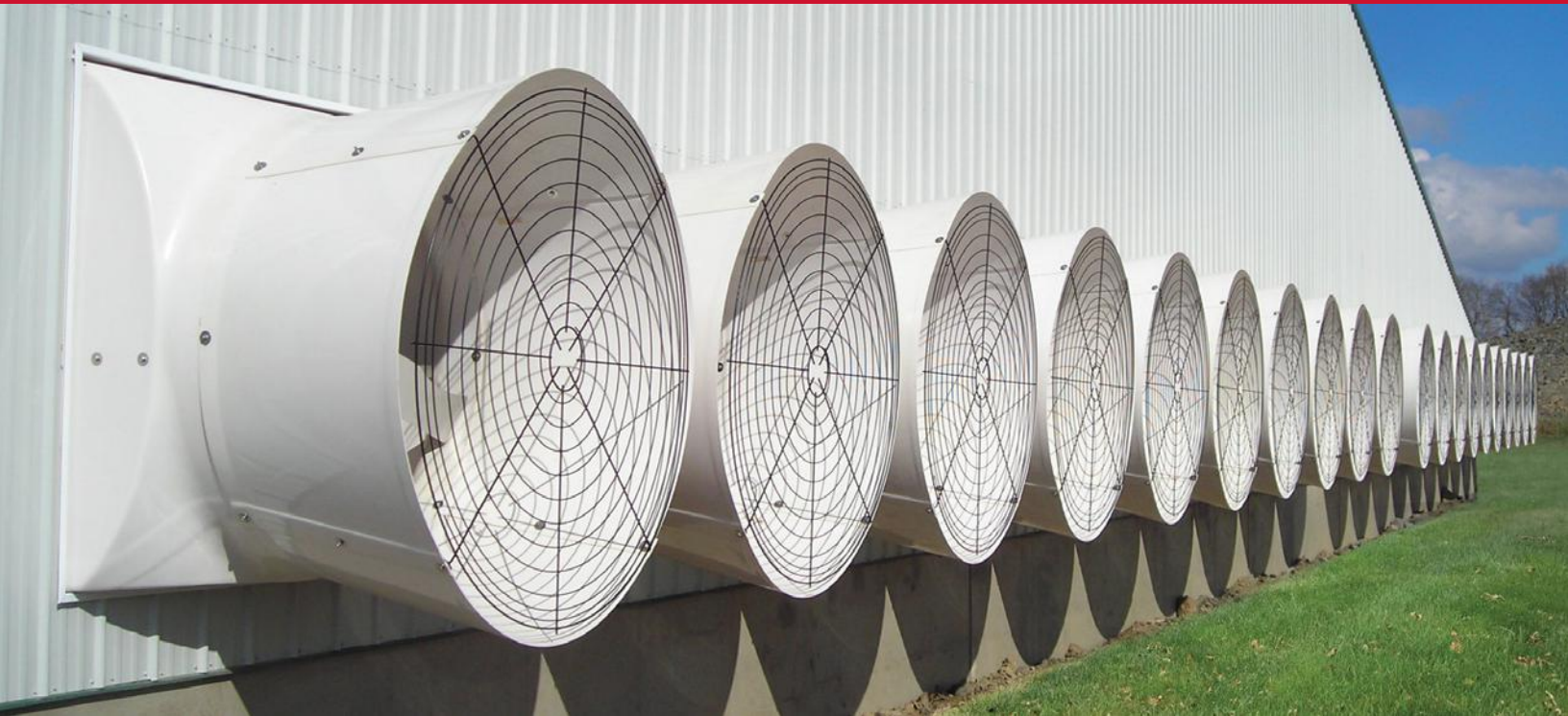




VENTILATION SYSTEMS

# COMMANDER FANS



## Take Command of Your Ventilation System

Plan your next ventilation strategy with the 36" or 54" Commander direct drive fans built for high efficiency, high output, and remote access through your EDGE® control system.



Durable fiberglass and poly cone options



High performance, permanent magnet motor runs cool to the touch and supplies constant torque to the propeller.



Industry leading drive allows for the use of failsafe relays or back-up thermostats as required.



