



48 minute confirmation
hour shipment

Rapid Ship



Quality • Value • Commitment

Fan Solutions...FAST!



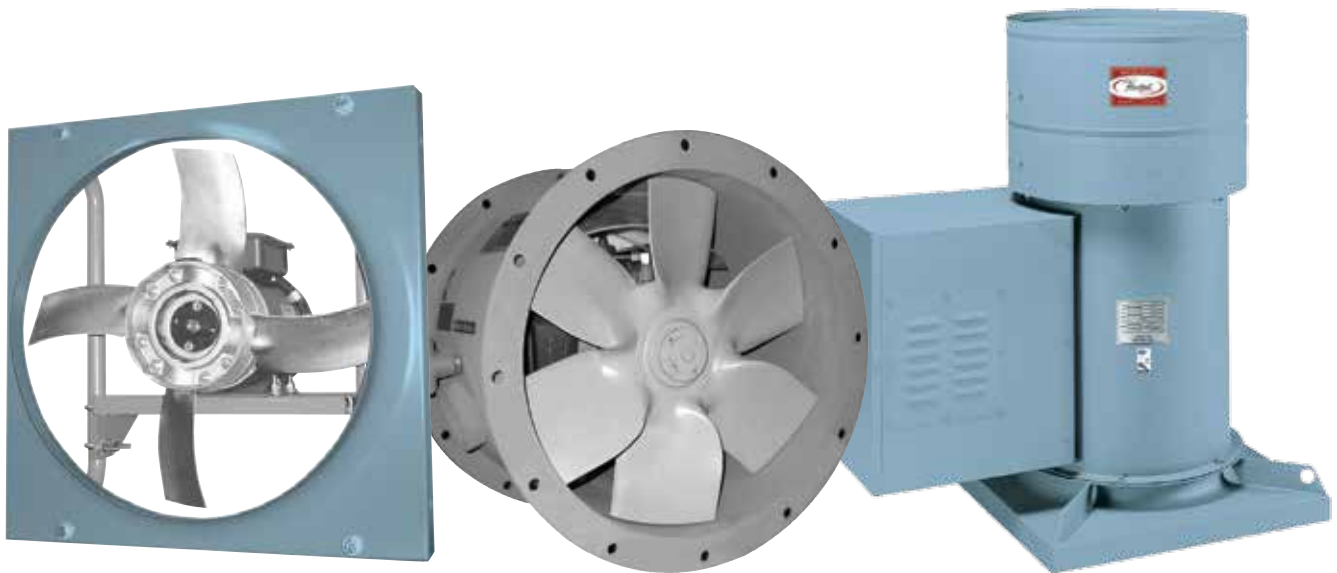
AIR MOVEMENT

Over 85 Years of Innovation, Quality, and Reliability

Since 1927 when Hartzell first engineered the propeller fan, the Hartzell name has been synonymous with quality air moving equipment. Through the years, Hartzell has continually been recognized as having one of the broadest product and service lines in the air moving industry.

With production and stocking facilities in Ohio and Indiana, Hartzell serves customers worldwide via its Manufacturers Representative network. The Research and Development Center in Piqua is an accredited Air Movement and Control Association (AMCA) International Lab where all testing is done in accordance with AMCA standards.

Hartzell is the industrial ventilation expert producing high quality, efficient, and innovative ventilation solutions for a wide variety of industries and applications. Products include fans for general and process ventilation including a complete line of axial and centrifugal fans and blowers, an extensive fiberglass product line, direct gas fired products, as well as a full range of options and accessories.



Rapid Ship



In stock & direct drive models ship in **48 hours** as catalogued:

- HartKool®, Series HKA
- Panel Fans, Series 02SG
- Upblast Roof Vents, Series 61-G
- Duct Fans, Series 38
- Marine Duty Duct Axial, Series 44-M
- Heating Equipment, Series 78V & 79
- Utility Fans, Series 22F



In stock belt drive models ship in **5 days** or less as catalogued (with available accessories mounted or shipped loose but a modification fee may apply):

- Centrifugal Fans, Series 03P
- FRP Centrifugal Fans, Series 41P
- Vaneaxial Fans, Series 54G
- FRP Duct Axial Fans, Series 34 & 35
- Roof Ventilator, Series 16I
- Upblast Roof Vents, Series 69
- Duct & Duct Axial Fans, Series 31 & 46

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How to Order

For a Rapid Ship quotation or to place your Rapid Ship order, please call your local Hartzell representative or email RapidShip@Hartzell.com

To find your local Hartzell representative, please visit our Website at www.hartzellairmovement.com or call us at **866.880.8887**

Hartzell Air Movement will ship your Rapid Ship order and charge it to your credit card or your open, approved Hartzell Air Movement account. MasterCard and Visa are gladly accepted.



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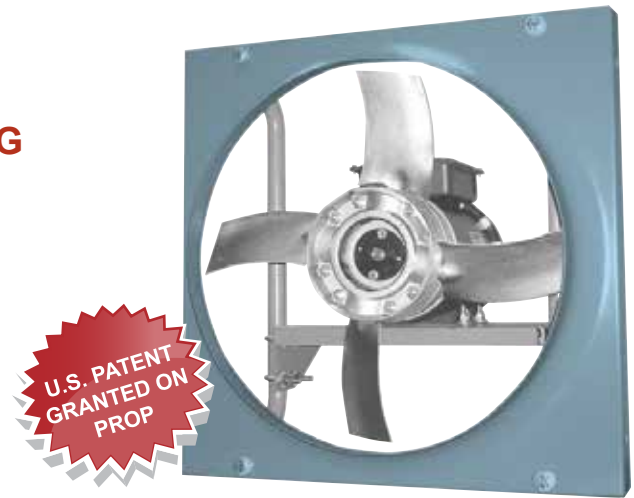
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www.hartzellflow.com



Panel Fans

Standard Panel Fan (Direct Drive) – Series 02SG

- In stock models ship in 48 hours or less.
- 5 day shipment if accessories required.
- Exclusive Air-Seal Ring design.
- Adjustable pitch propeller on 24" to 36" fans; one-piece aluminum, airfoil type-2 bladed propeller on 40" to 48" fans.
- Totally enclosed fan cooled motor.
- See page 19 for accessories available from stock.
- Stocked as "G" (General Industrial) Duty Construction.
- For complete Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 02S, Direct Drive Panel Fan, Standard Flow size 40 and above, shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

The AMCA certified ratings seal applies to air performance ratings only.



Hartzell Air Movement certifies that Panel Fans, Series 02S, shown herein, is authorized to bear CE Marking in accordance with Machinery Safety Directive 98/37/EC of the European Union. Reference Technical File E.S. 13.2.2.

Series 02SG

Rating Table – Series 02SG

| Size | Model | Motor | | Phase | Peak Fan BHP* | CFM @ 0" Static Pressure | Approximate dBA @ 5' | Approximate Shipping Wt. |
|------|----------------------|-------|------|-------|---------------|--------------------------|----------------------|--------------------------|
| | | HP | RPM | | | | | |
| 24 | S02SG-243AL250STFCH3 | 1 | 1750 | 3 | 0.980 | 8058 | 77 | 97 |
| 28 | S02SG-283AL265STFCH4 | 1 | 1160 | 3 | 1.010 | 10030 | 70 | 137 |
| 36 | S02SG-363AL265STFCK4 | 3 | 1160 | 3 | 2.648 | 20781 | 78 | 298 |
| 40 | S02SG-402NA---STFCJ4 | 2 | 1160 | 3 | 2.163 | 22625 | 83 | 253 |
| 48 | S02SG-482NB---STFCK4 | 3 | 1160 | 3 | 2.996 | 31325 | 82 | 328 |

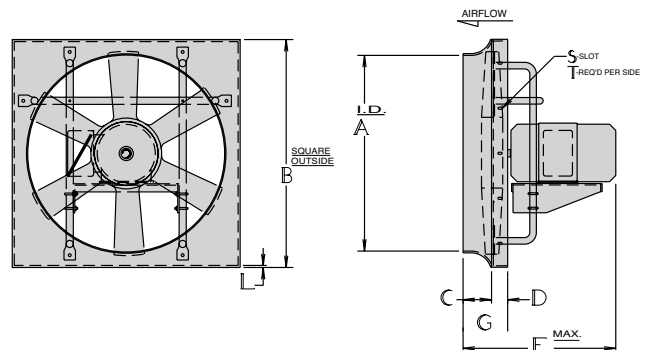
- Performance certified is for Installation Type B: Free Inlet, Ducted Outlet.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- Performance ratings do not include the effects of appurtenances (accessories).

- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.

Principal Dimensions – Series 02SG

| Size | A | B | C | D | F (Max) | G | L |
|------|---------------------------------|----|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------|
| 24 | 24 ³ / ₁₆ | 28 | 3 ¹ / ₂ | 2 | 14 ³ / ₄ | 5 ¹ / ₂ | 14 GA. |
| 28 | 28 ³ / ₁₆ | 33 | 3 ¹ / ₂ | 2 ¹ / ₂ | 20 ¹ / ₂ | 6 | 14 GA. |
| 36 | 36 ³ / ₁₆ | 42 | 4 | 2 ³ / ₄ | 22 ¹ / ₂ | 6 ³ / ₄ | 14 GA. |
| 40 | 40 ³ / ₁₆ | 46 | 4 ³ / ₈ | 2 ³ / ₄ | 22 ³ / ₄ | 7 ¹ / ₈ | 14 GA. |
| 48 | 48 ³ / ₁₆ | 54 | 4 ³ / ₄ | 2 ³ / ₄ | 25 ¹ / ₂ | 7 ¹ / ₂ | 14 GA. |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.



Utility Fans and HartKool®

Utility Fans – Series 22F

- In stock models ship in 48 hours or less.
- Compact design; versatile; durable construction.
- Requires limited space.
- Tilt-head type can be adjusted up or down.
- Totally enclosed fan cooled motors.
- Series 22F has drilled flat base for wall, column, or ceiling mounting.
- For complete information on Utility Fans, go to www.hartzellairmovement.com.

