

### INTEGRAL SOUND ATTENUATOR

Titus' unique integral design minimizes casing leakage and disturbance to airflow with no casing or insulation seams.

### INTEGRAL ELECTRIC COIL

With a rigid one piece assembly, Titus locates the heating elements for optimal heat transfer and insets them for protection during shipment and installation.

#### STANDARD FEATURES:

- Primary automatic reset thermal cutout (one per coil)
- Secondary manual reset thermal cutout
- Airflow switch (differential pressure)
- De-rated nickel chrome heating elements
- Magnetic or safety contactors (as required)
- Line terminal block
- Control terminal block
- ETL listed
- 80/20 nickel chrome element wire

#### OPTIONAL FEATURES:

- Class II, 24 volt control transformer
- Door interlock disconnect switch
- Main supply fuses
- Dust tight construction
- Removable flow sensor

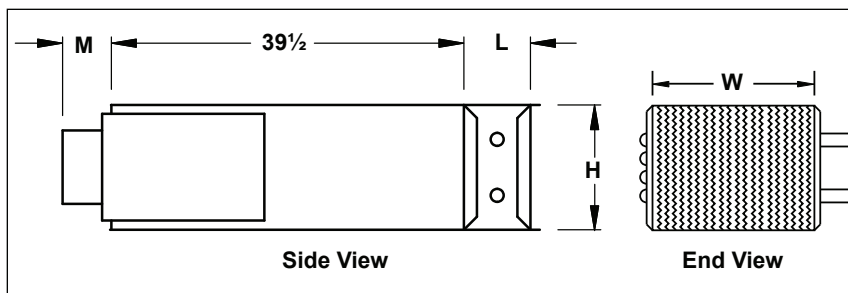
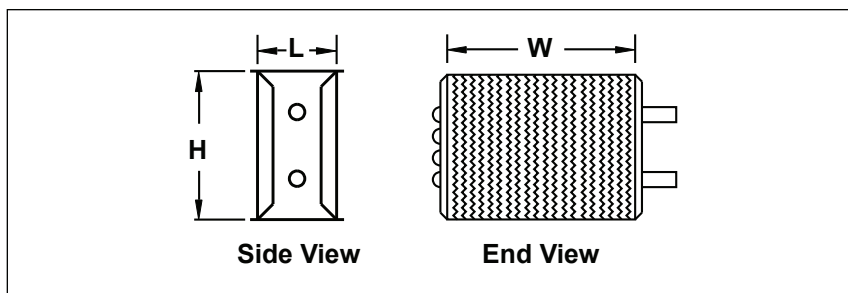
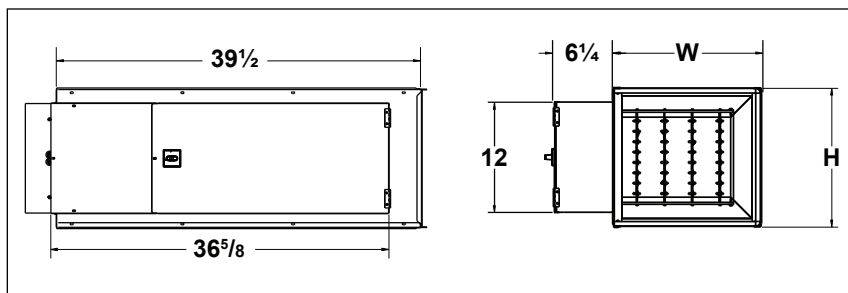
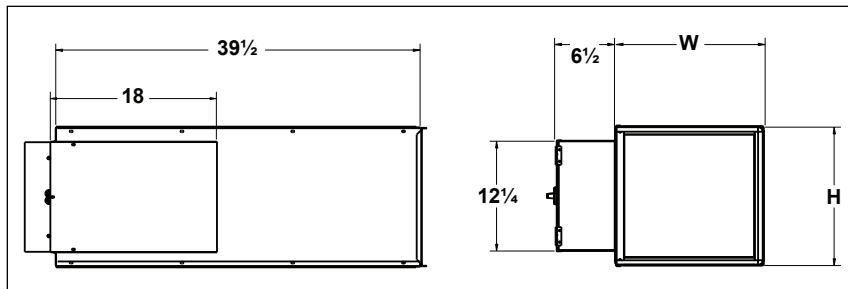
### HOT WATER REHEAT COILS WITH VALVE PACKAGES

Titus offers a factory mounted valve package configuration to adapt to ever changing realities in construction. This configuration has all of the standard features, options, and performance as our industry leading single duct but has the added advantage of factory assembling and quality control to ensure a repeatable and reliable solution that can be difficult or expensive to achieve in field environments.

