

PROVIDES TURN DOWN CONTROL



SIMPLE INSTALLATION

This unique turn down system can be easily retro-fitted into any existing Endothermic generator. All necessary components are installed and pre-wired inside an electrical cabinet. The installation is so simple that no engineering visit is necessary. Your own maintenance people can do it.

REDUCE ENERGY USAGE

- Save Gas used for Endothermic Gas
- Save Gas used for heating the Generator
- Totally eliminate wasteful endo burn off
- Save Electrical Energy used for the compressor

SIMPLE OPERATION

The system automatically controls, with a pressure controller and a VFD.

EXTEND EQUIPMENT LIFE

- Increase catalyst and retort life
- Extend compressor vane life
- Reduce bearing temperature

PRESSURE READOUT

The control instrument simultaneously displays actual pressure and set-point pressure.

PROVEN DESIGN

Field tested design compatible with many different makes and designs of endothermic generators.



SPECIFIC DESIGN

The Compressor Pressure Controller is specifically designed to control the compressor outlet pressure, which is proportional to the flow rate. In an Endothermic generator installation, a pressure controller maintains constant "header pressure" as furnaces are taken off or put back on-line. If, more or less endo gas is needed the controller makes an appropriate adjustment to the speed of the compressor.



COMPLETE SYSTEM CONSISTS OF:

- Pressure Controller
- Variable Frequency Drive
- Drive Reactor
- Circuit Breaker
- Disconnect Switch
- Pressure Transducer
- Cooling Fan

CALCULATE YOUR COST SAVINGS

1 Therm = 100,000 BTU = 100 Cubic Feet of NG = \$0.75 per Therm
 See back page of Wisconsin Energy Natural Gas (NG) price history

| | ENDOTHERMIC GAS CFH | NG NEEDED CFH | NG GAS \$/CF | NG COST |
|--|---------------------|---------------|--------------|----------------------------|
| Cost of Endothermic Gas (Ratio 2.5) | 5000 | 1066 | \$0.0075 | \$8.01 per hour |
| Cost of Producing Endo (Heating) | 5000 | 3750 | \$0.0075 | \$28.16 per hour |
| Total Cost for 5000 cfh of Endothermic Gas | | | | \$36.17 per Operating Hour |

Monthly Cost: (\$36.17 hr/5000 cfh) * 5 days * 52 weeks * 24 hours / 12 months

\$3.76 monthly/cfh

How to Calculate the Cost of Burnt Off Gas:

If 4 furnaces are using 4840 cfh (1,210 per furnace) and 5000 cfh is being generated ((1066 cfh NG + 2665 cfh Air) * 1.34 = 5000 cfh Endo) then (5000-4840) 160 cfh is being burned off or \$601.60 is literally goes up the stack each month (160 cfh* \$3.76 monthly/cfh).

| USA | CANADA | CHINA | FRANCE | GERMANY | POLAND |
|---|---|---------------------------------------|---|--|--|
| +1 414 462 8200 sales.na@group-upc.com | +1 514 335 7191 sales.ca@group-upc.com | +86 21 3463 0376 sales@mmichina.cn | +33 3 81 48 37 37 sales.fr@group-upc.com | +49 7161 94888 0 sales.de@group-upc.com | +48 32 296 66 00 sales.pl@group-upc.com |