

**QSTE ELECTRIC HEAT FEATURES:**

- Primary over temperature protection provided by auto reset thermal cutout – disc type
- Fan interlock relay prevents coil from energizing without fan flow
- De-rated Nickel Chrome heating elements
- 24V Class 2 control transformer (inherently limiting)
- Magnetic / safety contactors as required (UL listed for minimum of 250,000 cycles)
- Line and control terminal blocks
- Up to 3 steps of heat
- ETL listed assembly

**QSTE OPTIONAL FEATURES:**

- Door-interlocking disconnect switch (non-fused)
- Main power fuses (fuses and fuse blocks)
- Mercury contactors
- Proportional SSR control (0-100%)
- Discharge temperature limiting control
- Air proving switch in lieu of fan interlock relay (requires min Pt total pressure of .07" w.g. at the face of the electric coil)
- Secondary over temperature protection with manual reset (push button) thermal cutout – disc type

**Table 32: Electric Heating Coil Performance - Allowable KW**

Size	Fan CFM	# Steps	1 - Phase								3 - Phase			
			120 V KW Range		208 V KW Range		240 V KW Range		277 V KW Range		208 V KW Range		480 V KW Range	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
17	680	1	0.5	5.0	0.5	9.5	0.5	9.7	0.5	9.7	0.5	9.7	1.0	9.7
		2	1.0		1.0		1.0		1.0		1.0		1.0	
		3	1.5		1.5		1.5		1.5		1.5		2.0	
25	1250	1	0.5	5.0	0.5	9.0	0.5	10.5	0.5	12.5	0.5	15.0	1.0	17.9
		2	1.0		1.0		1.0		1.0		1.0		1.0	
		3	1.5		1.5		1.5		1.5		1.5		2.0	
50	1900	1	0.5	4.5	0.5	9.0	0.5	10.5	0.5	12.0	0.5	14.0	1.0	19.0
		2	1.0		1.0		1.0		1.0		1.0		1.0	
		3	1.5		1.5		1.5		1.5		1.5		1.5	
75	2300	1	0.5	4.0	0.5	9.0	0.5	10.5	0.5	12.0	0.5	13.0	1.0	32.9
		2	1.0		1.0		1.0		1.0		1.0		1.0	
		3	1.5		1.5		1.5		1.5		1.5		1.5	
10	2550	1	0.5	4.0	0.5	8.5	0.5	10.0	0.5	11.5	0.5	12.5	1.0	35.0
		2	1.0		1.0		1.0		1.0		1.0		1.0	
		3	1.5		1.5		1.5		1.5		1.5		1.5	
Fan Nameplate Voltage			120 V		277 V		277 V		277 V		120 V		277 V	

**Notes:**

1. The Max Allowable KW shown is based on UL / NEC standards, in conjunction with laboratory tests of QSTE air terminal assemblies.
2. The minimum air flow requirement for terminals with electric coils is the greater of 70 cfm/KW or the minimum allowable flow rate that can be accurately controlled. This allows proper operation of the electric coil and results in increased coil life with a maximum air temperature rise of 45° F to prevent thermal stratification in the space. Refer to table 33, page D-12 to determine minimum and maximum flow rates for the control system selected.
3. Uniform flow through a coil results in optimum performance, and therefore, we recommend a minimum length of 48" of full size discharge duct after the air terminal.