



**GEAR
DRIVE**

54" GEAR DRIVE CIRCULATING FANS

*No Pulleys, Belts,
or Tensioners to Replace!*



54" GEAR DRIVE CIRCULATING FANS

The FALCON™ Fan by Genesys is built around a standard, off the shelf motor that is coupled to a frame-mounted gear reducer with prop attached. The gear-drive attachment allows the delivery of highly efficient c.f.m's per watt, thrust, and ultimately, wind speed. What's more, the FALCON™ Fan avoids the friction loss and maintenance of worn belts and pulleys known to gradually reduce fan efficiency and performance.

In contrast, most direct-drive circulating fans operate on higher-cost, specially wound motors that may not be readily available when motor replacement becomes necessary, thus increasing down-time and animal discomfort.



Fan Shaft

Gear Reducer

56C Motor

Powered by 1 HP, 56C Standard Motor
No Pulleys, Belts, or Tensioners to Replace

**Available in
Single or 3 Phase**

No Soft Starters required

**Lifetime
Synthetic Lubrication**

No quarterly or
yearly servicing

**Minimal
Fan Maintenance**

No pulleys, belts, or
tensioners to replace

**Variable Speed
Drive *(optional)**

Reduced energy
usage for
increased efficiency

**Sturdy Built Galvanized
Steel Fan Frame**

Tough construction
for durability
and blade protection

Fan Mounting Brackets

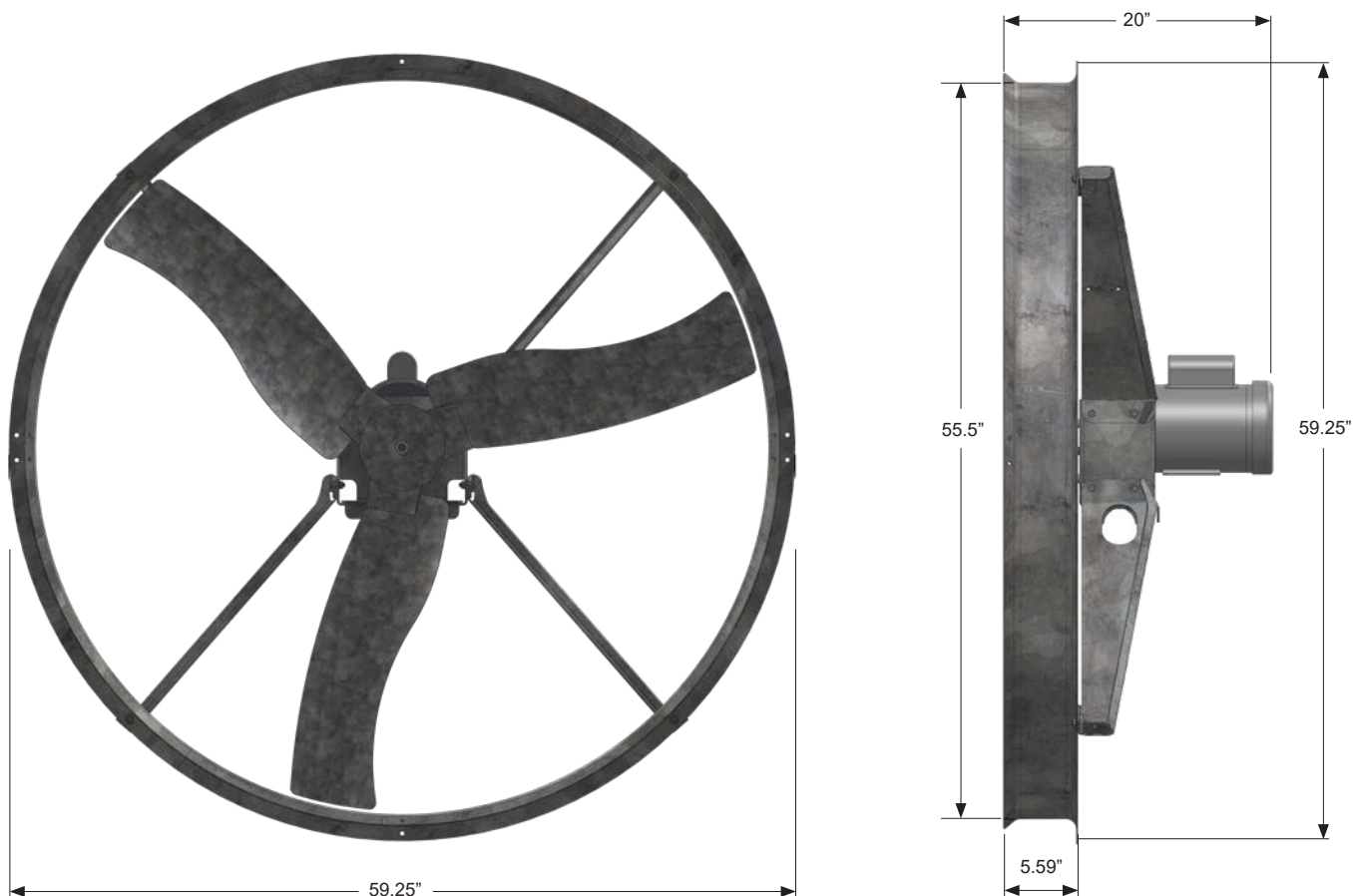
With three-axis adjustment.

