



# FANS and SHUTTERS

Made to  
Work.  
Built to  
Last.®



# VANGUARD™ PLUS Fan with HYFLO® Shutter

Chore-Time's VANGUARD™ PLUS Cone Fan provides a great combination of performance, features and value. Add Chore-Time's HYFLO® Fan Shutter for even greater efficiency.

**48- and  
52-Inch**  
(121.9-cm and  
132.1-cm)  
**Models**



- Factory-assembled using heavy-gauge, galvanized steel panels with screw fasteners and a galvanized steel blade.
- Automatic belt tensioning system uses an idler arm and pulley to maintain constant optimum belt tension on the fan's easy-to-change belt.
- Heavy-duty, cast iron, air-handler type bearings are self-aligning, pre-lubricated, and include a zerk fitting, as well as being shielded from moisture and dust.

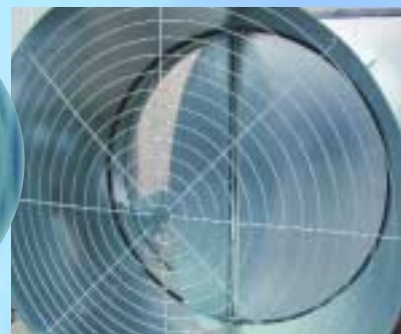


**Chore-Time's HYFLO® Shutter** improves fan performance by minimizing obstructions during fan operation.

- Delivers up to 10% more air with 75% less opportunity for air to leak through compared to a traditional louver shutter.
- HYFLO Doors do not suffer the typical 12-15% loss of efficiency and air speed typical of dirty louver-style shutters, so air speed is maintained over time.
- The HYFLO Shutter consists of only two moving parts for greater reliability and easier cleaning.



*HYFLO Shutter doors are pushed open as air is exhausted when fan operates.*



*Shutter's unique springs draw the doors closed when the fan is not in operation.*

# VANGUARD™ PLUS Fan with Louver Shutter

Chore-Time's VANGUARD™ PLUS Slant-Wall Cone Fan offers a balance of performance, features and value, PLUS, greater flow volume, higher efficiency and quieter operation.

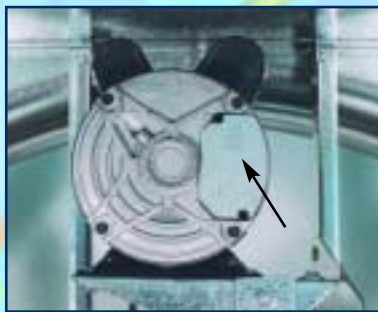
**36-, 48-  
and 52-Inch**  
(91.4-, 121.9-  
and 132.1-cm)  
**Models**



- Factory-assembled using heavy-gauge, galvanized steel panels with screw fasteners in a slant-wall style.
- Smaller fans have galvanized steel blades, while the 52-inch (132.1-cm) model has blades made of even heavier gauge galvanized steel.
- Automatic belt tensioning system uses an idler arm and pulley to maintain constant optimum belt tension on the fan's easy-to-change belt.
- Heavy-duty, cast iron, air-handler type bearings are self-aligning, pre-lubricated, and include a zerk fitting, as well as being shielded from moisture and dust.



*Idler tensioner provides smoother operation and maintains constant optimum belt tension.*



*Easier access for wiring motor.*



*Easy power cord access.*



*Belled shutter has a curved, aerodynamic frame.*



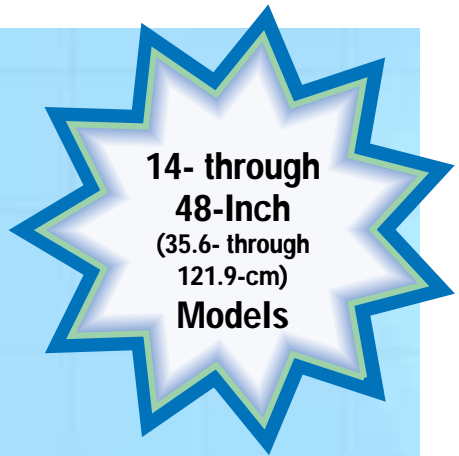
*Flexible louver edge helps seal the fan's opening.*

# TURBO® Fan with Louver Shutter

Chore-Time's TURBO® Cone Fan provides high efficiency and corrosion resistance.



*One-piece cone improves air flow up to 14% and efficiency up to 21%.*



- Corrosion-resistant, reinforced-fiberglass housing with aluminum motor mounts and a heavy cast-aluminum blade.
- Backed by Chore-Time's generous extended warranty including limited lifetime coverage for housing and blade, and a bonus year on motors. (See Chore-Time full written warranty for complete warranty details.)
- High CFM and CFM/watt, even under high static pressure.
- Heavy-duty, cast iron, air-handler type bearings are self-aligning, pre-lubricated, and include a zerk fitting, as well as being shielded from moisture and dust.
- Grill simply snaps into impact-resistant, polyethylene, one-piece cone with no fasteners required.



