

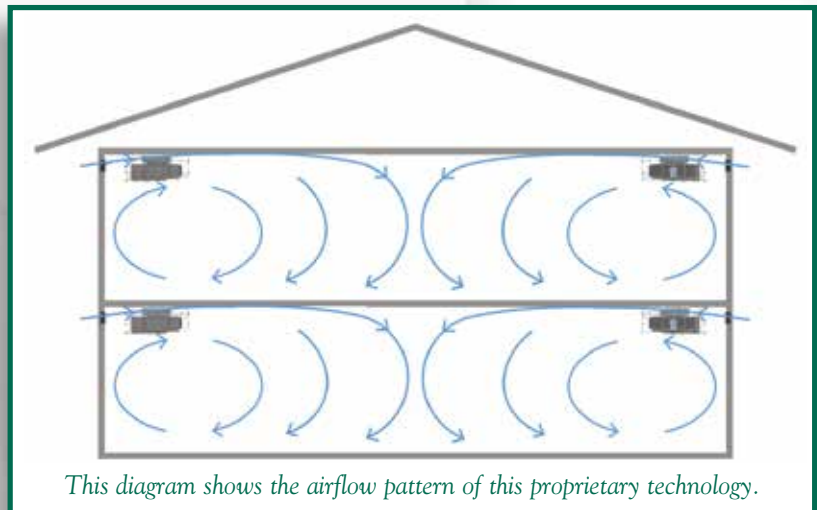


The shroud on the Directional Hemisphere helps circulate sidewall inlet air throughout the house.

Ventilate the Widest Buildings With Ease!

Sidewall inlets work in conjunction with the Directional Hemisphere Fan

- VAL-CO proprietary technology developed for whole house air mixing.
- Ideal for **layer pullet, layer, and floor bird** applications.
- VAL-CO's innovative design dramatically reduces temperature variations in the facility by moving a large volume of air with minimal drafts.
 - Growers report **down to 2** degrees of temperature difference throughout layer and pullet houses.
 - Growers report **more than 10%** improvement in manure belt moisture removal.
 - Growers report **more than 1/2 LB/100** improved feed conversion.
- Large diameter rotor (48") and slower rotation promotes quiet operation that does not disturb birds.
- **Controls circulation** through the entire building volume with minimal dead spots, improving heat distribution considerably.
- Installs offset from the ceiling to allow air from sidewall inlets to flow to the center of the house.
- Provides a method to mix the warmest air in the house with fresh outside air before contacting the birds; significantly reducing drafts and cold zones during minimum ventilation.
- Directional shroud diverts mixing air from the hemisphere away from the sidewall, working in concert with sidewall inlets.
- Robust design and materials ensure years of trouble free operation.
- Precision machined hub keeps rotor turning true.
- Optional VFD controls for variable speed operation available. (Ideal for pullets.)
- System can be interfaced with existing whole house controls.



This diagram shows the airflow pattern of this proprietary technology.





VFD Controls for variable speed operation

VFD Controls

Item Number	Description
VFDs	
921185	2HP VFD Panel; 200-230V, 1PH/3PH, 50/60Hz
921184	5HP VFD Panel; 230V, 1PH/3PH, 60Hz
921186	10HP VFD Panel; 230V, 3PH, 60Hz
921187	10HP VFD Panel; 380-480V, 3PH, 60Hz

Directional Hemisphere Fan Models

Item Number / Description	CFM (est.)	HP	Frequency (Hz)	Phase	Voltage	Weight (lbs.)	VFD Controllable
972425 Directional Hemisphere Fan 48" High Capacity, w/ Wire Guard	21,000	1.5	60	1	115/ 208-230	330	N
972185 Directional Hemisphere Fan 48" High Capacity, w/ Wire Guard	21,000	1.5	60	3	208- 230/460	330	Y
972385 Directional Hemisphere Fan 48" High Capacity, w/ Wire Guard	17,500	1.5	50	3	180/380	330	Y
972125 Directional Hemisphere Fan 72" Standard Capacity, w/ Wire Guard	29,500	1.5	60	3	208- 230/460	490	Y

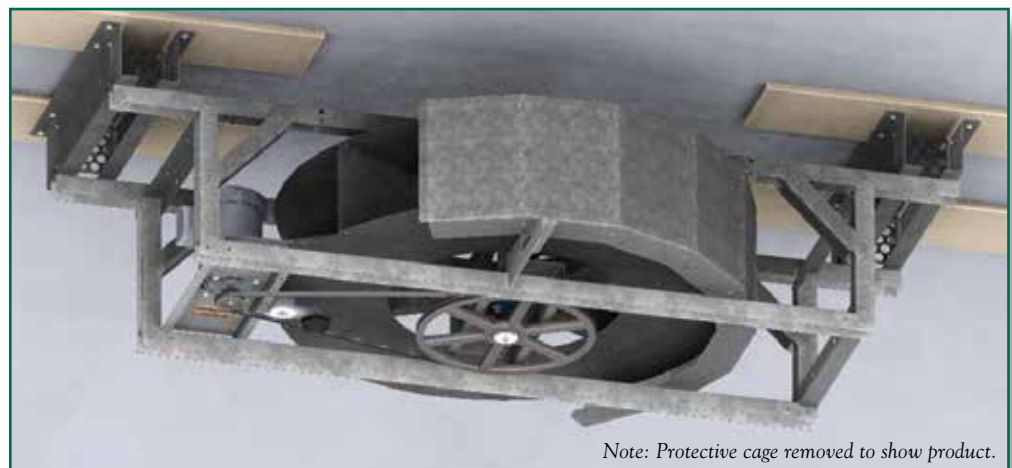
Protected under
U.S. Patent No. 9,163,639 B2
& U.S. Patent No. 9,829,003 B2

European Patent
No. EP 2 817 570 B1



Performance You Can Count On

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Note: Protective cage removed to show product.

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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