# Command Performance with Variable Speed Precision

- 36" and 54" models available
- Single and three phase power supplies
- 0-10 volt or 10-0 volt input for speed control of the fan
- Reduces total fan energy costs
- Fiberglass and poly cone options
- RollSeal® offerings maintain efficiency and increase performance
- Low maintenance
  - No Belts
  - No Pulleys
  - No Grease
- Each fan model covers all performance and efficiency options
- Optistick and Smart Phone App allow for easy parameter changes and simplified diagnostics
- Reduced wiring costs, no need for control relay to engage fan
- User defined RPM when failsafe mode is engaged by backup thermostat or relay
- High performance permanent magnet motor runs cool to the touch and supplies constant torque to the propeller.
- Output on drive to monitor motor current



ALUMINUM MOTOR MOUNTS, STAINLESS STEEL HARDWARE AND NON-CORROSIVE PROPS



HIGH PERFORMANCE, PERMANENT MAGNET ELECTRIC MOTOR DESIGN

## Pair your Commander fans with EDGE® control to gain maximum ventilation efficiency and performance with remote access and complete system management.

EDGE will maintain optimum performance from high efficiency levels to maximum ventilation levels depending on the ventilation demands on the system. No need to choose which model fan suits your needs, the combination of EDGE and Commander fans encompass all high efficiency to high output requirements.



When connected to an EDGE control system you can remotely monitor the system and see the current draw of each Commander fan. The industry leading drive allows for the use of failsafe relays or backup thermostats as required.

**36" COMMANDER  
ROLLSEAL® SHUTTER**

*230 VAC 60 Hz  
Single Phase Power*

**Bess Lab Test 19244**

1207 RPM	AFR	0.93
Static Pressure	Airflow	Efficiency
0.00	17,880	14.38
0.05	17,330	13.39
0.10	16,810	12.53
0.15	16,250	11.75
0.20	15,670	11.01
0.25	15,090	10.43
0.30	14,440	9.90
1080 RPM	AFR	0.88
Static Pressure	Airflow	Efficiency
0.00	15,990	17.99
0.05	15,340	16.48
0.10	14,660	15.08
0.15	14,100	14.09
0.20	13,520	13.18
0.25	12,790	12.13
0.30	12,120	11.34
960 RPM	AFR	0.84
Static Pressure	Airflow	Efficiency
0.00	14,230	22.73
0.05	13,420	20.00
0.10	12,810	18.54
0.15	12,120	16.97
0.20	11,440	15.42
0.25	10,510	13.92
0.30	9,280	12.54
841 RPM	AFR	0.76
Static Pressure	Airflow	Efficiency
0.00	12,410	29.27
0.05	11,580	25.28
0.10	10,840	22.77
0.15	10,040	20.36
0.20	9,030	17.99
0.25	7,540	15.32
0.30	4,440	9.67
721 RPM	AFR	0.53
Static Pressure	Airflow	Efficiency
0.00	10,590	38.79
0.05	9,670	32.45
0.10	8,770	28.02
0.15	7,670	23.73
0.20	5,570	18.57
0.25	2,640	8.35
602 RPM	AFR	N/A
Static Pressure	Airflow	Efficiency
0.00	8,800	52.69
0.05	7,720	41.73
0.10	6,480	33.40
0.15	3,290	18.69

**36" COMMANDER  
PVC SHUTTER**

*230 VAC 60 Hz  
Single Phase Power*

**Bess Lab Test 19243**

1207 RPM	AFR	0.91
Static Pressure	Airflow	Efficiency
0.00	17,120	13.27
0.05	16,650	12.48
0.10	16,030	11.62
0.15	15,610	11.05
0.20	15,110	10.47
0.25	14,440	9.96
0.30	13,770	9.41
1080 RPM	AFR	0.88
Static Pressure	Airflow	Efficiency
0.00	15,320	16.54
0.05	14,730	15.34
0.10	14,150	14.26
0.15	13,600	13.41
0.20	12,900	12.48
0.25	12,270	11.60
0.30	11,550	10.81
960 RPM	AFR	0.82
Static Pressure	Airflow	Efficiency
0.00	13,530	20.72
0.05	12,960	19.11
0.10	12,330	17.51
0.15	11,660	16.13
0.20	10,870	14.69
0.25	9,790	13.12
0.30	8,420	11.53
841 RPM	AFR	0.71
Static Pressure	Airflow	Efficiency
0.00	11,820	26.80
0.05	11,100	23.77
0.10	10,420	21.53
0.15	9,490	19.09
0.20	8,190	16.35
0.25	6,090	12.82
0.30	3,900	8.02
721 RPM	AFR	0.42
Static Pressure	Airflow	Efficiency
0.00	9,970	35.35
0.05	9,110	30.37
0.10	8,080	25.49
0.15	6,560	20.76
0.20	4,120	13.55
0.25	2,120	6.44
602 RPM	AFR	N/A
Static Pressure	Airflow	Efficiency
0.00	8,080	45.91
0.05	6,930	37.46
0.10	5,090	27.51
0.15	2,540	13.37