Rating Table – Series 22F

| Size | Model | Motor | | Phase | CFM @ 0" Static Pressure | Approximate dBA @ 5' |
|------|-----------------------|-------|------|-------|--------------------------|----------------------|
| | | HP | RPM | | | |
| 36 | S22F---363-L---STFCJ4 | 2 | 1160 | 3 | 18865 | 85 |

NOTE: The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.

Overall Dimensions – Series 22F

| | Fan Size | Height | Width | Depth | Ship Wgt. # |
|------------|----------|--------------------------------|-------|-------|-------------|
| Series 22F | 36 | 43 ³ / ₄ | 47 | 21 | 285 |

Dimensions and specifications are subject to change. Certified prints are available.



Series 22F

Cooling Fans – Series HKA

- In stock models and in stock accessories ship in 48 hours or less.
- Polyethylene venturi orifice ring.
- Efficient cast aluminum, airfoil propeller.
- Front and rear, OSHA compliant integral guarding.
- Durable, high quality finish.
- Quiet operation.
- The motor is totally enclosed air over, 115/230/60/1 voltage with 6' cord and grounded plug.
- Colors: 18" and 24" available in black; 32" and 36" available in yellow.
- See page 19 for accessories available from stock.
- For complete information on HartKool® fans, go to www.hartzellairmovement.com.

Rating Table – Series HKA

| Size | Model | Motor | | Amps @ 115/60/1 | CFM @ 0" Static Pressure | dBA @ 5' |
|------|----------------------|-------|------|-----------------|--------------------------|----------|
| | | HP | RPM | | | |
| 18 | SHKAB-182NB---PLYAEC | 1/3 | 1700 | 3.0 | 4236 | 71 |
| 24 | SHKAB-242NB---PLYAFC | 1/2 | 1700 | 7.0 | 8480 | 77 |
| 32 | SHKAY-322NA---PLYAFD | 1/2 | 1100 | 6.0 | 11187 | 71 |
| 36 | SHKAY-362NC---PLYAFD | 1/2 | 1100 | 6.0 | 13450 | 74 |



Series HKA

Principal Dimensions – Series HKA

| Fan Size | Length | Width | Depth | Ship Wgt. # |
|-----------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------|
| 18 | 22 ³ / ₈ | 22 ³ / ₈ | 11 ¹ / ₂ | 58 lbs |
| 24 | 29 | 29 | 12 ¹ / ₁₆ | 66 lbs |
| 32 | 37 | 37 | 13 ⁹ / ₁₆ | 86 lbs |
| 36 | 42 ³ / ₈ | 42 ³ / ₈ | 14 ⁷ / ₁₆ | 100 lbs |
| Mounting Hook - Small (18" & 24") | 12 | 2 | 3 | 2 lbs |
| Mounting Hook - Large (32" & 36") | 23 | 2 | 3 | 3 lbs |
| Wall/Ceiling Bracket | 24 | 1 ¹ / ₂ | 16 | 12 lbs |
| Wheeled Cart* | 42 | 24 | 29 | 45 lbs |
| Low Pressure Mist Kit | | | | 1 lbs |

*Ships unassembled

Upblast Roof Vent (Direct Drive)



Series 61-G

- In stock models ship in 48 hours or less.
- 5 day shipment if accessories required.
- Painted hot rolled steel fan frames. Painted galvanized steel windband and panel. Galvanized damper lids.
- Adjustable pitch propeller on 24" to 36" fans; one-piece cast aluminum airfoil type 2-bladed propellers on 40" to 48" fans.
- Motors are totally enclosed fan cooled.
- Pre-fab roof curb available. Galvanized construction, 8" high, for flat roof (direct ship with suppliers delivery schedule).
- See page 20 for accessories available from stock.
- Stocked as "G" (General Industrial) **Duty** Construction.
- For complete information on Roof Vents, go to www.hartzellairmovement.com.

Rating Table – Series 61-G

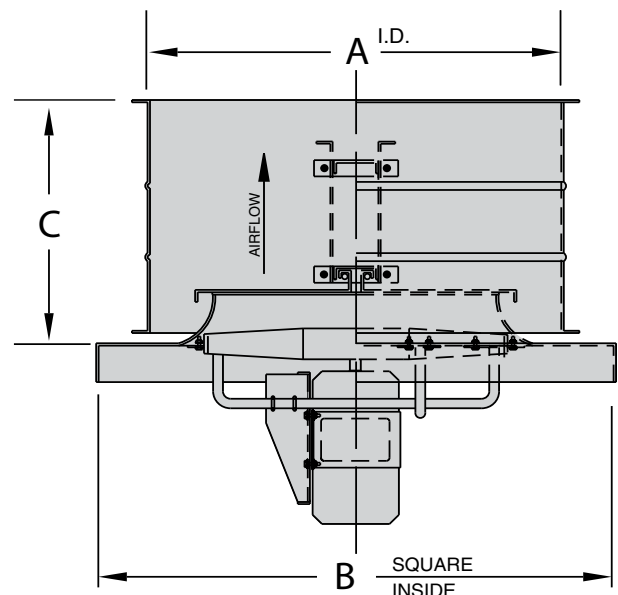
| Size | Model | Motor | | Phase | Peak Fan BHP* | CFM @ 0" Static Pressure | Approximate dBA @ 5' | Approximate Shipping Weight |
|------|----------------------|-------|------|-------|---------------|--------------------------|----------------------|-----------------------------|
| | | HP | RPM | | | | | |
| 24 | S61-G-243AL320STFCI3 | 1½ | 1750 | 3 | 1.46 | 8391 | 79 | 203 |
| 30 | S61-G-304AL325STFCJ4 | 2 | 1160 | 3 | 1.99 | 11769 | 76 | 255 |
| 36 | S61-G-363AL265STFCK4 | 3 | 1160 | 3 | 2.96 | 18793 | 78 | 386 |
| 40 | S61-G-402NA---STFCJ4 | 2 | 1160 | 3 | 2.25 | 20630 | 82 | 350 |
| 42 | S61-G-422NA---STFCK4 | 3 | 1160 | 3 | 2.98 | 24764 | 85 | 425 |
| 48 | S61-G-482NA---STFCL4 | 5 | 1160 | 3 | 5.37 | 34350 | 85 | 648 |

NOTE: The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.

Principal Dimensions – Series 61-G

| Fan Size | 24 | 30 | 36 | 40 | 42 | 48 |
|----------|-----|-----|-----|-----|-----|-----|
| A | 30 | 36 | 44 | 48 | 50 | 56 |
| B | 36 | 42 | 48 | 50 | 54 | 60 |
| C | 20% | 20% | 26% | 26% | 26% | 38% |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.





Upblast Roof Vent (Belt Drive)



Series 69

- In stock models ship in 5 days or less..
- Exterior motor mounting arrangement places the motor and belts out of air stream, making the unit ideal for handling tempered air, smoke, dust and fumes.
- Fan is heavy gauge, painted hot rolled steel, bolted to painted galvanized panel. Stack cap and windband are painted galvanized steel. Galvanized damper lids.
- Cast aluminum, 6-blade, Type W, airfoil propeller.
- Motors are totally enclosed fan cooled. All motors are 1750 RPM.
- Lube tubes are standard with compatible relubricable motor.
- Weather cover, stack cap, and curb panel are standard.
- Units are shipped assembled and skid mounted.
- Pre-fab roof curb available. Galvanized construction, 8" high, for flat roof (direct ship with suppliers delivery schedule). See page 20.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 69, Belt Drive Upblast Roof Ventilator shown herein is licensed to bear the AMCA Seal for air and sound. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-157.

Rating Table – Series 69

| Size | Model | Motor | | | Fan RPM Range | CFM @ 0" Static Pressure | Approximate dBA @ 5' | Shipping Weight Less Motor and Accessories |
|------|---------------------|---------|------|-------|---------------|--------------------------|----------------------|--|
| | | HP | RPM | Phase | | | | |
| 24 | S69---246WB---ST--- | .5 - 3 | 1750 | 3 | 850 - 2100 | 4400 - 10400 | 68 - 92 | 413 |
| 30 | S69---306-W---ST--- | 1 - 7 | 1750 | 3 | 700 - 1550 | 7400 - 16200 | 69 - 90 | 488 |
| 36 | S69---366-W---ST--- | 1 - 7.5 | 1750 | 3 | 500 - 1450 | 9200 - 22600 | 66 - 91 | 644 |
| 48 | S69---486-W---ST--- | 2 - 7.5 | 1750 | 3 | 500 - 1150 | 19200 - 38500 | 76 - 97 | 1166 |

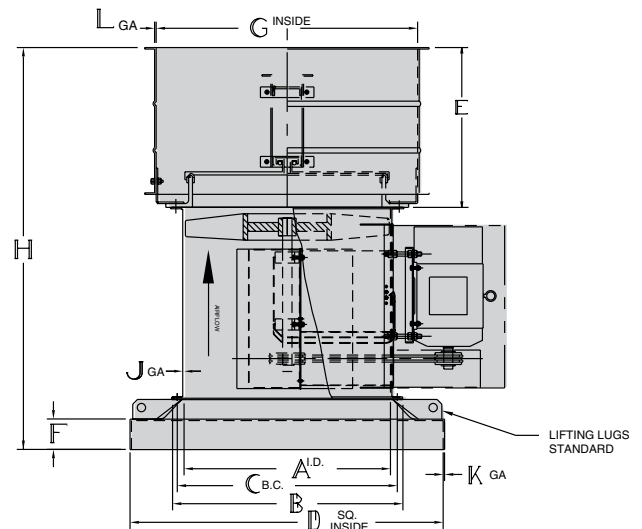
- Performance certified is for Installation Type A: Free Inlet, Free Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).

- CFM shown is net flow at the inlet and includes static pressure loss through ventilator.
- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.

