

FANS & HEATERS

NECO 



FANS & HEATERS

SIMPLE, ROBUST
AND RELIABLE

For over 50 years, NECO has specialized in agricultural equipment engineering and manufacturing. NECO produces market leading grain dryers and aeration equipment for on-farm and commercial applications worldwide. NECO is market led and engineering and manufacturing driven. This ensures that our customers have the most current product today and valuable solutions for the future.

NECO is ideally positioned to serve our regional and international customers through a convenient network of dealers, warehouses, and shipping infrastructure. Building on the solid foundation that was laid by the NECO founders and employees, we will continue to employ the best design and manufacturing professionals to ensure that NECO products remain best in class and provide excellent value to the world's grain conditioning markets.

NECO is an AGI brand.

AGI is a leading manufacturer of grain, seed, feed, food and fertilizer handling, blending, storage and conditioning equipment. Our brands are amongst the most recognized in the industry. The AGI product catalog includes portable handling equipment (augers, belt conveyors, grain vacs), permanent handling systems (bucket elevators, enclosed belt conveyors, chain conveyors, structural) and storage systems (aeration, drying, bins/silos) that service various sectors for on-farm and commercial operations.



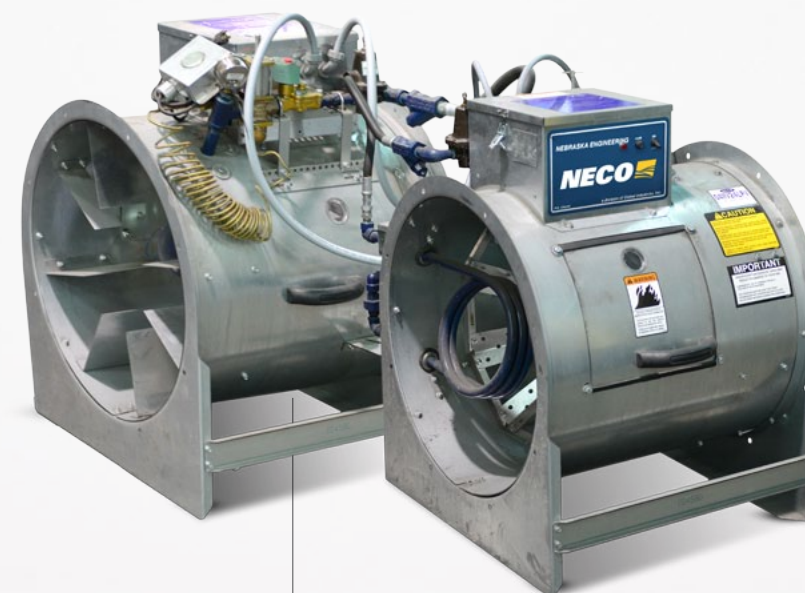
CENTRIFUGAL FANS



AXIAL FANS



CENTRIFUGAL HEATER



AXIAL HEATER



LOW-TEMP HEATER

NECO FANS

NECO offers two fan options for high quality aeration in your storage system. Our centrifugal fans are quiet and efficient. NECO axial fans are ideal for high airflow at low static pressures. They are designed for longevity ensuring simple, quiet, smooth operation.



CENTRIFUGAL FANS

Quiet & Efficient

Standard Features:

- Venturi inlet cone for improved airflow
- Dynamically balanced, continuously welded airfoil
- Bolted design eliminates welded seams
- Adjustable leveling legs

Optional Features:

- 60 hz standard & 50 hz CE models
- Single or 3 phase

Low & High Speed Models

- Low Speed - Fan diameters from 22" to 36" (5-50 HP) - TEFC (CSA Certified)
- High speed - Fan diameters from 15" to 22" (3-60 HP)
- 230 or 460 volt starters



AXIAL FANS

Designed for Longevity

Standard Features:

- PAG composite impellers for - Faster startup - long-term balance on 16" to 28" Fans
- 24" & 28" equipped with cable brackets for hanging installations
- Agriculture-duty motor
- Models available from 12" to 28"
- Low horsepower
- With starter

Optional Features:

- Single or 3 phase
- 24" & 28" can be equipped with 120 volt receptacles for connection to NECO axial heaters



CENTRIFUGAL FANS (1750 rpm) 60Hz Airflow Rate (cfm)

