



Gas stabilisation system

Creates a constant furnace atmosphere by stabilisation of the Wobbe Index of fuel gas by using compressed air

An open fire furnace requires a constant Wobbe Index in order to produce a constant furnace atmosphere. Fluctuations in composition of the fuel gas require a system for the stabilisation of the Wobbe Index.

$$\text{Wobbe Index} = \frac{HV}{\sqrt{SG}}$$

Features:

- Rugged and compact design
- Fast response
- Insensitive to ambient temperature fluctuations
- Controlled injection of air, LPG, nitrogen or natural gas
- Deals with rapid changes of Wobbe Index
- Turndown ratio stabilised gas flow 1:50!
- Integrated Wobbe analyser measures blended gas quality

User benefits:

- Eliminates the need for individual burner control
- Provides a stable oven atmosphere
- Improved product quality; prevents off-spec production
- Low cost of ownership





Specifications

Ranges : 0-3000 Nm³/hr (consult factory for other ranges)
 Piping material : Painted steel

Utility requirements

Power supply : 120/230VAC 50/60Hz
 Power consumption : 400 VA max.
 Injection air : Compressed air
 Pressure: 3 - 8 barg
 Dewpoint: 5°C
 Oil and dust free
 Sample flow to analyser : 1 NL/min
 Pressure > 1.5 barg

Installation requirements

Location : In-line with fuel gas pipe
 Mounting : Free standing SS 304 frame
 Dimensions : Approx. 2000 x 1850 x 1250 (H x W x D)
 Weight : ±350Kg
 Ambient temperature : 10-40°C as a standard

Options

High temperature version : Up to 60°C ambient temperature
 Hazardous area version : Zone 1 IIC T3 (only in combination with WIM 9900 analyser)
 Zone 2 IIC T3
 Low pressure version : Sample pressure < 1.5 barg
Alternative injection gas : Propane, LPG, natural gas, nitrogen

