



# MODEL eRED DOWNBLAST CENTRIFUGAL ROOF EXHAUSTER WITH ELECTRONICALLY COMMUTATED MOTOR

## APPLICATION

Model eRED fans are designed to exhaust air up to 3,000 CFM in high static pressure applications to 1.5". The spun aluminum exterior provides an attractive appearance. The non-overloading backward inclined wheel with its higher static pressure capability makes this unit suitable for either ducted or nonducted applications. Its roof mounting permits location near the area to be ventilated, allowing short duct runs and more efficient operation.

The eRED comes with S&P's electronically commutated motor (eMotor) which offers the energy efficiency of a DC motor with the ease of maintenance of direct drive motors. The eMotor provides the benefit of a fully controllable motor which can be controlled by a PC or building management system.

The eRED is ideally suited to solve ventilation challenges in multi-story buildings. The model provides an energy efficient answer to venting dryers, bathrooms and kitchens in hotels, high rise buildings, institutional facilities and dormitories.

## CONSTRUCTION

### Housing

- Curb cap has integral deep spun inlet for efficient performance and prepunched mounting holes for ease of installation.
- Fan plate isolates motor compartment from contaminated exhaust air.
- Spun aluminum hood and skirt for weather protection and attractive appearance.
- Heavy-gauge motor support for rigidity and strength.
- Neoprene isolators for reduction of vibration and sound.
- Quick access to motor compartment for ease of maintenance.
- Conduit passage for easy electrical connection from below roof.
- Birdscreen included on standard models.

### Wheel

- Backward inclined for efficiency at higher static pressure.
- Non-overloading for safe operation in ducted systems.
- Tapered blades for efficiency and quiet operation.
- Wheels constructed of noncorrosive aluminum.
- Statically and dynamically balanced for smooth operation.

### Electronically Commutated Motors

- Brands are nationally recognized and locally serviced.
- Easy speed control by DC 0-10 V variation or EC style speed controller.
- Can be controlled by a PC or building management system.
- Motor has 80% usable turndown vs. 30% on a PSC motor.
- Internal motor circuitry converts 115/230 V single phase AC power to DC voltage for increased efficiencies.
- All motors are rated for continuous duty.
- Motor is 115/230V and 50/60 Hz.
- Disconnect ships mounted and wired as standard.
- Potentiometer ships mounted and wired as standard.
- Motors ship mounted as standard.

MODEL RED	RECOMMENDED 12" HIGH MOUNTING CURB		RECOMMENDED GRAVITY DAMPER		DAMPER MOTOR (LOOSE)
	OD	STOCK NO.	OD	STOCK NO.	STOCK NO.
6	14 3/4	611214 ●	11	411011 ●	411611 ●
8	14 3/4	611214 ●	11	411011 ●	411611 ●
10	14 3/4	611214 ●	11	411011 ●	411611 ●
12	22 1/4	611222 ●	18	411018 ●	411611 ●
15	22 1/4	611222 ●	18	411018 ●	411611 ●



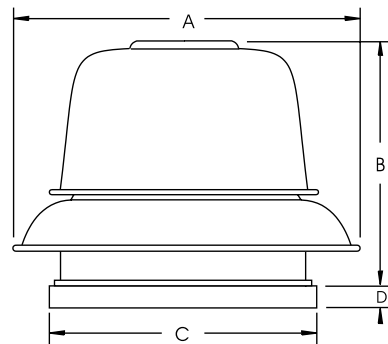
## AMCA SEAL



Soler & Palau, USA, certifies that the Models RED shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



LISTED POWER ROOF VENTILATOR  
UL STANDARD 705



## DIMENSIONAL DATA

MODEL RED	A	B	C	D	ROOF OPENING	Average Ship Wt. Lbs.
6	21 3/4	12	16 1/2	1 3/4	11 3/4	50
8	21 3/4	15 3/4	16 1/2	1 3/4	11 3/4	50
10	21 3/4	17 1/4	16 1/2	1 3/4	11 3/4	50
12	33 1/8	23 1/2	24	2	19 1/4	120
15	33 1/8	23 1/2	24	2	19 1/4	124

### Ship Schedules:

- Next Day Shipment From Stock
- ▲ 3 Day Shipment From Stock
- ◆ 10 Day Shipment

ALL DIMENSIONS IN INCHES, WEIGHTS IN POUNDS. OD IS OUTSIDE DIMENSION OF SQUARE CURB AND DAMPER. DUE TO CONTINUING RESEARCH, SOLER & PALAU RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

