

Electric Heat

Standard Features

- » ETL listed as an assembly for safety compliance
- » Single point power connection
- » Mounted in preheat position
- » Automatic reset primary and back-up secondary thermal limits
- » Internal wiring rated at 105°C
- » Integral electric heat assembly with removable element for easy service
- » Stainless steel terminals and hardware



Useful Formulas

$$kW^* = \frac{CFM \times \Delta T \times 1.085^{**}}{3413}$$

$$1\emptyset \text{ AMPs} = \frac{kW \times 1000}{\text{Volts}}$$

* 1kW = 3413 BTU/H

** Capacity at sea level

Altitude Considerations:

Reduce by 0.034 for each 1000 ft. of altitude above sea level.

Example: 5000 ft./1000 ft. = 5

$$5 \times 0.034 = 0.17$$

$$1.085 - 0.17 = 0.915$$

Notes:

1. Shaded areas of the electric heat selection chart indicate kW and voltage options not available
2. Available voltages are single phase, 60 hertz
3. Size heater for Leaving Air Temperature (LAT) less than 104°F
4. Silent, solid state heater relay is available for heater currents less than 18 amps
5. Ask Titus representative about continuously modulating electric heat using SSR and special control options

Optional Features

- » Silent solid state relays
- » Manual reset secondary thermal units
- » Door interlocking disconnect switch
- » Main fusing

Electrical Calculations Information

1. Contact your Titus representative for more information on electrical calculations, including FLA, MCA and MOP
2. Non-Fused Door Interlock Disconnect Switch shall be sized according to MCA
3. Fused Door Interlock Disconnect Switch and Main Fusing shall be sized according to MOP

TVS ELECTRIC HEAT SELECTION CHART (AMPS)

Unit Size	MBH	3.4	6.8	10.2	13.7	17.1	20.5	23.9	27.3	30.7	34.1
	KW	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
	Volts	AMPS									
03	115	8.7	17.4	26.1							
	208	4.8	9.6	14.4							
	230	4.4	8.7	13.1							
	277	3.6	7.2	10.8							
04	115	8.7	17.4	26.1	34.8						
	208	4.8	9.6	14.4	19.2						
	230	4.4	8.7	13.1	17.4						
	277	3.6	7.2	10.8	14.4						
06	115	8.7	17.4	26.1	34.8						
	208	4.8	9.6	14.4	19.2	24.1					
	230	4.4	8.7	13.1	17.4	21.8					
	277	3.6	7.2	10.8	14.4	18.1					
08	115	8.7	17.4	26.1	34.8						
	208	4.8	9.6	14.4	19.2	24.1	28.9	33.7	38.5		
	230	4.4	8.7	13.1	17.4	21.8	26.1	30.5	34.8		
	277	3.6	7.2	10.8	14.4	18.1	21.7	25.3	28.9		
10	115	8.7	17.4	26.1	34.8						
	208	4.8	9.6	14.4	19.2	24.1	28.9	33.7	38.5	43.3	
	230	4.4	8.7	13.1	17.4	21.8	26.1	30.5	34.8	39.2	43.5
	277	3.6	7.2	10.8	14.4	18.1	21.7	25.3	28.9	32.5	36.1
12	115	8.7	17.4	26.1	34.8						
	208	4.8	9.6	14.4	19.2	24.1	28.9	33.7	38.5	43.3	
	230	4.4	8.7	13.1	17.4	21.8	26.1	30.5	34.8	39.2	43.5
	277	3.6	7.2	10.8	14.4	18.1	21.7	25.3	28.9	32.5	36.1

