

Electric Heat

Titus offers electric heating coils for specific application with all THB Series Fan Coil units. This allows the flexibility to provide an unrivaled

amount of electric heat options in one complete package.

Standard Features

- » ETL listed as an assembly for safety compliance
- » Single point power connection
- » Mounted in preheat position
- » Automatic reset primary and backup 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

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

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

* 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 x 0.034 = 0.17

1.085 - 0.17 = 0.915

Optional Features

- » Silent solid state relays
- » Door interlocking disconnect switch
- » Main fusing

Electrical Calculations Information

1. Contact your local Titus sales office
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

THB ELECTRIC HEAT SELECTION CHART (AMPS)

Unit Size	MBH	5.1	6.8	10.2	13.7	17.1	20.5	25.6	27.3	34.1
	KW	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10.0
	Volts	AMPS								
20	115	13.0	17.4	26.1						
	208	7.2	9.6	14.4						
	230	6.5	8.7	13.0						
	277	5.4	7.2	10.8						
25	115	13.0	17.4	26.1						
	208	7.2	9.6	14.4						
	230	6.5	8.7	13.0						
	277	5.4	7.2	10.8						
30	115	13.0	17.4	26.1	34.6	43.5				
	208	7.2	9.6	14.4	19.2	24.0	28.8			
	230	6.5	8.7	13.0	17.4	21.7	26.1			
	277	5.4	7.2	10.8	14.4	18.1	21.7			
40	115		17.4	26.1	34.6	43.5				
	208		9.6	14.4	19.2	24.0	28.8	33.7		
	230		8.7	13.0	17.4	21.7	26.1	30.4		
	277		7.2	10.8	14.4	18.1	21.7	25.3		
50	115			26.1	34.6	43.5				
	208			14.4	19.2	24.0	28.8	33.7	38.5	
	230			13.0	17.4	21.7	26.1	30.4	34.8	
	277			10.8	14.4	18.1	21.7	25.3	28.9	
60	115			26.1	34.6	43.5				
	208			14.4	19.2	24.0	28.8	33.7	38.5	
	230			13.0	17.4	21.7	26.1	30.4	34.8	43.5
	277			10.8	14.4	18.1	21.7	25.3	28.9	36.1

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 sound sensitive environments
5. Ask your Titus representative about continuously modulating electric heat using SSR and special control options

