

Electric Heat

Standard Features

- » Galvanized steel casing
- » Flanged construction for direct unit mounting, in blow-thru configuration
- » Listed for zero clearance installation
- » Meets National Electrical Code requirements
- » Ni-Chrome wire in ceramic insulators
- » Stainless steel element terminals and hardware
- » Element support brackets on maximum 3 1/2" centers
- » Solid cover with continuous full height hinge
- » Overtemperature protection
- » All internal wiring rated for 105°C minimum
- » Airflow switch
- » Incoming line power distribution block
- » ETL Listed in compliance with UL/ANSI Standard 1995
- » Single point power connection
- » Heater factory mounted to unit with ETL listing as an assembly

Optional Features

- » Door interlocking disconnect switch
- » Fusing (main) (per stage)
- » Magnetic contactors wired for disconnecting operation
- » Fan control package with heater interlock contacts (required for single point power connection)

Heater AMP Calculation	
Voltage	AMPs per kW
115/1	8.70
208/1	4.81
230/1	4.35
277/1	3.61
208/3	2.78
230/3	2.51
460/3	1.26
575/3	1.00



Electrical Calculations Information

1. Contact Titus for MCA and/or MOP calculations
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

Unit Voltage And Phase			Electric Heat KW Limits											
			Unit Size											
			08		12		16		20		25		30	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
Single Phase	115	kW	3	5	3	5	3	5	4	5				
		AMPs	26.1	43.5	26.1	43.5	26.1	43.5	34.8	43.5				
	208	kW	3	9	3	9	3	9	4	9	6	9	6	9
		AMPs	14.4	43.3	14.4	43.3	14.4	43.3	19.2	43.3	28.8	43.3	28.8	43.3
	230	kW	3	11	3	11	3	11	4	11	6	11	6	11
		AMPs	13.0	47.8	13.0	47.8	13.0	47.8	17.4	47.8	26.1	47.8	26.1	47.8
	277	kW	3	13	3	13	3	13	4	13	6	13	6	13
		AMPs	10.8	46.9	10.8	46.9	10.8	46.9	14.4	46.9	21.7	46.9	21.7	46.9
Three Phase	208	kW	3	13	3	16	3	16	4	16	4	16	4	16
		AMPs	8.3	36.1	8.3	44.4	8.3	44.4	11.1	44.4	11.1	44.4	11.1	44.4
	230	kW	3	13	3	18	3	18	4	18	4	18	4	18
		AMPs	7.5	32.6	7.5	45.2	7.5	45.2	10.0	45.2	10.0	45.2	10.0	45.2
	460	kW	3	13	3	20	3	20	4	26	4	26	4	26
		AMPs	3.8	16.3	3.8	25.1	3.8	25.1	5.0	32.6	5.0	32.6	5.0	32.6
	575	kW	3	13	3	20	3	20	4	26	4	26	4	26
		AMPs	3.0	13.1	3.0	20.1	3.0	20.1	4.0	26.1	4.0	26.1	4.0	26.1

Notes:

1. Electric heat sections may be shipped separate for field installation to unit
2. Factory certified submittals available upon request
3. Standard heater kW limits are maximum per unit size and voltage
4. Heater should be sized for a maximum leaving air temperature of 104°F

ELECTRIC DATA

MOTOR ELECTRICAL DATA

Horsepower	Maximum Motor Amperage							
	Voltage							
	115/1	208/1	230/1	277/1	208/3	230/3	460/3	575/3
1/3	6.3	3.5	3.2	2.6	1.7	1.5	0.8	-
1/2	7.8	4.3	3.9	3.6	2.2	2.1	1.1	0.9
3/4	10.6	5.4	5.3	5.0	3.2	3.0	1.5	1.2
1	15.0	8.3	7.5	5.5	4.0	3.6	1.8	1.4
1 1/2	-	-	-	-	5.3	5.0	2.5	1.9
2	-	-	-	-	7.0	6.4	3.2	2.5
3	-	-	-	-	9.1	9.0	4.5	3.2

Notes:

1. Actual motor nameplate AMPs may vary, but will not exceed values shown
2. Consult Titus for applications requiring special motors

UNIT WEIGHT DATA

Component							
		08	12	16	20	25	30
Base Unit		125 [57]	131 [60]	160 [73]	167 [76]	231 [105]	236 [107]
Damper Section		42 [19]	53 [24]	59 [27]	73 [33]	91 [41]	91 [41]
Blow-thru Electric Heater		42 [19]	42 [19]	42 [19]	50 [23]	55 [25]	55 [25]
Discharge Coil Section		35 [16]	37 [17]	49 [22]	53 [24]	76 [35]	80 [36]
Supply Plenum		22 [10]	26 [12]	35 [16]	38 [17]	76 [35]	76 [35]
Return Plenum (TBL)		29 [13]	30 [14]	33 [15]	35 [16]	44 [20]	44 [20]
Coil Rows	1 Row - Dry	12 [5]	14 [6]	17 [8]	21 [10]	23 [10]	27 [12]
	1 Row - Wet	14 [6]	17 [8]	21 [10]	26 [12]	28 [13]	34 [15]
	2 Row - Dry	17 [8]	21 [10]	26 [12]	32 [15]	37 [17]	43 [20]
	2 Row - Wet	21 [10]	27 [12]	33 [15]	42 [19]	48 [22]	56 [25]
	4 Row - Dry	29 [13]	36 [16]	45 [20]	57 [26]	65 [30]	76 [35]
	4 Row - Wet	37 [17]	47 [21]	58 [26]	75 [34]	86 [39]	101 [46]
	6 Row - Dry	40 [18]	51 [23]	64 [29]	81 [37]	93 [42]	109 [50]
	6 Row - Wet	52 [24]	66 [30]	84 [38]	109 [50]	124 [56]	146 [66]

Notes:

1. Unit weight data is shipping weight in pounds [kilograms]
2. Discharge section includes a 2 row coil

MOTOR/DRIVE WEIGHT DATA

Type	Motor HP						
	1/3	1/2	3/4	1	1 1/2	2	3
Single Phase	37 [17]	37 [17]	45 [20]	47 [21]	-	-	-
Three Phase	34 [15]	34 [15]	40 [18]	43 [20]	46 [21]	53 [24]	81 [37]

Notes:

1. Includes motor, pulleys, belts, and motor base
2. Motor/drive weight data is shipping weight in pounds [kilograms]