Available for I-Beams,
Round Posts,
and Wooden Posts

3-Blade Gear Drive Fans



The Falcon™ 3-Blade Gear Drive Circulating Fan provides a strong thrust and wind speeds that deliver the ultimate level of cow comfort. The C.F.M's per Watt equal efficiency all year for long-term energy savings.



| Fan Model # | Fan Size | Motor HP | RPM | Volts | Amps | kW | 5X Diameter Centerline Velocity (FPM*) | Airflow* (Thrust CFM) | Efficacy (Thrust CFM/Watt) |
|------------------------------|----------|----------|-----|-------|------|-------|--|-----------------------|----------------------------|
| FANFGDV543101 (Single Phase) | 54" | 1 | 580 | 229.9 | 5.18 | 1.123 | 1120 | 27,400 | 24.4 |
| FANFGDV543103 (Three Phase) | 54" | 1 | 583 | 223.8 | 3.59 | 1.069 | 1120 | 27,200 | 25.4 |

*FPM = Feet Per Minute, *Airflow - ANSI/AMCA 230-12 Eq. 9.6 IP

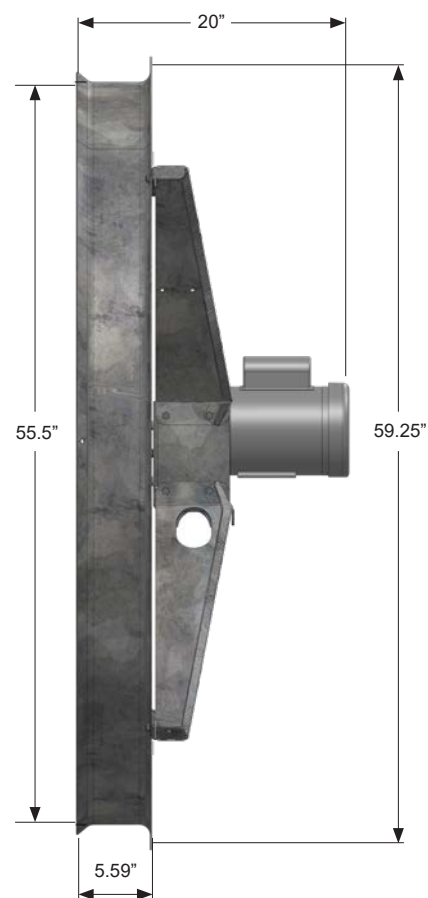
GENESYS certifies that the performance data for the above two fan models is based on tests conducted in an accredited laboratory (University of Illinois, Department of Agricultural and Biological Engineering, Bioenvironmental and Structural Systems Lab (BESS LAB) in accordance with ANSI/AMCA Standard 210-85.



5-Blade Gear Drive Fans



The Falcon™ 5-Blade Gear Drive Circulating Fan is slightly quieter than the 3-Blade model. Commonly used in holding areas, it moves air effectively with less force. The C.F.M's per Watt equal efficiency all year for long-term energy savings.



| Fan Model # | Fan Size | Motor HP | RPM | Volts | Amps | kW | 5X Diameter Centerline Velocity (FPM*) at Full Speed | Airflow* (Thrust CFM) | Efficacy (Thrust CFM/ Watt) |
|------------------------------|----------|----------|-----|-------|------|-------|--|-----------------------|-----------------------------|
| FANFGDV545101 (Single Phase) | 54" | 1 | 439 | 230.3 | 4.19 | 0.93 | 760 | 25,000 | 26.9 |
| FANFGDV545103 (Three Phase) | 54" | 1 | 439 | 226.6 | 3.31 | 0.941 | 960 | 25,400 | 27.0 |

*FPM = Feet Per Minute, *Airflow - ANSI/AMCA 230-12 Eq. 9.6 IP

GENESYS certifies that the performance data for the above two fan models is based on tests conducted in an accredited laboratory (University of Illinois, Department of Agricultural and Biological Engineering, Bioenvironmental and Structural Systems Lab (BESS LAB) in accordance with ANSI/AMCA Standard 210-85.

Galvanized Fan Mounting Brackets



- Three-Axis Adjustment
- Available for I-Beams, Round Steel Posts, and Wooden Posts

Fan frame slides securely onto fan mounting arm.
Provides easy tilt angle and left to right adjustment at any time



Cow Comfort Generates Productivity

Variable Speed Drives for Falcon™ Fans

- Auto-tuning drives
do not interfere with Wireless ID Systems
- Touch screen interface displays real time monitoring of current power consumption, windspeed, temperature and costs per day, week, month or year. Convenient setting adjustments to fully optimize power consumed by the system and realize dramatic energy savings.
- Easy to access variable speed drive panels mounted outside and away from corrosive conditions. Uses conventional wiring methods between drive panels and fan motors.
- Single phase or three-phase input



Touch Screen Controller

Mounted inside the barn at any convenient location(s)
within 1000 ft. of exterior drive panel.



Easy-to-Access Exterior Drive Panel

Mounted outside and away from
corrosive conditions.



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