#### OPTIONAL FEATURES:

- 2-Way or 3-Way valve Types
- 2 position On-Off or Modulating fail in place
- Y-Strainer w/blow down
- 0-9 GPM flow rates

### INTEGRAL SOUND ATTENUATOR WITH OPTIONAL HOT WATER REHEAT COIL

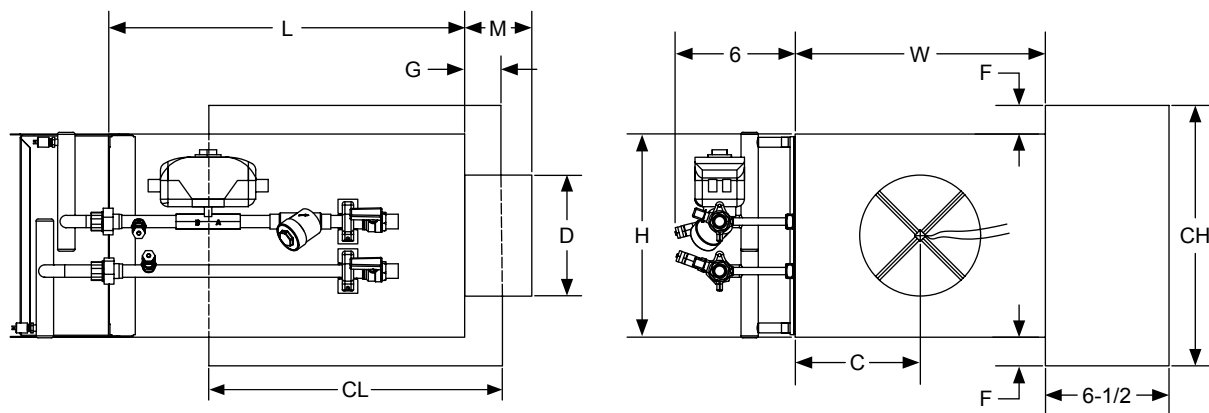


INLET SIZE	H	M	W	WATER COIL	
				L (1-2 ROW)	L (3-4 ROW)
4, 5	8	5 <sup>3</sup> / <sub>8</sub>	12	5	7 <sup>1</sup> / <sub>4</sub>
6	8	3 <sup>3</sup> / <sub>8</sub>	12	5	7 <sup>1</sup> / <sub>4</sub>
7, 8	10	3 <sup>3</sup> / <sub>8</sub>	12	5	7 <sup>1</sup> / <sub>4</sub>
9, 10	2 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	14	5	7 <sup>1</sup> / <sub>4</sub>
12	15	3 <sup>3</sup> / <sub>8</sub>	16	5	7 <sup>1</sup> / <sub>4</sub>
14	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	20	7 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>
16	18	3 <sup>3</sup> / <sub>8</sub>	24	7 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>
24 x 16	18	3 <sup>3</sup> / <sub>8</sub>	38	5	7 <sup>1</sup> / <sub>4</sub>

Note: The total length of the ESV basic unit and accessories (attenuators and coils) is the summation of basic unit length and the accessories length

