

Modulating Tube Heaters

**HEATRITE**



Heat-Rite<sup>TM</sup>  
VM Brooders.

# MODULATING HEATERS

## LOWER BROODERS' ENERGY BILLS!

Increased efficiency by  
**MODULATION**  
- adjustment of both fuel  
and combustion air

Flock 1:

Used **38% Less Fuel** than 2-stage  
and **23% Less Fuel** than Single-stage!

Flock 2:

Used **33% Less Fuel** than 2-stage  
and **21% Less Fuel** than Single-stage!

\*For both flocks, the VAL-CO<sup>TM</sup> low-intensity,  
unitary, modulating heaters used the least amount of energy,  
while the two-stage heaters used the most!

\*Results may vary.



**VALCO**<sup>TM</sup>  
People. Products. Solutions.



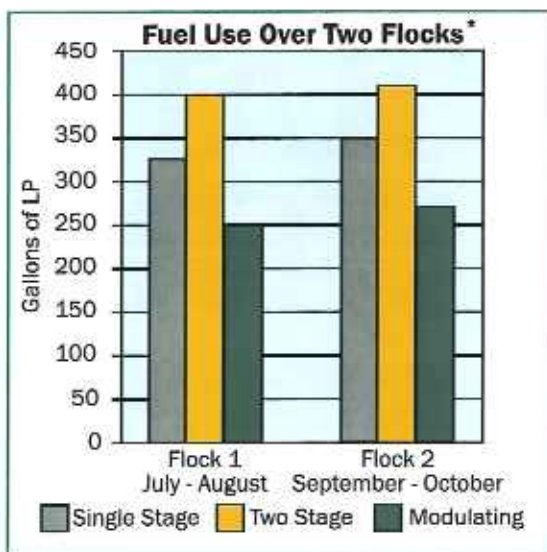
# VAL-CO™ HEATRITE

Several brooders have experienced major savings in fuel bills after installation of VAL-CO™ brooder heaters. The chart below details the savings achieved by a poultry farm that compared three types of gas-fired, low-intensity, infrared heaters: a modulating heater, a single stage heater and a two-stage heater, over two different flocks spanning four months.

Air-fuel linkage technology varies fuel and combustion air throughout the full range of burner inputs for optimum combustion efficiency. Continuous, smooth modulation ensures ultimate comfort, surpassing outdated two-stage technology.

Two-stage heaters only reduce the amount of gas, but keep the air constant and therefore, do not optimize combustion. According to the 2004 ASHRAE Systems & Equipment Handbook 28.7, "Fuel savings with two-stage firing rate systems may not be realized unless both the gas and the combustion air are controlled."

- **Provides more accurate control** over meeting heating demands by allowing even the slightest change in heater firing rate anywhere within the 60-100% range.
- **Provides real energy savings** by matching the heating system's input to the building's heat load requirement, resulting in longer heater run times, as opposed to frequent heater cycling.



\*Results may vary.



## VAL-CO.

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## Installation Code and Annual Inspections:

All installation and service of VAL-CO equipment must be performed by a contractor qualified in the installation and service of products sold and supplied by VAL-CO and conform to all requirements set forth in the VAL-CO manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, VAL-CO recommends that a qualified contractor conduct, at a minimum, annual inspections of your VAL-CO equipment and perform service where necessary, using only replacement parts sold and supplied by VAL-CO.

**Further Information:** Applications, engineering and detailed guidance on systems design, installation and product performance is available through VAL-CO representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

These products are not for residential use.

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