

# CUBO®

## Air Destratifying System With Optional Heat



Let's grow together®



### **Destratifies the Heat in Poultry Houses**

*Outstanding Air Mixing with Heating Options*

- Moves heat down from the highest part of the building and distributes it at bird level.
- Improves litter condition and eliminates stir fans.
- Uniform temperatures throughout the house encourage more even bird distribution.



Count on Chore-Time for  
experience, reliability,  
performance and confidence.

## CUBO® S/R – Destratification of Poultry House Air for an Improved House Environment

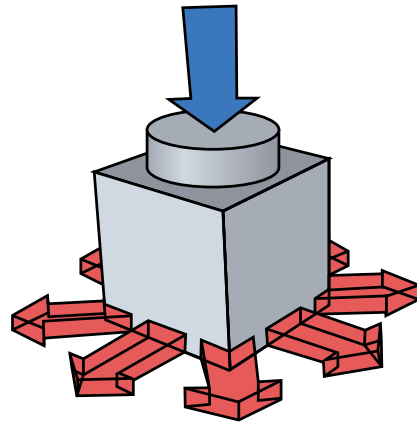


*CUBO® Model S/R Destratifier is housed in a zinc-coated steel box with a heavy-duty aluminum fan. Includes a protective grill over the air inlet and a snap-fit intake duct.*

*Air circulates 360 degrees around the CUBO® S/R, spreading air in all directions throughout the house.*

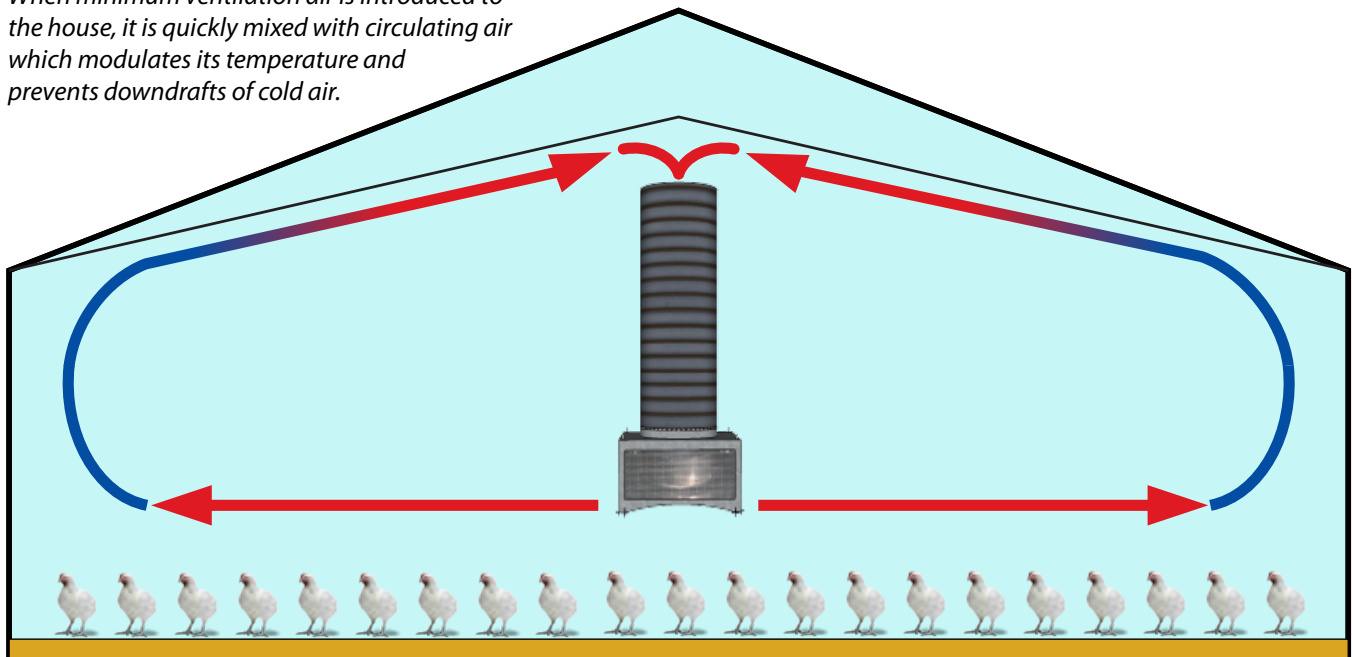
**Provides destratification, heat recovery and vertical mixing.**

- Air circulates 360 degrees around unit and travels quickly all through the house.
- Results in uniform temperatures throughout the house while keeping litter drier and reducing moisture and condensation.
- Temperature uniformity facilitates whole house brooding, if desired.



### Destratification with the CUBO® System

*When minimum ventilation air is introduced to the house, it is quickly mixed with circulating air which modulates its temperature and prevents downdrafts of cold air.*



*By circulating the air through the house, temperatures are maintained at a very consistent level without the need for stir fans. Air is drawn into the top of the unit and blown out all around the unit at bird level. Air then circulates back up toward the ceiling.*



## CUBO® SG/45 – Destratification with Gas Heat

Provides destratification combined with economical gas heat.

