## **Pressure Swing Dryers**

Pressure Swing dryers provide a source of very dry compressed air for use as a zero gas in humidity calibration systems, or for general laboratory applications.

### PSD2 & PSD4

#### **Pressure Swing Dryers**





The Michell PSD Series Pressure Swing Dryers use two columns fi lled with 4Å molecular sieve desiccant, which are used alternately on a two-minute switching cycle. The PSD dryers are designed to operate continuously, using a small proportion of the dried air, to regenerate the offl ine column - generally giving desiccant life in excess of fi ve years. This type of heatless regeneration also uses signifi cantly less energy than a 'heated' type of dryer.

The PSD2 is fi tted with inlet and outlet pressure regulation, and delivers up to 7 Nl/min (14.8 scfh) of dry air at 1ppm

V or better (-75°Cdp (-103°Fdp)).

The PSD4 is supplied with stainless steel internals and larger volume desiccant columns. These factors, combined with a larger pressure drop between inlet and outlet, deliver up to 10 Nl/min (21.2 scfh) at 13 ppb

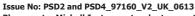
V or better (-100°Cdp (-148°Fdp)).

#### **Highlights**

- · Excellent long term stability
- Maintenance free except for a desiccant change once every 5 years
- Completely self-contained
- Low power consumption

#### **Technical Specifi cations**

Model PSD2		PSD4
		F3D4
Gas output Flow7 NI/min (14.8 s Pressure Noisture content < (<-103° Fdp))	).68 barg (10 psig)	30 Nl/min (63.6 scfh) Atmospheric <13ppb (<-140°Cdp (<-148°Fdp))
	scfh) <b>e</b> 5 to 7 barg (70 to 100 psig) Dil and liquid water-free)	20 NI/min (42.2 scfh) 6 to 7 barg (80 to 100 psig) and ≤-40°Cdp (≤-40°Fdp)
Suitable for use DG with	2, DG4, HG10	(Oil and liquid water-free) VDS3
Type Twin column de pressure swing  Desiccant4 Ångströr bead (4-8 mesh)  TimerMotorized cam	Twin column desiccant, n Mଟେମେନ ହାଡିଡି 4 Ångström Molecular sieve	
Gas connectionsInle	Motorized cam et - Swagelok® AISI ¼" Inlet - Swagelok® stainless	
tube bulkhead Filters None	Qutlet 7,5 Wase 96 (R) 4551 1/4" Outlet - Swagelok® stainless steel 1/4" tube bulkhead Outlet - Millipore Wafergard	
	with Tefl on PTFE membrane element rated at >99.999% retention of 0.003 micron particles Vent – Headline nylon housing with epoxy ester bonded borosilicate glass microfi ber element rated at 99.999% removal of 0.1 micron particles 100 to 115 or 220 to 240 V 10	
Power	AC, 50/60HzAC, 50/60Hz IEC (3 pin female c13) input I socketfor ø4-8mm cable	Plastic cable gland - suitable
Cable entry	+5 to +35°C (+41 to +10 to +95°F) +104°F)	+40°C (+50 to
Operating temperature	-40 to +35°C (-40 to -40 to + +95°F)	50°C (-40 to +122°F)
Storage temperature Construction	Rack mount, 19" x 6U x GRP 324mm (12.8")735 x 535 x 27 (29 x 21 x 10.5")	
	12.5kg (27.5lbs)25kg (55lbs)	
Weight		

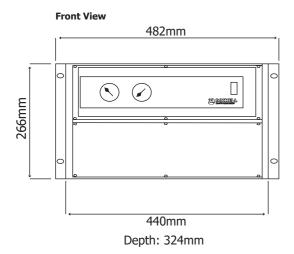


Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version.

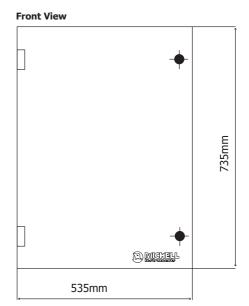


# **Pressure Swing Dryers**

#### **Dimensions - PSD2**



#### **Dimensions - PSD4**



Depth: 270mm