

# CENTRIFUGAL FANS



All centrifugal fans manufactured by NECO feature a venturi inlet cone to improve airflow into the fan, increasing performance. NECO standard inlet guards are first in the industry to offer private labeling upon request.

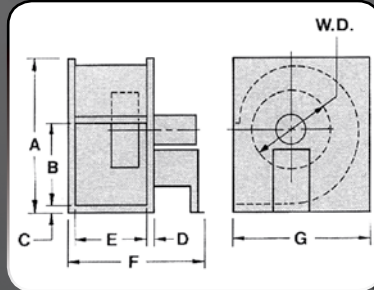


Since level operation is so important to the proper operation of a centrifugal fan, NECO includes adjustable leveling legs as standard equipment on all of our centrifugal fans.



Optional NECO fan controls are furnished with either a NEMA type contactor and motor thermostat and weather proof box, or an IEC type enclosed starter with field adjustable overload device. NECO also offers a special engine driven option on 30 HP and larger fans.

## CENTRIFUGAL FAN SPECIFICATIONS



FAN SIZE (HP)	A	B	C	D	E	F	G	WHEEL DIA
5	52-3/4"	28-7/16"	1-7/8"	2"	12-1/2"	35-11/16"	46-1/4"	27"
7-1/2	52-3/4"	28-7/16"	1-7/8"	2"	14"	37-3/16"	46-1/4"	27"
10	52-3/4"	28-7/16"	1-7/8"	2"	16"	39-3/16"	46-1/4"	27"
15	52-3/4"	28-7/16"	1-7/8"	2"	19"	42-3/16"	46-1/4"	27"
20	52-3/4"	28-7/16"	1-7/8"	2"	20-1/4"	43-7/16"	46-1/4"	27"
25	58-3/4"	33-9/16"	1-5/8"	2"	21-1/2"	44-3/8"	50-3/4"	30"
30	64-1/2"	36-1/4"	1-1/4"	2"	21-1/8"	46-3/8"	56-1/4"	33"
40	64-1/2"	36-1/4"	1-1/4"	2"	24"	49-1/4"	56-1/4"	33"

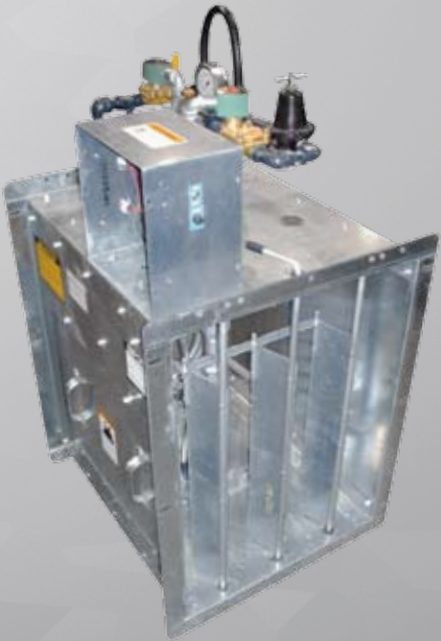
### 60 HZ CENTRIFUGAL FAN PERFORMANCE

FAN SIZE	STATIC PRESSURE (INCHES WATER COLUMN)										
(HP)	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
5	5900	5630	5350	5050	4725	4300	3700				
7-1/2	8700	8300	7850	7450	6950	6350	5400				
10	12200	11600	11000	10400	9750	8850	7600				
15	17400	16500	15750	14875	13875	12600	10800				
20	19700	18700	17700	16800	15700	14300	12250				
25	24000	23100	22200	21400	20300	19300	18000	16350	13600		
30	24000	23500	23000	22500	21800	21000	20050	19000	17500	15400	11900
40	32000	31400	30800	30000	29000	28000	26900	25200	23300	20700	15700

WARNING: As with any moving machinery, KEEP HANDS, FEET & LOOSE CLOTHING AWAY FROM ALL MOVING PARTS. Disconnect and Lock Out Power before servicing fan system.  
NECO RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

# DOWNSTREAM HEATER

**UP TO 4 MILLION BTU • EFFICIENT BURNER DESIGN WITH ELECTRONIC IGNITION PROVIDES A TRULY RELIABLE HEATER FOR YOUR BIN DRYING SYSTEM • OPTIONS ON TEMPERATURE REGULATION INCLUDE: ON-OFF CYCLING, HIGH-LOW BURNER, MODULATING VALVE**



- New rotatable burner which is easily adjusted or replaced if needed.
- Three vertical air diverters linked together; easily adjusted from outside of heater to prevent transition hot spots.