- Provides low-pressure gas heat with no visible flame in the poultry house.
- An insulating air chamber keeps the exterior of the heater away from burner so outside of unit stays warm rather than hot.
- Unit is designed for simple cleaning using water or air.

*Combustion tower can be released and folded over using incorporated hinges to facilitate cleaning and winching to the ceiling.*



*CUBO® Model SG/45 Destratifier is housed in a zinc-coated steel box with a heavy-duty aluminum fan. Includes a stainless steel burner with direct spark ignition. Control unit is suitable for direct connection to external zone control.*

## CUBO® HW PLUS – Destratification with Hot Water Heat

Provides destratification with heat from water heated outside the house.

- Eliminates in-house combustion resulting in less minimum ventilation run time.
- Reduces energy costs because no cold air needs to be brought into the house for combustion.



- Poultry producer can generate hot water for the unit in a conventional manner with LP or natural gas boilers, or consider using eco-friendly biomass burners, wood burners, litter burners and so forth.

*CUBO® Model HW Plus Destratifier is housed in a zinc-coated steel box with a heavy-duty aluminum fan.*

## CUBO® Model SE/G

Provides destratification with indirect combustion.

- Delivers outstanding air mixing and heat distribution.
- Outside air is drawn into the unit for combustion and exhausted back outside, reducing the amount of minimum ventilation run time.
- No carbon dioxide is introduced to the house through combustion.



*Model SE/G is housed in a zinc-coated steel box with a heavy-duty aluminum fan. Includes a separate burner unit and ducting.*

## Specifications for CUBO® Units with Optional Heat

		CUBO® SG/45		CUBO® HW PLUS*	
		U.S. Measure	Metric	U.S. Measure	Metric
Ignition		Automatic Spark		N/A	
Electrical		220 V 60 Hz 1 Ph 230 V 50 Hz 1 Ph		230 V 60 Hz 3 Ph 230 V 60 Hz 1 Ph 230 V 50 Hz 3 Ph 380 V 50 Hz 3 Ph	
Airflow		3,178 CFM	5,400 m <sup>3</sup> /h	2,410 CFM	4,100 m <sup>3</sup> /h
Heat Source		LP or Natural Gas		Hot Water	
Heat Output		150,000 BTUs	45 kw	106,000 BTUs @ 180° F*	31.3 kw @ 82.2° C*
Heat Source Input Requirements		LP - 14.8" W.C. NG - 8" W.C.	Propane G31 - 37 mbar Butane G30 - 30 mbar Methane G20 - 20 mbar	Water temperature range of 158° F to 194° F	Water temperature range of 70° C to 90° C
Gas Consumption		LP - 1.7 gph NG - 141.3 cfh	LP - 3.13 kg/h NG - 4.2 m <sup>3</sup> /h	N/A	
Brood Max. distance between units 82 feet (25 m)	Number of Units per Well-Insulated House	L x W x H (in feet) x 3 BTU / 150,000	L x W x H (in m) x 35 w / 45,000	L x W x H (in feet) x 3 BTU / 106,000*	L x W x H (in m) x 35 w / 31,300*
	Number of Units per Less-Insulated House	L x W x H (in feet) x 3.5 BTU / 150,000	L x W x H (in m) x 40 w / 45,000	L x W x H (in feet) x 3.5 BTU / 106,000*	L x W x H (in m) x 40 w / 31,300*
Grow Out Max. distance between units 98 feet (30 m)	Number of Units per Well-Insulated House	L x W x H (in feet) x 2.5 BTU / 150,000	L x W x H (in m) x 30 w / 45,000	L x W x H (in feet) x 2.5 BTU / 106,000*	L x W x H (in m) x 30 w / 31,300*
	Number of Units per Less-Insulated House	L x W x H (in feet) x 3 BTU / 150,000	L x W x H (in m) x 35 w / 45,000	L x W x H (in feet) x 3 BTU / 106,000*	L x W x H (in m) x 35 w / 31,300*
Dimensions (L x D x H)		24.6 x 23.7 x 52.4 in.	62.5 x 60.2 x 133.1 cm	24.6 x 23.7 x 23.5 in.	62.5 x 60.2 x 60 cm
Weight		88 lbs.	40 kg	132 lbs.	60 kg

## Specifications for CUBO® Units without Heat

		CUBO® DESTRATIFIER S/R	
		U.S. Measure	Metric
Electrical		230 V 60 Hz 3 Ph 230 V 60 Hz 1 Ph 230 V 50 Hz 3 Ph 380 V 50 Hz 3 Ph	
Airflow		3,410 CFM	5,800 m <sup>3</sup> /h
Maximum Space Between Units – Brood**		82 feet	25 m
Maximum Space Between Units – Grow Out**		98 feet	30 m
Dimensions (L x D x H)		24.6 x 23.7 x 11 in.	62.5 x 60.2 x 28 cm
Weight		33 lbs.	15 kg

\*Output and number of units are dependent on water temperature and flow and may vary from figures shown.

\*\*For both well-insulated and less well-insulated houses.

NOTE: Number of units may vary depending on house style, size, insulation, climate where house is located and other factors. Proper pipe sizing and system design is vital to heating performance. A qualified hydraulic engineer should be consulted.



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