

# Clean Air Dryers Series



## VSA Series up to 250 L/min

The Clean Dry Air VSA range from In House Gas offers dry air delivery from 57 l/min to 250 l/min at a dewpoint up to -70°C.

The VSA range comes with 3 stage filtration and pressure regulator

Feed air can be oil lubricated or oil-free (recommended). Additional filtration will be required for oil lubricated feed air.

### Features & Benefits:

- \* Solid State Timer with built in memory for accurate switching control
- \* Easy replacement of spent desiccant towers
- \* Easily serviced components all field replaceable
- \* Direct acting solenoid valves for positive and reliable flow control
- \* Lightweight design
- \* 3 Stage Filtration
- \* Outlet dewpoint depends on saturation of feed air

### Technical Specification:

Model	VSA1	VSA2	VSA3	VSA4
<b>Flow Capacities at 100 PSIG input pressure (l/min)</b>				
Inlet Flow	79	164	227	340
Purge Flow	23	48	71	91
Outlet Flow	56	116	156	250
<b>Flow Capacities at 50 PSIG input pressure (l/min)</b>				
Inlet Flow	48	98	144	193
Purge Flow	20	40	59	79
Outlet Flow	28	56	85	113
<b>Connections (NPT)</b>				
Inlet	¼"			
Outlet	¼"			
<b>Dimensions(cm)</b>	26x20x12	33x20x12	41x20x12	61x20x12
<b>Weight (kg)</b>	3.2	3.6	4	6.4

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

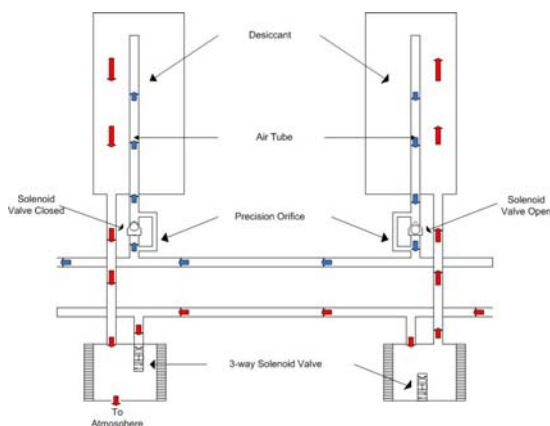
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## How does the Clean Dry Air generator work?



Incoming wet air enters the dryer through the 4-Way solenoid valve, where it is directed to the bottom of the tower containing dry desiccant. The desiccant removes >99.7% of the water vapour from the air when operated at catalogue conditions. The dried air leaving the top of the tower is directed to the outlet through a shuttle valve. The purge orifice allows a portion of the dried air to flow into the other tower which is being regenerated. The open purge port and purge orifice reduce the high pressure air down, close to atmospheric pressure which expands it and lowers the dewpoint of the dried air even further. This purge air regenerates the desiccant by removing the accumulated water vapour and carrying it out the open purge port.



### Applications:

Air Bearings

Electronic Chip Testing

Environmental Testing

Gas Chromatographs

CEMS Systems

Dry Sprinkler Systems

Outdoor AV Lines

FTIR Spectrometers

Graphic Printers

Laboratory Analysers

NMR Spectroscopy

Air Operated Pumps

Ozone Generators

Robotic Machinery

## FAQ's

### What is included with the dryer?

We include a two year warranty and no-quibble guarantee.

### Do you have any references?

Yes. We would be delighted to offer a number of references.

### Do you rent or lease your systems?

Yes, please contact us for details.

### What are the Maintenance Costs?

Filter cartridges need to be replaced based on a maintenance schedule. The maintenance is a simple procedure which can be carried out on the field. But for extra peace of mind we do offer Spares Kits that obtain all standard parts

Please Contact us for more Details.

### Can I change the flow of the system?

NO!! This will make your warranty void. Do not open up the generator without calling In House Gas.

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