**54" COMMANDER  
ROLLSEAL® SHUTTER**

*230 VAC 60 Hz  
Single Phase Power*

**Bess Lab Test 18576**

708 RPM	AFR	0.89
Static Pressure	Airflow	Efficiency
0.00	36,500	19.22
0.05	35,200	17.60
0.10	34,100	16.51
0.15	32,900	15.24
0.20	31,400	14.06
0.25	30,100	13.12
0.30	28,500	12.12
0.35	26,800	11.13
0.40	25,000	10.20
0.45	22,500	9.11
0.50	19,100	7.85
693 RPM	AFR	0.88
Static Pressure	Airflow	Efficiency
0.00	35,600	19.79
0.05	34,600	18.57
0.10	33,400	17.15
0.15	32,000	15.83
0.20	30,600	14.66
0.25	29,000	13.48
0.30	27,200	12.28
617 RPM	AFR	0.85
Static Pressure	Airflow	Efficiency
0.00	32,300	25.78
0.05	31,900	24.06
0.10	30,300	21.64
0.15	28,800	19.70
0.20	27,200	17.94
0.25	25,200	16.09
0.30	23,200	14.47
554 RPM	AFR	0.79
Static Pressure	Airflow	Efficiency
0.00	28,900	32.15
0.05	27,400	28.45
0.10	25,600	25.00
0.15	23,700	22.19
0.20	21,700	19.51
0.25	19,000	16.64
0.30	15,100	13.33
425 RPM	AFR	0.40
Static Pressure	Airflow	Efficiency
0.00	22,200	54.55
0.05	20,000	43.86
0.10	17,300	35.31
0.15	14,300	27.98
0.20	7,900	15.55

**54" COMMANDER  
PVC SHUTTER**

*230 VAC 60 Hz  
Single Phase Power*

**Bess Lab Test 18575**

708 RPM	AFR	0.89
Static Pressure	Airflow	Efficiency
0.00	35,200	17.90
0.05	33,900	16.49
0.10	32,700	15.34
0.15	31,500	14.26
0.20	30,300	13.35
0.25	28,800	12.30
0.30	27,100	11.33
0.35	25,300	10.42
0.40	23,300	9.48
0.45	20,600	8.34
0.50	15,900	6.62
693 RPM	AFR	0.89
Static Pressure	Airflow	Efficiency
0.00	34,400	18.63
0.05	33,200	17.24
0.10	31,900	15.98
0.15	30,800	14.89
0.20	29,400	13.75
0.25	27,800	12.68
0.30	26,200	11.70
617 RPM	AFR	0.84
Static Pressure	Airflow	Efficiency
0.00	30,700	23.45
0.05	29,500	21.53
0.10	28,100	19.58
0.15	26,600	17.85
0.20	24,900	16.12
0.25	22,800	14.38
0.30	20,400	12.68
554 RPM	AFR	0.78
Static Pressure	Airflow	Efficiency
0.00	27,800	29.20
0.05	26,200	25.89
0.10	24,600	23.12
0.15	22,700	20.51
0.20	20,500	18.00
0.25	17,100	14.72
0.30	11,900	10.37
422 RPM	AFR	0.32
Static Pressure	Airflow	Efficiency
0.00	20,800	47.06
0.05	18,800	39.09
0.10	16,000	31.62
0.15	10,500	20.92
0.20	6,000	10.93







# COMMANDER FANS

## PVC Shutters

Shutters can provide an easy and affordable means of controlling incoming light and building climate. The true airfoil design of the shutter blades allows for very little performance loss in airflow. Low maintenance and easy to clean.



## RollSeal® Shutters

The 2-ply flexible RollSeal shutter provides an excellent source of insulation with a positive seal for greater efficiency. The patented sealing system provides excellent wind load resistance. Available for both the 36" and 54" Commander fans.



## Commander Fan Dimensions

Diameter	H.P.	A	B	C	D	E	Recommended Wall Opening
36"	1.5	54.5"	26.75"	44.375"	46.75"	46.75"	44.5" x 44.5"
54"	3	57.5"	28.95"	65"	64"	62"	58" x 60.5"

54" Commander fan center to center spacing on wall with cone: 65"

