

# HIGH EFFICIENCY

## DC POWERED VENTURI FANS



# SNAP-FAN<sup>®</sup>

.COM



## SOLAR DIRECT 5027 CFM 20" HLE DC BRUSHLESS SOLAR FAN

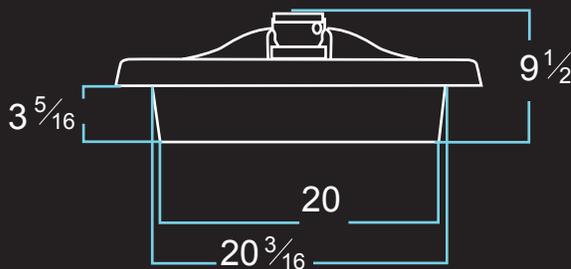
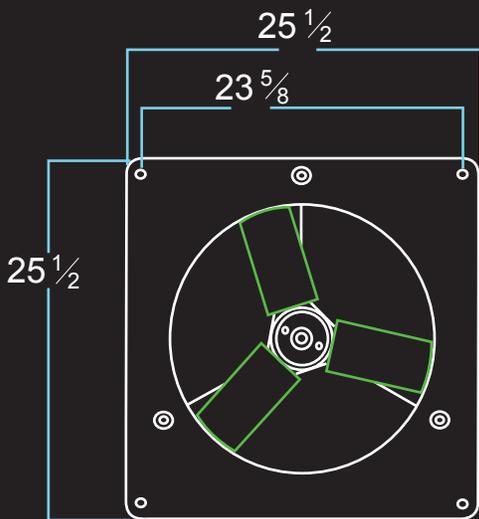
- Three discrete speed taps for user selected performance.
- High efficiency industrial grade Brushless Servo Motor. 0-50 VDC.
- Motor made in USA. Water resistant O-ring seals IP54.
- Specifically designed to operate solar direct on a 36, 60 or 72 cell solar panel.
- Soft start and thermal roll back locked rotor protection are standard features.
- Will operate on a 24 VDC battery bank.
- Patented low vibration aerodynamic motor mounting system reduces noise and improves efficiency.
- Enable/disable wire to start/stop using low amperage thermostat/switch.
- With hybrid DC converter, this fan can operate on any world voltage allowing for solar input and field adjustable fan speed
- RPM limiting to 1800 RPM regardless of solar voltage.
- Includes liquid tight conduit 5ft lead wires.
- Glass reinforced polypropylene airfoil blade offers high efficiency and durability.
- All parts serviceable and/or replaceable.
- Warranty of 2 years against parts and labor.



# SNAP-FAN 12" / 16" / 20" / 24" / 28"

EVOLUTION IN VENTILATION

WWW.SNAP-FAN.COM



ELECTRICAL EQUIPMENT. CHECK WITH LOCAL BUILDING CODES AND YOUR LICENSED CONTRACTOR BEFORE INSTALLING.

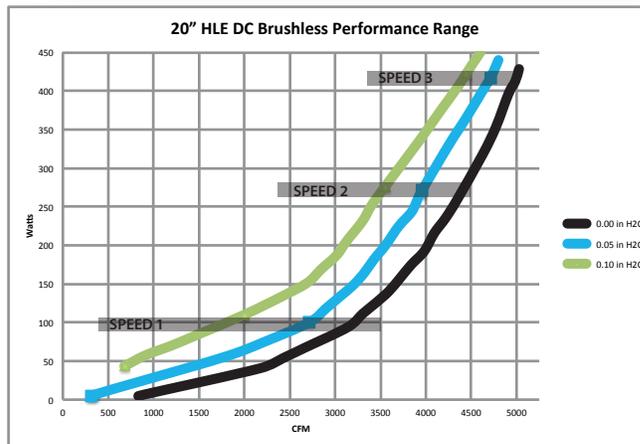
**HAND ASSEMBLED IN U.S.A.  
BY SOLAR NATIONAL AIR PROPULSION, LLC  
PATENTED DESIGN**

# 20" HLE DC BRUSHLESS SOLAR FAN

## SOLAR DIRECT PERFORMANCE

	STATIC PRESSURE (IN H2O)	AIRFLOW (CFM)	RPM	AMPS	WATTS	CFM/WATT
<b>SPEED 3</b> requires at least 34 VDC	0.00	5027	1800	12.6	428	11.7
	0.05	4926	1759	12.7	432	11.4
	0.10	4828	1729	13.0	441	11.0
<b>SPEED 2</b> requires at least 29.5 VDC	0.00	4468	1600	8.2	280	16.0
	0.05	4066	1567	8.5	288	14.1
	0.10	3781	1541	8.7	294	12.9
<b>SPEED 1</b> requires at least 19.5 VDC	0.00	3142	1000	2.1	70	44.9
	0.05	2702	974	2.2	75	36.1
	0.10	2134	962	2.2	76	28.2

Table reflects operation at 34 volts



## 24v BATTERY PERFORMANCE

	STATIC PRESSURE (IN H2O)	AIRFLOW (CFM)	RPM	AMPS	WATTS	CFM/WATT
<b>SPEED 2</b>	0.00	3726	1415	5.4	140	26.5
	0.05	3335	1415	5.5	142	23.5
	0.10	2892	1415	5.5	144	20.1
<b>SPEED 1</b>	0.00	2633	1000	2.1	55	48.2
	0.05	2069	1000	2.2	56	36.7
	0.10	1599	1000	2.1	56	28.8

### DC Brushless Motor Features

- Patented design
- Uses 40% - 60% less energy than PSC motors
- Cooler operating temperatures
- Longer motor life
- Reduced warranty returns
- Locked rotor, overload, and thermal roll back protection
- Integrated control with sealed construction
- Durable ball bearing construction for long commercial life
- UL & CSA recognized
- Designed and assembled in the USA