Principal Dimensions – Series 69

| Fan Size | 24 | 30 | 36 | 48 |
|----------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|
| A | 24 ⁷ / ₈ | 30 ⁷ / ₈ | 37 | 49 ⁷ / ₈ |
| B | 29 ¹ / ₈ | 35 ¹ / ₈ | 41 ³ / ₈ | 53 ¹ / ₂ |
| C | 26 ⁷ / ₈ | 33 | 39 | 51 ⁵ / ₈ |
| D | 36 | 42 | 48 | 60 |
| E | 20 ¹ / ₂ | 20 ¹ / ₂ | 26 ¹ / ₂ | 38 ¹ / ₂ |
| F | 2 ³ / ₄ | 2 ³ / ₄ | 2 ³ / ₄ | 3 ³ / ₄ |
| G | 30 | 36 | 44 | 56 |
| H | 57 ¹³ / ₁₆ | 61 ⁵ / ₁₆ | 67 ⁵ / ₁₆ | 89 ⁷ / ₈ |
| J | 10 | 10 | 10 | 10 |
| K | 14 | 14 | 14 | 14 |
| L | 20 | 20 | 20 | 16 |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.



Belt Drive Hooded Roof Ventilator



Series 161

- In stock models ship in 5 days or less.
- Supply units are for intake flow. Contact factory for availability of exhaust flow units.
- Welded reinforced painted galvanized steel housings.
- Cast aluminum, airfoil type, 3-blade, lo-noise propellers.
- Motors are totally enclosed fan cooled.
- Motor-operated damper and access door are standard.
- Lifting eyes are standard.
- Bird screens are standard.
- Filter rack is standard. Accommodates field or factory installation of filters.
- Pre-fab roof curb available. Galvanized construction, 8" high, for flat roof. See page 20.
- Stocked as "G" (General Industrial) Duty Construction.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.

Rating Table – Series 161

| Size | Model | Motor | | Phase | Fan RPM Range | CFM @ Static Pressure | | | Approximate dBA @ 5' | Ship. Wgt. Less Motor and Acc. |
|------|----------------------|--------|------|-------|---------------|-----------------------|---------------|--------------|----------------------|--------------------------------|
| | | HP | RPM | | | 0" | 1/4" | 1/2" | | |
| 36 | S161G-363-L---ST---- | .5 - 2 | 1750 | 3 | 650 - 1060 | 10000 - 16250 | 4000 - 14000 | 500 - 11250 | 66 - 78 | 448 |
| 48 | S161G-483-L---ST---- | 1 - 5 | 1750 | 3 | 525 - 900 | 19000 - 32400 | 10000 - 29000 | 2600 - 26000 | 68 - 82 | 947 |

- Performance certified is for Installation Type A: Free Inlet, Free Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).

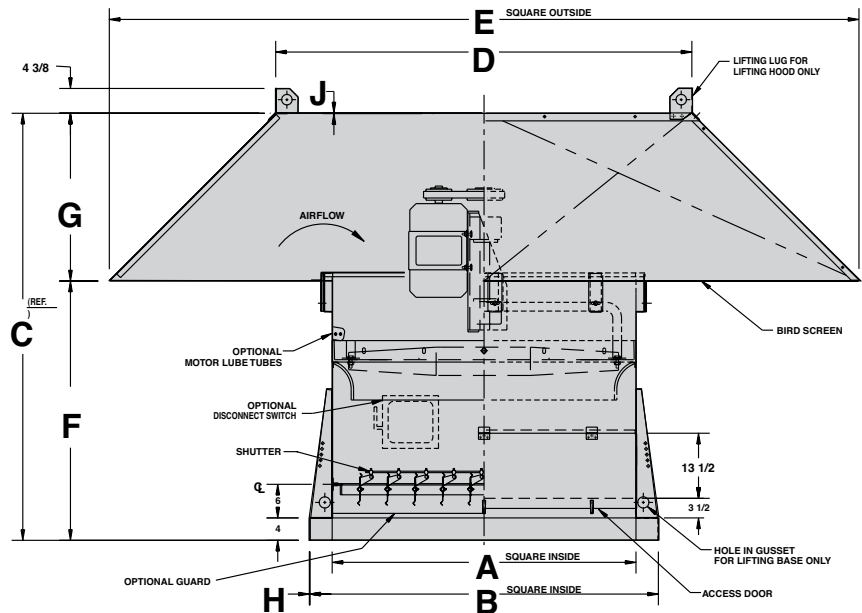
- CFM shown is net flow at the inlet and includes static pressure loss through ventilator.
- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.

Principal Dimensions – Series 161

| Fan Size | 36 | 48 |
|----------|---------------------------------|--------------------------------|
| A | 42 ¹ / ₄ | 54 ¹ / ₄ |
| B | 50 ¹ / ₄ | 62 ¹ / ₄ |
| C | 57 ⁷ / ₈ | 72 ¹ / ₂ |
| D | 50 ⁵ / ₈ | 67 ⁵ / ₈ |
| E | 90 | 120 |
| F | 38 ¹ / ₈ | 46 ¹ / ₄ |
| G | 19 ⁹ / ₁₆ | 26 ¹ / ₄ |
| H | 14 | 14 |
| J | 18 | 18 |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.

NOTE: 36" unit has one-piece hood. 48" unit has a two-piece hood.





Duct Fan (Belt Drive)



Series 31

- In stock models ship in 5 days or less.
- 6-blade “W” prop operates efficiently under pressure with low RPM and brake horsepower.
- Bearings are heavy-duty, pillow block, ball or roller type selected for minimum L-50 life of 500,000 hours for horizontal fans; and 300,000 hours for vertical fans, and include extended lubrication fittings.
- Shaft seal and slinger are standard.
- Motors are totally enclosed fan cooled and out of the airstream. All motors are 1750 RPM.
- See page 20 for accessories available from stock.
- For complete Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 31, Belt Drive Duct Fan, shown herein is licensed to bear the AMCA seal for air performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

The AMCA certified ratings seal applies to air performance ratings only.

Rating Table – Series 31

| Size | Model | Motor | | | Fan RPM Range | CFM @ Static Pressure | | | Approximate dBA @ 5' | Shipping Weight Less Motor and Accessories |
|------|----------------------|---------|------|-------|---------------|-----------------------|---------------|---------------|----------------------|--|
| | | HP | RPM | Phase | | 0" | 1/4" | 1/2" | | |
| 24 | S31---246WB---ST---- | .5 - 3 | 1750 | 3 | 975 - 2150 | 5500 - 11800 | 4500 - 11400 | 1500 - 10900 | 73 - 94 | 231 |
| 30 | S31---306-W---ST---- | 1 - 5 | 1750 | 3 | 700 - 1550 | 8000 - 17500 | 6500 - 17000 | 2000 - 16300 | 72 - 94 | 308 |
| 36 | S31---366-W---ST---- | 2 - 7.5 | 1750 | 3 | 700 - 1450 | 13000 - 26900 | 11000 - 26000 | 15000 - 25000 | 73 - 92 | 385 |
| 48 | S31---486-W---ST---- | 2 - 7.5 | 1750 | 3 | 500 - 975 | 19600 - 38000 | 15100 - 36000 | 15100 - 36000 | 74 - 91 | 677 |

- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.
- Drives are variable pitch. RPM shown is for listed performance and can be reduced approximately 15%.

See dimensions on next page (page 10).



Duct Axial® Fan (Belt Drive)

- In stock models ship in 5 days or less.
- One-piece, cast aluminum, 6-bladed, airfoil-type propeller provides maximum efficiency at medium static pressure ranges, with low speed and low noise characteristics.
- Bearings are heavy-duty, pillow block, ball or roller type selected for minimum L-50 life of 400,000 hours for horizontal fans; and 250,000 hours for vertical fans, and include extended lubrication fittings.
- Shaft seal and slinger are standard.
- See page 20 for accessories available from stock.
- For complete Certified Ratings Data, go to www.hartzellairmovement.com.



Series 46 (DA Prop)



Hartzell Air Movement certifies that the Series 46, Belt Drive Duct Axial Fan is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

The AMCA certified ratings seal applies to air performance ratings only.

Rating Table – Series 46

| Size | Model | Motor | | Phase | Fan RPM Range | CFM @ Static Pressure | | | Approximate dBA @ 5' | Shipping Weight Less Motor and Accessories |
|------|----------------------|----------|------|-------|---------------|-----------------------|---------------|---------------|----------------------|--|
| | | HP | RPM | | | 0" | 1/4" | 1/2" | | |
| 12 | S46---126DA---ST---- | .5 - 1.5 | 1750 | 3 | 1625 - 3650 | 1000 - 2200 | 600 - 2100 | 270 - 1980 | 66 - 88 | 84 |
| 12 | S46---126DA---ST---- | 1.5 - 2 | 3450 | 3 | 3225 - 4425 | 2050 - 2570 | 1900 - 2490 | 1800 - 2380 | 86 - 91 | 84 |
| 16 | S46---166DA---ST---- | .5 - 2 | 1750 | 3 | 1350 - 2975 | 2240 - 4950 | 1870 - 4800 | 880 - 4700 | 73 - 95 | 119 |
| 16 | S46---166DA---ST---- | 2 - 3 | 1750 | 3 | 2425 - 3725 | 4050 - 6200 | 2850 - 6100 | 3700 - 6000 | 89 - 101 | 119 |
| 18 | S46---186DA---ST---- | .33 - 2 | 3450 | 3 | 1100 - 2875 | 2400 - 6240 | 1800 - 6050 | 640 - 5800 | 71 - 98 | 136 |
| 24 | S46---246DA---ST---- | .5 - 5 | 1750 | 3 | 750 - 2325 | 3800 - 11400 | 2650 - 10900 | 700 - 10500 | 65 - 96 | 231 |
| 28 | S46---286DA---ST---- | 5 - 15 | 1750 | 3 | 1175 - 2264 | 9700 - 18400 | 8900 - 18100 | 8100 - 17900 | 81 - 98 | 265 |
| 36 | S46---366DA---ST---- | 7.5 - 20 | 1750 | 3 | 1000 - 1650 | 16900 - 27800 | 15900 - 27500 | 14800 - 26200 | 86 - 99 | 385 |

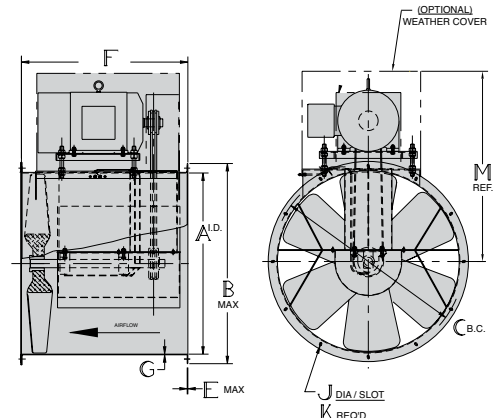
- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).

- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.
- Drives are variable pitch. RPM shown is for listed performance.

Principal Dimensions – Series 31 & Series 46

| Fan Size | 12 | 16 | 18 | 24 | 28 | 30 | 36 | 48 |
|-----------------|--|--|--|--|--|--|--|--|
| A | 12 ⁷ / ₈ | 16 ⁷ / ₈ | 18 ⁷ / ₈ | 24 ⁷ / ₈ | 28 ⁷ / ₈ | 30 ⁷ / ₈ | 37 | 49 ¹ / ₈ |
| Max. B | 15 ¹¹ / ₁₆ | 19 ⁵ / ₈ | 21 ⁵ / ₈ | 29 ¹ / ₄ | 33 ³ / ₄ | 34 ³ / ₈ | 41 ³ / ₈ | 53 ¹ / ₂ |
| C | 14 ⁵ / ₈ | 18 ⁵ / ₈ | 20 ⁵ / ₈ | 26 ⁷ / ₈ | 30 ⁷ / ₈ | 33 | 39 | 51 ⁵ / ₈ |
| Max. E | 7 GA. | 7 GA. | 7 GA. | 7 GA. | 7 GA. | 7 GA. | 7 GA. | 3/8 GA. |
| F | 22 | 25 | 25 | 31 | 31 | 34 | 34 | 42 |
| Max. G | 12 GA. | 12 GA. | 12 GA. | 10 GA. | 10 GA. | 10 GA. | 10 GA. | 10 GA. |
| J | ⁵ / ₁₆ X ⁵ / ₈ | ⁵ / ₁₆ X ⁵ / ₈ | ⁵ / ₁₆ X ⁵ / ₈ | ⁷ / ₁₆ X ³ / ₄ | ⁷ / ₁₆ X ³ / ₄ | ⁷ / ₁₆ X ³ / ₄ | ⁷ / ₁₆ X ³ / ₄ | ⁷ / ₁₆ X ³ / ₄ |
| K | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 12 |
| M | 24 ⁵ / ₈ | 30 ¹ / ₈ | 31 ¹ / ₈ | 39 ⁷ / ₈ | 41 ⁷ / ₈ | 43 ¹ / ₄ | 47 ¹ / ₄ | 60 ³ / ₄ |
| Max. Mtr. Frame | 145T | 182T | 213T | 215T | 215T | 215T | 215T | 215T |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.





Vaneaxial Blower (Belt Drive), Type VA



Series 54-G

- In stock models ship in 5 days or less.
- Impellers are 7-bladed, airfoil design of cast aluminum construction. Large hub-to-blade ratio prevents back flow of air. Moves large volumes of air at high static pressures.
- Bearings are heavy-duty, ball or roller type selected for minimum L-50 life of 200,000 hours and include extended lubrication fittings.
- Housings are one-piece, heavy gauge hot rolled steel with internal discharge vanes welded in the blower housing.
- Extended lube tubes with compatible relubricable motor.
- Stocked as "G" (General Industrial) Duty Construction.
- See page 20 for accessories available from stock.
- For complete Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 54, Belt Drive Vaneaxial, VA fan shown herein is licensed to bear the AMCA Seal for air and sound. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-157.

Rating Table – Series 54, Type VA, G Duty

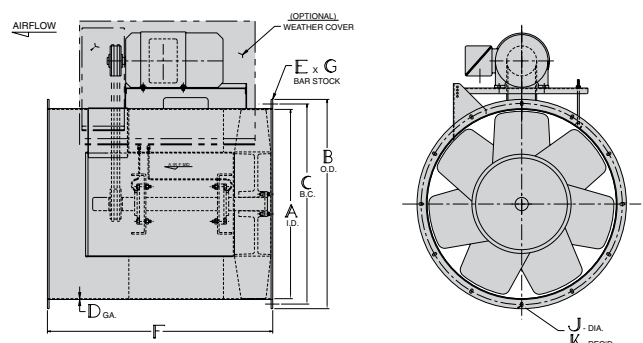
| Size | Model | Motor | | Phase | Fan RPM Range | CFM @ Static Pressure | | | | Approximate dBA @ 5' | Ship. Wgt. Less Motor and Acc. |
|------|----------------------|-----------|------|-------|---------------|-----------------------|---------------|---------------|--------------|----------------------|--------------------------------|
| | | HP | RPM | | | 0" | 1" | 2" | 3" | | |
| 14 | S54-G-147VA---ST---- | .25 - .75 | 1750 | 3 | 1900 - 2500 | 1820 - 2390 | 0 - 1750 | - | - | 67 - 74 | 100 |
| 14 | S54-G-147VA---ST---- | .75 - 5 | 3450 | 3 | 2500 - 4600 | 2390 - 4380 | 1750 - 4050 | 0 - 3500 | 0 - 3450 | 74 - 89 | 100 |
| 18 | S54-G-187VA---ST---- | .5 - 3 | 1750 | 3 | 1500 - 2500 | 3560 - 5930 | 0 - 5200 | 0 - 4250 | - | 73 - 86 | 180 |
| 18 | S54-G-187VA---ST---- | 3 - 10 | 3450 | 3 | 2500 - 3700 | 5930 - 8720 | 5250 - 8350 | 4250 - 7900 | 0 - 7000 | 86 - 95 | 180 |
| 21 | S54-G-217VA---ST---- | .75 - 5 | 1750 | 3 | 1275 - 2500 | 4940 - 9680 | 3050 - 8950 | 0 - 8100 | 0 - 7200 | 66 - 75 | 230 |
| 21 | S54-G-217VA---ST---- | 7.5 - 15 | 3450 | 3 | 2500 - 3125 | 9680 - 12100 | 8950 - 11500 | 8100 - 11000 | 7200 - 10200 | 83 - 89 | 230 |
| 26 | S54-G-267VA---ST---- | 1 - 7.5 | 1750 | 3 | 1025 - 1925 | 7400 - 13900 | 0 - 12900 | 0 - 11500 | 0 - 10000 | 72 - 88 | 340 |
| 29 | S54-G-297VA---ST---- | 1.5 - 10 | 1750 | 3 | 925 - 1800 | 9450 - 18390 | 6250 - 17300 | 0 - 16000 | 0 - 13700 | 72 - 89 | 460 |
| 36 | S54-G-367VA---ST---- | 2 - 15 | 1750 | 3 | 750 - 1450 | 14700 - 28300 | 10100 - 26300 | 0 - 24000 | 0 - 22000 | 72 - 88 | 680 |
| 42 | S54-G-427VA---ST---- | 15 - 30 | 1750 | 3 | 950 - 1550 | 29600 - 46700 | 26000 - 44000 | 21700 - 42000 | 0 - 39000 | 83 - 95 | 900 |

- Performance certified is for belt drive fans, Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).

Principal Dimensions – Series 54, G Duty

| Fan Size | 14 | 18 | 21 | 26 | 29 | 36 | 42 |
|-----------------|--------------------------------|---|---|---|---|---|---|
| A | 14 | 18 | 21 | 26 | 29 | 36 | 42 |
| B | 16 ³ / ₄ | 21 ¹ / ₄ | 24 ¹ / ₄ | 30 ⁵ / ₁₆ | 33 ⁵ / ₁₆ | 40 ⁵ / ₁₆ | 46 ⁵ / ₁₆ |
| C | 15 ¹ / ₂ | 19 ³ / ₄ | 22 ³ / ₄ | 28 | 31 | 38 | 44 ³ / ₈ |
| D | 12 | 12 | 12 | 10 | 10 | 10 | 10 |
| E | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₄ | 3 ³ / ₈ | 3 ³ / ₈ | 3 ³ / ₈ |
| F | 23 | 29 | 31 | 32 | 36 | 42 | 50 |
| G | 1 ¹ / ₄ | 1 ¹ / ₂ | 1 ¹ / ₂ | 2 | 2 | 2 | 2 |
| J | 5 ⁵ / ₁₆ | 7 ⁷ / ₁₆ X 13 ¹³ / ₁₆ | 7 ⁷ / ₁₆ X 13 ¹³ / ₁₆ | 7 ⁷ / ₁₆ X 13 ¹³ / ₁₆ | 7 ⁷ / ₁₆ X 13 ¹³ / ₁₆ | 9 ⁹ / ₁₆ X 13 ¹³ / ₁₆ | 9 ⁹ / ₁₆ X 13 ¹³ / ₁₆ |
| K | 6 | 12 | 12 | 12 | 12 | 16 | 16 |
| Max. Mtr. Frame | 184T | 215T | 256T | 256T | 284T | 286T | 326T |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.



Fixed Pitch Duct Fan



Series 38

- In stock models ship in 48 hours or less.
- 5 day shipment if accessories required.
- 6-blade "W" propeller - operates efficiently under pressure with low RPM and brake horsepower.
- Totally enclosed fan cooled motors.
- Motor leads extended to exterior of fan casing as standard.
- See page 20 for accessories available from stock.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 38, Direct Drive Fixed Pitch Duct Fan, shown herein is licensed to bear the AMCA Seal for air performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

The AMCA certified ratings seal applies to air performance ratings only.

