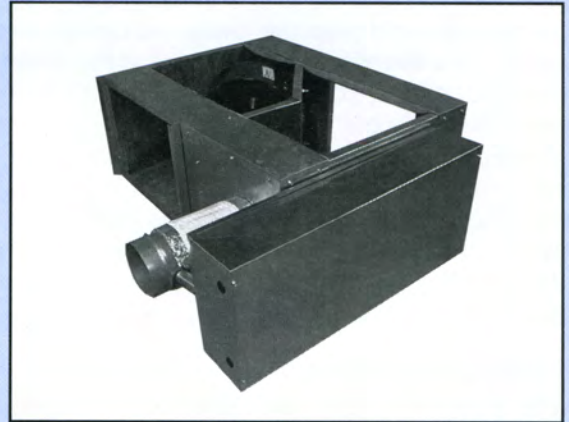


3 FAN TERMINAL UNITS — Intermittent Volume (Parallel Flow)

Models ASF w/o Reheat
ASW w/Hot Water Reheat
ASE w/Electric Reheat

The Carnes intermittent fan terminal unit provides constant air volume to the space for reheat applications while retaining a variable air volume system during normal cooling operation.

The primary air control assembly operates independently as a standard throttling valve for cooling loads. As cooling loads diminish, the secondary air supply fan(s) is energized to induce warm ceiling plenum air. A wide variety of control sequences makes this fan powered unit compatible with the most energy efficient system design.



Other Features Include:

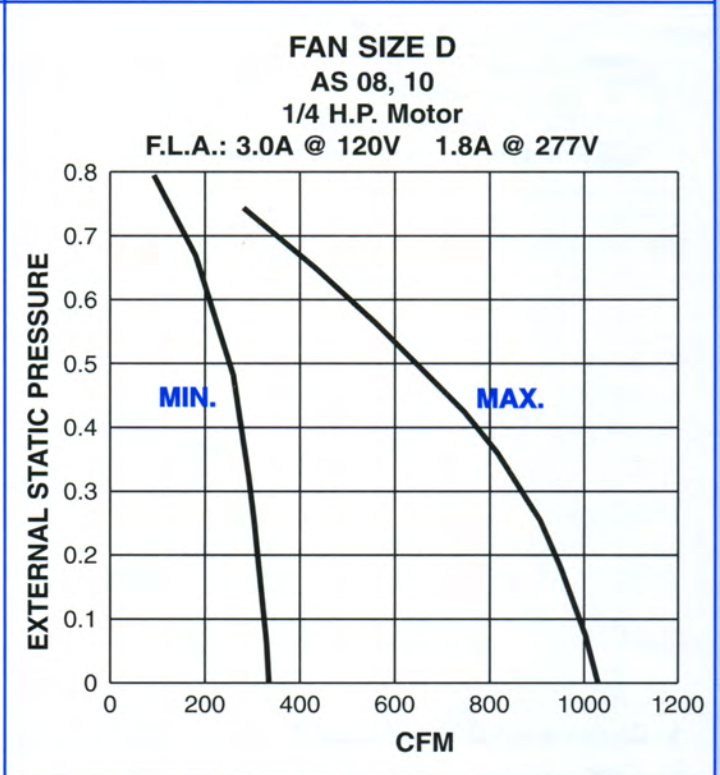
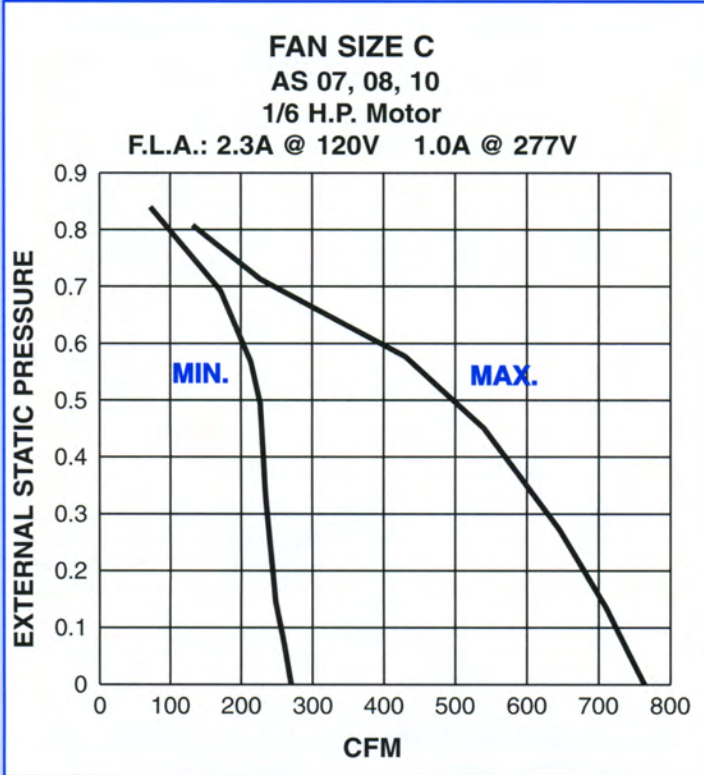
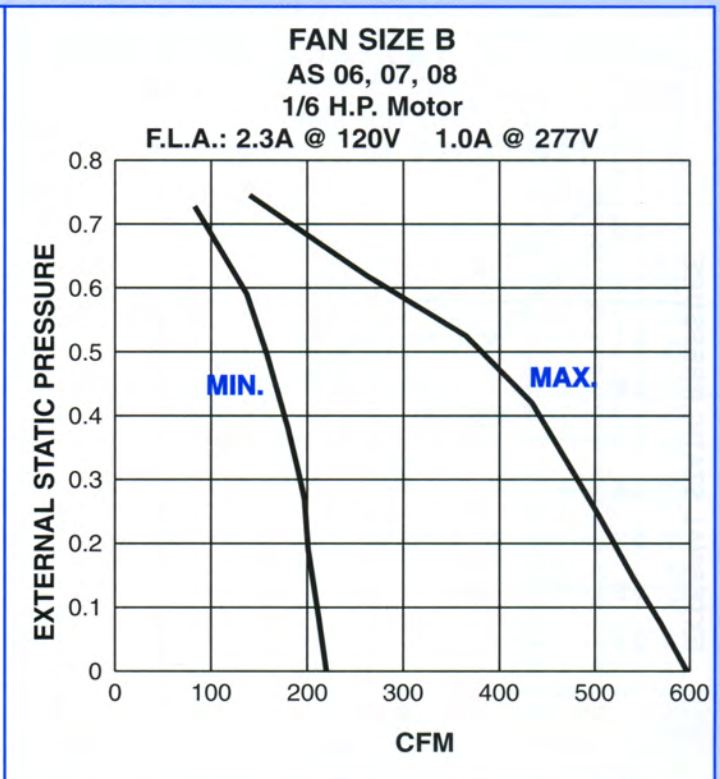
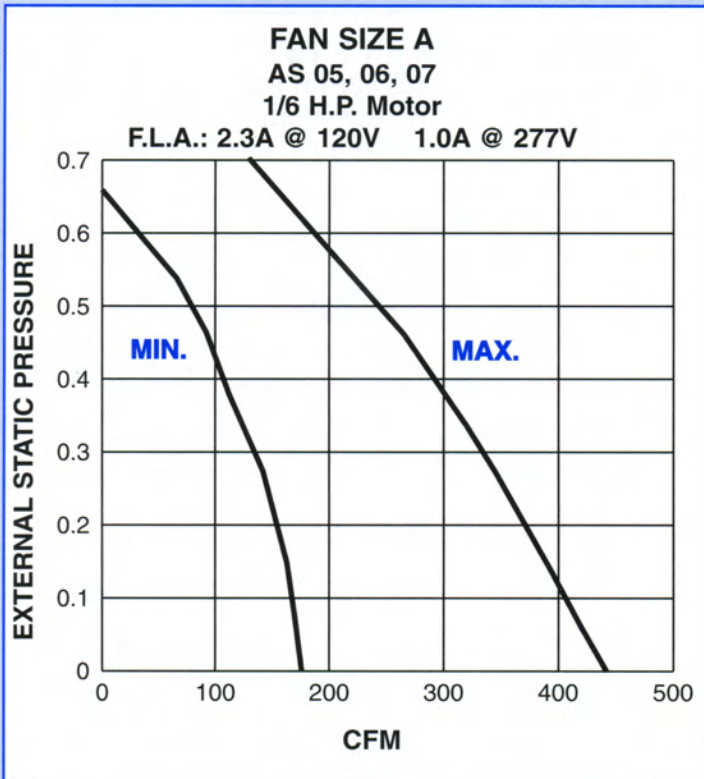
- Seventeen unit/inlet size variations offering air flow capacities to 4200 CFM primary air and 2100 CFM secondary air with low pressure drop and low sound levels.
- Durable 22 gauge galvanized steel casing construction.
- Bottom access panel for internal components.
- Flange or slip and drive discharge connections.
- Forward curved centrifugal type fan assemblies with thermally protected, permanent split capacitor type 115 or 277 volt fractional horsepower motors.
- Fan/motor assemblies are isolated from the casing using rubber isolators to minimize vibration transmission.
- Adjustable SCR fan speed control.
- Field adjustable P/E switch with pneumatic controls.
- Performance data based on tests conducted in accordance with ARI Standard 880-94.
- Averaging type velocity sensor and calibration chart for measuring primary air flow.
- Secondary air filter rack.
- All units equipped with pneumatic or electronic pressure independent controls.
- Insulation is 1" thick, 1-1/2 lb. dual density fiberglass with surface treatment to prevent air erosion. UL listed and meets NFPA 90A requirements.
- Damper controls and fan controls are located in one enclosure.
- Low leakage primary air damper design.
- ARI listed.
- Optional ETL listing.
- Optional secondary air sound baffle. Sound baffle is factory attached to secondary air inlet. (Contact Carnes)
- Optional one or two row hot water coils (Model ASW). Coil is factory attached to primary air discharge.
- Optional electric reheat coils (Model ASE). Coil is factory attached to primary air discharge, or shipped separately for field mounting.
- Optional secondary air filters, Class I (re-usable) and Class II (throw away).
- Optional non-fused or fused fan disconnect switch.
- Optional foil coated insulation (Hospital, Laboratory, etc. applications).

