



Information Sheet

ePAT 641 Fluid Bed Drier

641-ML-17-0103-B

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FEATURES

- **Wireless Communication**
- **Non-contact sampling**
- **VAC or VDC operated**
- **Rugged IP65, cGMP enclosure**
- **Zone 1, Class I Division 1**
- **Real time results**

BENEFITS

- **Improve quality and yield**
- **Improve downstream processing**
- **Improve process understanding**
- **Eliminate sample thieving**

The **ePAT 641** Fluid Bed Drier is a real time, continuous PAT analyzer developed specifically for the pharmaceutical industry. The system accurately monitors and allows for optimization of the drying rate by predicting moisture loss to a consistent endpoint.

The instrument is capable of measuring samples through a site glass window located on the bowl of the fluid bed drier.

The system contains a MEMS-based NIR spectrometer with integrated wavelength and amplitude reference module.

The **ePAT 641** Fluid Bed Drier also comprises an on-board computer and a remote measuring head. The system communicates with a remote base station computer, so that measurements can be viewed and recorded in real time.

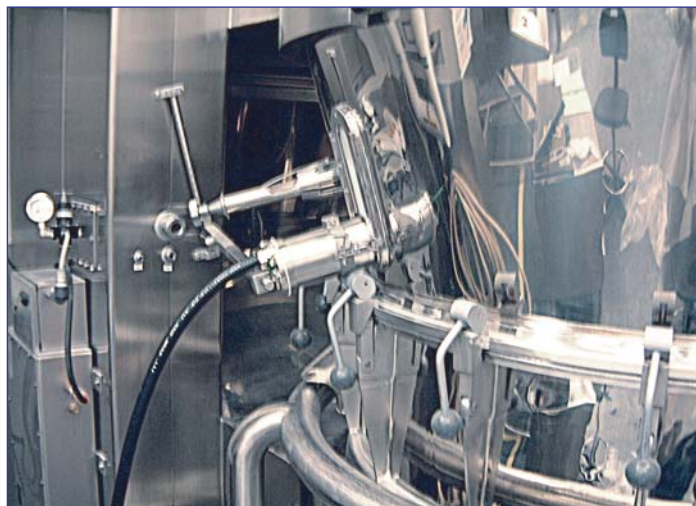
The measuring head is configured for convenient, non-contact analysis with a nominal 20mm measurement area and a standard focal distance of 40mm.

The **ePAT 641** can be directly installed onto existing fluid bed dryer equipment with minimal modification. It is easy to calibrate, install, and operate. Complete turn-over documentation is offered to assist with your validation.

Specification

ePAT 641 Fluid Bed Drier

Spectral Range	1350 - 1550nm and 1800 - 1970nm
Resolution	2nm
Wavelength Accuracy	< 0.1nm
Wavelength Reproducibility	< 0.1 Standard Deviations
Base Line Drift	< 0.3% RAU/hr
Light Source	Tunable laser
Noise - RMS	< 0.04mAU
Data Acquisition Time	400ms
Power	Nominal 110/240VAC or optional 12VDC
Sampling Interface	Non-contact
Sampling Area	20mm spot size
Working Distance	40mm
Enclosure	Wall mounted, cGMP, IP65 and NEMA 4X Zone 1, Class I Division 1
Weight (Enclosure)	11kgs
Weight (Measuring Head)	3.5kgs
Size (Enclosure)	360h x 580w x 150d (mm)
Size (Measuring Head)	150h x 125w x 130d (mm)
Communication	Wireless 802.11b/g with WPA security and an optional direct Ethernet connection
Computer	Embedded, ruggedized, removable flash memory



Expo Technologies Ltd

Summer Road, Thames Ditton,
Surrey, KT7 0RH, UK
T +44 (0) 20 8398 8011
F +44 (0) 20 8398 8014
E pharma@expoworldwide.com

www.expoworldwide.com

Expo Technologies LLC

6460 Dobbin Road, Building E
Columbia, MD 21045, USA
T +1 410 772 9850
F +1 410 772 9859
E pharma@expoworldwide.com