ESV STANDARD WITH OPPOSITE SIDE VALVE PACKAGE

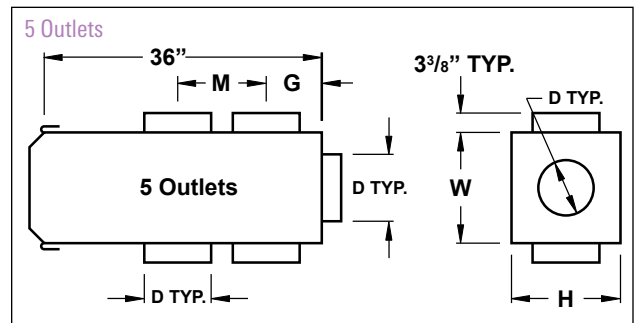
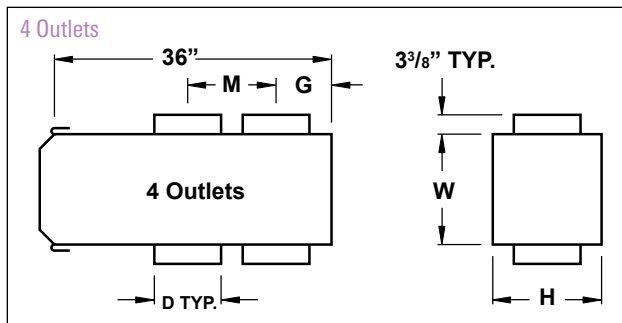
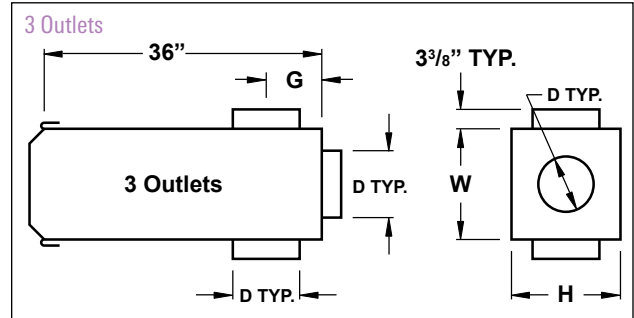
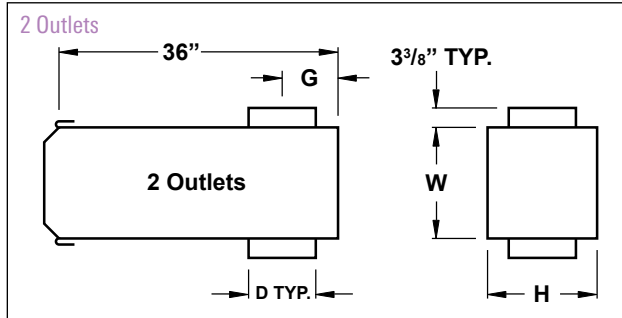
Single Duct Terminal Unit  
Digital Control, Pressure Independent



Right hand unit shown. All dimensions are in inches.

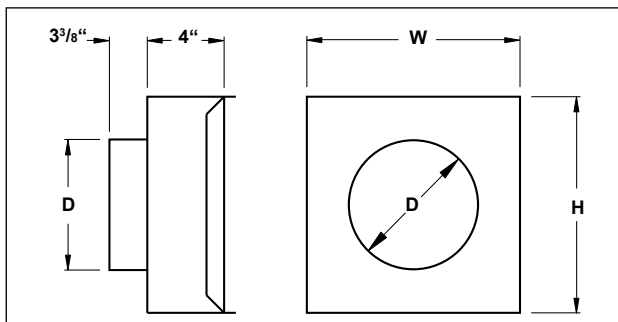
SIZE	CFM RANGE	D (H x W)	C	F	G	H	L	M	W	CH	CL
4	0-225	3 7/8	6 1/2	2 1/8	7 3/8	8	15 1/2	5 3/8	12	12 1/4	18
5	0-350	4 7/8	6 1/2	2 1/8	7 3/8	8	15 1/2	5 3/8	12	12 1/4	18
6	0-500	5 7/8	6 1/2	2 1/8	7 3/8	8	15 1/2	3 3/8	12	12 1/4	18
7	0-650	6 7/8	6	1 1/8	7 3/8	10	15 1/2	3 3/8	12	12 1/4	18
8	0-900	7 7/8	6	1 1/8	7 3/8	10	15 1/2	3 3/8	12	12 1/4	18
9	0-1050	8 7/8	7	-	5 3/8	12 1/2	15 1/2	3 3/8	14	12 1/4	18
10	0-1400	9 7/8	7	-	5 3/8	12 1/2	15 1/2	3 3/8	14	12 1/4	18
12	0-2000	11 7/8	8	-	5 3/8	15	15 1/2	3 3/8	16	12 1/4	18
14	0-3000	13 7/8	10 1/2	-	3 3/8	17 1/2	15 1/2	3 3/8	20	12 1/4	18
16	0-4000	15 7/8	13 1/2	-	3 3/8	18	15 1/2	3 3/8	24	12 1/4	18
20	0-2000	7 1/2 x 12 1/4	8	1/4	3	10	15 1/2	3 3/8	16	12 1/4	15 1/4
40	0-8000	15 7/8 x 23 7/8	19	1 1/8	5 3/8	18	15	3 3/8	38	12 1/4	18
5E	0-350	4 7/8	6	2 1/8	7 3/8	10	15 1/2	3 3/8	12	12 1/4	18
6E	0-500	5 7/8	6	2 1/8	7 3/8	10	15 1/2	3 3/8	12	12 1/4	18
7E	0-650	6 7/8	7	1 1/8	5 3/8	12 1/2	15 1/2	3 3/8	14	12 1/4	18
8E	0-900	7 7/8	7	1 1/8	5 3/8	12 1/2	15 1/2	3 3/8	14	12 1/4	18
1E	0-1400	9 7/8	8	-	5 3/8	15	15 1/2	3 3/8	16	12 1/4	18
2E	0-2000	11 7/8	10 1/2	-	3 3/8	17 1/2	15 1/2	3 3/8	20	12 1/4	18
4E	0-3000	13 7/8	13 1/2	-	3 3/8	18	15 1/2	3 3/8	24	12 1/4	18

