

## Electric Coil

### Electric Coil kW

Specify the electric coil output, in Kilowatts (kW), this is usually specified by the designer. Note: It may be required to calculate the total unit amperage draw. The heater amperage draw can be calculated as shown below.

For single phase power:	120 volts: Amperage = kW x 8.333	For three phase power:	208 volts: Amperage = kW x 2.774
	208 volts: Amperage = kW x 4.808		480 volts: Amperage = kW x 1.202
	240 volts: Amperage = kW x 4.167		600 volts: Amperage = kW x 0.962
	277 volts: Amperage = kW x 3.610		
	347 volts: Amperage = kW x 2.882		

When an electric heater is ordered with a Venturi Valve, it comes factory mounted and wired to the electric coil housing assembly. Note that a minimum airflow must be specified when using a coil.

### Electric Coil Staging

STEPS = Electric reheat available with a maximum of three steps of output control. Three phase heaters less than 3.6 kW are only available with 1 step of control.

SCRV = SCR Controls for proportional control of heater output using a 0-10 Vdc Signal.

### Conventional Staged Control

VV Coil Selection Charts - Maximum kW - Conventional Control											
Allowable Maximum kW											
Unit Size	CFM Range	L/S	Stages	120V 1 Ph	208V 1 Ph	240V 1 Ph	277V 1 Ph	347V 1 Ph	208V 3 Ph	480V 3 Ph	600V 3 Ph
8	50-700	24-330	1,2,3	5.5	9.5	11	11	11	11	11	11
10	60-1000	28-472	1,2,3	5.5	9.5	11.5	13	14	14	14	14
12	90-1500	42-708	1,2,3	5.5	9.5	11.5	13	16.5	17	21.5	21.5
14	200-2500	94-1180	1,2,3	5.5	9.5	11.5	13	16.5	17	17	19
210	120-2000	57-944	1,2,3	5.5	9.5	11.5	13	16.5	17	19	19
212	180-3000	85-1416	1,2,3	5.5	9.5	11.5	13	16.5	17	27.5	27.5
214	400-5000	189-2359	1,2,3	5.5	9.5	11.5	13	16.5	17	39	49
312	270-4500	127-2124	1,2,3	5.5	9.5	11.5	13	16.5	17	39.5	44.5

Notes:

1. Low watt density elements (Max 35 w/sq.in.)
2. 1995 U.L. Certified as an assembly
3. Minimum air flow must be at least 70 cfm per kilowatt
4. Minimum kW Limits; Single Phase = 0.5 kW per Stage / Three Phase = 1.5 kW per Stage

## Electric Coil

### SCR

VV Coil Selection Charts - Maximum kW - Conventional Control											
Unit Size	CFM Range	L/S	Stages	Allowable Maximum kW							
				120V 1 Ph	208V 1 Ph	240V 1 Ph	277V 1 Ph	347V 1 Ph	208V 3 Ph	480V 3 Ph	600V 3 Ph
8	50-700	24-330	1,2,3	5	9	10.5	11	11	11	11	11
10	60-1000	28-472	1,2,3	5	9	10.5	12	14	14	14	14
12	90-1500	42-708	1,2,3	5	9	10.5	12	15.5	16	21.5	21.5
14	200-2500	94-1180	1,2,3	5	9	10.5	12	15.5	16	19	19
210	120-2000	57-944	1,2,3	5	9	10.5	12	15.5	9	19	19
212	180-3000	85-1416	1,2,3	5	9	10.5	12	15.5	9	20.5	25.5
214	400-5000	189-2359	1,2,3	5	9	10.5	12	15.5	16	37	42.5
312	270-4500	127-2124	1,2,3	5	9	10.5	12	15.5	16	37	46.5

Notes:

1. Low watt density elements (max 35 w/sq.in)
2. NRTL/C and CSA certified coil
3. Minimum air flow must be at least 70 cfm per kilowatt to meet requirements
4. Replacement Parts: Refer to Price List pages F1060 - F1080

### Electric Coil Housing Liners

- SM = 3/4" Solid Metal Lined Fiberglass
- CRAF= 5/8" Foil Faced Liner with Metal Angles
- FF = 3/4" Fiberfree Foam

Note: Electric coils are supplied standard with Air Flow Switch, Main Line Fusing, Door Interlock Disconnect, Auto Reset Switch, Manual Reset Switch, high grade heating elements, and a Class II control transformer.

CRITICAL CONTROLS