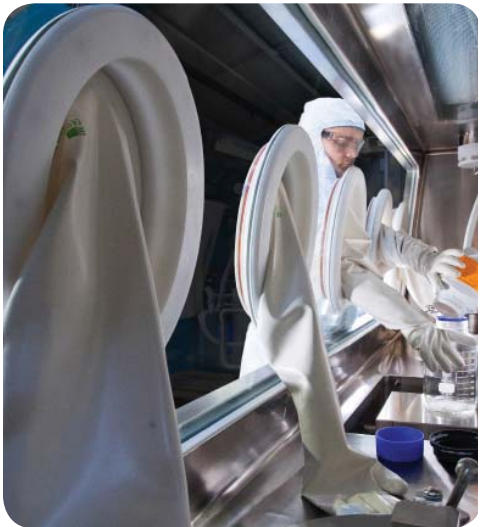


Howorth Air Technology Compounding and Dispensing Isolator System

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- ✓ Isolator, vessels, CIP (Clean In Place) skid & valves in 316L stainless steel
 - ✓ Negative pressure Isolator running at -100Pa (0.4"Wg) differential pressure relative to room
 - ✓ OEL \leq 100 Nanograms/cubic meter (8 hour TWA)
 - ✓ Safe-change inlet cartridge Hepa & Push-Push Hepa filter system
 - ✓ Isolator ventilation system includes Nitrogen Purge function for controlling relative humidity to \leq 30% RH
 - ✓ Fully integrated Isolator CIP system with rotating spray balls & wash gun
 - ✓ Operating atmosphere of EU Grade C/Class 100,000 in operation
 - ✓ Coarse & analytical scale balances connected via Ethernet to SCADA system for batch records
 - ✓ Magnetic stirrer for mixing drug solution
 - ✓ Siemens 21" Human Machine Interface (HMI) with touch keyboard
 - ✓ Siemens PCS7 SCADA package for monitoring, recording & controlling the operation
 - ✓ GAMP5 & 21 CFR Part 11 for security, electronic records & signatures
 - ✓ Printing capability of electronic batch records via Ethernet to network printers
 - ✓ Fully integrated SIP (Steam in Place) system for sterilization of vessels only
 - ✓ 2 x 200ltr compounding & filtration ASME coded pressure vessels
 - ✓ Vessels include integrated magnetic stirrer & rotating spray balls
 - ✓ Charging & discharging of compounding & filtration vessels controlled via floor scales
 - ✓ Compounding vessel includes Ph Probe & meter linked to SCADA system



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