Rating Table – Series 38

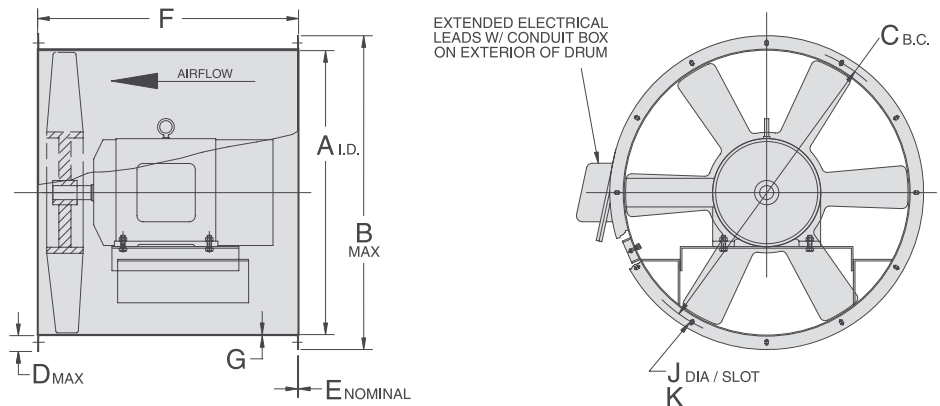
| Size | Model | Motor | | | CFM @ Static Pressure | | | Approximate dBA @ 5' | Shipping Weight Less Motor and Accessories |
|------|-----------------------|-------|------|-------|-----------------------|-------|-------|----------------------|--|
| | | HP | RPM | Phase | 0" | 1/4" | 1/2" | | |
| 20 | S38---206-W---STFCH3 | 1 | 1750 | 3 | 5950 | 5050 | 2000 | 78 | 115 |
| 28 | S38---286-W---STFCHI4 | 1.5 | 1160 | 3 | 10600 | 8700 | 3600 | 79 | 178 |
| 40 | S38---406-W---STFCK5 | 3 | 870 | 3 | 21600 | 18700 | 10200 | 79 | 315 |

- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.
- Drives are variable pitch.

Principal Dimensions – Series 38

| Fan Size | 20 | 28 | 40 |
|----------|---|--|--|
| A | 20 ⁷ / ₈ | 28 ⁷ / ₈ | 41 |
| B | 23 ¹¹ / ₁₆ | 33 ¹ / ₄ | 45 ³ / ₈ |
| C | 22 ³ / ₈ | 30 ⁷ / ₈ | 43 ¹ / ₂ |
| D | 1 ¹³ / ₃₂ | 2 ³ / ₁₆ | 2 ³ / ₁₆ |
| E | 7 GA | 7 GA | ³ / ₈ |
| F | 31 | 31 | 42 |
| G | 12 GA | 10 GA | 10 GA |
| J | 15 ¹ / ₁₆ X 5 ⁵ / ₈ | 7 ¹ / ₁₆ X 3 ³ / ₄ | 7 ¹ / ₁₆ X 3 ³ / ₄ |
| K | 6 | 6 | 12 |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.





Backward Curved Centrifugal Fans Packaged (Belt Drive)



**Series 03P
Class II Construction**

- In stock models ship in 5 days or less with accessories.
- Clockwise rotation (CCW not available from stock) with top horizontal discharge standard. Rotatable in field. Stock fans cannot be rotated to BAD, TAD, and DB. (Flanges interfere with base.)
- Class II construction. Housing of heavy gauge hot rolled steel.
- Wheels are non-overloading backward curved, with single thickness airfoil blades.
- Fans are stocked with shafts and bearings to accommodate maximum performance as shown.
- Weather cover, drilled inlet and outlet flanges (1-1/2" wide), and ceramic shaft seal to minimize leakage standard.
- Maximum temperature is 250°F.
- See page 20 for information about accessories available from stock.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Backward Curved Centrifugal Fan, Packaged, Series 03P Class II Construction, shown herein, is licensed to bear the AMCA Seal for air and sound. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-147.

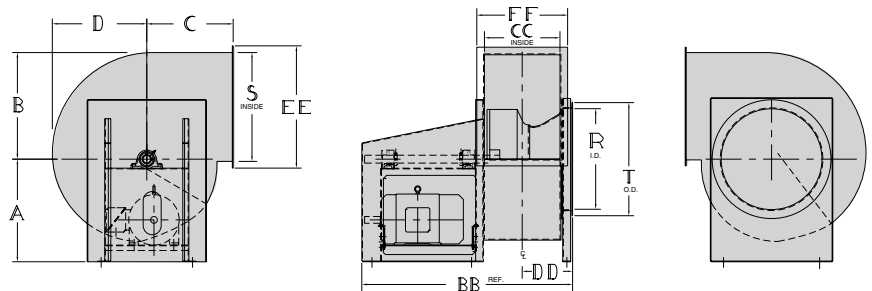
Rating Table – Series 03P

| Size | Model | Max BHP | Max Motor Frame | Fan RPM Range | CFM @ Static Pressure | | | | | Shipping Weight Less Motor and Accessories |
|------|----------------------|---------|-----------------|---------------|-----------------------|------------|------------|------------|------------|--|
| | | | | | 2 | 4 | 6 | 8 | 10 | |
| 12 | S03P0-122BC100ST---- | 10 | 215T | 1625 - 3650 | 775-3825 | 1050-3575 | 1300-3225 | 1475-2875 | 1650-2250 | 249 |
| 15 | S03P0-152BC100ST---- | 10 | 215T | 3225 - 4425 | 1225-6450 | 1775-5900 | 2200-5200 | 2475-4375 | 2750-3300 | 295 |
| 18 | S03P0-182BC100ST---- | 15 | 254T | 1350 - 2975 | 17758-9125 | 2575-8325 | 2975-7550 | 3375-6550 | 2775-4750 | 403 |
| 22 | S03P0-222BC100ST---- | 20 | 256T | 2425 - 3725 | 2675-13650 | 3850-12475 | 4450-11275 | 5050-9800 | 5650-7125 | 546 |
| 24 | S03P0-242BC100ST---- | 20 | 256T | 1100 - 2875 | 3175-16175 | 4575-15125 | 5625-13000 | 6325-10900 | 7025-8075 | 631 |
| 27 | S03P0-272BC100ST---- | 30 | 286T | 750 - 2325 | 3975-20350 | 5750-19025 | 7075-16825 | 7975-14150 | 8850-10175 | 845 |

- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) do not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).

Principal Dimensions – Series 03P

| Fan Size | 12 | 15 | 18 | 22 | 24 | 27 |
|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| A | 17 | 17 | 20 | 24 ³ / ₄ | 27 | 28 ¹ / ₂ |
| B | 13 ⁹ / ₁₆ | 16 ¹¹ / ₁₆ | 20 | 24 ⁷ / ₁₆ | 26 ⁵ / ₈ | 29 ¹³ / ₁₆ |
| C | 14 ¹ / ₄ | 16 ⁹ / ₁₆ | 18 ⁷ / ₈ | 22 | 23 ⁹ / ₁₆ | 25 ³ / ₄ |
| D | 11 ³ / ₄ | 14 ³ / ₄ | 17 ¹¹ / ₁₆ | 21 ⁵ / ₈ | 23 ¹ / ₂ | 26 ³ / ₈ |
| R | 12 ¹¹ / ₁₆ | 15 ¹⁵ / ₁₆ | 19 ³ / ₁₆ | 23 ¹⁵ / ₃₂ | 25 ¹⁷ / ₃₂ | 28 ²¹ / ₃₂ |
| S | 13 ³ / ₃₂ | 16 ¹ / ₂ | 19 ⁷ / ₈ | 24 ³ / ₃₂ | 26 ⁷ / ₁₆ | 29 ¹¹ / ₁₆ |
| T | 16 ¹⁵ / ₁₆ | 19 ³ / ₁₆ | 23 ¹ / ₂ | 27 ⁵ / ₁₆ | 29 ¹ / ₈ | 32 |
| BB | 40 ³ / ₄ | 43 ¹ / ₈ | 50 ¹ / ₄ | 53 ⁷ / ₁₆ | 55 | 61 ¹³ / ₁₆ |
| CC | 9 ¹ / ₂ | 11 ¹⁵ / ₁₆ | 14 ³ / ₈ | 17 ⁹ / ₁₆ | 19 ¹ / ₈ | 21 ⁷ / ₁₆ |
| DD | 11 ¹ / ₈ | 12 ² / ₁₆ | 13 ⁹ / ₁₆ | 15 ³ / ₃₂ | 16 | 17 ³ / ₁₆ |
| EE | 16 ⁷ / ₁₆ | 19 ¹³ / ₁₆ | 23 ³ / ₁₆ | 27 ⁵ / ₈ | 29 ³ / ₄ | 32 ¹⁵ / ₁₆ |
| FF | 12 ¹³ / ₁₆ | 15 ¹ / ₄ | 17 ¹¹ / ₁₆ | 20 ⁷ / ₈ | 22 ⁷ / ₁₆ | 24 ³ / ₄ |



NOTE: Dimensions and specifications are subject to change. Certified prints available.



Fiberglass Belt Drive Duct Fan



Series 34

- In stock models ship in 5 days or less.
- Excellent in corrosive atmospheres – temperatures up to 200°F.
- Weighs 25% less than comparable carbon steel equipment.
- Six-bladed fiberglass airfoil-type propeller provides maximum efficiency at medium pressure ranges with low speeds and low noise characteristics.
- See page 20 for accessories available from stock.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 34 Fiberglass Belt Drive Duct Fan shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

The AMCA certified ratings seal applies to air performance ratings only.

