

NEW
Motor Technology



Munters Drive

- Reduce energy costs up to 40%
- Qualifies for Regional Energy Rebate
- Nearly Maintenance Free
- No belt, No bearing
- Reduced wiring cost

Munters Drive

Revolutionizing Agri Ventilation Systems

LOOK INSIDE, for the current Munters Aerotech Fan models available with the Munters Drive, along with detailed performance data. Munters has engineered the latest advancement in motor technology by developing this unique motor drive technology. The Munters Drive is designed for high performance and low energy consumption. This revolutionary motor offers up to a 40% reduction in electrical usage and is nearly maintenance free.

Find additional information and videos on www.muntersdrive.com



VX Series

- Cast aluminum propeller, with airfoil design
- Fully Corrosion Resistant
- Poly cones for added durability
- PVC Shutters with efficiency boost bell mouth frame

VX51" & VX55" with Munters Drive

Performance Information: 51" VX, Three Phase - 460 Volt Motor and Drive

	RPM	0.00" SP			0.05" SP		0.10" SP		0.15" SP		0.20" SP		BESS Lab Test
		CFM	CFM/Watt	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	
High Efficiency - HE	540	28,200	31.0	26,500	27.6	24,500	24.1	22,100	20.8	19,300	17.7	12201	
High Rebate - HR	595	31,300	25.8	29,700	23.2	28,000	21.0	26,100	18.8	24,000	16.8	12203	
High Output - HO	655	34,800	21.2	33,400	19.4	31,900	17.7	30,300	16.2	28,600	14.7	12204	

Performance Information: 55" Vortex, Three Phase - 460 Volt Motor and Drive

	RPM	0.00" SP			0.05" SP		0.10" SP		0.15" SP		0.20" SP		BESS Lab Test
		CFM	CFM/Watt	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	
High Efficiency - HE	490	32,000	26.8	30,200	24.1	28,000	21.4	25,500	18.9	22,300	16.3	12197	
High Rebate - HR	495	32,400	26.3	30,500	23.5	28,300	21.0	25,800	18.6	22,800	16.1	12197	
High Output - HO	555	36,700	20.9	34,900	19.2	33,000	17.5	31,000	15.9	28,900	14.6	12199	





AT Series

- Proven Reliability
- Fully corrosion resistant
- Cast aluminum propeller
- Direct Drive Requiring Minimal maintenance

AT48" with Munters Drive

Performance Information: 48" AT, Three Phase - 460 Volt Motor and Drive

	0.00" SP			0.05" SP		0.10" SP		0.15" SP		0.20" SP		
	RPM	CFM	CFM WATT	CFM	CFM WATT	CFM	CFM WATT	CFM	CFM WATT	CFM	CFM WATT	test #
High Efficiency - HE	594	25,000	25.4	23,500	22.7	21,900	20.5	20,100	18.2	18,000	15.9	13412
High Rebate - HR	649	27,500	21.6	26,300	19.8	24,800	18.0	23,300	16.4	21,400	14.7	13413
High Output - HO	688	29,300	19.4	27,900	17.7	26,600	16.4	25,200	15.0	23,700	13.7	13414





Installation and Maintenance Savings:



Labor Maintenance Savings Calculation:

60 fans

2 hours labor annually per fan

Labor cost \$10.00 per hour*

$(\$10.00 \times 2 \text{ hours}) \times 60 \text{ fans} = \$1,200 \text{ per house}$

Annual Labor Maintenance Savings:

\$1,200

Wiring Cost Savings Calculation:

60 fans

Material costs per fan ~\$50*

1 hours labor per fan

Electrician fee \$50.00 per hour*

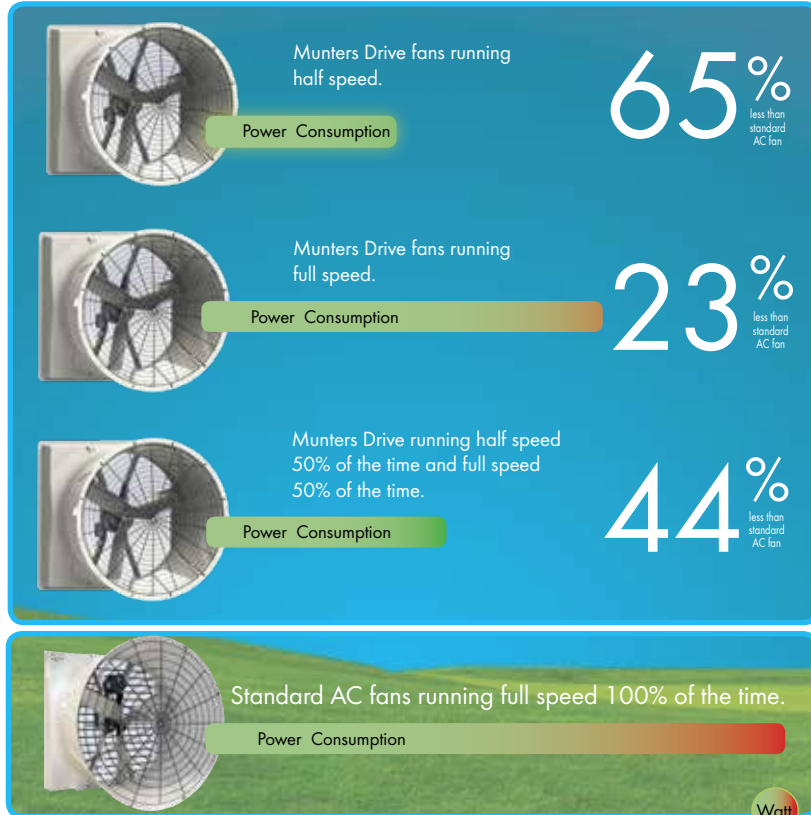
$\$50 \text{ labor} + \$50 \text{ material per fan} \times 60 \text{ fans} = \$6,000$

* Actual Results may vary

Upfront Wiring Savings:

\$6,000

Energy Savings: The ability to control Fan Speed significantly lowers energy cost and increases overall building performance.



