

For Door Heights To 10' (environmental separation)

STANDARD FEATURES

- 1/2 hp three speed motor(s)
- Factory installed "Intelliswitch" digital programmable controller - *see features below*
- High efficiency, low noise Pro-V Nozzle (patent pending)
- Galvanized steel blower wheels & housing
- Lockable aluminum airfoil directional vanes
- Filter included (washable)


- Hinged white aluminum bottom access panel
- Powder coated inlet screen
- Venturi-style electric heaters (patent pending)
- Easily replaceable heaters
- Two year parts warranty
- Crafted with Pride in the USA

OPTIONAL FEATURES

- Stainless steel or custom color finish

MODEL	Nozzle Width (in)	Max FPM at Nozzle	Max CFM at Nozzle	CFM at Nozzle	Lab Data				Motor(s) @ hp	Electric Capacity (kW)	Heater Capacity (mbtu/hr)	Temp Rise °F	Net Wgt (lbs)
					Avg. Outlet Vel. (fpm)	Air Volume (scfm)	Power Rating (kW)	Outlet Vel. Unif. (%)					
FCA1036E	36"	5444	4382	2849	1573	1376	0.47	92	1 @ 1/2	14	47782	32	104
FCA1042E	42"	4828	4189	2723	1549	1581	0.49	85	1 @ 1/2	14	47782	28	111
FCA1048E	48"	4839	4912	3193	1377	1607	0.51	87	1 @ 1/2	14	47782	27	117
FCA1060E	66"	4828	5985	3890	1027	1647	0.52	85	1 @ 1/2	14	47782	27	137
FCA2060E	66"	5202	6903	4487	1674	2686	0.92	91	2 @ 1/2	28	95564	33	178
FCA2072E	72"	5444	8765	5697	1573	2752	0.94	92	2 @ 1/2	28	95564	32	185
FCA2084E	84"	4828	8379	5446	1549	3162	0.98	85	2 @ 1/2	28	95564	28	210
FCA2096E	99"	4839	9823	6385	1336	3214	1.02	87	2 @ 1/2	28	95564	27	223
FCA3096E	99"	5500	11807	7674	1493	3593	1.41	94	3 @ 1/2	42	143346	37	264
FCA2108E	108"	4828	10772	7002	1243	3262	1.04	85	2 @ 1/2	28	95564	27	230
FCA3108E	108"	4828	10772	7002	1573	4128	1.45	85	3 @ 1/2	42	143346	27	271
FCA3120E	117"	4828	11969	7780	1596	4538	1.45	85	3 @ 1/2	42	143346	29	281
FCA3132E	132"	4839	13507	8779	1431	4590	1.49	87	3 @ 1/2	42	143346	29	303
FCA3144E	144"	4839	14735	9578	1377	4821	1.53	87	3 @ 1/2	42	143346	27	316
FCA4144E	144"	5444	17530	11394	1573	5504	1.88	92	4 @ 1/2	56	191128	32	357

*Reduced kW heaters available, see sheet KW-427



Intelliswitch Features:

- ◆ Time Delay
- ◆ 3 Speed Fan Selection
- ◆ On/Off/Auto Operation
- ◆ Start/Stop Times
- ◆ Thermostat
- ◆ Low Voltage Control Circuit
- ◆ Time Clock
- ◆ LED Display
- ◆ Lockable Display

POWER SUPPLIES/MOTOR AMP DRAWS							
VOLTS	120	208	240	480	600	220*	380*
PHASE	1	1	1	3	3	1	1
HERTZ	60	60	60	60	60	50	50
AMPS per MOTOR	8.5	4.3	4.3	1.4	1.0	4.3	4.3

*Operation at 50 Hz will generate approximately a 17% reduction in performance.

VELOCITY PROFILE <i>Model: FCA1036E</i>			
Distance from Nozzle (ft)	3	6.5	10
Distance from Nozzle (m)	1	2	3
Core Velocity (fpm)	1889	1333	1028
Core Velocity (m/s)	9.60	6.77	5.22
Uniformity	90	85	87

Sound level measured 10' (3m) from the unit in free field:
60 dBA



Berner reserves the right to alter specifications without prior notice.



