

# EnduraMax<sup>®</sup> Direct-Drive 57-Inch Fan



Every. Day. PERFORMANCE.<sup>™</sup>

Chore-Time's 57-inch (145-cm) EnduraMax<sup>®</sup> Direct-Drive Fan features a variable-speed, direct-drive motor for minimal maintenance and the highest CFM potential.

## Low Maintenance

- EnduraMax<sup>®</sup> Fans with direct-drive motor eliminate many common maintenance needs.
- No belts and pulleys to replace.
- No bearings to grease.
- Durable design of the EnduraMax Fan itself offers low maintenance and long-lasting performance.

## Energy Efficient

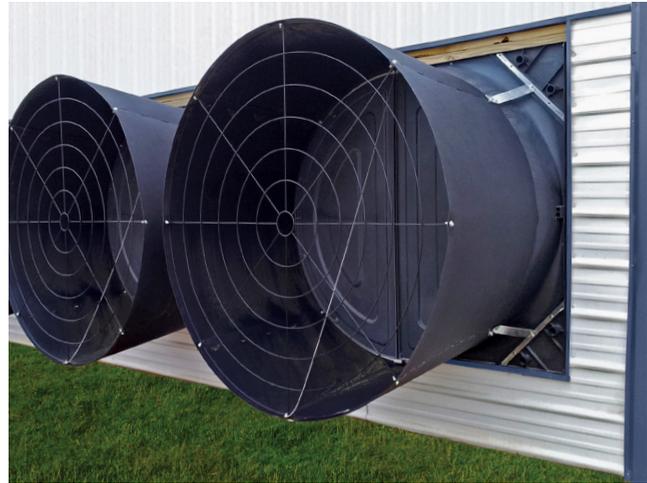
- Direct-drive design offers a superior level of efficiency for energy-minded growers.
- Even greater savings can be achieved due to variable speed functionality.

## Fan Performance

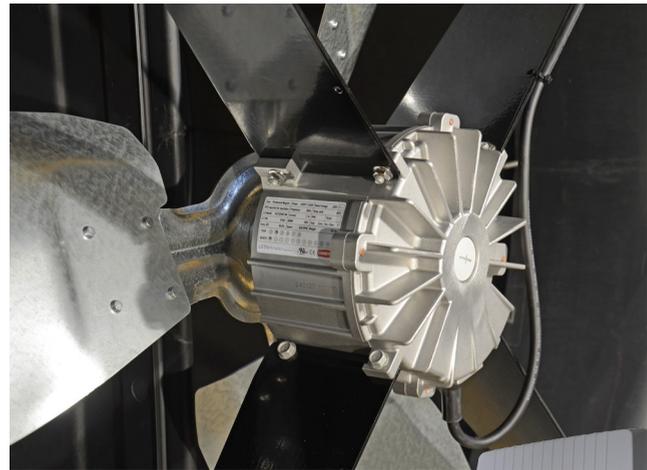
- Capable of 20% more air than belt drive Hi-Cap fan at maximum CFM.
- Variable speed allows the EnduraMax to match the CFM of our existing fans at a higher efficiency.
- Efficiently produces one of the highest air flow ratings in the industry.
- More capable in higher static pressure conditions with varying outside conditions.
- All EnduraMax Fan components were designed by Chore-Time.

## Proven EnduraMax<sup>®</sup> Fan Design

- Low profile fan design allows for more insulation space.
- Shroud design allows condensation to drain out of the house, helping to keep the house dry.
- Direct-drive fans use Chore-Time's industry-leading ENDURA<sup>®</sup> Fan design.
- Features HYFLO<sup>®</sup> Shutters, which do not suffer the typical 12-15% loss of efficiency and air speed typical of dirty louver-style shutters, so air speed is maintained to the end of the flock, when you need it most.
- Durable long glass fiber composite shroud and HYFLO<sup>®</sup> Shutter Doors contain 35% fiberglass for strength.
- Extensive durability testing under both extreme high and extreme low temperatures.
- Black HDPE (high-density polyethylene) cone aids in light control.



Chore-Time's EnduraMax<sup>®</sup> Direct-Drive 57-inch Fan with HYFLO<sup>®</sup> Shutters features a variable speed motor to help maximize energy efficiency.



With no belts, pulleys or bearings, the direct-drive motor eliminates many common maintenance needs.