*Chore-Time's 48-inch (121.9-cm) fan is also offered in a light-restricting version with a black interior housing surface and a black cone.*

**Chore-Time's Louver Shutters** come in an aerodynamic "belled" style frame for greater efficiency as well as in a flat frame model for flush mounting. Available in white or gray.

- Louvers' flexible edge helps seal the fan's opening when fan is at rest.
- Corrosion-proof vinyl construction with a rigid vinyl frame and fiberglass rod hinges for the louvers.
- Louvers are easy to replace and have a smooth, easy-care finish for low maintenance.

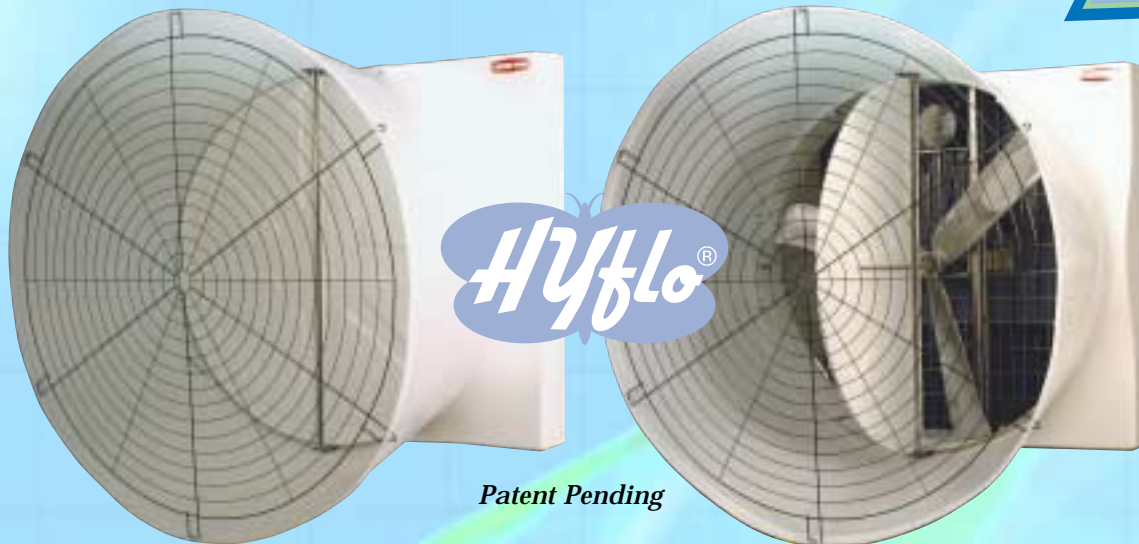


**HELP SEAL OUT DRAFTS** during cold weather with optional 36- or 48-inch (91.4- or 121.9-cm) cone covers made of vinyl-coated, ultraviolet-resistant fabric.

# TURBO® Fan with HYFLO® Shutter

Chore-Time's TURBO® Cone Fan is now available with Chore-Time's HYFLO® Fan Shutter for even greater efficiency. (Patent Pending)

52-Inch  
(132.1-cm)  
Models  
Only



Patent Pending

*Doors are pushed open as air is exhausted when fan operates, while shutter's unique springs draw the doors closed when the fan is not in operation.*

*Chore-Time's high-capacity 52-inch (132.1-cm) diameter TURBO® Fan with HYFLO® Shutter delivers more air with fewer fans – 29,700 CFM at 0.05 inches of static pressure in recent independent wind tunnel tests.*

- Sturdy, corrosion-resistant fiberglass housing with cast aluminum blade and corrosion-resistant components.
- One-piece, impact-resistant, polyethylene cone has 64-inch (162.6-cm) outside diameter, but can be compressed for 60-inch-on-center (152.4-cm) installation.
- Automatic belt tensioner uses arm and pulley arrangement to provide consistent belt tension.
- Heavy-duty, cast iron, air-handler type bearings are self-aligning, pre-lubricated, and include a zerk fitting, as well as being shielded from moisture and dust.
- Fans are shipped fully assembled including shutter doors. At installation, simply attach fan to house sidewall, add one-piece cone, and snap grill in place. Unit installs flush on inside of house.
- Backed by Chore-Time's generous extended warranty including limited lifetime coverage for housing and blade, and a bonus year on motors. (See Chore-Time full written warranty for complete warranty details.)



*Wire and spring attachment between doors keeps doors together, but allows them to float left or right for maximum efficiency.*

**Chore-Time's HYFLO® Shutter** minimizes obstructions during fan operation and seals tighter when not operating.

*Users may choose black or white for housing interior and cone. Housing exterior is white.*



- Delivers up to 10% more air with 75% less opportunity for air to leak through compared to a traditional louver shutter.
- HYFLO Doors do not suffer the 12-15% loss of efficiency and air speed typical of dirty louver-style shutters, so air speed is maintained over time.
- The HYFLO Shutter consists of only two moving parts for greater reliability and easier cleaning.

