

# The HF Series



The **MaxiFlow HF Series** is from the industrial line of Nitrogen generators from **In House Gas Manufacturing (Ltd)**. Providing Nitrogen at a range of purities from 95% up to 99.99% depending on the application required. These robust and highly reliable systems can generate up to a million litres of Nitrogen an hour. The HF range can be supplied as a complete package with compressed air and all ancillary products, and have proven to be both reliable and cost effective.

The **HF Series** is fully supported by our Service Department and can be covered by one of our Support Contracts. Extended warranties are also available.

Please contact In House Gas for further information.

## Features & Benefits:

- \* Very reliable and cost effective
- \* No administration costs
- \* 100% uptime with constant flow of nitrogen
- \* No health and safety issues
- \* No late deliveries to worry about
- \* Two year warranty

## Available systems:

Model	HF10	HF20	HF30	HF40
Flow	10Nm <sup>3</sup> /hr	20Nm <sup>3</sup> /hr	30Nm <sup>3</sup> /hr	40Nm <sup>3</sup> /hr
Purity	Up to 99.99%			
Outlet Pressure	7Barg			
Dewpoint	Below -40°C			
Input pressure (bar/psig)	10/147			

We reserve the right to change and modify any product specifications or design. Error and omissions accepted

In House Gas (manufacturing) Ltd, Baptiston House, Killlearn, Scotland G63 9LE

Tel: +44 (0) 1360 551600 Fax: +44 (0) 1360 551555 info@inhousegas.com

[www.inhousegas.com](http://www.inhousegas.com)

## MaxiFlow HF Process Description



### **Model Specification 99.99 %**

Ambient air is compressed in a separate lubricated, air-cooled compressor. This compressed air (10 bar g) enters a refrigerated dryer and filters for removal of water and oil, then flows through the carbon molecular sieve inside the absorber beds where Oxygen is adsorbed and Nitrogen leaves the adsorbed bed. During adsorption in one bed, the second bed is regenerated by depressurization to ambient pressure. The adsorption / desorption cycle is controlled by a fixed sequence of a PLC-controller. Nitrogen flow and purity is preset during test operation prior to shipment of the system.

### Air Supply

Air demand	: dependent on the size of the generator
Air pressure, bar g	: 10 (recommended)
Oil content	: 0.003 mg/m <sup>3</sup> , max
Dew point	: +3oC or lower

### Scope of Supply

- \* Two PSA towers
- \* Switching Valves
- \* Fully automated PLC control
- \* Pressure indicators
- \* N2 buffer tank, free standing
- \* Pressure switch
- \* Flow meter
- \* Silencer
- \* Oxygen Analyzer (optional)

### Utilities

Electric power, instruments: 0.3kW (220V / 1 pH / 50 Hz)

### Weight and Size, estimate

#### **Skid Mounted:**

Weight, kg	: 1500
Size (LxWxH), mm	: 1,400 x 1,400 x 2,000

### Other

Area Classification	: non hazardous
Installation	: indoor

In House Gas offer a number of flexible purchase, lease and rental options.

Contact your local representative for details.

We reserve the right to change and modify any product specifications or design. Error and omissions accepted

In House Gas (manufacturing) Ltd, Baptiston House, Killearn, Scotland G63 9LE

Tel: +44 (0) 1360 551600 Fax: +44 (0) 1360 551555 info@inhousegas.com

[www.inhousegas.com](http://www.inhousegas.com)