MULTI-OUTLET PLENUMS FOR SINGLE DUCT TERMINALS



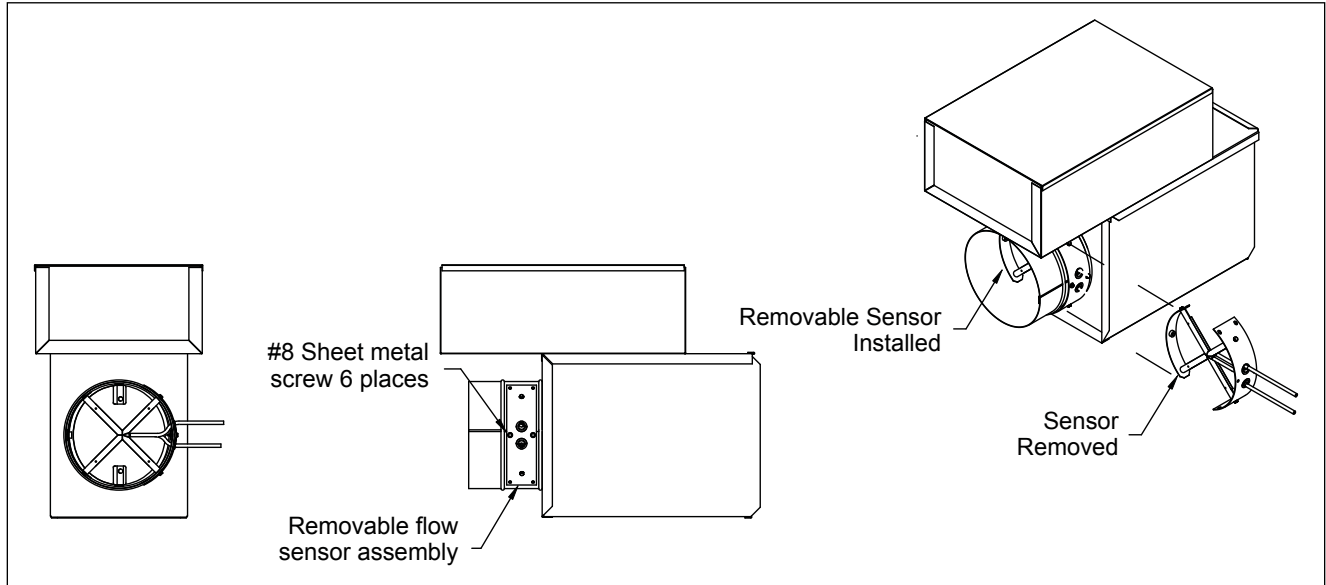
ESV Unit Sizes	Outlet Size D	2 Outlets		3 Outlets		4 Outlets		5 Outlets		H	W
		G	M	G	M	G	M	G	M		
4, 5, 6	5 <sup>7</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	-	4 <sup>3</sup> / <sub>8</sub>	-	-	-	-	-	8	12
7, 8	7 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	-	5 <sup>3</sup> / <sub>8</sub>	-	5 <sup>3</sup> / <sub>8</sub>	12	-	-	10	12
8	7 <sup>7</sup> / <sub>8</sub>	-	-	-	-	-	-	5 <sup>3</sup> / <sub>8</sub>	12	10	12
9, 10	9 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	-	5 <sup>3</sup> / <sub>8</sub>	-	5 <sup>3</sup> / <sub>8</sub>	14	-	-	12 <sup>1</sup> / <sub>2</sub>	14
9, 10	7 <sup>7</sup> / <sub>8</sub>	-	-	5 <sup>3</sup> / <sub>8</sub>	-	5 <sup>3</sup> / <sub>8</sub>	12	-	-	12 <sup>1</sup> / <sub>2</sub>	14
12	1 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	-	6 <sup>3</sup> / <sub>8</sub>	-	-	-	-	-	15	16
12	9 <sup>7</sup> / <sub>8</sub>	-	-	6 <sup>3</sup> / <sub>8</sub>	-	6 <sup>3</sup> / <sub>8</sub>	14	6 <sup>3</sup> / <sub>8</sub>	14	15	16
14	1 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	-	6 <sup>3</sup> / <sub>8</sub>	-	-	-	-	-	17 <sup>1</sup> / <sub>2</sub>	20
14	9 <sup>7</sup> / <sub>8</sub>	-	-	6 <sup>3</sup> / <sub>8</sub>	-	6 <sup>3</sup> / <sub>8</sub>	14	6 <sup>3</sup> / <sub>8</sub>	14	17 <sup>1</sup> / <sub>2</sub>	20
16	1 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	-	6 <sup>3</sup> / <sub>8</sub>	-	-	-	-	-	18	24
16	9 <sup>7</sup> / <sub>8</sub>	-	-	6 <sup>3</sup> / <sub>8</sub>	-	6 <sup>3</sup> / <sub>8</sub>	14	6 <sup>3</sup> / <sub>8</sub>	14	18	24

