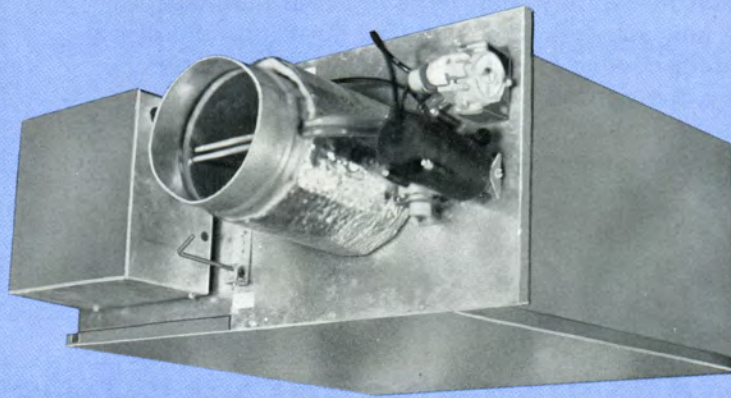


**Models ASFD/ASFF w/o Reheat  
Models ATFD/ATFF w/o Reheat**

**Models ASWD/ASWF w/Hot Water Reheat  
Models ATWD/ATWF w/Hot Water Reheat**

**Models ASFD/ASFF w/Electric Reheat  
Models ATFD/ATFF 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 control 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:*

- Fourteen unit sizes offering air flow capacities to 7300 CFM primary air and 3400 CFM secondary air with low pressure drop and low sound levels.
- Durable 22 gauge galvanized steel casing construction.
- Standard inlet and discharge connections.
- Forward curved centrifugal type fan assemblies with three speed, thermally protected, permanent split capacitor type 115 or 277 volt fractional horsepower motors.
- Field adjustable fan air flow damper (between three speeds).
- Field adjustable P/E switch with pneumatic controls.
- Performance data based on tests conducted in accordance with ADC/ARI Industry Standard 880.
- Averaging type velocity sensor and calibration chart for measuring primary air flow.
- All units equipped with pneumatic or electronic pressure independent controls.
- Insulation is 1" thick, 1½ lb. dual density fiberglass with surface treated to prevent air erosion, UL listed and meets NFPA 90A requirements.
- Low leakage primary air damper design.
- Optional ETL listing (Models ASFF/ATFF/ASWF/ATWF/ASEF/ATEF).
- Optional fan speed selector switch.
- Optional primary air controls enclosure.
- Optional secondary air sound baffle. Sound baffle is factory attached to secondary air inlet.
- Optional one or two row hot water coils (Models ASWD/ASWF and ATWD/ATWF. Coil is factory attached to primary air discharge.
- Optional one, two or three stage electric reheat coils (Models ASFD/ASFF and ATFD/ATFF). 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 fan disconnect switch.
- Optional foil coated insulation (Hospital, Laboratory, etc. applications).

*Available Modules:*

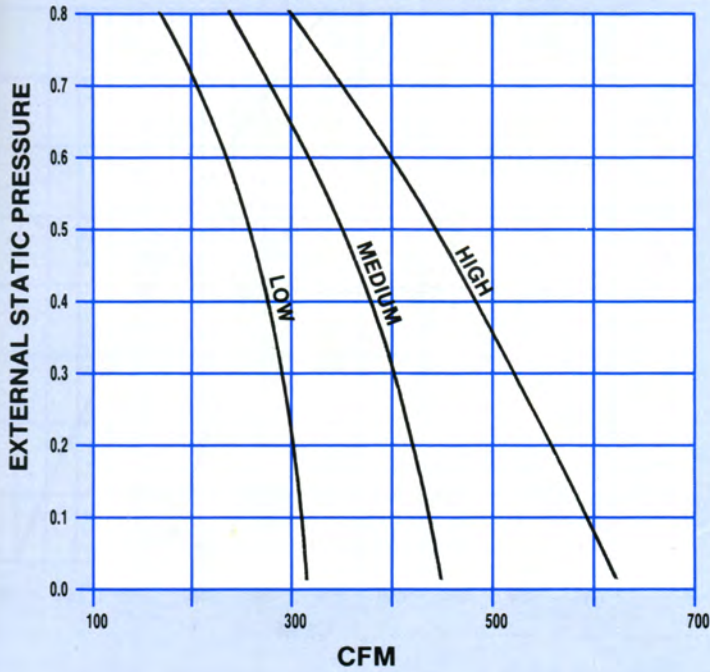
- Basic control unit—Models ASFD/ASFF/ATFD/ATFF.
- Basic control unit with hot water coil—Models ASWD/ASWF/ATWD/ATWF.
- Basic control unit with or without electric coil—Models ASFD/ASFF/ATFD/ATFF.

