



Systemair Mfg. Inc. certifies that the IV Smart EC series shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

IV Smart EC Series - High Induction Compact Centrifugal Jet Fan.

The lowest profile induction jet fan on the market. The IV Smart EC combines the performance factors including airflow, induction, thrust and throw to more effectively reduce CO levels and achieve a Dilution Ventilation Strategy in the most energy efficient manner.

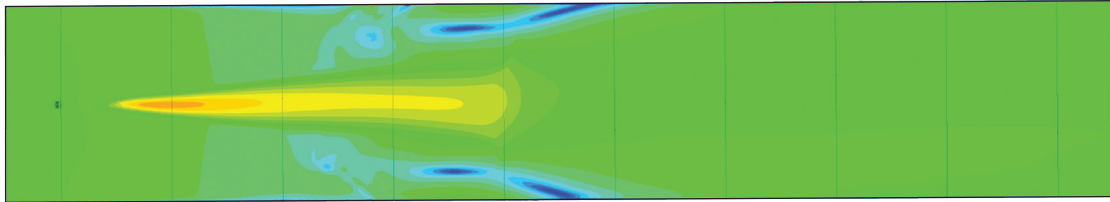
- AMCA Certified**
 Certified and tested in accordance with the ANSI/AMCA 250 Laboratory Methods of Testing Jet Tunnel Fans for Performance and the ANSI/AMCA 300 Reverberant Room Methods for Sound Testing of Fans.
- Standard Control Options or Modbus/BACnet Ready**
 Standard speed control options include PWM, 0-10V, and speed feedback reference. Optional Modbus communication capability provides seamless integration with the Building Automation System. Modbus communication allows for complete control and monitoring of the fan. BACnet communication is available when paired with the Protonode Gateway Accessory (Item# 498173).
- High Performance in a Small Package**
 Produces 11N Thrust, Induction Factor of 28 and Throw distance of 129' (39.5m) at Terminal Velocity 196 fpm (1m/s).
- EC Driven**
 EC motor enables Demand Control Ventilation and reduces energy consumption on average 30%. Allows for soft start and eliminates need for a motor starter & VFD.
- Low Profile Design**
 Height of less than 5.9" and a footprint of 31.5" x 22.4" makes it the industry's most compact Centrifugal High Induction Jet Fan.
- Easy Installation**
 Includes large, easy access electrical box with quick-connect lever terminals and weighing only 45 lbs, makes installation quick, easy and safe.



COMPUTATIONAL FLUID DYNAMICS ANALYSIS



Contour plot of Velocity magnitude (ft/min) at center of the Garage in vertical Plane



Contour plot of Velocity magnitude (ft/min) at 1.5 meter Height from Ground of Garage in Horizontal Plane



TECHNICAL & ACOUSTICAL DATA

		IV Smart EC
Voltage	V	208-240
Frequency	Hz	50/60
Amperage	FLA	2.75
Input power	W	360
RPM	RPM	2500
Max. airflow (variable)	CFM	1482
Thrust	N	11
Thrust/Fan input power	N/kW	30.31
Motor insulation class		Class B
Ambient temperature rating		140°F / 60°C
Weight	lbs	45

Octave Bands Sound Power Levels, Lw(dB)^							
63	125	250	500	1000	2000	4000	8000
64	73	80	75	75	77	72	71

Total Sound*
dB(A) LpA@10'
64

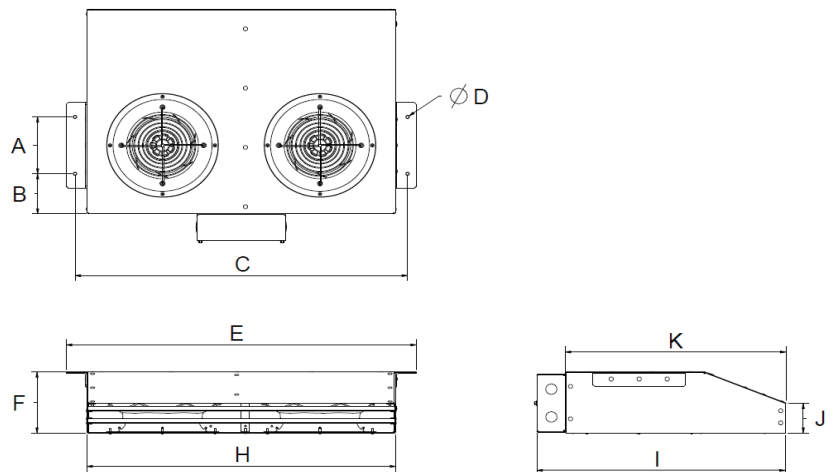
^Values shown are for sound power levels (Lw) for installation Type A: free inlet, free outlet. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA Standard 301. *The sound pressure values (LpA) shown are based on a hemispherical free field at 3.0 m (10 ft). dB(A) levels are not licensed by AMCA international.

PROTONODE ACCESSORY



- Seamlessly connect up to 32 devices into BMS networks, including BACnet.
- Integrated SMC Cloud support enables remote monitoring, control and data visualization.
- Users can view data via a configurable dashboard, download historical data and provide remote monitor/control for any connected device.
- Notification functions allow SMS/email for trouble or alarm conditions.
- On-board diagnostics allow easy troubleshooting for both serial and Ethernet communications.
- Item# 498173.

DIMENSIONS



	A	B	C	øD	E
IV Smart EC	5.5 (140)	3.9 (99)	29.9 (760)	0.31 (8)	31.5 (800)

F	H	I	J	K
5.9 (150)	27.8 (706)	22.4 (568)	2.9 (73)	19.9 (505)

Dimensions are in inches (mm)