

## GridSmart™ Premium Efficiency Products

### Are you GridSmart?

As the demand to reduce energy consumption continues to shape the future of the fan industry, Twin City Fan & Blower's new line of GridSmart™ Electronically Commutated (EC) Motors can help get you on the fast track for meeting the Department of Energy's new fan regulations. GridSmart™ EC Motors combine AC and DC voltages in order to bring our customer's the best of both technologies and have the ability to maintain high efficiencies at the demanded speed of the application.

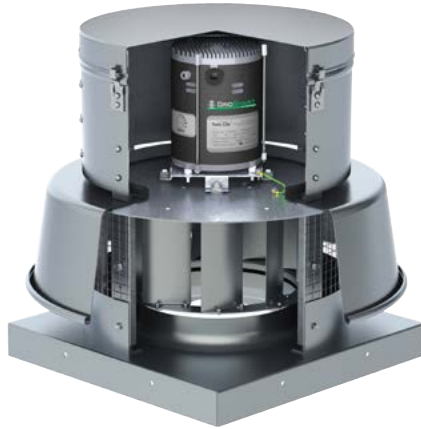
If your application requires a variable load, consider the GridSmart™ EC motors. If the flow is reduced by half, the power will be reduced by 87.5%!!!

### Benefits of GridSmart™ EC Motors

- Efficiencies up to 87.5%
- Constant efficiency as the motor speed is varied
- Up to 66% energy savings over traditional PSC motors
- Performance range comparable to a belt drive fan with reduced maintenance benefits of a direct drive fan
- 80% usable turndown range as compared with 40% maximum on PSC motors
- Soft start gives fans smooth, quiet start
- Lower operating temperatures result in longer life and reduces energy consumption
- Heavy duty ball bearings are permanently lubricated

Twin City Fan is proud to present the following sizes, RPMs and frame sizes. See page 2 for model availability.

Motor Data	HP	RPM	Voltage/ Phase	HZ	Enclosure
1/4	1750	115/1	50/60	ODP	
		208-230/1	50/60	TENV	
1/2	1750	115/1	50/60	ODP	
3/4	1750	115/1	50/60	ODP	
1	1160	115/1	50/60	ODP	
		115/1	50/60	ODP	
	1750	115/208-230	50/60	TEFC	
2	1750	208-230	50/60	TEFC	






# GRIDSMART™

## EC MOTORS

By Twin City Fan & Blower



**DSI**

Size	HP	Max RPM
080AE	1/4	1750
090AE	1/4	1750
100AE	1/2	1750
120AE	3/4	1750
135ANE	3/4	1750
135AE	1	1750
	2	1750
150ANE	1	1750
	2	1750
150AE	1	1160
	1	1200
	2	1750
165ANE	1	1160
	2	1750
165AE	1	1160
	2	1500



**DCRD**

Size	HP	Max RPM
060BE	1/4	1750
070BE	1/4	1750
080BE	1/4	1750
085BE	1/4	1750
090BE	1/4	1750
095BE	1/4	1750
100BE	1/4	1750
120BE	1/2	1750
130BE	3/4	1750
140BE	3/4	1750
150BE	1	1160
	1	1400
160BE	1	1160
	2	1750
170BE	1	1000
	2	1600
180BE	1	1160
	2	1300



**DCV**

Size	HP	Max RPM
090	1/4	1750
105	1/4	1750
122	1/5	1750
135	3/4	1750
150	1	1160
	2	1750
165	1	1160
	2	1604
182	1	1160
	3	1508
200	3	1376



**DCRU | DCRUR  
DCRW | DCRWR**

Size	HP	Max RPM
073BE	1/4	1750
083BE	1/4	1750
093BE	1/4	1750
110BE	1/2	1750
120BE	3/4	1750
140BE	1	1750
	2	1750
160BE	1	1160
	1	1200
	2	1750
180BE	1	1160
	1	1100
	2	1400



**TCPE**

Size	HP	Max RPM
082AE	1/4	1750
102AE	1/4	1750
122AE	1/4	1750
142AE	1/2	1750
162AE	3/4	1750
182AE	3/4	1750
202AE	3/4	1750



**DCLH | DCLP**

Size	HP	Max RPM
060E	1/4	1750
070E	1/4	1750
080E	1/4	1750
085E	1/4	1750
090E	1/4	1750
095E	1/4	1750
100E	1/4	1750
120E	1/2	1750