**FAN CURVES — CFM vs External Static Pressure**

**Models AS 06 & 07 — AT 08 & 10**

1/6 H. P. Motor

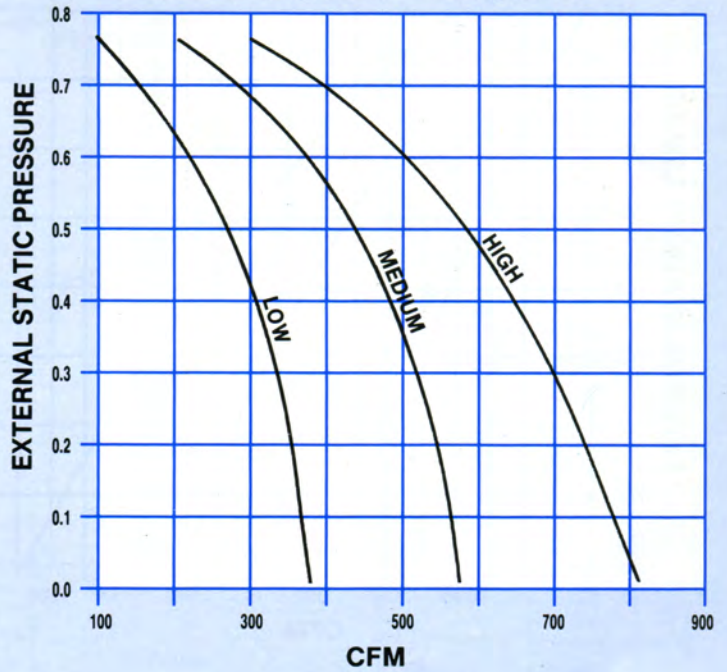
F.L.A.: 2.0A @ 120V 1.0A @ 277V



**Models AS 08 — AT 12**

1/5 H. P. Motor

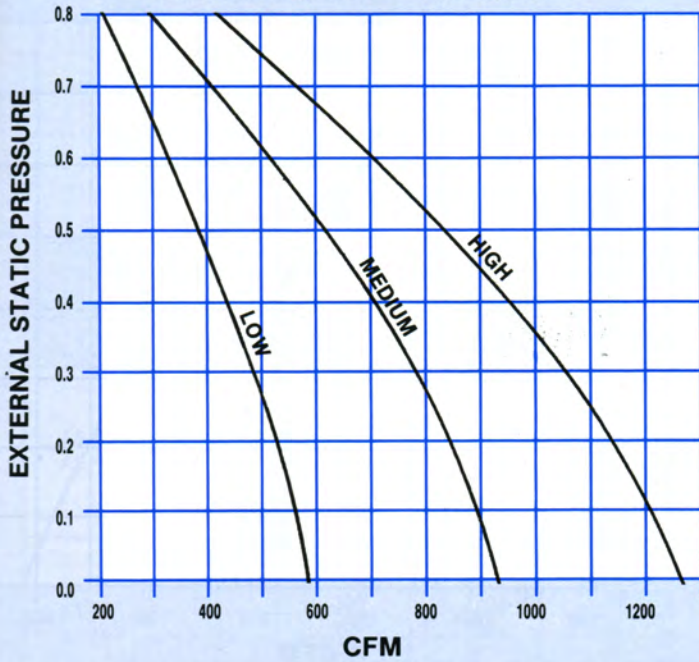
F.L.A.: 3.1A @ 120V 1.3A @ 277V



**Models AS 10 — AT 14**

1/4 H. P. Motor

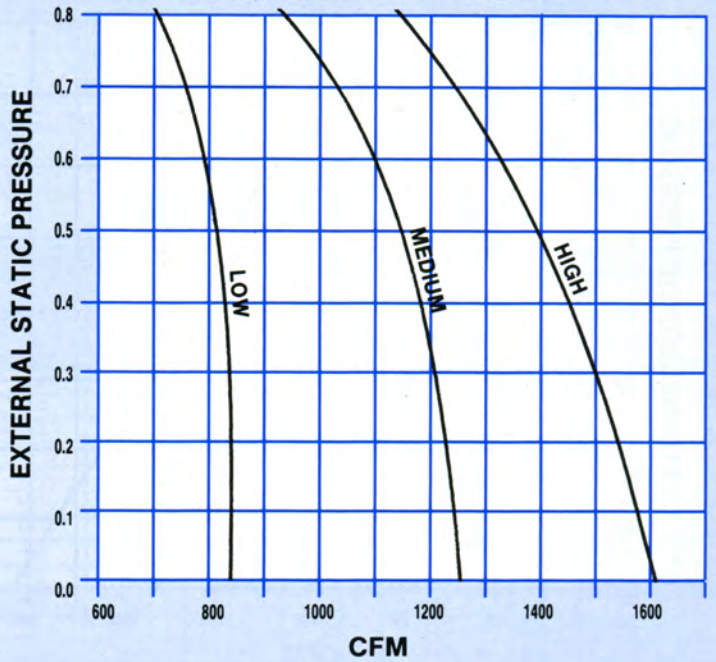