Annual Energy Cost per fan :

Average annual run hours = 4000. National Average energy cost = .1190 kW.hr

Half Speed Munters Drive

2000 hr run time x Energy cost per fan = \$93

Full Speed Munters Drive

2000 hr run time x Energy cost per fan = \$206

Total annual cost per fan: \$299

Full Speed Traditional AC Motor

4000 hr run time x Energy cost per fan = \$533

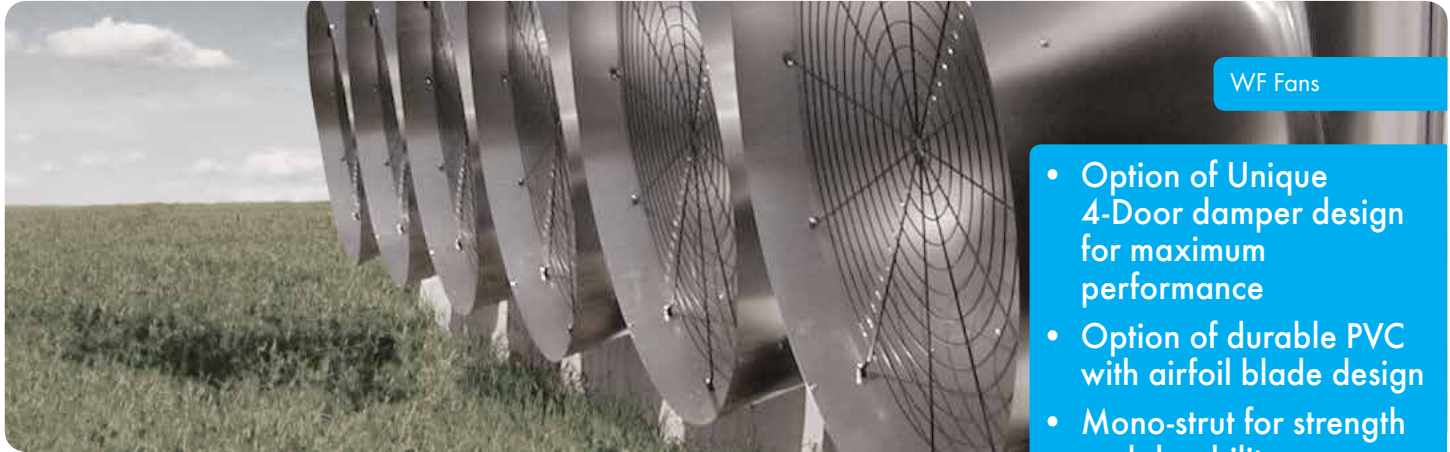
Total annual cost per fan: \$533

The Numbers:

Energy savings per fan	\$234 annual/fan
Regional Energy Rebate	\$100/fan
Labor Electrical Installation	\$100/fan
Maintenance Savings	\$20 annual/fan
Belt and pulley wear (performance loss)	\$15 annual/fan

Total Savings Per Fan: \$269 annually after first year

Year 1	Year 2	Year 3 - ROI	Year 10
\$469	\$738	\$1,007	\$2,890



WF Fans

- Option of Unique 4-Door damper design for maximum performance
- Option of durable PVC with airfoil blade design
- Mono-strut for strength and durability

WF54" Fan with Munters Drive

Performance Information: 54" WF, Three Phase - 460 Volt Motor and Drive

	0.00" SP			0.05" SP		0.10" SP		0.15" SP		0.20" SP		
	RPM	CFM	CFM WATT	CFM	CFM WATT	CFM	CFM WATT	CFM	CFM WATT	CFM	CFM WATT	Test #
High Efficiency - HE	522	29,200	30.0	27,600	26.3	25,900	23.5	23,800	20.9	21,400	18	13184 #2
High Rebate - HR	563	31,400	25.9	30,100	23.3	28,500	21.1	26,700	18.9	24,500	16.8	13185 #1
High Output - HO	590	32,600	23.0	31,300	21.0	29,900	19.2	28,400	17.5	26,500	15.8	13186 #1





AX Fans

- Cast aluminum airfoil propeller for durability and performance
- Creates significant velocity to remove heat from livestock
- Extremely durable extruded aluminum strut

AX51" Circulation Fan with Munters Drive

Performance Information: 51" AX, Three Phase - 460 Volt Motor and Drive

	RPM	Thrust (lbf)	Efficiency Ratio (lbf/kW)	Volts	Amps	kW	Airflow (thrust cfm)	Efficacy (thrust cfm/w)	5D centerline Velocity (fpm)	Test #
AX51DG23-HE	540	28.96	28.8	227	4.13	1.007	25,800	25.6	960	c13236
AX51DG23-HR	580	33.93	26.9	227	4.82	1.263	27,900	22.1	1,020	c13238





For regional representative information contact :

USA Munters Corporation Mason • 4215 Legion Drive • Mason, MI 48854 • Phone +1 800. 227.2376

www.munters.us

Visit Us!
Booth # EH 5006



CENTER of the DAIRY
UNIVERSE

World Dairy Expo 2013

October 1-5, 2013

Madison, Wisconsin