



**“EQUIPPED TO MEET YOUR NEEDS”**

## **RECOV-AIRE**

### **Heat Recovery Systems for Poultry**

**Improve Your Air Quality While Dramatically Reducing Your Heating Costs**



**An example of potential heat Savings Is calculated as follows:**

$BTU = HEAT RISE \times 1.1 \times CFM$

Exhaust temperature 82 degrees F

Outside temperature 32 degrees F

Incoming air temperature after exchange = 54 degrees F  
( 22 degrees RISE)

$BTU = 22 \times 1.1 \times 2000 CFM$   
(14" INTAKE FAN) = 55,000 BTU

1 litre of propane = 24200 BTU  
@ an estimated \$0.45/litre

Therefore the savings in fuel would be  
2 l/hr = .90/Hr x 24 HR = \$21.90/Day

The Recov-aire's large heat exchanger core transfers a large percent of wasted exhausted heat (50% or more depending on temperature difference) to pre-heated incoming air.

The results are dramatic!! Air quality and humidity control is vastly improved. That is because for every 10 degrees celsius rise in the incoming air temperature the moisture holding capacity is doubled.

Also, minimum ventilation is easier to control because the "pre-heated" incoming air is fan powered in.

The Recov-aire's unique designed "tube type" heat exchange core stays cleaner longer than "plate type" exchangers, meaning less maintenance. The unit also comes with an internal washing system. You can hook up a water line to easily rinse the core on a regular basis during a cycle. The core can also be removed for periodic thorough cleaning with a special wand which is included with the system.

The most popular model for poultry application is the 7-75 this unit uses a 18" exhaust fan and a 14" intake fan with diffuser or an air bag kit is optional. The rough square opening required is 7'4" x 6'7".

The unit fits flush with the inside wall and the heat exchange core can be washed and /or removed from inside the barn. A fresh air intake kit is available to pull the air from the attic for ease of installation. A model 8-45D is also available where by the core is accessible from the outside. This can be used with cage layers, where the room to access the core is restricted.



**P.O. Box 220  
#4842 Perth Line 34  
(Hwy #8 West)  
Sebringville, ON N0K 1X0  
Phone: 519-393-5179  
Fax: 519-393-5195  
E-mail: sales@ag-co.on.ca  
Web Site: www.ag-co.on.ca**