

INTRODUCTION

Cook power roof and wall ventilators provide maximum performance and durability in a wide variety of commercial and industrial air moving applications. Exhaust applications include general ventilation, fume-hood, paint booth and smoke control systems.

- AC unit top cap assembly is designed to provide weather protection for the motor and drive components while maintaining easy, tool free access for inspection and maintenance.
- Standard lifting lugs, located under the top cap, provide for safe, fast and efficient lifting of the unit to a rooftop.
- One piece fan base, which includes a high-efficiency inlet venturi and continuously welded curb cap corners, insures weathertight conditions.
- Spun aluminum baffle is designed to provide smooth, turbulent-free airflow.
- Wheels are centrifugal type featuring non-overloading, backward-inclined blades and a tapered inlet shroud.
- Accurate performance is assured through compliance with the AMCA Certified Ratings Program. All units are licensed to bear the AMCA Certified Ratings Seal for Air and Sound Performance.

ACE

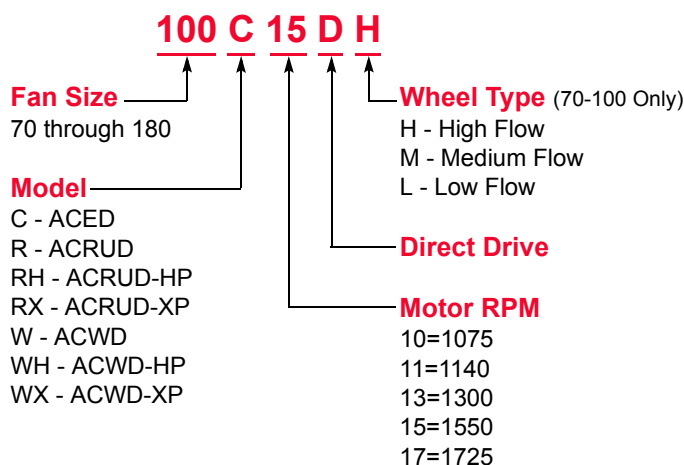
Downblast Centrifugal Exhaust Ventilator



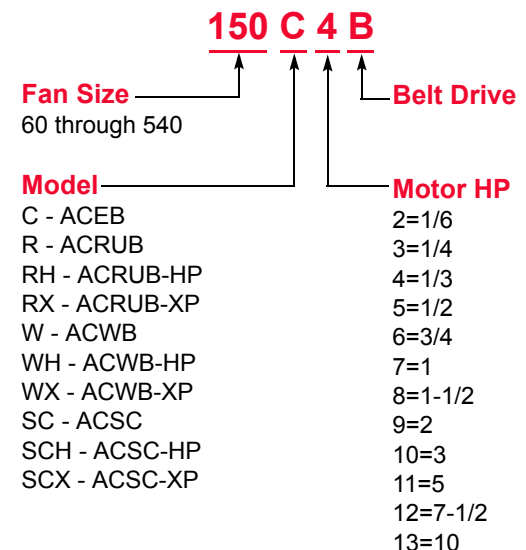
- Typically used in roof mounted clean-air exhaust applications.
- ACE available in 8 direct drive sizes and 21 belt drive sizes. Capacities range from 100 to 32,300 CFM, with static pressures from 0 to 1-1/2 inches.

Model Number Chart

Direct Drive Models



Belt Drive Models



Downblast Centrifugal Exhaust Ventilator Roof Mounted Direct Drive

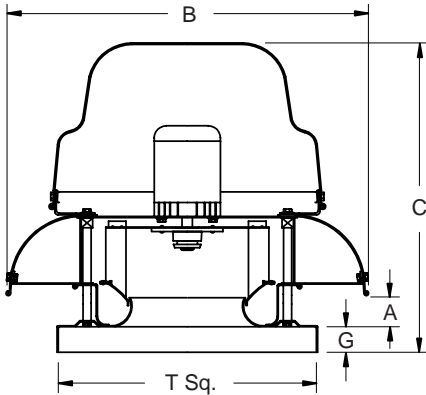


Loren Cook Company certifies that the ACED shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

