



Lab-Vac: Fully integrated and automated “glass” lab scale Agitated Vacuum Dryer

For early-stage vacuum drying kinetic studies of API / NCE, scale-up and process validation

Key Features:

1. Miniaturisation: 25 -800 g API / NCE
2. Accuracy: calibrated critical process parameters
3. Visibility: glass process vessel (optional stainless st., Hastelly C22)
4. Automation: PC intergrated with automatic batch reporting in Excel
5. Containment: flexible or fixed isolator integration
6. GMP/GAMP: full qualification available
7. P.A.T.: NIR-, RAMAN-, MASS SPECTROMETRY integration



Specifications:

- Variable speed impeller
- Flanged stainless steel cover
- Glass flanged process vessels : 250 / 500 / 900 / 1900 / 5000 ml and 2000 ml Conical vessel
- Process temperatures between –10 till 95 DegC
- Controlled Nitrogen purge for “gas assisted” drying and inertisation
- Vacuum system, dust filter, glass condenser, bypass, vacuum pump, process pressure control
- RH control in the process vessel
- The system be incorporated in a hood
- Critical process parameters: impeller torque, product temperature, impeller speed, process pressure, mass recovered liquid, RH in process vessel, proces vapour/vessel/condensor/filter jacket temperature
- PC.PLC automation package: **“real time”-trending and batch reporting in Excel of all critical process data and batch identification**
- Many options available: 6-10 bar steel process vessel, trolley, cooling & heating unit, MIR-NIR-RAMAN integration, Hastelloy HC22 contact parts, Validation IQ/OQ/SQ, **high containment solutions**



Lab-Vac

Agitated Vacuum Drying



DK™
Drying Kinetics

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