HP	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00
5hp	8200	7600	6800	6000	4700								
7-1/2hp	11100	10400	9700	8900	7900	6200							
10hp	12200	11600	11000	10400	9800	8900	7600						
15hp	17400	16500	15800	14900	13900	12600	10800						
20hp	19700	18700	17700	16800	15700	14300	12300						
25hp	24000	23100	22200	21400	20300	19300	18000	16400	16300				
30hp	24000	23500	23000	22500	21800	21000	20100	19000	17500	15400	11900		
40hp	32000	31400	30800	30000	29000	28000	26900	25200	23300	20700	15700		
50hp	33600	32800	32000	31000	30300	29300	28500	27500	26500	25500	24000	22600	20500
60hp	41500	40500	39400	38300	37300	36200	35000	33900	32800	31300	29600	28000	25400

AXIAL FANS 60Hz Airflow Rate (cfm)

HP	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
12" 3/4hp	2300	1800								
14" 1hp	2300	3200	1700							
16" 1-1/2hp	4000	3600	3200	2300						
18" 3hp	6200	5800	5500	5000	4300					
24" 7hp	12500	12000	11400	10800	9900	8900	7600			
24" 10hp	13400	13000	12600	12200	11500	10800	10000	8800	7300	5500
28" 15hp	16800	16300	15800	15300	14700	14100	13500	12700	12000	11200

NECO HEATERS

NECO provides centrifugal, axial and low-temperature heating options for on-farm or commercial operations. NECO's centrifugal heaters are excellent on for easy fit to the fan, as well as the transition. Offering the unique Y strainer to ensure flame with no fuel problems caused by plugged strainers, Axial fans are best utilized in situations where low static pressures required in the bin. NECO's low temperature heaters are the easiest choice when small adjustments are needed, or low temperatures are required for in bin drying. These heaters are available only for Centrifugal fans.

CENTRIFUGAL HEATERS

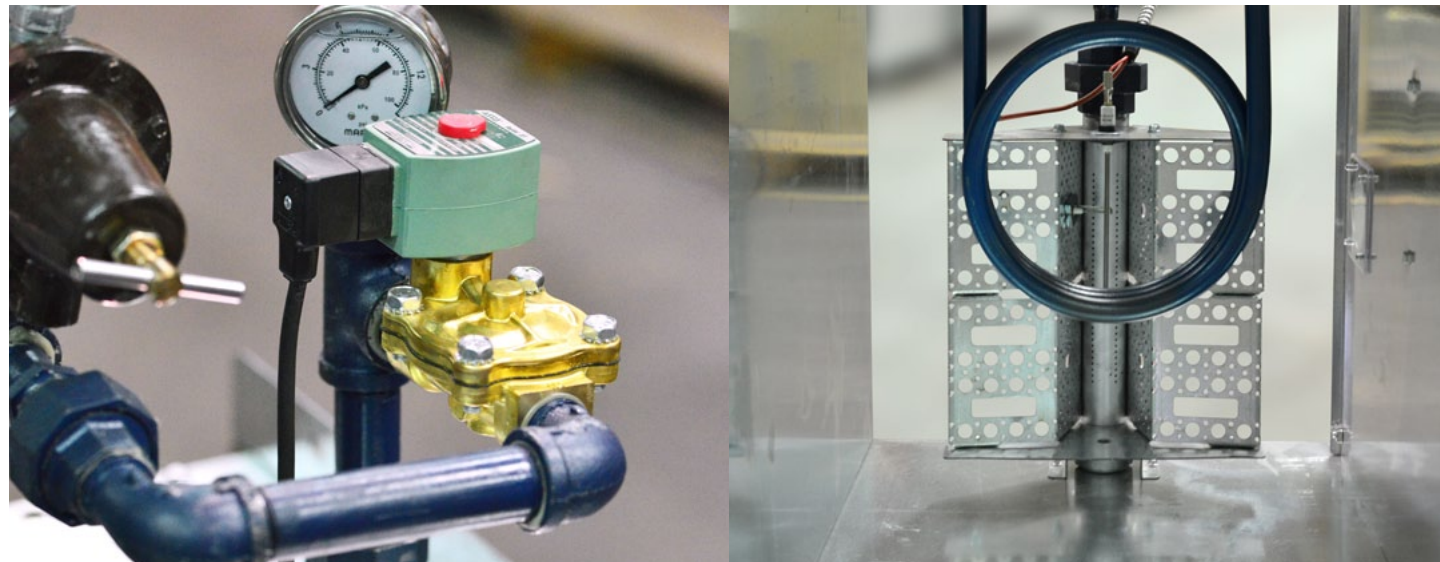
Easy Operation

Standard Features:

- Easily adjustable brackets
- Adjustable vaporizer on liquid propane models
- Plugs directly into NECO centrifugal fans
- Two viewpoints for spark & flame inspection
- Y-Strainers keep fuel impurities out of valves
- Galvanized construction