## Variable Speed

- Active Power Factor Correction
- Specifically chosen and tuned for LG motor to work optimally together.
- Firmware updates optimize motor performance
- Pre-defined program package does not require setup.
- Chore-Time Variable Frequency Drive allows fan to operate at different speeds.
- Energy savings can be achieved by slowing fan speed whenever air flow requirements allow.
- Variable Speed allows for replacement of multiple 36-57-inch (91-145 cm) fans while maintaining air flow.



# EnduraMax® Direct-Drive Fan Specifications

## Composite Shroud & Shutter Doors / HDPE Cone

Direct-drive EnduraMax® Fans efficiently produce maximum CFM potential, while optimizing efficiency. Use a CATALYST® Controller, in combination with the Chore-Time Variable Frequency Drive to achieve even greater energy savings by slowing the fan whenever air flow requirements allow.



Chore-Time Variable Frequency Drive

HYFLO® Shutters improve fan performance by minimizing obstructions during operation.

NOTE: Inside grill has been removed for photography only.

### EnduraMax® Direct-Drive Fan

| STANDARD MOUNT               |                       | U.S. MEASURE         |          |                      |          | METRIC                |          |                       |          | Air Flow Ratio | BESS Lab Test No. | Input Voltage |
|------------------------------|-----------------------|----------------------|----------|----------------------|----------|-----------------------|----------|-----------------------|----------|----------------|-------------------|---------------|
| Fan Kit Part No.             | Speed Setting RPM / % | Static Pressure .10" |          | Static Pressure .15" |          | Static Pressure 25 Pa |          | Static Pressure 37 Pa |          |                |                   |               |
|                              |                       | CFM                  | CFM/Watt | CFM                  | CFM/Watt | CMH                   | CMH/Watt | CMH                   | CMH/Watt |                |                   |               |
| 57611-11*<br>Tested at 60 Hz | 630 / 100             | 35700                | 17.3     | 34200                | 15.7     | 60700                 | 29.4     | 58200                 | 26.7     | 0.88           | 24694             | 230V<br>1 Ph  |
|                              | 575 / 91              | 32700                | 20.0     | 30600                | 17.6     | 55500                 | 33.9     | 52000                 | 30.0     | 0.84           |                   |               |
|                              | 538 / 85**            | 30100                | 22.3     | 28100                | 19.3     | 51200                 | 37.9     | 47700                 | 32.9     | 0.81           |                   |               |
|                              | 500 / 79              | 27500                | 23.9     | 25100                | 20.3     | 46800                 | 40.7     | 42700                 | 34.5     | 0.76           |                   |               |
|                              | 450 / 71              | 23900                | 27.0     | 20900                | 21.6     | 40700                 | 45.9     | 35500                 | 36.7     | 0.63           |                   |               |
|                              | 400 / 64              | 18800                | 26.9     | 13700                | 19.0     | 32000                 | 45.7     | 23200                 | 32.2     | 0.42           |                   |               |
| 350 / 56                     | 13700                 | 27.0                 | 8400     | 15.1                 | 23400    | 45.9                  | 14200    | 25.7                  | NA       |                |                   |               |

\*Note: fan sub-assembly 57611-1P and VFD 58142-1

\*\* 538/85% is interpolated from BESS Lab data.

### Endura® Belt Drive Fan

| STANDARD MOUNT              |                   | U.S. MEASURE         |          |                      |          | METRIC            |                       |          |                       | BESS Lab Test No. | Input Voltage |              |
|-----------------------------|-------------------|----------------------|----------|----------------------|----------|-------------------|-----------------------|----------|-----------------------|-------------------|---------------|--------------|
| Fan Kit Part No.            | Speed Setting RPM | Static Pressure .10" |          | Static Pressure .15" |          | Speed Setting RPM | Static Pressure 25 Pa |          | Static Pressure 37 Pa |                   |               |              |
|                             |                   | CFM                  | CFM/Watt | CFM                  | CFM/Watt |                   | CMH                   | CMH/Watt | CMH                   | CMH/Watt          |               |              |
| 53464-21<br>Tested at 60 Hz | 542               | 30400                | 20.4     | 28300                | 18.0     | 541               | 51600                 | 34.7     | 48100                 | 30.6              | 21078         | 230V<br>1 Ph |



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