FCA-10 Available kW's and Resulting Amp Draws										
		Heater kW	208/1	240/1	208/3	240/3	480/3	600/3		
1 Motor	FCA1036E FCA1042E FCA1048E FCA1060E	6 kW	28.8 (1)	25.0 (1)	16.7 (1)	14.4 (1)	7.2 (1)	6.0 (1)		
		8 kW	38.5 (1)	33.3 (1)	22.2 (1)	19.2 (1)	9.6 (1)	8.0 (1)		
		10 kW	48.1 (2)	41.7 (1)	27.8 (1)	24.1 (1)	12.0 (1)	10.0 (1)		
		14 kW	67.3 (2)	58.3 (2)	38.9 (1)	33.7 (1)	16.8 (1)	14.1 (1)		
2 Motor	FCA2060E FCA2072E FCA2084E FCA2096E FCA2108E	12 kW	57.7 (2)	50.0 (2)	33.3 (1)	28.9 (1)	14.4 (1)	12.0 (1)		
		16 kW	76.9 (2)	66.7 (2)	44.4 (2)	38.5 (1)	19.2 (1)	16.1 (1)		
		20 kW	N/A	N/A	55.5 (2)	48.1 (2)	24.1 (1)	20.1 (1)		
		28 kW	N/A	N/A	77.7 (2)	67.4 (2)	33.7 (1)	28.1 (1)		
3 Motor	FCA3096E FCA3108E FCA3120E FCA3132E FCA3144E	18 kW	N/A	N/A	50.0 (2)	43.3 (1)	21.7 (1)	18.1 (1)		
		24 kW	N/A	N/A	66.6 (2)	57.7 (2)	28.9 (1)	24.1 (1)		
		30 kW	N/A	N/A	83.3 (2)	72.2 (2)	36.1 (1)	30.1 (1)		
		42 kW	N/A	N/A	116.6 (3)	101.0 (3)	50.5 (2)	42.2 (1)		
4 Motor	FCA4144E	24 kW	N/A	N/A	66.6 (2)	57.7 (2)	28.9 (1)	24.1 (1)		
		32 kW	N/A	N/A	88.8 (3)	77.0 (2)	38.5 (1)	32.1 (1)		
		40 kW	N/A	N/A	111.0 (3)	96.2 (3)	48.1 (2)	40.2 (1)		
		56 kW	N/A	N/A	155.4 (4)	134.7 (4)	67.4 (2)	56.2 (2)		
Amps per kW			4.81	4.17	2.78	2.41	1.20	1.00		

Note: Power supply circuits are included above in parenthesis

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IN-CEILING MOUNT-10 Electric Heated

kW, BTU/HR and Temperature Rise



No.:
Date:

KW-427B
June, 2011

FCA ELECTRIC HEATER kW AND TEMPERATURE RISE - 208-600/3

Model	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F	Heater kW @ 208-600/3	BTU/HR	AIR TEMP RISE °F
FCA1036E*	14	47,782	32	10	34,130	23	8	27,304	18	6	20,478	14
FCA1042E*	14	47,782	28	10	34,130	20	8	27,304	16	6	20,478	12
FCA1048E*	14	47,782	27	10	34,130	20	8	27,304	16	6	20,478	12
FCA1060E*	14	47,782	27	10	34,130	19	8	27,304	15	6	20,478	11
FCA2060E*	28	95,564	33	20	68,260	23	16	54,608	19	12	40,956	14
FCA2072E*	28	95,564	32	20	68,260	23	16	54,608	18	12	40,956	14
FCA2084E*	28	95,564	28	20	68,260	20	16	54,608	16	12	40,956	12
FCA2096E*	28	95,564	27	20	68,260	20	16	54,608	16	12	40,956	12
FCA3096E*	42	143,346	37	30	102,390	26	24	81,912	21	18	61,434	16
FCA2108E*	28	95,564	27	20	68,260	20	16	54,608	16	12	40,956	12
FCA3108E*	42	143,346	27	30	102,390	23	24	81,912	18	18	61,434	14
FCA3120E*	42	143,346	29	30	102,390	21	24	81,912	17	18	61,434	12
FCA3132E*	42	143,346	29	30	102,390	21	24	81,912	16	18	61,434	12
FCA3144E*	42	143,346	27	30	102,390	20	24	81,912	16	18	61,434	12
FCA4144E*	56	191,128	32	40	136,520	23	32	109,216	18	24	81,912	14

*For reduced kW, the model number needs to include kW. Example: FCA2096EB-140 for 14 kW heat.

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