Optional Features:

- Liquid propane, vapor propane, and natural gas
- High & low controls
- Modulating valve



AXIAL HEATERS

Low Emissions

Standard Features:

- Venturi burner for maximum efficiency
- Heavy-duty cast iron venturi tube
- Plugs directly into NECO axial fans
- Available for 24" and 28"
- Galvanized construction
- Plumbed and wired for connection to fan and fuel

Optional Features:

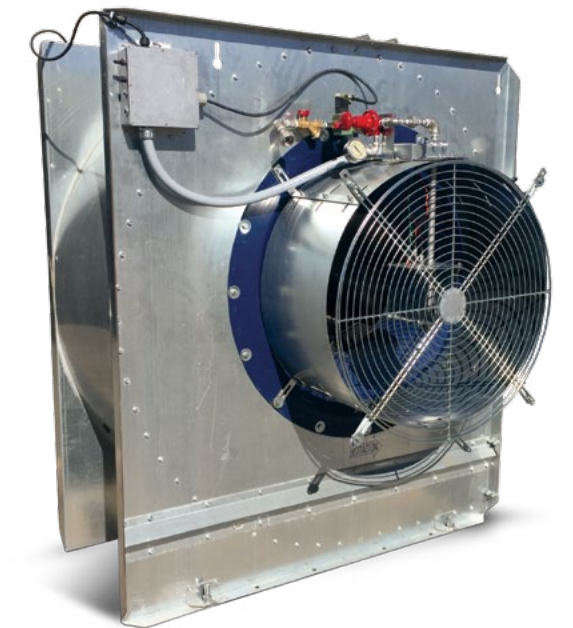
- Liquid propane, vapor propane, and natural gas
- High & low controls
- Modulating valve



LOW TEMP HEATERS

Sizes and models available? Adjustable for 10-50hp fans. Match the other heater sections with standard Features and Optional Features?

- Perfect solution for low temperature grain drying when less than 20°F (11°C) temperature rise is required
- Built-in adjustable brackets fit a variety of centrifugal fans
- Quick and easy installation
- Built-in safety and troubleshooting features allow for safe operation and easy problem diagnosis
- Unique adjustable airflow baffles allow for successful ignition at low burner pressures
- Remotely mounted control box is constructed of corrosion-resistant extruded aluminum
- Fine temperature control adjustment provides consistent heat down to just a few degrees temperature rise
- Less on/off cycling increases component longevity
- Industrial-grade ignitor and flame probe provide consistent lighting and long service life



Precise Heat. Less Cycling

The low temperature upstream heater can be set up to provide a consistent amount of heat down to just a few degrees temperature rise

Temperature Rise @ 15,000 cfm and lowest Burner Pressure

The low temperature heater can be set for a constant flame at 5°F or 10°F temperature rise, something the competition can't! The correct amount of heat means less cycling, which increases the component longevity

Competition On/Off Cycles @ Lowest Burner Pressure

CENTRIFUGAL HEATERS Up to 4MBTU heat output

	DESCRIPTION	PART NUMBER	POWER		TEMPERATURE CONTROL	WEIGHT	
			hp	kw		lb	kg
DSH1	Liquid Propane with Vaporizer	05DSH1LPH	5-20	3.7-14.9	On-Off Cycling	140	64
	Natural Gas	05DSH1NGH	5-20	3.7-14.9	On-Off Cycling	130	59
DSH2	Liquid Propane with Vaporizer	05DSH2LPH	24-40	14.9-29.8	On-Off Cycling	150	68
	Natural Gas	05DSH2NGH	25-40	14.9-29.8	On-Off Cycling	140	64

AXIAL HEATERS

DESCRIPTION	PART NUMBER	DIAMETER		WEIGHT	
		hp	kw	lb	kg
Natural Gas	04HC24NGV	24"	61	222	101
Liquid Propane with Vaporizer	04HC24LPV	24"	61	246	112
Vapor Propane	04HC24VPV	24"	61	222	101
Natural Gas	04HC28NGV	28"	71	244	111
Liquid Propane with Vaporizer	04HC24VPV	28"	71	270	122
Vapor Propane	04HC28VPV	28"	71	244	111

LOW TEMP HEATER

	115VAC, 1PH 60HZ	ORIFICE SIZE	MAX OPERATING PRESSURE	BTUH
Part# 05USH1	Vapor Propane	1/16"	15PSI	127,000
		3/32"	15PSI	286,000
	Natural Gas	3/32"	13PSI	127,000
		5/32"	8.5PSI	286,000