ROUND OUTLETS

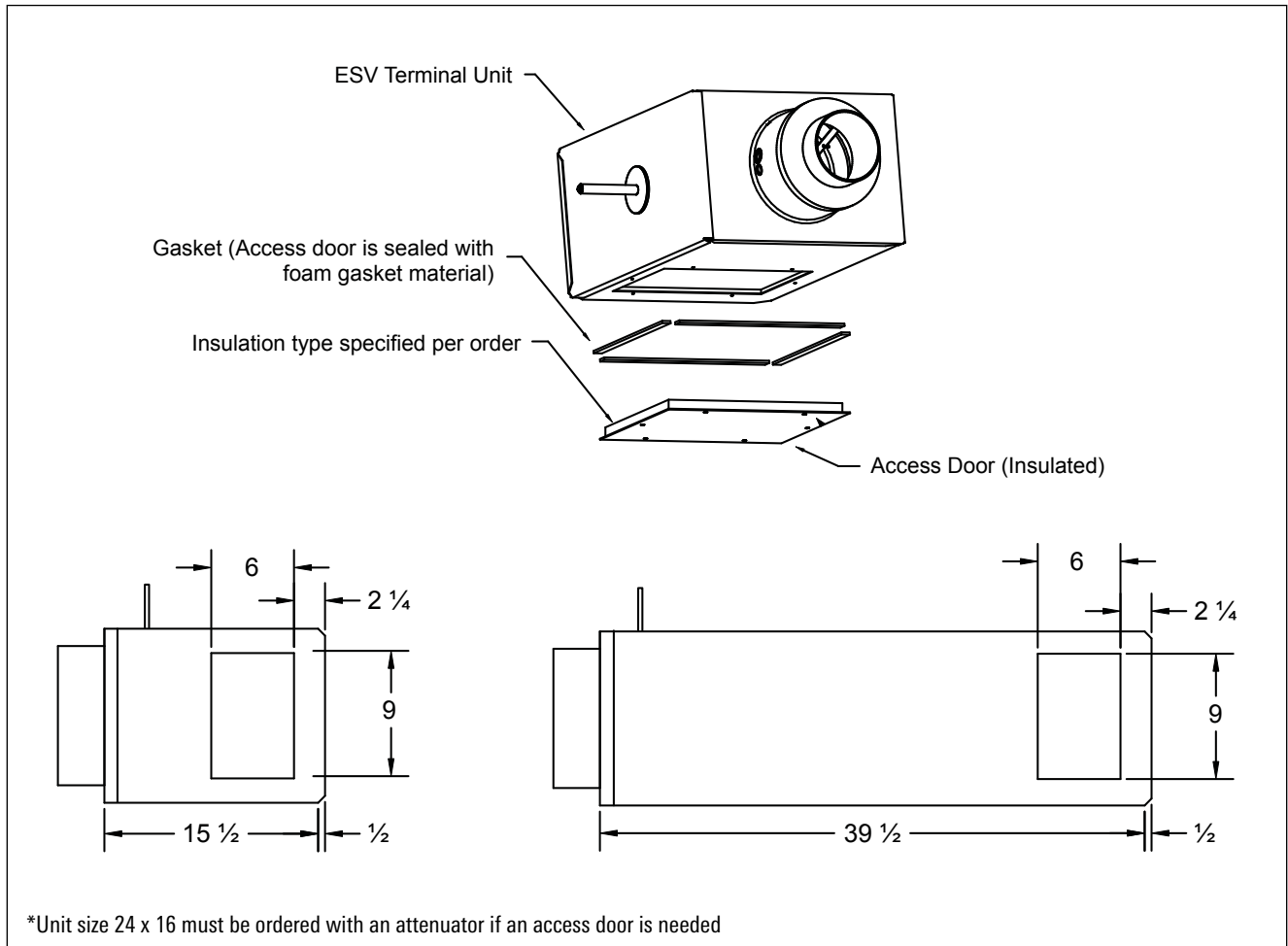


Unit Size	D	H	W
4	3 <sup>7</sup> / <sub>8</sub>	8	12
5	4 <sup>7</sup> / <sub>8</sub>	8	12
6	5 <sup>7</sup> / <sub>8</sub>	8	12
7	6 <sup>7</sup> / <sub>8</sub>	10	12
8	7 <sup>7</sup> / <sub>8</sub>	10	12
9	8 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	14
10	9 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>	14
12	11 <sup>7</sup> / <sub>8</sub>	15	16
14	13 <sup>7</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>2</sub>	20
16	15 <sup>7</sup> / <sub>8</sub>	18	24

REMOVABLE FLOW SENSOR



ESV WITH ACCESS DOOR OPTION



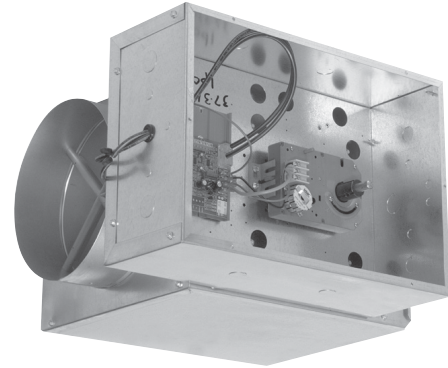
RECOMMENDED PRIMARY AIR CFM RANGES / ALL TERMINALS

Control Types:

- PESV / Pneumatic
- AESV / Analog Electronic
- DESV / Digital Electronic

QUICK SELECTION PROCEDURE

1. Select unit inlet size based upon acoustic parameters and/or maximum pressure drop requirements, using pages M15-M16
2. Check inlet size selection against cfm control limits based on control type shown on this page
3. Select accessories (multi-outlets, attenuators) as required
4. Select reheat coil, if required. Make your selection using the actual heating flow rate, not cooling.



Inlet Size	Total CFM Range	CFM Ranges of Minimum and Maximum Settings							