# FAN SPECIFICATIONS



## SPECIFICATIONS – VANGUARD PLUS™ FAN WITH HYFLO® SHUTTER

METAL CONE FANS

Drive	Type	Fan P/N	.00 Static Pressure		.05 Static Pressure		.10 Static Pressure		Air Flow Ratio	Bess Labs Test Number
			CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt		
<b>52-Inch (132.1-cm) Fans with HYFLO® Shutter (1 Phase)</b>										
BD	Standard	48483-22	28,000	27.5	26,200	24.0	24,400	21.0	0.77	03002
BD	High-Capacity	48483-21	30,800	23.2	29,400	20.8	27,300	18.3	0.77	03001
<b>52-Inch (132.1-cm) Fans with HYFLO® Shutter (3 Phase)</b>										
BD	Standard	48483-42	28,000	27.7	26,400	24.8	24,600	21.3	0.77	03003
BD	High-Capacity	48483-41	30,900	23.6	29,500	21.2	27,500	18.8	0.77	03004
<b>48-Inch (121.9-cm) Fans with HYFLO® Shutter (1 Phase)</b>										
BD	Standard	49515-22	22,400	28.3	21,100	24.4	19,600	21.3	0.77	04326
BD	High-Efficiency	49515-23	21,400	31.0	20,000	26.5	18,600	23.2	0.75	04325
BD	High-Capacity	49515-21	26,200	23.4	24,600	20.8	22,700	18.0	0.76	04327

## SPECIFICATIONS – VANGUARD PLUS™ SLANT WALL FAN WITH LOUVER SHUTTER

Drive	Type	Fan P/N	.00 Static Pressure		.05 Static Pressure		.10 Static Pressure		Air Flow Ratio	Bess Labs Test Number
			CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt		
<b>52-Inch (132.1-cm) Fans with Bell Louver Shutter (1 Phase)</b>										
BD	Standard	48319-225V	25,900	26.7	24,500	23.7	22,800	21.0	0.72	02184
BD	High-Capacity	48319-215V	28,400	24.0	26,800	21.3	25,100	18.9	0.76	02185
<b>48-Inch (121.9-cm) Fans with Bell Louver Shutter (1 Phase)</b>										
BD	Standard	48318-225	22,000	26.3	20,700	23.2	19,200	20.2	0.75	04321
BD	High-Efficiency	48318-235	20,700	28.8	19,400	25.1	18,000	21.8	0.73	04322
BD	High-Capacity	48318-215	25,800	22.4	24,400	20.3	22,900	18.0	0.77	04323
<b>36-Inch (91.4-cm) Fans with Flat Louver Shutter (1 Phase)</b>										
DD	Standard	44860-3622	10,860	20.1	10,210	17.9	9,460	15.9	0.75	99217



## SPECIFICATIONS – TURBO® FAN WITH HYFLO® SHUTTER

FIBERGLASS CONE FANS

Drive	Type	Fan P/N	.00 Static Pressure		.05 Static Pressure		.10 Static Pressure		Air Flow Ratio	Bess Labs Test Number
			CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt		
<b>52-Inch (132.1-cm) Fans with HYFLO® Shutter (1 Phase)</b>										
BD	Standard	49740-22	28,700	26.4	27,000	23.5	24,900	20.8	0.73	04334
BD	High-Capacity	49740-21	30,700	21.8	29,700	20.5	27,700	18.3	0.79	04312
<b>52-Inch (132.1-cm) Fans with HYFLO® Shutter (3 Phase)</b>										
BD	Standard	49740-42	28,800	26.3	27,100	23.3	24,800	20.5	0.73	04335
BD	High-Capacity	49740-41	N/A	N/A	29,700	20.3	27,900	18.2	0.79	04318

## SPECIFICATIONS – TURBO® FAN WITH LOUVER SHUTTER

Drive	Type	Fan P/N	.00 Static Pressure		.05 Static Pressure		.10 Static Pressure		Air Flow Ratio	Bess Labs Test Number
			CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt		
<b>48-Inch (121.9-cm) Fans with Bell Louver Shutter</b>										
BD	48-Inch Standard	38264-4825	25,200	23.9	23,600	21.2	22,100	19.0	0.74	04332
BD	48-Inch High-Cap.	47898-4825	27,700	19.6	26,400	18.0	24,960	16.3	0.83	02473
<b>36-Inch (91.4-cm) Fans with Flat Louver Shutter</b>										
DD	36-Inch (91.4-cm)	38265-3622	11,710	20.5	10,970	18.6	10,200	16.8	0.73	96159
BD	36-Inch (91.4-cm)	38589-3622	12,640	20.8	11,960	19.0	11,190	17.0	0.79	96199
<b>Variable Speed Fans with Flat Louver Shutter</b>										
DD	24-Inch (61.0-cm)	40452-2422	6,400	17.8	5,990	16.2	5,550	15.0	0.73	98012
DD	18-Inch (45.7-cm)	40452-1822	4,180	15.2	4,014	14.1	3,870	13.0	0.87	98008
DD	14-Inch (35.6-cm)	40452-1422	2,120	14.8	2,030	13.8	1,910	12.6	0.78	98059



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