F.L.A.: 4.9A @ 120V 1.7A @ 277V



**Models AS 12 — AT 16**

1/2 H. P. Motor

F.L.A.: 6.6A @ 120V 2.5A @ 277V



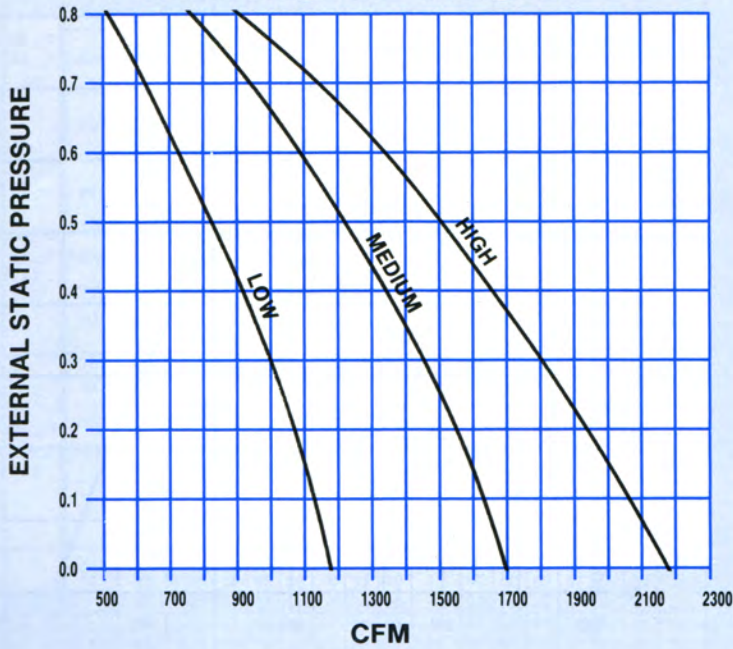
- NOTES:** 1. Pressure drops due to heating coils are treated as external static pressures (Refer to coil sections of this catalog for additional information.)  
 2. F.L.A. = Full Load Amps of motor.

