HVIE ELECTRIC HEAT SINGLE DUCT FEATURES:

- Primary over temperature protection provided by auto reset thermal cutout – disc type
- Secondary over temperature protection with manual reset (push button) thermal cutout – disc type
- De-rated Nickel Chrome heating elements
- Air proving switch (requires min Pt total pressure of .07" w.g. at the face of the electric coil)
- 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
- UL listed assembly

HVIE 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

Table 75a: Electric Heating Coil Performance - Allowable KW

Inlet Size	# 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
5"	1	0.5	3.4	0.5	3.4	0.5	3.4	0.5	3.4	0.5	3.4	1.5	3.4
	2	1.0		1.0		1.0		1.0		1.0		1.5	
	3	1.5		1.5		1.5		1.5		1.5		-	-
6"	1	0.5	5.2	0.5	5.2	0.5	5.2	0.5	5.2	0.5	5.2	1.5	5.2
	2	1.0		1.0		1.0		1.0		1.0		1.5	
	3	1.5		1.5		1.5		1.5		1.5		-	-
7"	1	0.5	5.8	0.5	7.1	0.5	7.1	0.5	7.1	0.5	7.1	1.0	7.1
	2	1.0		1.0		1.0		1.0		1.0		1.5	
	3	1.5		1.5		1.5		1.5		1.5		3.0	
8"	1	0.5	5.8	0.5	9.7	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		1.5	
	3	1.5		1.5		1.5		1.5		1.5		3.0	
9"	1	0.5	5.8	0.5	10.0	0.5	11.5	0.5	12.2	0.5	12.2	1.0	12.2
	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"	1	0.5	5.8	0.5	10.0	0.5	11.5	0.5	13.3	0.5	15.1	1.0	15.1
	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	
12"	1	0.5	5.8	0.5	10.0	0.5	11.5	0.5	13.3	0.5	17.3	1.0	20.0
	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	
14"	1	0.5	5.8	0.5	10.0	0.5	11.5	0.5	13.3	1.0	17.3	1.0	27.4
	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	

Notes:

1. The Max Allowable KW shown is based on UL / NEC standards.
2. The minimum air flow requirement for terminals with electric coils is the greater of 90 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 35° F to prevent thermal stratification in the space.
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.