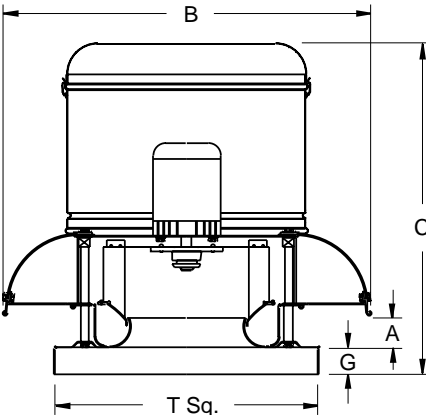


Type ACED is furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

Sizes 70 - 100



Sizes 120 - 180



Description - Fan shall be a spun aluminum, roof mounted, direct driven, downblast centrifugal exhaust ventilator.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction - Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. The discharge baffle shall have a rolled bead for added strength. An integral conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections. The motor shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.

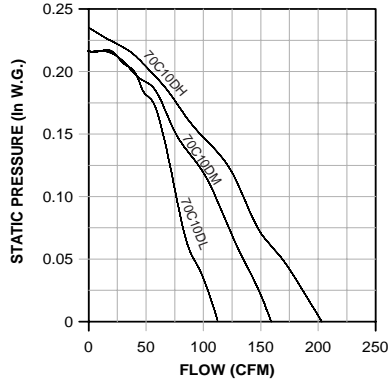
Product - Fan shall be model ACED as manufactured by Loren Cook Company of Springfield, Missouri.

ACED Dimension Data

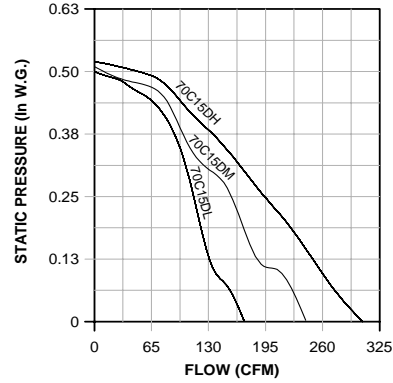
Size	A	B	C	G	T Sq.	Roof Opening Square*	Ship. Wt.
70	1-3/4	13-5/8	13-13/16	2	18	13-1/2	20
90	2-1/2	18-3/4	16-13/16	2	18	13-1/2	28
100	2-1/2	18-3/4	16-13/16	2	18	13-1/2	30
120	1-7/16	28-7/16	26-9/16	2	20	15-1/2	67
135	1-15/16	28-7/16	27-1/16	2	20	15-1/2	72
150	2-13/16	32-7/8	28-11/16	2	24	19-1/2	87
165	3-5/16	32-7/8	29-3/16	2	24	19-1/2	90
180	3-5/16	37-11/16	33-15/16	3	30	25-1/2	102

All dimensions in inches. *Roof opening size for curbs supplied by Loren Cook Company only. Weights in pounds.