Available Modules:

- Basic control unit — **Model ASF.**
- Basic control unit with hot water coil — **Model ASW.**
- Basic control unit with or without electric coil — **Model ASE.**

FAN CURVES

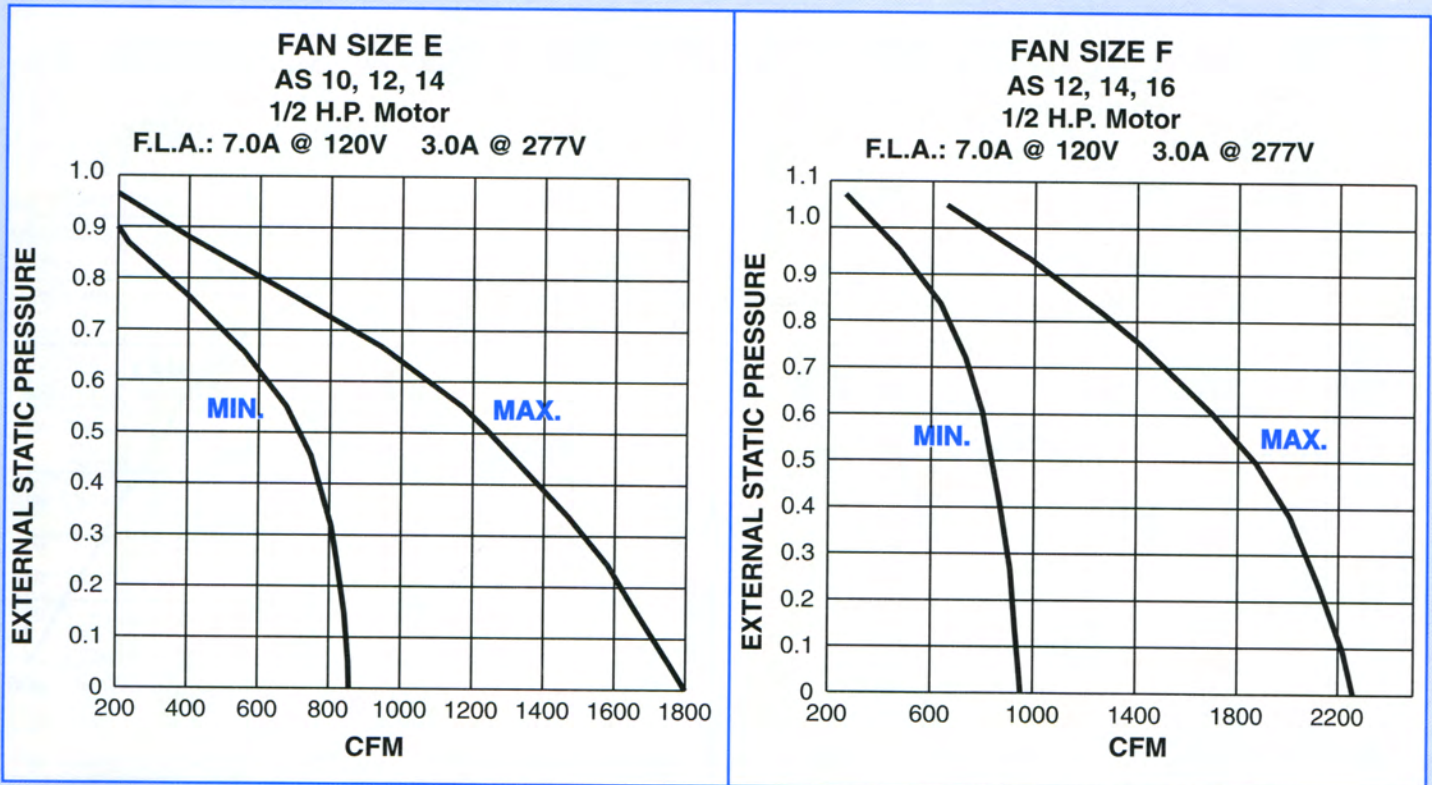
CFM vs EXTERNAL STATIC PRESSURE



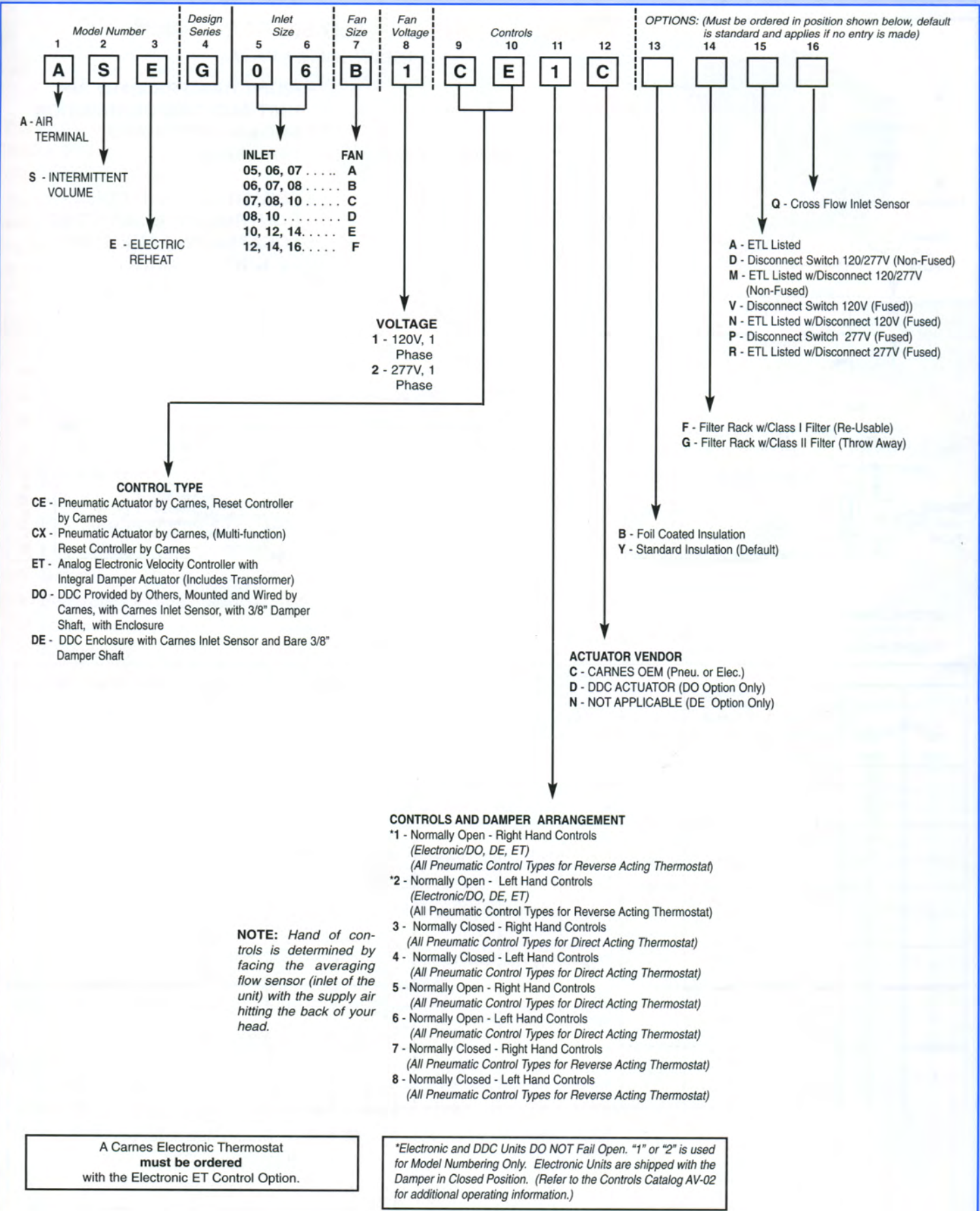
- NOTES:**
1. External static pressure (ESP) consists of downstream ductwork, coils, flex duct, etc.
 2. Pressure drops due to heating coils are treated as external static pressure (Refer to coil sections of this catalog for additional information).
 3. F. L. A. = Full Load Amps of motor.
 4. For proper operation, the downstream ESP must be at least 0.20" W.G.