		PESV - Pneumatic Titus II Controller		PESV - Pneumatic Titus I Controller		AESV - Analog Electronic TA1 Controller		DESV - Digital Typical Controller	
		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
4	0-225	50-210	90-225	65-210	90-225	50-225	50-225	30-225	30-225
5	0-350	70-300	125-350	90-300	125-350	70-350	70-350	40-350	40-350
6	0-500	80-345	145-500	100-345	145-500	80-500	80-500	45-500	45-500
7	0-650	120-515	210-650	150-515	210-650	120-650	120-650	70-650	70-650
8	0-900	160-700	285-900	205-700	285-900	160-900	160-900	90-900	90-900
9	0-1050	205-900	370-1050	260-900	370-1050	205-1050	205-1050	120-1050	120-1050
10	0-1400	250-1110	455-1400	325-1110	455-1400	250-1400	250-1400	145-1400	145-1400
12	0-2000	330-1460	600-2000	425-1460	600-2000	330-2000	330-2000	190-2000	190-2000
14	0-3000	525-2335	955-3000	675-2335	955-3000	525-3000	525-3000	300-3000	300-3000
16	0-4000	665-2970	1215-4000	860-2970	1215-4000	665-4000	665-4000	385-4000	385-4000
24 X 16	0-8000	1245-5555	2270-8000	1605-5555	2270-8000	1245-8000	1245-8000	720-8000	720-8000

Note: On controls mounted by Titus but supplied by others (FMA or Factory Mounting Authorization), these values are guidelines only. Controls mounted on an FMA basis are calibrated in the field.