Rating Table – Series 34

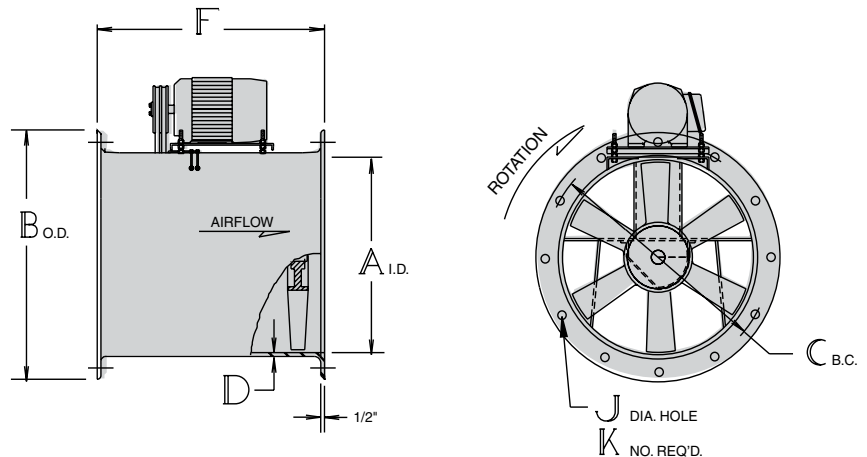
| Size | Model | Motor | | Phase | Fan RPM Range | CFM @ Static Pressure | | Approximate dBA @ 5' | Shipping Weight Less Motor and Accessories |
|------|----------------------|----------|------|-------|---------------|-----------------------|---------------|----------------------|--|
| | | HP | RPM | | | 0" | 1/4" | | |
| 12 | S34---126FW---FG---- | .25 - .5 | 1750 | 3 | 1650 - 2825 | 1150 - 1825 | 550 - 1625 | 74 - 88 | 90 |
| 16 | S34---166FW---FG---- | .5 - 1 | 1750 | 3 | 1650 - 2500 | 2650 - 4000 | 2175 - 3800 | 78 - 92 | 100 |
| 18 | S34---186FW---FG---- | .25 - 1 | 1750 | 3 | 900 - 1950 | 900 - 4600 | 600 - 4250 | 63 - 83 | 125 |
| 24 | S34---246FW---FG---- | 1 - 3 | 1750 | 3 | 975 - 1875 | 5250 - 9900 | 3000 - 9400 | 73 - 90 | 170 |
| 28 | S34---286FW---FG---- | 1 - 3 | 1750 | 3 | 850 - 1500 | 7400 - 1300 | 5500 - 12250 | 69 - 85 | 200 |
| 36 | S34---366FW---FG---- | 3 - 7.5 | 1750 | 3 | 800 - 1325 | 15000 - 24600 | 13100 - 23750 | 79 - 92 | 325 |

- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.
- Drives are variable pitch. RPM shown is for listed performance.

Principal Dimensions – Series 34

| Fan Size | 12 | 16 | 18 | 24 | 28 | 36 |
|----------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A | 12 ⁷ / ₈ | 16 ⁷ / ₈ | 18 ⁷ / ₈ | 24 ⁷ / ₈ | 28 ⁷ / ₈ | 37 |
| B | 16 ¹ / ₄ | 20 | 22 ¹ / ₈ | 28 ¹ / ₂ | 32 ³ / ₈ | 40 ⁵ / ₈ |
| C | 14 ¹ / ₂ | 18 ¹ / ₂ | 20 ¹ / ₂ | 26 ⁵ / ₈ | 30 ⁵ / ₈ | 38 ⁷ / ₈ |
| D | ³ / ₁₆ | ³ / ₁₆ | ¹ / ₄ | ¹ / ₄ | ¹ / ₄ | ¹ / ₄ |
| F | 20 | 21 | 22 | 25 | 25 | 28 |
| J | ⁵ / ₁₆ | ⁵ / ₁₆ | ⁵ / ₁₆ | ⁷ / ₁₆ | ⁷ / ₁₆ | ⁷ / ₁₆ |
| K | 6 | 6 | 6 | 6 | 6 | 6 |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.





Fiberglass Duct Axial[®] Fan (Belt Drive)



Series 35

- In stock models ship in 5 days or less.
- Excellent in corrosive atmospheres – temperatures up to 200°F.
- Weighs 25% less than comparable carbon steel equipment.
- Six-bladed fiberglass airfoil-type propeller provides maximum efficiency at medium pressure ranges with low speeds and low noise characteristics.
- See page 20 for accessories available from stock.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 35 Fiberglass Belt Drive Duct Axial Fan shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the Certified Ratings Program.

The AMCA certified ratings seal applies to air performance ratings only.

Rating Table – Series 35

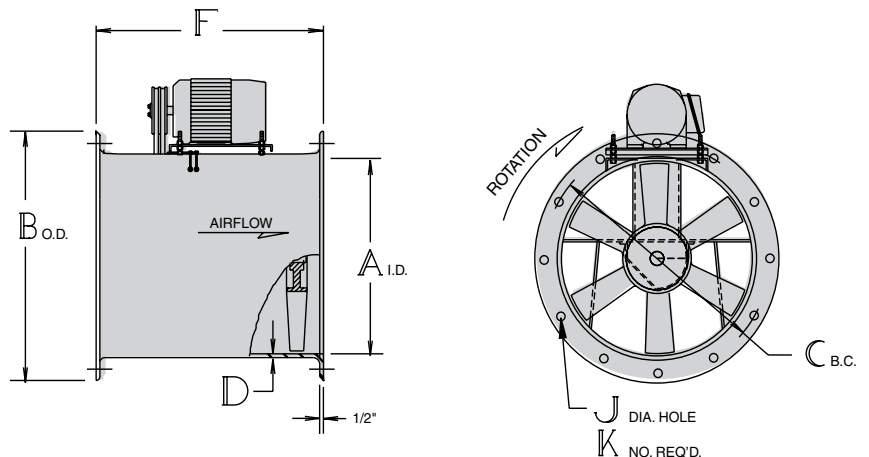
| Size | Model | Motor | | Phase | Fan RPM Range | CFM @ Static Pressure | | | Approximate dBA @ 5' | Shipping Weight Less Motor and Accessories |
|------|----------------------|-----------|------|-------|---------------|-----------------------|-------------|-------------|----------------------|--|
| | | HP | RPM | | | 3/4" | 1" | 1 1/2" | | |
| 12 | S35---126-E---FG---- | .25 - 1.5 | 1750 | 3 | 1650 - 3350 | 0 - 1700 | 0 - 1400 | 0 - 900 | 67 - 86 | 90 |
| 12 | S35---126-E---FG---- | 1.5 - 2 | 3450 | 3 | 2650 - 3650 | 950 - 1900 | 680 - 1700 | 390 - 1100 | 80 - 88 | 90 |
| 16 | S35---166-E---FG---- | .5 - 2 | 1750 | 3 | 1100 - 2975 | 0 - 4200 | 0 - 4000 | 0 - 3600 | 68 - 94 | 100 |
| 16 | S35---166-E---FG---- | 2 - 3 | 3450 | 3 | 2150 - 2975 | 2700 - 3200 | 1750 - 2800 | 1200 - 1750 | 86 - 89 | 100 |
| 18 | S35---186-E---FG---- | .33 - 3 | 1750 | 3 | 1100 - 3025 | 0 - 6000 | 0 - 5750 | 0 - 5250 | 71 - 99 | 125 |
| 24 | S35---246-E---FG---- | .75 - 7.5 | 1750 | 3 | 750 - 2650 | 1325 - 11600 | 0 - 11300 | 0 - 10800 | 70 - 98 | 170 |
| 28 | S35---286-E---FG---- | 1 - 10 | 1750 | 3 | 650 - 2125 | 0 - 16200 | 0 - 15900 | 0 - 15000 | 65 - 96 | 200 |
| 36 | S35---366-E---FG---- | 1.5 - 10 | 1750 | 3 | 600 - 1700 | 2000 - 26400 | 600 - 25500 | 0 - 24000 | 71 - 99 | 325 |

- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
- The dBA values shown above are based on Hartzell laboratory tests and are not indicative of actual installation values.
- Drives are variable pitch.

Principal Dimensions – Series 35

| Fan Size | 12 | 16 | 18 | 24 | 28 | 36 |
|----------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A | 12 ⁷ / ₈ | 16 ⁷ / ₈ | 18 ⁷ / ₈ | 24 ⁷ / ₈ | 28 ⁷ / ₈ | 37 |
| B | 16 ¹ / ₄ | 20 | 22 ¹ / ₈ | 28 ¹ / ₂ | 32 ³ / ₈ | 40 ⁵ / ₈ |
| C | 14 ¹ / ₂ | 18 ¹ / ₂ | 20 ¹ / ₂ | 26 ⁵ / ₈ | 30 ⁵ / ₈ | 38 ⁷ / ₈ |
| D | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₄ |
| F | 20 | 21 | 22 | 25 | 25 | 28 |
| J | 5 ⁵ / ₁₆ | 5 ⁵ / ₁₆ | 5 ⁵ / ₁₆ | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ |
| K | 6 | 6 | 6 | 6 | 6 | 6 |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.





Fiberglass Backward Curved Centrifugal Fan, Packaged (Belt Drive)



Series 41P
Class II Construction

- 5 days or less shipment for in-stock models with stock motor and drives mounted.
- Clockwise rotation (CCW not available from stock) with top horizontal discharge standard. Rotatable scroll. Stock fans cannot be rotated to BAD, TAD and DB. (Flanges interfere with base.)
- Class II construction.
- Offers non-overloading efficiency and economy in corrosive atmospheres up to 10" W.G. Temperatures to 250°F.
- Wheel is one-piece airfoil type, constructed with vinylester resin. Housing constructed of special corrosive resistant polyester resin plus flame retardant additives, reducing the flame spread rate below 25. Base is hot rolled steel, epoxy coated.
- Internal hardware is 304 stainless steel encapsulated with fiberglass. Shaft is 304 stainless steel.
- Flanged outlet and inlet flange are standard.
- Epoxy coated weather cover is standard.
- See page 20 for accessories available from stock.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Featuring Fiberglass Backward Curved Wheel Type FA Wheel 100% Width



Hartzell Air Movement certifies that the Series 41P, Fiberglass Backward Curved Centrifugal Fan, Packaged, shown herein is licensed to bear the AMCA Seal for sound and air performance. Ratings are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Sound performance data is available upon request. Please contact the factory and ask for Engineering Publication #SD-157.