### Other NECO Fan & Heater Components

- Inlet Transitions
- Low Temperature Vane Axial Heaters
- Low Temperature Upstream Ring Burners for Centrifugal Fans
- Thermostats
- Plenum thermometer Kits
- Dual Burner controls
- Fan Shutters
- Inlet Rain Shields
- Roof Vents



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See Your NECO Dealer:

# NECO

# FANS & HEATERS



**FOR AERATION & GRAIN DRYING**



# AXIAL FANS

**GALVANIZED CONSTRUCTION • HIGH AIR FLOW AT LOW  
STATIC PRESSURES • 3/4 - 15 HP MODELS**



- New Integrated square flange design on all Axial Fans & Heaters.
- Reduced tip clearance resulting in improved performance.
- Housings are fabricated from G-90 galvanized steel then bolted together eliminating cracks and breaks associated with welded housings and rolled flanges.
- Housings equipped with forklift pockets for easy and safe handling.
- Available with or without motor controls on 3 HP and up. Units with control include a start-stop push button and motor overload protection, enclosed in a weather tight enclosure.
- Single phase or three phase models available in most voltages and frequencies.
- All NECO fans feature world class heavy-duty Baldor motors.
- Made in U.S.A.
- All fans are individually tested under load prior to shipment to insure proper operation and dependable performance.
- NECO fans are designed to operate at 3500 RPM for maximum axial fan performance. All NECO fans use motors specifically designed for use in axial fans and are designed to run at less than full load amperage to extend motor life and increase fan efficiency.



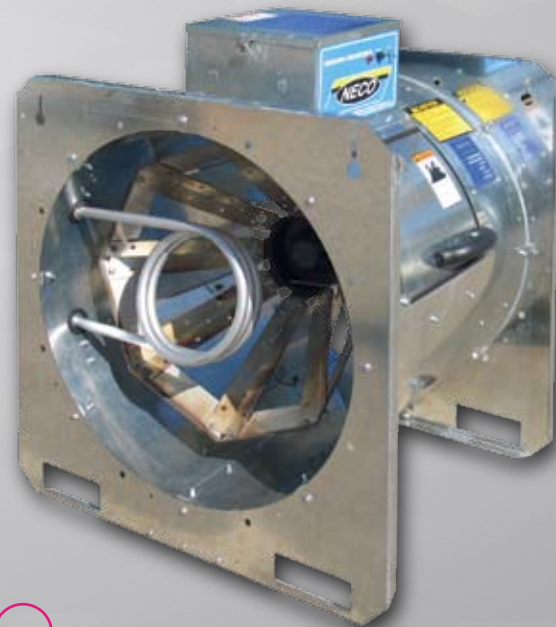
Blade Profile

The unique airfoil profile of the blades on the axial fans provide high airflows with low horsepower requirements. These blades are precision balanced for low vibration. All axial fan blades are precision cast from aluminum for durability.



Housings on 12" through 28" are fabricated from G-90 Galvanized steel. Increase visibility to your customers with private labeling available exclusively through NECO Axial Fans.