FAN CURVES

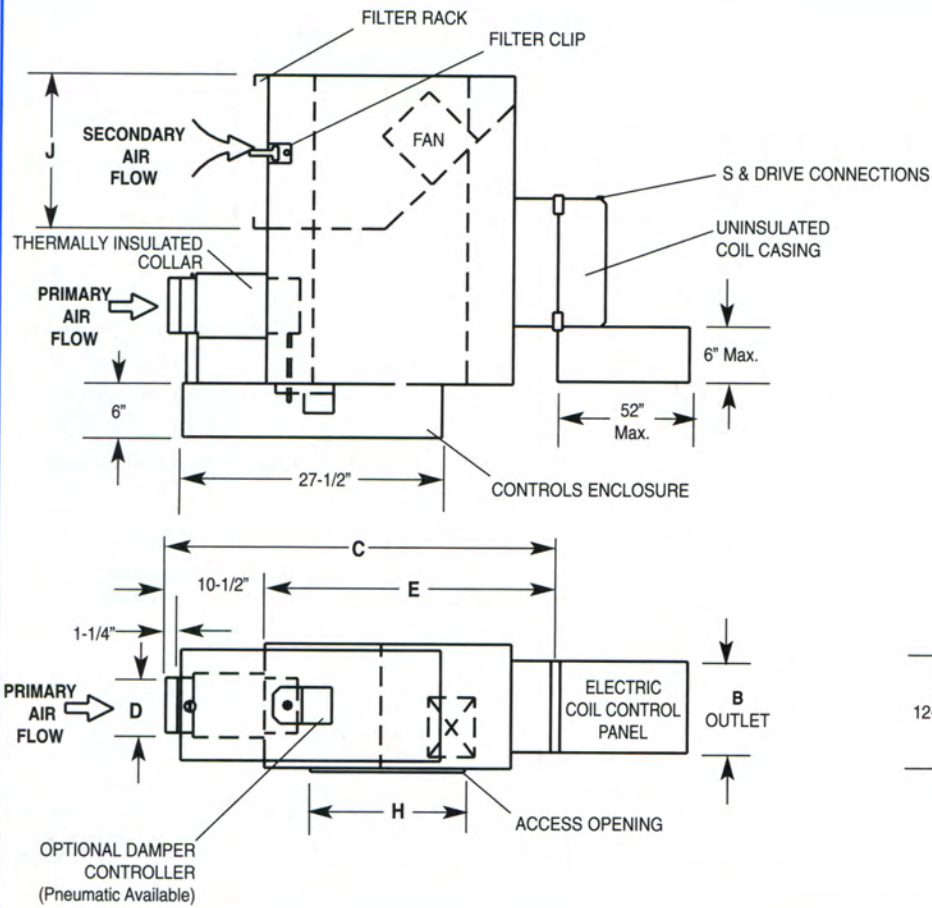
CFM vs EXTERNAL STATIC PRESSURE



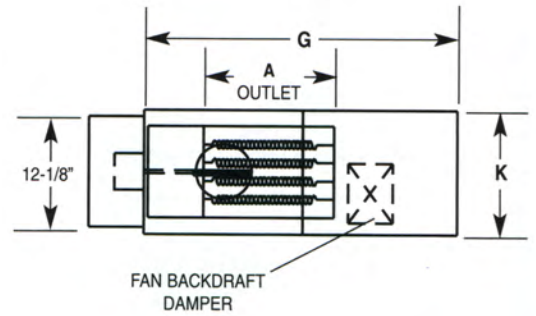
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3 DIMENSIONAL DATA — Model ASE - Electric Reheat - Fan Sizes A Thru F



- RIGHT HAND PRIMARY AIR UNIT AND COIL CONNECTION SHOWN. LEFT HAND AVAILABLE.
- PRIMARY AIR AND COIL CONTROL PANEL MUST BE LOCATED ON SAME SIDE OF UNIT.



DIMENSIONS LISTED IN INCHES

Fan Size	Inlet Size	Primary Nominal CFM	Secondary Nominal CFM @ 25" E.S.P.	Fan H.P.	Outlet		C	D	E	G	H	J	K
					A	B							
A	05	350	300	1/6	14	10	41-7/16	4-7/8	30-15/16	33-3/4	17-13/16	17-1/4	14
	06	500						5-7/8					
	07	700						6-7/8					
B	06	500	450	1/6	14	10	41-7/16	5-7/8	30-15/16	33-3/4	17-13/16	17-1/4	14
	07	700						7-7/8					
	08	1000						6-7/8					
C	07	700	650	1/6	14	10	41-7/16	6-7/8	30-15/16	33-3/4	17-13/16	17-1/4	14
	08	1000						7-7/8					
	10	1500						9-7/8					
D	08	1000	900	1/4	14	12-1/2	41-7/16	7-7/8	30-15/16	33-3/4	17-13/16	17-1/4	14
	10	1500						9-7/8					
E	10	1500	1600	1/2	14	12-1/2	41-7/16	9-7/8	30-15/16	33-3/4	17-13/16	17-1/4	14
	12	2300						11-7/8					
	14	3100						13-7/8					
F	12	2300	2100	1/2	16	15	48-3/4	11-7/8	38-1/4	44	21-1/8	21-1/2	17-1/2
	14	3100						13-7/8					
	16	4200						15-7/8					