**Please refer to the General Catalog or contact the Factory for our Full Line of products available on standard shipping schedules.**

CENTRIFUGAL ROOF & WALL EXHAUSTERS

**CENTRIFUGAL ROOF & WALL EXHAUSTERS**

<b>MODEL eRED</b>					<b>Downblast Direct Drive Centrifugal Roof Exhauster with ECM</b>										Ventilator with Electronically Commutated Open Drip-proof Motor	
Model eRED	Motor Hp	Max. BHp	RPM	Sones @ 1/8 SP	CFM at Static Pressure										115/1/60	208-230/1/60
					0	1/8	1/4	3/8	1/2	5/8	3/4	1	1-1/4	Stock No.	Stock No.	
6	1/4	0.01	900	1.2	202	95	-	-	-	-	-	-	-	-	eRED06MH1AS ♦	eRED06MH1CS ♦
		0.01	1100	2.4	246	167	41	-	-	-	-	-	-	-		
		0.02	1350	4	302	239	165	52	-	-	-	-	-	-		
		0.03	1550	5.5	347	293	234	161	54	-	-	-	-	-		
		0.05	1750	7.5	392	344	294	237	168	72	-	-	-	-		
8	1/4	0.01	600	0.4	342	103	-	-	-	-	-	-	-	-	eRED08MH1AS ♦	eRED08MH1CS ♦
		0.03	850	2.3	485	356	148	-	-	-	-	-	-	-		
		0.04	1000	3.6	571	465	334	91	-	-	-	-	-	-		
		0.07	1150	5	656	566	463	331	92	-	-	-	-	-		
		0.09	1300	6.5	742	663	577	477	350	141	-	-	-	-		
		0.16	1550	9.2	884	819	750	676	593	497	376	-	-	-		
10	1/3	0.01	550	0.6	488	59	-	-	-	-	-	-	-	-	eRED10PH1AS ♦	eRED10PH1CS ♦
		0.03	800	2.8	710	513	182	-	-	-	-	-	-	-		
		0.05	950	4.3	843	682	488	86	-	-	-	-	-	-		
		0.08	1100	6.2	977	839	688	497	117	-	-	-	-	-		
		0.11	1250	8.1	1110	989	862	719	539	231	-	-	-	-		
		0.2	1500	12	1332	1232	1129	1021	903	769	602	-	-	-		
		0.31	1750	15.2	1554	1468	1381	1292	1199	1100	993	729	-	-		
12	1/2	0.01	500	1.1	751	248	-	-	-	-	-	-	-	-	eRED12QH1AS ♦	eRED12QH1CS ♦
		0.03	650	2.7	976	556	162	-	-	-	-	-	-	-		
		0.05	800	4.6	1201	801	566	214	-	-	-	-	-	-		
		0.08	900	5.9	1351	956	753	518	151	-	-	-	-	-		
		0.14	1100	8.8	1651	1256	1084	918	735	504	176	-	-	-		
		0.2	1250	11.4	1876	1477	1317	1171	1024	864	676	123	-	-		
		0.28	1400	14.4	2102	1695	1544	1410	1281	1149	1008	663	147	-		
		0.51	1700	20	2552	2128	1989	1869	1758	1651	1545	1324	1077	-		
15	1/2	0.02	400	0.6	1046	255	-	-	-	-	-	-	-	-	eRED15QM1AS ♦	eRED15QM1CS ♦
		0.05	550	2.9	1439	931	245	-	-	-	-	-	-	-		
		0.11	700	5.4	1831	1445	1015	489	-	-	-	-	-	-		
		0.16	800	7.3	2093	1760	1398	1000	511	-	-	-	-	-		
		0.19	850	8.4	2223	1912	1575	1213	802	187	-	-	-	-		
		0.27	950	10.6	2485	2210	1914	1602	1269	895	401	-	-	-		
		0.48	1150	15.7	3008	2786	2546	2299	2044	1778	1496	-	-	-		

Performance certified is for installation type A-free inlet, free outlet.  
 Performance ratings include the effects of birdscreen.  
 The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A-free inlet hemispherical sone levels.  
 Speed (RPM) shown is nominal. Performance is based on actual speed of test.

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