**FAN CURVES — CFM vs External Static Pressure**

**Model AS 14**

(2) 1/4 H. P. Motors

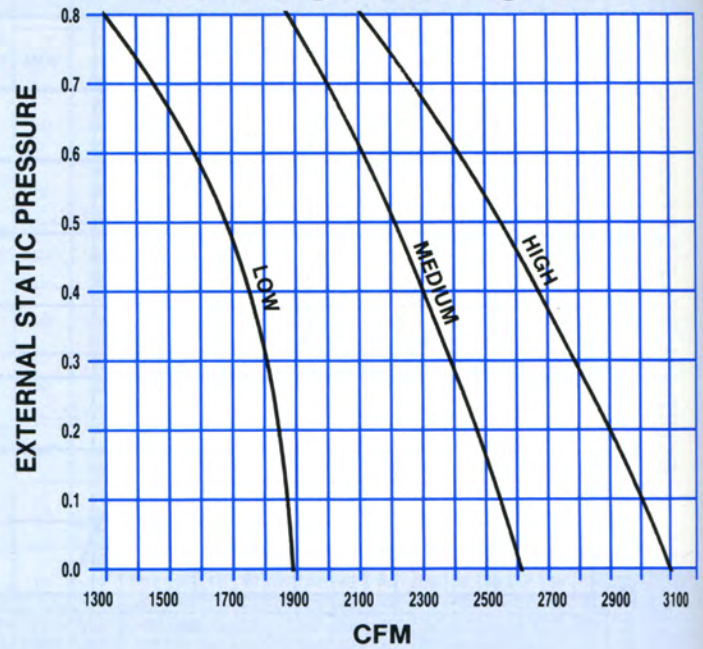
F.L.A.: 9.8A @ 120V 3.4A @ 277V



**Model AS 16**

(2) 1/2 H. P. Motors

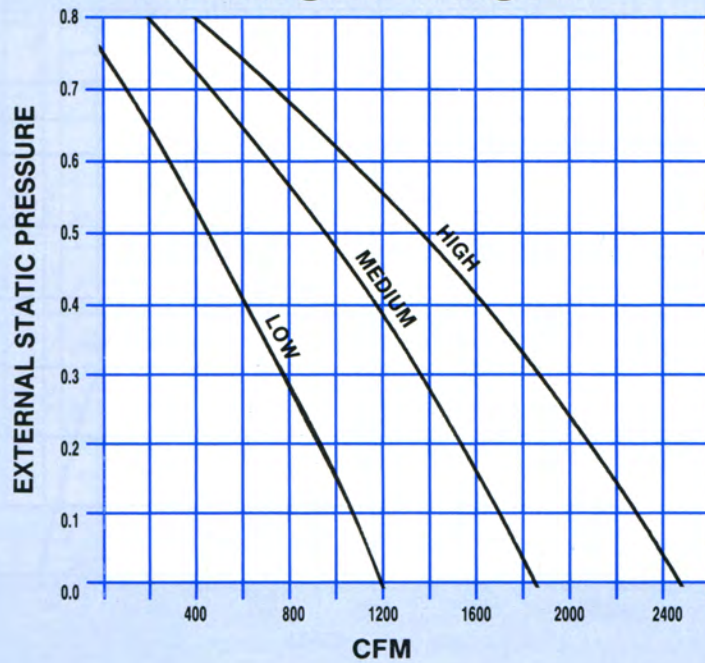
F.L.A.: 13.2A @ 120V 5.0A @ 277V



**Model AT 18**

(2) 1/4 H. P. Motors

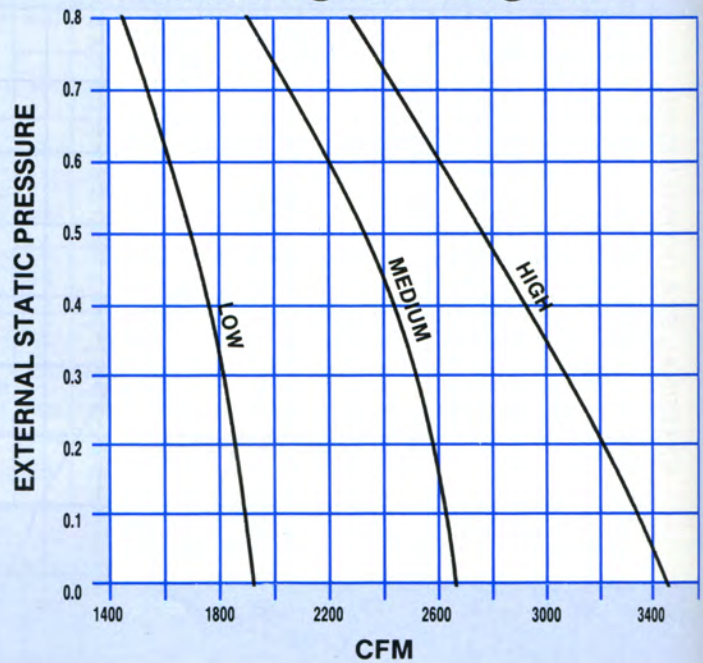
F.L.A.: 9.8A @ 120V 3.4A @ 277V



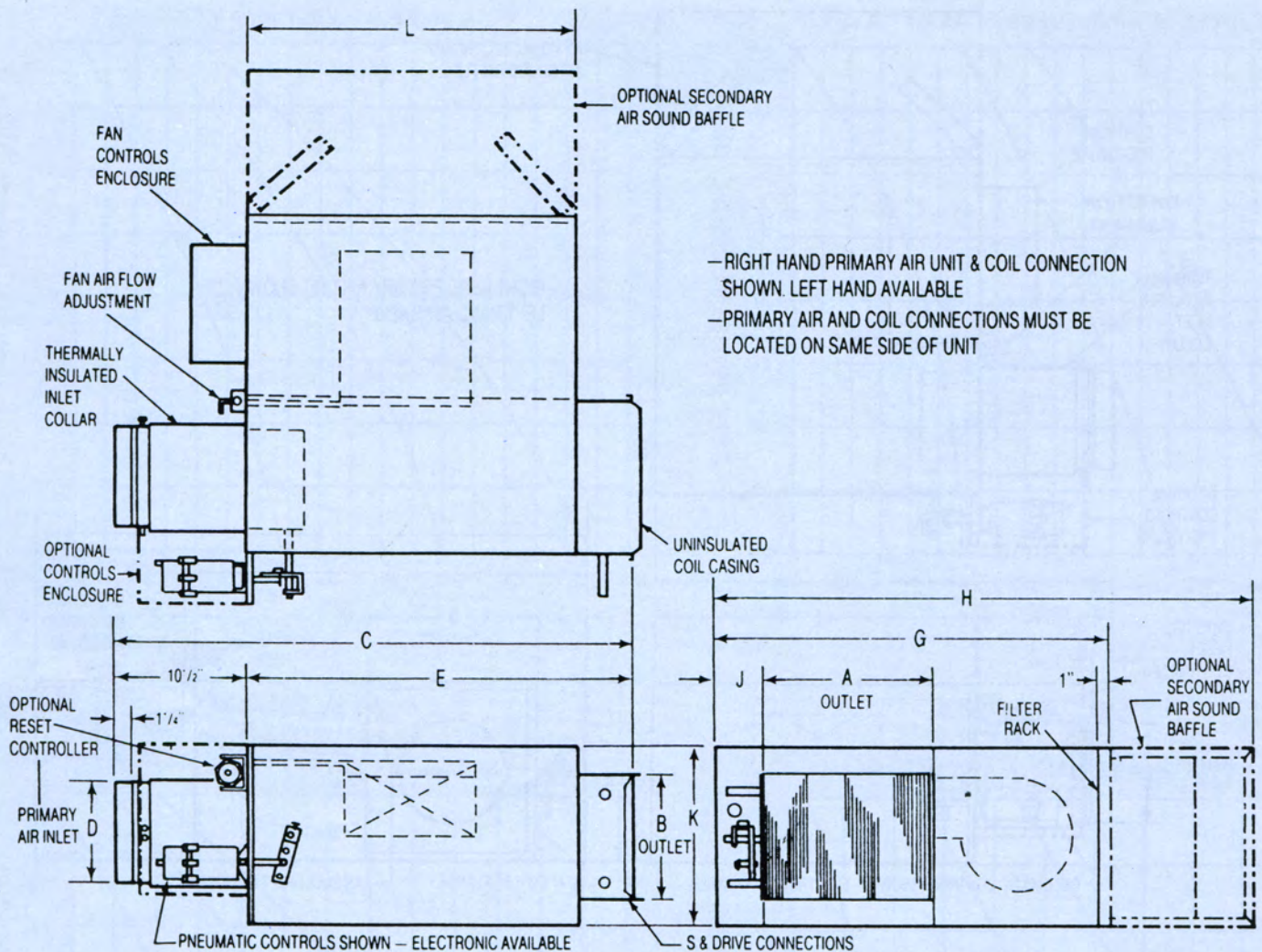
**Model AT 24**

(2) 1/2 H. P. Motors

F.L.A.: 13.2A @ 120V 5.0A @ 277V



**NOTES:** 1. Pressure drops due to heating coils are treated as external static pressures (Refer to coil sections of this catalog for additional information.)  
2. F.L.A. = Full Load Amps of motor.