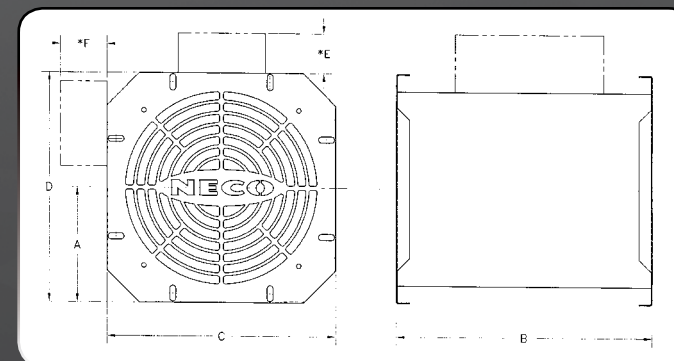
## AXIAL Heaters



- Modern venturi design burner pre-mixes gas and air for maximum efficiency.
- Extra heavy cast iron venturi tube does double duty supporting burner.
- Two special drip leg strainers to help keep fuel impurities out of valves.
- Eight straightening vanes to insure effective air flow through the burner.
- Long life gas valves with NEMA 4X coils built specifically for extreme outdoor conditions.
- Galvanized flame spreader for long life.
- Easily adjustable vaporizer on LP models.
- G-90 galvanized housing for long life and good looks.
- Reliable electronic ignition system, featuring a sealed circuit board, and a 14,000 volt Honeywell spark generator for trouble free operation.
- View window for ease of maintenance.
- Stainless steel flame probe.
- Plugs directly into the NECO fan for simple wiring and provides safe shut down if fan quits.
- High temperature safety switches on heater and on vapor line on (LP models) are standard.

## AXIAL FAN AIR DELIVERY CFM - CERTIFIED AIR FLOW RATINGS

FAN SIZE		STATIC PRESSURE IN INCHES OF WATER										
DIA.	HP	0.0"	0.5"	1.0"	1.5"	2"	2.5"	3.0"	3.5"	4.0"	4.5"	5.0"
12"	3/4	2500	2250	1825								
14"	1	3900	3500	3150	1650							
16"	1 1/2	4305	3985	3625	3150	2330						
18"	3	6500	6175	5825	5450	4975	4325					
24"	5-7	13075	12525	12025	11375	10750	9850	8850	7550			
24"	7 1/2-10	12470	12100	11600	11050	10500	9900	9300	8550	7700	6700	5700
26"	7 1/2-10	13800	13400	13000	12600	12200	11500	10800	10000	8800	7300	5500
28"	10-15	17234	16758	16283	15807	15285	14668	14092	13496	12749	11997	11246



### NECO AXIAL FAN DIMENSIONS

FAN DIA.	A	B	C	D	E	F
12"	7-1/16"	15-3/4"	14-1/8"	14-1/8"	N/A	N/A
14"	8-1/16"	15-7/16"	16-1/8"	16-1/8"	N/A	N/A
16"	8-9/16"	18-5/8"	17-1/8"	17-1/8"	N/A	N/A
18"	10"	19-1/4"	20"	20"	N/A	4 1/2"
24"	16-1/2"	26-5/8"	30"	31-1/2"	4"	N/A
26"	18-1/4"	26-5/8"	33-5/8"	35-1/16"	4"	N/A

N/A = Not Applicable

\* Control Box Dimension

# CENTRIFUGAL FANS

**PRECISION BALANCED • GALVANIZED CONSTRUCTION  
LOW-NOISE OPERATION • 3 - 60 HP MODELS AVAILABLE**



NECO has been involved with the grain drying industry for over 40 years. This extensive experience has helped us develop a line of centrifugal fans that meet the demands of today's customers. We are proud of the quality and efficiency built into this line. Please let one of our dealers show you how to have the best fan available at a very competitive price.

NECO low speed centrifugal Fans are designed for high air flows at low to medium static pressures. They will, typically outperform the same horsepower vane axial fan (propeller type) when operating at over 4" of static pressure. They also offer much quieter operation than axial fans.

All NECO fan housings are fabricated from heavy gauge G-90 galvanized steel and assembled with special locking bolts and nuts. This will provide the owner with many years of attractive, rust free, reliable service.



NECO centrifugal fan wheels feature special airfoil blades that are designed to provide maximum air output while minimizing noise. Each blade is both statically and dynamically balanced. A computerized balancing machine is used to assure our exacting standards are met. This extra care taken in the manufacturing process provides longer life and quieter operation. All NECO fans are thoroughly tested before leaving the factory to insure peak performance and smoothness of operation.



Most NECO fan wheels are constructed with energy efficient continuously welded airfoil blades. This welding method provides the most safety in addition to keeping water out which can cause imbalance.

NECO also offers fans and heaters that meet CSA standards for Canada 50 HZ fans as well as CE certified fans and heaters.