Rating Table – Series 41P

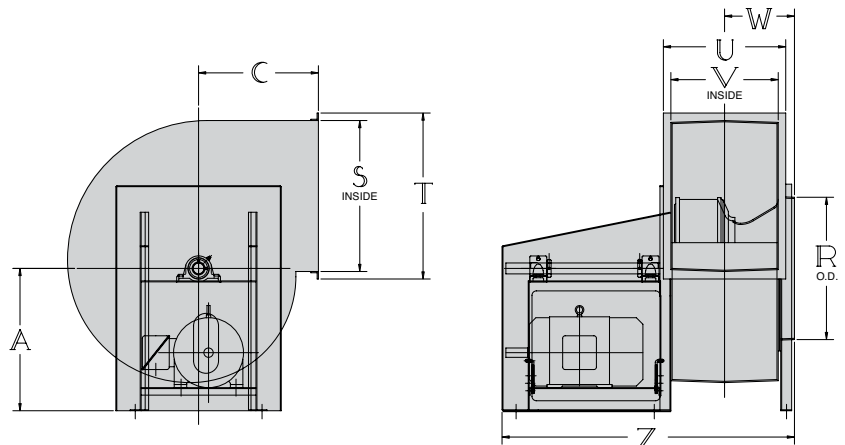
| Fan Size | Model | Max BHP | Max. Motor Frame | Fan RPM Range | CFM @ Static Pressure | | | | | Shipping Weight Less Motor and Accessories |
|----------|----------------------|---------|------------------|---------------|-----------------------|-----------|-----------|-----------|-----------|--|
| | | | | | 2" | 4" | 6" | 8" | 10" | |
| 12 | S41P0-122FA100FG---- | 10 | 215T | 1475-4400 | 800-3400 | 1100-3000 | 1300-2700 | 1500-2300 | 1600-1800 | 188 |
| 15 | S41P0-152FA100FG---- | 10 | 215T | 1175-3600 | 1150-5625 | 1600-5025 | 1900-4450 | 2200-3850 | 2500-3100 | 215 |
| 18 | S41P0-182FA100FG---- | 15 | 254T | 1010-2993 | 1800-8025 | 2400-7225 | 2800-6425 | 3200-5625 | 3600-4625 | 309 |

- Performance certified is for Installation Type D: Ducted Inlet/Ducted Outlet.
- Power ratings (BHP) do not include transmission losses.

Principal Dimensions – Series 41P

| Fan Size | 12 | 15 | 18 |
|----------|--------|----------|---------|
| A | 17 | 17 | 20 |
| C | 13 | 16 3/16 | 19 |
| R | 12 1/4 | 16 5/8 | 19 5/8 |
| S | 12 7/8 | 16 1/8 | 19 3/8 |
| T | 18 5/8 | 21 1/16 | 24 1/2 |
| U | 14 3/8 | 16 5/8 | 19 1/16 |
| V | 9 5/16 | 11 11/16 | 14 |
| W | 8 1/8 | 9 5/16 | 10 9/16 |
| Z | 37 5/8 | 40 1/8 | 47 1/16 |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.



Heating Equipment



Series 78V

Vertical Gas Fired Make-up Air Heater

- In stock models ship in 48 hours or less.
- IRI pipetrain.
- 460 volt and natural gas only.
- Economical and energy efficient.
- Each unit is a complete air supply system in a self-contained package, consisting of a fan, burner, 3-place remote station and controls.
- Excellent for localized supply air applications.
- Industrial duty – constructed of painted 12-gauge hot rolled steel. The unit's propellers are #319 cast aluminum alloy.
- Low noise – all Series 78V units are at 83 dBA or less @ 5'.
- Units are direct drive, no belts to adjust or replace. Extended lube lines to the motors are standard.
- Series 78V vertical units are set up for roof curb mounting. Units are ready for connection to gas line and power source.
- Standard units have bird screen and filter racks, less filters.
- For complete information on Series 78V Make-Up Air Heaters, go to www.hartzellairmovement.com.

Rating Table – Series 78V

| Model | BTU/HR | H.P. | Motor RPM | Basic Unit | | | | Min. Inlet Gas Pressure | Approximate Shipping Weight |
|---------------------|-----------|------|-----------|------------|-----------|--------------|-----------|-------------------------|-----------------------------|
| | | | | 0" Ext. SP | | 1/4" Ext. SP | | | |
| | | | | CFM* | Temp Rise | CFM* | Temp Rise | | |
| S78V--486AA--STFCL5 | 2,900,000 | 5 | 860 | 27300 | 98°F | 22900 | 116°F | 14" | 2900 lbs |

*CFM shown is net flow at discharge and includes static pressure loss for burner, shutter and the intake roof hood.

NOTE: Static pressure for calculated resistances external to the unit assembly.



Series 79 (Direct Drive)

Door Heaters

- In stock models ship in 48 hours or less.
- IRI/FM gas plumbing train.
- 460 volt only.
- Electronic flame safeguard with LED status.
- Magnetic starter.
- Rear inlet guard.
- Block & vent valves.
- High & low gas pressure switches.
- High temperature limit switch.
- Remote station for floor mounting with selector switch.
- Door switch for automatic start and stop of unit.
- For complete information on door heaters, go to www.hartzellairmovement.com.

Rating Table – Series 79

| Model | Motor H.P. | Fan RPM | CFM | Input BTU | Temp. Rise | Min. Inlet Gas Pressure | Approximate Shipping Weight |
|----------------------|------------|---------|-------|-----------|------------|-------------------------|-----------------------------|
| S79---226DA---STFCI3 | 1½ | 1750 | 6,500 | 700,000 | 99°F | 5" | 350 lbs |
| | 1½ | 1750 | 6,500 | 765,000 | 109°F | 6" | |
| | 1½ | 1750 | 6,500 | 820,000 | 117°F | 7" | |
| S79---246DA---STFCJ3 | 2 | 1750 | 7,900 | 865,000 | 101°F | 6" | 400 lbs |
| | 2 | 1750 | 7,900 | 930,000 | 109°F | 7" | |
| | 2 | 1750 | 7,900 | 930,000 | 116°F | 8" | |

Marine Duty Duct Axial[®] Fan (Direct Drive)



Series 44-M – Type DA

- In stock models ship in 48 hours or less.
- 5 day shipment with 230V motor voltage.
- 6-blade airfoil design, cast aluminum propeller, mounted with taperlock bushing.
- Housings are one-piece, heavy gauge hot rolled steel with steel flanges.
- Standard finish is a marine duty inorganic zinc base coat applied to sand blasted steel housings and an epoxy coating applied to cast aluminum impellers. This provides excellent weathering characteristics and protection against sea spray.
- Motors are totally enclosed, certified to meet IEEE 45, 50°C ambient rise, below deck, 230/460/60/3. Fractional HP motors equipped with permanently lubricated, non-regreasable bearings. Integral HP motors equipped with relubricable bearings as standard. 12", ¼ HP fan available in single phase 115 volt.
- Motors are pre-wired 460V with electrical leads extended to watertight conduit boxes located on the exterior of the fan housings. 230V available with mod fee applied.
- Blowers are designed for mounting in any position from horizontal to vertical.
- Contact factory if accessories required.
- For complete information on Certified Ratings Data, go to www.hartzellairmovement.com.



Hartzell Air Movement certifies that the Series 44-M, Marine Duty Duct Axial[®], Direct Drive Fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



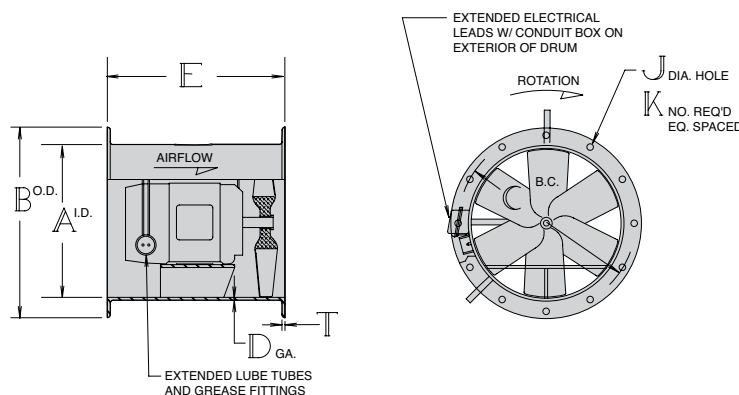
Hartzell Air Movement certifies that Maine Duty Duct Axial[®] Fan, Series 44-M, shown herein, is authorized to bear CE Marking in accordance with Machinery Safety Directive 98/37/EC of the European Union. Reference Technical File E.S. 13.2.2.

Rating Table – Series 44-M

| Size | Model | Motor | | Phase | Max Flow (CFM) | Approximate Shipping Weight |
|------|----------------------|-------|------|-------|----------------|-----------------------------|
| | | HP | RPM | | | |
| 12 | S44-M-126DA---STFIGB | ¾ | 3450 | 1 | 2308 | 105 |
| 12 | S44-M-126DA---STFIG2 | ¾ | 3450 | 3 | 2308 | 105 |
| 16 | S44-M-166DA---STFIK2 | 3 | 3450 | 3 | 5747 | 154 |
| 18 | S44-M-186DA---STFIL2 | 5 | 3450 | 3 | 8037 | 229 |
| 24 | S44-M-246DA---STFIK3 | 3 | 1750 | 3 | 9072 | 349 |
| 28 | S44-M-286DA---STFIL3 | 5 | 1750 | 3 | 14559 | 457 |
| 32 | S44-M-326DA---STFIN3 | 10 | 1750 | 3 | 21690 | 669 |
| 36 | S44-M-366DA---STFIP3 | 20 | 1750 | 3 | 30250 | 859 |

Principal Dimensions – Series 44-M

| Fan Size | 12 | 16 | 18 | 24 | 28 | 32 | 36 |
|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| A | 12 ⁷ / ₈ | 16 ⁷ / ₈ | 18 ⁷ / ₈ | 24 ⁷ / ₈ | 28 ⁷ / ₈ | 33 | 37 |
| B | 16 ⁷ / ₁₆ | 20 ⁷ / ₁₆ | 22 ⁷ / ₁₆ | 29 ⁷ / ₁₆ | 33 ⁷ / ₁₆ | 37 ⁷ / ₁₆ | 41 ⁷ / ₁₆ |
| C | 15 ¹ / ₈ | 19 ¹ / ₈ | 21 ¹ / ₈ | 27 ⁵ / ₈ | 31 ⁵ / ₈ | 35 ³ / ₄ | 39 ³ / ₄ |
| D | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ |
| E | 15 | 15 | 15 | 23 | 23 | 24 | 28 |
| J | 9 ⁹ / ₁₆ | 9 ⁹ / ₁₆ | 9 ⁹ / ₁₆ | 9 ⁹ / ₁₆ | 9 ⁹ / ₁₆ | 9 ⁹ / ₁₆ | 9 ⁹ / ₁₆ |
| K | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| T | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ |
| Max Motor Frame | 145T | 184T | 184T | 184T | 184T | 215T | 256T |

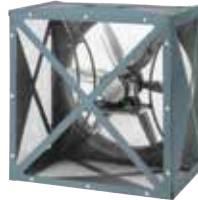


Panel Fan & Wall Ventilator Accessories

Steel Panel Fan Accessories – Series 02S



Front Guard



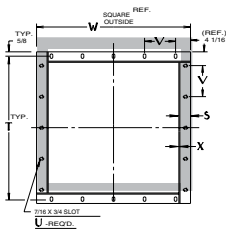
Rear Guard



Shutter Mounting Boot & Flange*

NOTE: Rear guard and flange ship unassembled as standard. Assembly available for an additional charge.