—RIGHT HAND PRIMARY AIR UNIT & COIL CONNECTION SHOWN. LEFT HAND AVAILABLE  
 —PRIMARY AIR AND COIL CONNECTIONS MUST BE LOCATED ON SAME SIDE OF UNIT

DIMENSIONS LISTED IN INCHES																
Models	Unit Size	Primary Nominal CFM	Secondary Nominal CFM @ 10" E.S.P.	Fan H.P.	A	B	1 Row C	2 Row C	D	1 Row E	2 Row E	G	H	J	K	L
ASWD ASWF	06	500	580	1/6	14	10	39%	41	5 7/8	29 1/8	30 1/2	31 3/4	43 3/4	3 1/2	14	26
	07	700	580	1/6	14	10	39%	41	6 7/8	29 3/8	30 1/2	31 3/4	43 3/4	3 1/2	14	26
	08	1000	770	1/5	14	10	39%	41	7 7/8	29 3/8	30 1/2	31 3/4	43 3/4	3 1/2	14	26
	10	1500	1220	1/4	16	15	39%	41	9 7/8	29 3/8	30 1/2	36 1/4	48 1/4	3 1/2	17 1/2	26
	12	2300	1575	1/2	16	15	39%	41	11 7/8	29 3/8	30 1/2	36 1/4	48 1/4	3 1/2	17 1/2	26
	14	3100	2060	(2) 1/4	24	17 1/2	59%	61	13 7/8	49 3/8	50 1/2	44 1/4	61 1/4	3 1/2	17 1/2	46