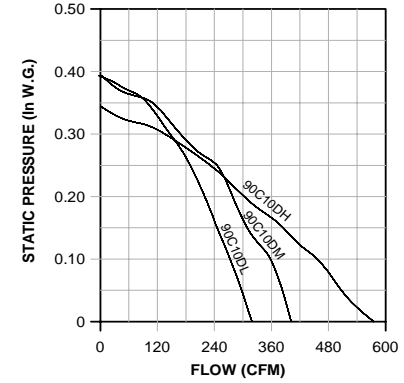
70C10DH, 70C10DM, 70C10DL



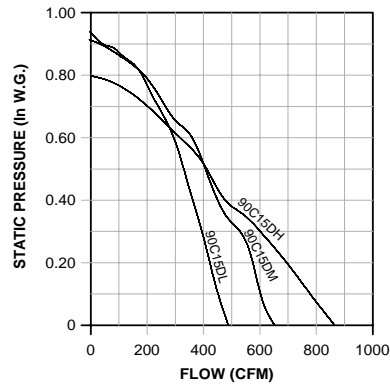
70C15DH, 70C15DM, 70C15DL



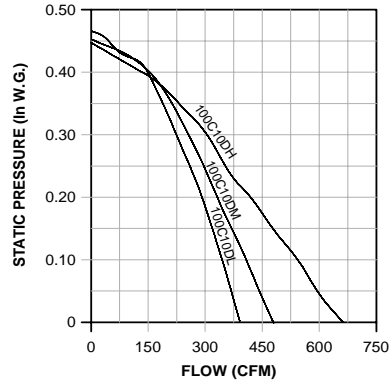
90C10DH, 90C10DM, 90C10DL



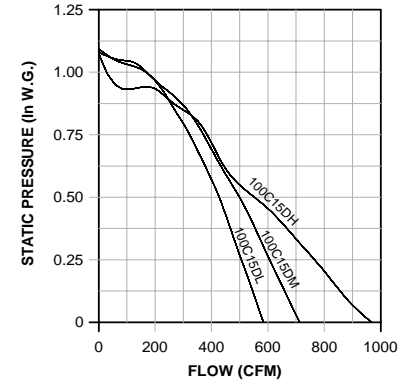
90C15DH, 90C15DM, 90C15DL



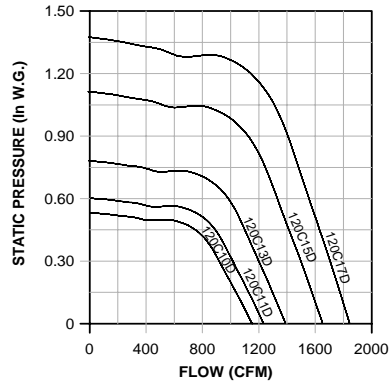
100C10DH, 100C10DM, 100C10DL



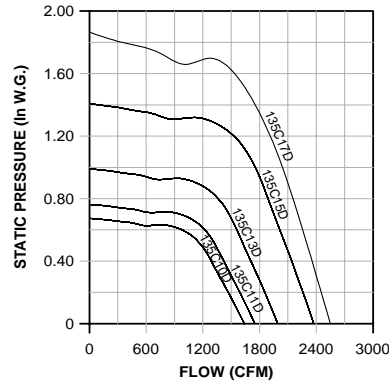
100C15DH, 100C15DM, 100C15DL



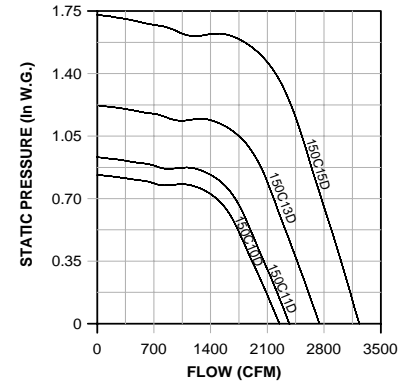
120C10D, 120C11D, 120C13D, 120C15D, 120C17D



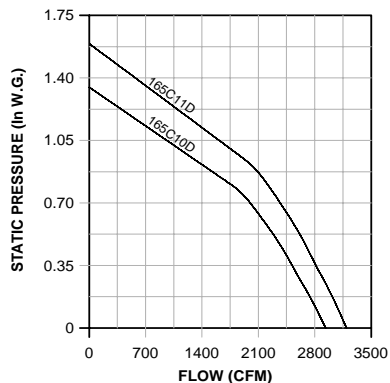
135C10D, 135C11D, 135C13D, 135C15D, 135C17D



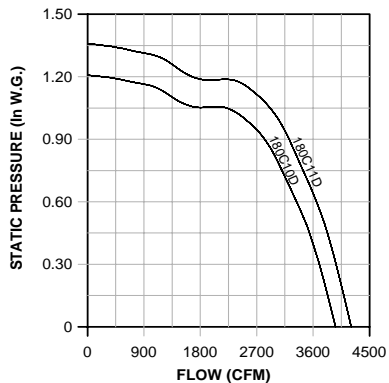
150C10D, 150C11D, 150C13D, 150C15D



165C10D, 165C11D



180C10D, 180C11D



Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories) in the airstream. Speed (RPM) shown for models 70 - 100 and 165 is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