* Panel fans (Series 02S) can be supplied with an optional mounting flange around the panel to facilitate fan mounting to the wall opening. The optional shutter mounting boot is furnished with a mounting flange as standard. Both flanges have the same bolt pattern. See chart below.



Mounting Dimensions – Series 02S (with optional boot or mounting flange)

| Size | 24 | 28 | 36 | 40 | 48 |
|------|-----|-----|-----|-----|-----|
| S | 1½ | 1½ | 1½ | 1½ | 1½ |
| T | 29⅞ | 34⅞ | 43⅞ | 47⅞ | 55⅞ |
| U | 20 | 20 | 20 | 20 | 24 |
| V | 5¾ | 7 | 9¼ | 10¼ | 9¾ |
| W | 31⅞ | 36⅞ | 45⅞ | 49⅞ | 57⅞ |
| X | ⅜ | ⅜ | ⅜ | ⅜ | ⅜ |

NOTE: Dimensions and specifications are subject to change. Certified prints are available.

Shutters



Automatic Shutter
(.050 Aluminum)

Principal Dimensions (Shutters)

| Size | 24 | 28 | 36 | 40 | 48 |
|-------------|----|----|----|----|----|
| Flange I.D. | 24 | 28 | 36 | 40 | 48 |
| Flange I.D. | 27 | 31 | 39 | 43 | 51 |

HartKool® Accessories



Wall/Ceiling Bracket/ Mounting Hooks

Permanently mount the HartKool® from posts, walls, and ceilings.



Low Pressure Mist Kit

For evaporative cooling. Female coupling attaches to tap or garden hose.

Corrosion resistant hose, stainless steel clamps, and ULV fog nozzles, with cup filters. Available for 18", 24", 32" and 36" fans.



Wheeled Cart

Makes the HartKool® a truly portable fan, ready to go where you need it most. Holds one fan (any size) or two 18" or 24" fans.

Centrifugal Fan Accessories

Drain Kit

Steel drain kit shipped loose for Series 03P stock fans and PVC drain kit shipped loose on Series 41P stock fans. Inlet and outlet guards available upon request.

Inlet and Outlet Guards

Inlet guards are a steel spiral ring. Outlet guards are a square wire mesh. This accessory is available on Series 03P. Guards on Series 41P are epoxy coated.

Roof Ventilator & Duct Fan Accessories (Steel and Fiberglass)

Weather Cover

Designed to fit all belt drive duct and duct axial fans. Covers are vented. Steel construction. Specify horizontal or vertical mounting. This accessory is available on Series 31, 46, and 54-G. Weather cover on Series 34 and 35 fans are epoxy coated.

Companion Flanges

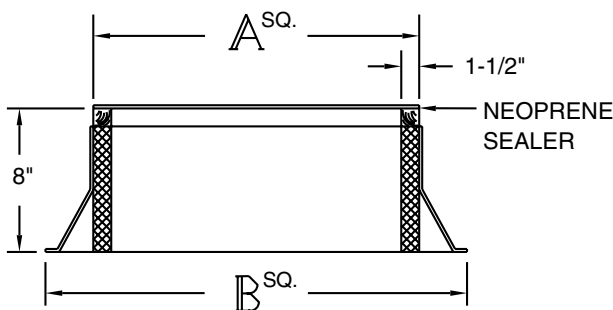
Drilled to fit the flanges of the duct fan; allows easy installation. Available in steel or fiberglass construction. This accessory is available on 31, 46, and 54-G. Companion flanges on Series 34 and 35 are fiberglass.

Mounting Feet

Bolted to the inlet and discharge flanges, mounting feet allow positioning of the duct axial fan on the floor, ceiling, wall or platform. Can be used with vibration isolators. This accessory is available on Series 31, 38, 46, and 54-G. Mounting feet on series 34 and 35 are epoxy coated.

Birdscreen

Half-inch square opening, spiral guard, 19 ga. galvanized steel available. Available on Series 61-G, 69, 31.



Disconnect Switch

Shipped loose for field mounting. Available on all fans.

Filters

Throw-away or permanent filters. Available on Series 16I.

Inlet and Outlet Guards

Spiral ring guard bolted on inlet or outlet. This accessory is available on Series 31, 38, 46, and 54-G. Guard on Series 34 and 35 fans are epoxy coated.

Prefabricated Curb*

The IRC-1 prefabricated curb is for flat roof installation of Hartzell roof ventilators. The curb is designed for metal, concrete or wood roof decks that are not surface insulated. 8" high.

Prefabricated curbs are designed to support the weight of the fans cataloged herein and attachments not exceeding over 100 additional pounds in a 40 mph wind. Non-standard curb construction is available.

*All prefab curbs will ship direct with supplier's standard delivery.

*Fiberglass curbs are a 6 week lead time. Ask us about epoxy coated curbs to improve your lead time.

Principal Dimensions for Series 61, Series 69, and Series 16I

| Fan Size | 24 | 30 | 36 | 40 | 42 | 44 | 48 |
|----------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A | 35 ³ / ₄ | 41 ¹ / ₄ | 47 ³ / ₄ | 49 ³ / ₄ | 53 ³ / ₄ | 53 ³ / ₄ | 59 ¹ / ₄ |
| B | 43 ³ / ₄ | 49 ³ / ₄ | 55 ³ / ₄ | 57 ³ / ₄ | 61 ¹ / ₄ | 61 ¹ / ₄ | 67 ³ / ₄ |

See pages 6, 7, and 8 for sizes available for each series



Key Markets

- Water and wastewater
- Marine
- Power Generation
- High Technology/Semiconductor
- Heavy Industry
- Oil and Gas
- Food Processing



Unlimited Applications

- Scrubber systems
- Dust collection
- Mining
- Ovens
- Pollution control/ Wastewater treatment plant
- Painting/ Spray booths
- Cryogenic air circulation
- Aircraft ground circulation
- Biogas/ Landfill exhaust
- Combustion air
- Drying equipment
- Heat exchangers
- Pneumatic conveying
- Fuel cells
- Air circulation
- Automotive





AIR MOVEMENT

Don't see what you're looking for? Ask about our Express Build to Order.

Most products can be built to order in 5 days or less.

To ensure complete customer satisfaction, all fans and blowers in Rapid Ship are fully assembled, test run, and electronically balanced before shipment.

Prefab curbs will ship direct from supplier with their normal delivery schedule.

Contact factory for availability. Call 1-866-880-8887 or email RapidShip@hartzell.com.



Safety Accessories, Application and Use Warning

The safe application and use of equipment supplied by Hartzell Air Movement is the responsibility of the installer, the user, the owner, and the employer. Since the application and use of its equipment can vary greatly, Hartzell Air Movement offers various product types, optional safety accessories, and sound performance data per laboratory tests. Hartzell Air Movement sells its equipment with and without safety accessories, and accordingly, it can supply such safety accessories only upon receipt of an order. The need for safety accessories will frequently depend upon the type of system, fan location and operating procedures being employed. The proper protective safety accessories to meet company standards, local codes, and the requirements of the Occupational Safety and Health Act must be determined by the user since safety requirements vary depending on the location and use of the equipment. If applicable local conditions, standards, codes or OSHA rules require the addition of the safety accessories, the user should specify and obtain the required safety accessories from Hartzell Air Movement and should not allow the operation of the equipment without them.

Owners, employers, users and installers should read "RECOMMENDED SAFETY PRACTICES FOR USERS AND INSTALLERS OF INDUSTRIAL AND COMMERCIAL FANS" published by the Air Movement and Control Association International, Inc., 30 West University Drive, Arlington Heights, Illinois 60004. A copy of this publication is enclosed with each fan shipped from Hartzell Air Movement, and is also available upon request at Hartzell's office in Piqua, Ohio 45356.

Please contact Hartzell Air Movement or your local Hartzell representative for more information on product types, safety accessories, and sound performance estimates.

Remember, the selection of safety accessories and the safe application and use of equipment supplied by Hartzell Air Movement is your responsibility.



AIR MOVEMENT

Rapid Ship

Hartzell Air Movement Advantages

- **A lifetime of value**
 - Industrial fans are field proven, 100% tested, with virtually no warranty issues
 - Energy efficient designs that provide a lower total cost of ownership
- **Leadership in performance**
 - Products certified by AMCA that meet DOE recommended FEGs
 - Highly efficient industrial fan designs that are the quietest in the market
 - Airfoil shape wheels and props with industry leading measured efficiencies
 - Fiberglass products with a unique one piece wheel design that delivers consistent operational results
- **Advanced engineering and manufacturing**
 - Proven manufacturing techniques on state of the art equipment in ISO 9001:2008 manufacturing facilities
 - Engineering team utilizes the latest design tools in 3D CAD and other modeling software
 - Manufacturing
 - Powder coat paint system
 - Robotic welding
- **Creative design and manufacturing team**
 - Offering the greatest number of industrial fan design choices
 - Building products to meet your rigorous application instead of being limited to a catalog
 - Use of Hartzell-FLOW® fan selection software
 - FEA analysis capabilities
- **Trusted brand name**
 - Extensive talent pool bringing over 85 years of knowledge and experience to you

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