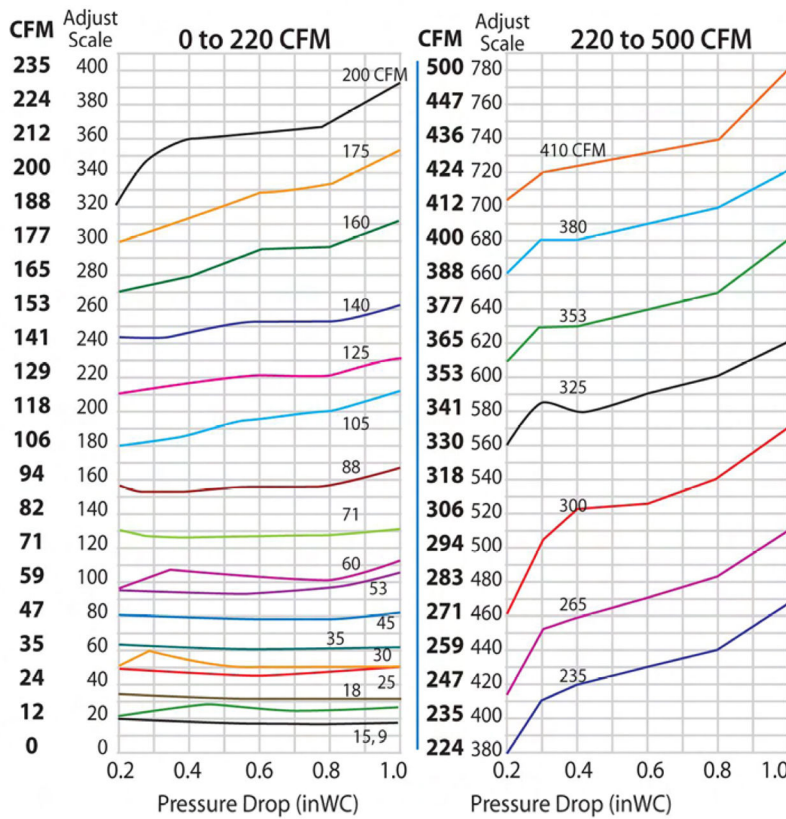
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## SUBMITTAL DATA

eFlow-Constant Airflow Regulator (CAR)

The performance charts reflect airflow measurements taken at 68 degree F (20 degree C) at 1 atmosphere pressure. eFlow-CAR is designed for system pressure between 0.2" w.c. (50 Pa) to 1" w.c. (250 Pa). The charts show the approximate constant volume air flow through the CAR at a given pressure differential. As shown if the pressure across the CAR falls below 0.2 w.c. (50 Pa) then the airflow volume will be reduced. Likewise if the pressure across the CAR increases to over 1" w.c. (250 Pa), then the airflow volume will be increased. Please note that these CAR's are factory set to the specific airflow. They can be field modified to desired airflow with the help of a standard screwdriver. The graphs shown are averages and can vary by 5%.

### Standard Pressure eFlow-CAR Performance Curves Volume (cfm) vs Static Pressure



Flow m <sup>3</sup> /h	L <sub>w</sub> in dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44
120	30	34	39	42
150	33	37	41	45
180	34	40	44	47
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45
350	35	40	44	47
400	37	42	45	50
450	38	44	46	51
500	39	46	48	53

\*\*\* 1w.c. = 250Pa

Job Name: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Architect: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Contractor: \_\_\_\_\_

eFlow-Constant Airflow Regulator(CAR)  
(Supply, Exhaust)

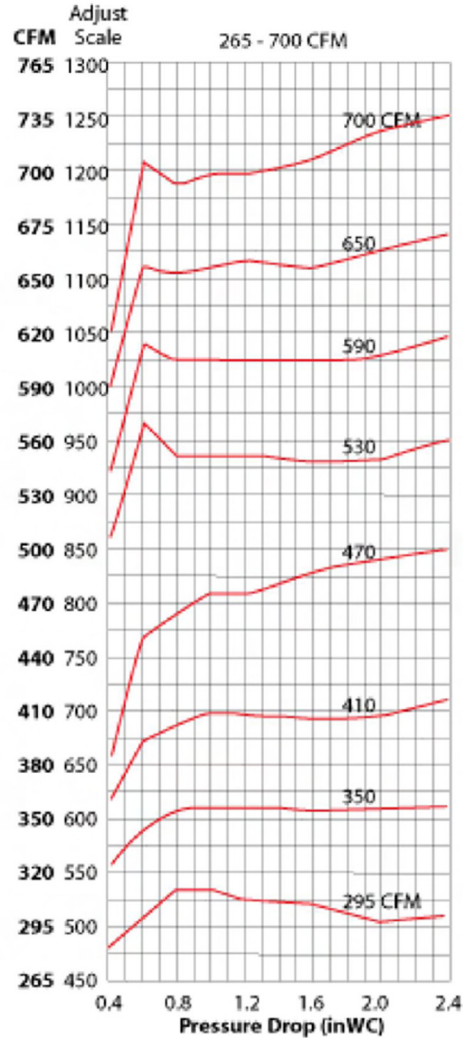
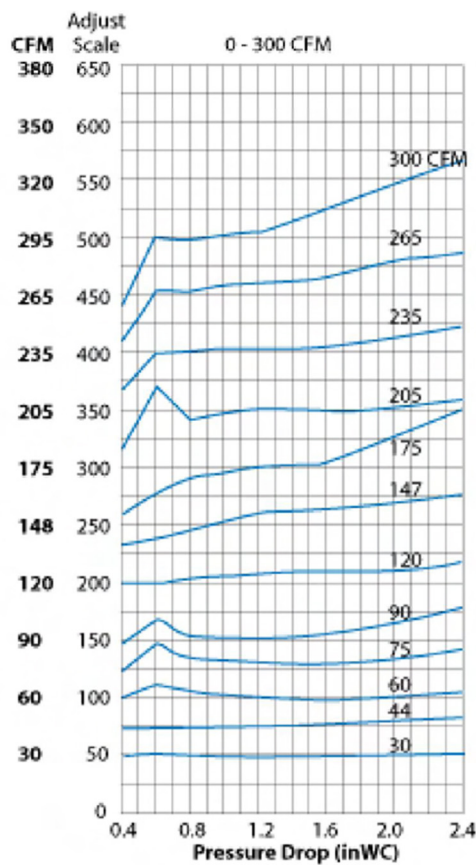
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**SUBMITTAL DATA**  
eFlow-Constant Airflow Regulator (CAR)

