



More Than a Gentle Breeze!

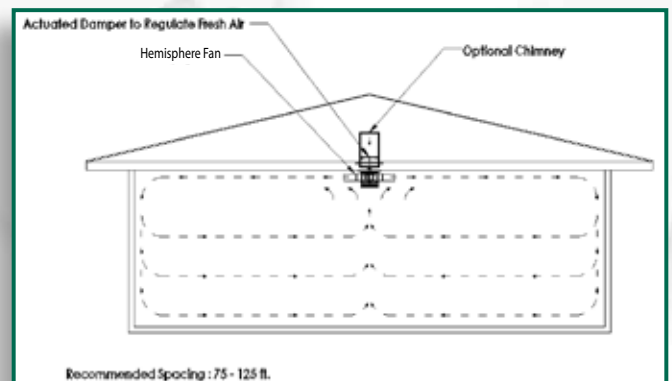
Control the Wind™ with the VAL-CO® Hemisphere™ Mixing Fan

- Patent Pending Technology.

- Two sizes, 48" and 72" diameter covers a wide range of applications.
- Ideal for **layer pullets, layers, and floor bird** applications.
- Innovative design dramatically reduces temperature variations in the facility.
- Growers report 2 degrees of temperature difference throughout layer and pullet houses.
- Growers report **more than** 10% improvement in manure belt moisture removal.
- Large diameter rotors (48" & 72") and slower rotation promotes quiet operation that does not disturb birds.
- High volume air movement without unnecessary drafts.
- **Controls circulation** through the entire building volume without dead spots.
- Distributes heat evenly helping to save on fuel bills.
- Throws air up to 100' making it ideal for **large/wider** houses.
- Optional **dampened** air inlet introduces air from attic or outside.
- Actuated inlet baffle controls fresh air inlet volume.
- Mixes the warmest air in the house with fresh outside air before contacting the birds.
- Eliminates drafts and cold zones during minimum ventilation.
- Solves "dead air" zones in wide floor bird houses during minimum ventilation.
- Eliminates the need for side wall inlets during minimum ventilation.
- Improves fan efficiency and reduces electrical load due to very low static pressure operation.
- **House winter air exchange required determined by moisture and CO2 requirements.**
- Robust design and materials ensure years of trouble free operation.
- Rigid frame maintains structural integrity.
- Precision machined hub keeps rotor turning true.
- Heavy duty ball bearings support shaft.
- Optional VFD controls for variable speed operation available.
- System can be interfaced with existing whole house controls.

Note: Protective cage removed to show product

This diagram shows the airflow pattern of this patent pending technology.



Performance You Can Count On

Chimney Kit and VFD Controls



VFD Controls for variable speed operation

Item Number	Description
Chimney	
972037	24" Chimney Kit, CF Fan
VFDs	
972036	2HP VFD, Allen Bradley 4A 3PH, 480V AC
921185	2HP VFD Panel; 200-230V, 1PH/3PH, 50/60Hz
921193	2HP VFD Panel; 380V, 3PH, 50Hz
921186	10HP VFD Panel; 200-230V, 3PH, 50/60Hz
921184	Control Panel; 5HP, 1PH/3PH, 240V, 60Hz
921187	Control Panel; 10HP, 3PH, 380-480V, 60Hz

Hemisphere Fan Models

Item Number / Description	CFM (est.)	Frame Construction	HP	RPM	Frequency (Hz)	Phase	Voltage	Installed Weight (lbs.)	VFD Controllable
972090 Kit, Centrifugal Fan, 48" w/ Wire Guard and Motor	23,000	Sheet Metal/ Bolted	1.0	197	60	3	208- 230/460	248	Y
972090-LM Kit, Centrifugal Fan, 48" w/ Wire Guard, Less Motor	-	Sheet Metal/ Bolted	-	-	-	-	-	213	-
972140 Kit, Centrifugal Fan, 48" w/ Wire Guard and Motor	23,000	Sheet Metal/ Bolted	1.0	187	60	1	115/230	252	N
972120 Kit, Centrifugal Fan, 72" w/ Wire Guard and Motor	38,000	Sheet Metal/ Bolted	1.5	187	60	3	208- 230/460	339	Y
972120-LM Kit, Centrifugal Fan, 72" w/ Wire Guard, Less Motor	-	Sheet Metal/ Bolted	-	-	-	-	-	297	-



Call your local **VAL-CO** representative or distributor for more information on these and our other fine products.

North America:

Phone: 800-99VALCO (800-998-2526)

Fax: (+1) 419-678-2200

E-mail: sales@val-co.com

International:

Phone: (+1) 419-678-8731

Fax: (+1) 419-678-2200

E-mail: intl.sales@val-co.com



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www.val-co.com