16	4200	3020	(2) 1/2	24	17 1/2	59%	61	15 7/8	49 3/8	50 1/2	44 1/4	61 1/4	3 1/2	17 1/2	46	
ATWD ATWF	08	1000	580	1/6	14	10	39%	41	7 7/8	29 3/8	30 1/2	31 3/4	43 3/4	3 1/2	14	26
	10	1500	580	1/6	14	10	39%	41	9 7/8	29 3/8	30 1/2	31 3/4	43 3/4	3 1/2	14	26
	12	2300	770	1/5	16	12 1/2	39%	41	11 7/8	29 3/8	30 1/2	33 3/4	45 3/4	3 1/2	14	26
	14	3100	1220	1/4	24	17 1/2	39%	41	13 7/8	29 3/8	30 1/2	44 1/4	56 1/4	3 1/2	17 1/2	26
	16	4200	1575	1/2	24	17 1/2	39%	41	15 7/8	29 3/8	30 1/2	44 1/4	56 1/4	3 1/2	17 1/2	26
	18	5500	2310	(2) 1/4	32	17 1/2	59%	61	15 7/8 x 17 7/8	49 3/8	50 1/2	52 7/8	69 7/8	4 7/8	17 1/2	46
24	7300	3380	(2) 1/2	32	17 1/2	59%	61	15 7/8 x 23 7/8	49 3/8	50 1/2	52 7/8	69 7/8	4 7/8	17 1/2	46	

