

# SUMMER COOLING

*Typical ITV-CTV Installation*

## Sidewall Installation

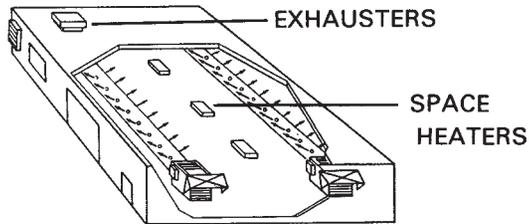


Diagram of two ITV-CTV systems uniformly distributing make-up air over a relatively wide area.

Fresh air flow directed down at employees.



**This Quietaire System  
uses energy that you have  
already paid for once.  
You don't want to pay twice,  
do you?**

**VentilationUSA**  
LLC  
Alternative Air Movement Solutions  
P.O. Box 4360  
Manchester, NH 03108

**DOES YOUR BUILDING SUFFER  
FROM A NEGATIVE AIR PRESSURE?**

# GET POSITIVE!

With  
**Quietaire's**  
Heatless, Tube Type  
Make-up Air  
System

**VentilationUSA**  
LLC  
Alternative Air Movement Solutions

P.O. Box 4360  
Manchester, NH 03108  
Tel 1 (800) 622-8078  
Fax (603) 622-1792

e-mail:  
**info@ventusa.com**

# What the Quietaire ITV-CTV Series Can Do For You

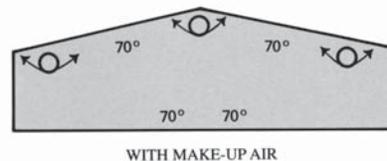
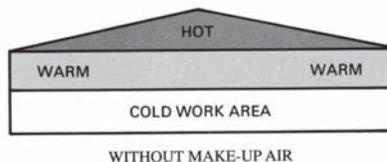
## *Eliminates Negative Air Pressure*

If you have exhaust fans running in your buildings to remove smoke fumes, and contaminated air and do not have a make-up air system, you have a negative air pressure condition.

1. Negative air pressure causes drafts at the floor level.
2. Negative air pressure causes back drafting down furnace stacks.
3. Negative air pressure causes exhaust fans to operate inefficiently.

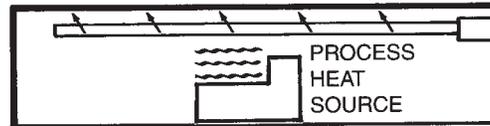
## *Makes Use of Heat at the Ceiling Level*

Fresh make-up air is forced into the building through a distribution duct that blends the cool outside air with the heat that naturally accumulates at the ceiling. Therefore, the stratified heat usually lost through the roof and upper walls is saved and reused.



## *Uses Process Heat As Well As the Building's Heating Systems*

The ITV-CTV will mix the fresh make-up air with the process heat that normally accumulates and distribute it to the other areas.



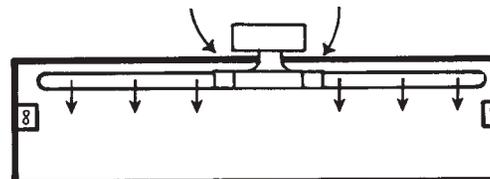
SIDE VIEW OF  
HEAT MOVING INSTALLATION

## *Eliminates Dead Air Spots*

Dead air spots are eliminated by distributing fresh make-up air evenly throughout the building.

## *Assists in Summer Cooling*

The ITV-CTV introduces outside air at high velocity to help with summer cooling. This is done by positioning the ITV-CTV duct to distribute the cool outside air downward without disturbing the stratified heat at the ceiling.

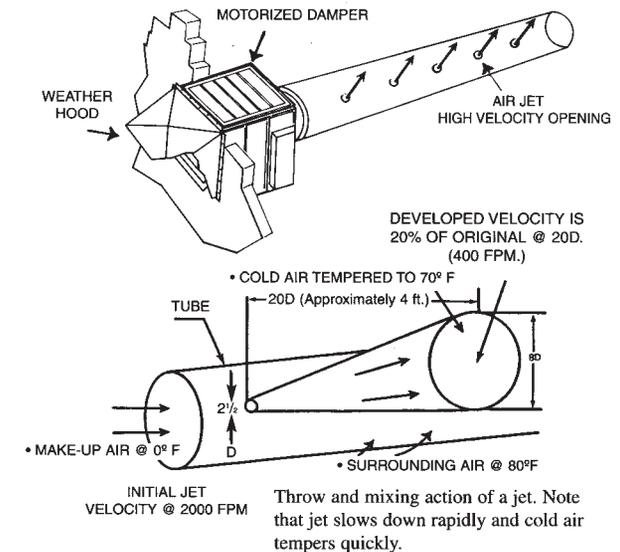


SIDE VIEW OF ROOF TOP  
INSTALLATION WITH DUCT  
IN SUMMER COOLING POSITION

When the ITV-CTV is turned on, the damper opens and air is drawn through the shutters and forced into the tube. After the tube is inflated, air is discharged out the holes at high velocity. This high velocity causes turbulence, which in turn causes the outside air to mix with the stratified waste heat at the ceiling.

The illustration below shows how the throw and mixing action of the high velocity jets tempers 0° F outside air to 70° F by the time it has moved four feet from the tube.

TYPICAL THROUGH THE WALL TYPE INSTALLATION



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**CAN PAY FOR ITSELF IN ONE SEASON!**

Initial purchase price is only a fraction of conventional make-up units.  
The fuel costs saved in one season is usually enough  
to pay for your ITV-CTV system.