The performance charts reflect airflow measurements taken at 68 degree F (20 degree C) at 1 atmosphere pressure. eFlow-CAR is designed for system pressure between 0.6" w.c. (150 Pa) to 2.4" w.c. (600 Pa). The charts show the approximate constant volume air flow through the CAR at a given pressure differential. As shown if the pressure across the CAR falls below 0.6 w.c. (150 Pa) then the airflow volume will be reduced. Likewise if the pressure across the CAR increases to over 2.4" w.c. (600 Pa), then the airflow volume will be increased. Please note that these CAR's are factory set to the specific airflow. They can be field modified to desired airflow with the help of a standard screwdriver. The graphs shown are averages and can vary by 5%

**High Pressure eFlow-CAR Performance Curves**  
Volume (cfm) vs Static Pressure



Job Name: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Architect: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Contractor: \_\_\_\_\_

eFlow-Constant Airflow Regulator(CAR)  
(Supply, Exhaust)

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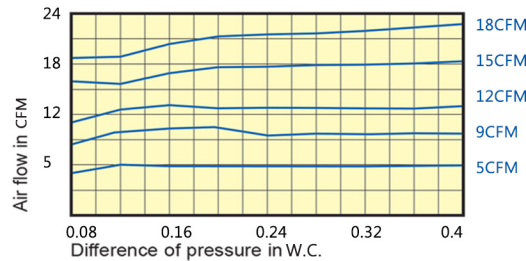


**SUBMITTAL DATA**  
eFlow-Constant Airflow Regulator (CAR)

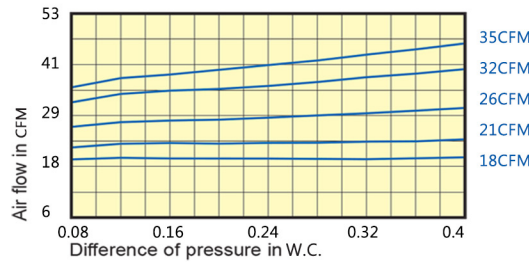
The performance charts reflect airflow measurements taken at 68 degree F (20 degree C) at 1 atmosphere pressure. eFlow-CAR is designed for system pressure between 0.08" w.c-0.4" w.c. The charts show the approximate constant volume air flow through the CAR at a given pressure differential. As shown if the pressure across the CAR falls below 0.08 w.c. (20 Pa) then the airflow volume will be reduced. Likewise if the pressure across the CAR increases to over 0.4" w.c. ( 100 Pa), then the airflow volume will be increased. Please note that these CAR's are factory set to the specific airflow. They can be field modified to desired airflow with the help of a standard screwdriver. The graphs shown are averages and can vary by 5%.

**Low Pressure eFlow-CAR Performance Curves**  
Volume (cfm) vs Static Pressure

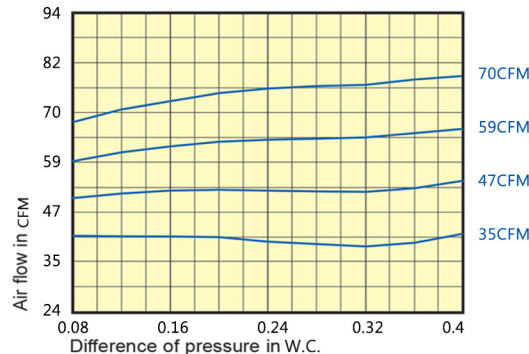
eFlow-CAR LOW Pressure(LP) 3"/4"/5" 5 - 18CFM



eFlow-CAR LOW Pressure(LP) 4"/5" 18 - 35CFM



eFlow-CAR LOW Pressure(LP) 5" 35 - 70CFM



Job Name:
Location:
Architect:
Engineer:
Contractor:

eFlow-Constant Airflow Regulator(CAR)  
(Supply, Exhaust)

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