



U-Phos[®] HiFlo Unit

Tech Sheet

System Features:

The U-Phos[®] HiFlo System comprises of:

1. 2x U-Phos[®] phosphine gas cylinders (17kg of pure phosphine per cylinder)
2. U-Phos[®] HiFlo phosphine mixing and dispensing unit.
3. Carbon Dioxide (CO₂) (gas withdraw) with less than 50 ppm oxygen.

The system produces a non-flammable phosphine and air mixture which can be further diluted by an external fan.

The system can safely dispense phosphine at 100 grams/minute or 6 kilograms per hour in air at 1% (v/v) or 10,000 ppm.

Multiple interlocks that will shut the system down in adverse situations.

Easy to use touch screen allowing input of target phosphine weight to be dispensed.

Automatic change over allows cylinders to be completely emptied leaving no partial cylinders. Can operate off of one cylinder.

High purity phosphine providing superior fumigation performance.



Automatic pre and post system purges using carbon dioxide (CO₂).

Automatic high pressure leak test.

Integrated dual weighing platforms.

Torque wrenches provided for effective and safe operation without fear of damage to valves/connections.

Modem equipped to capture key numeric operations information.

In-line product filter to reduce PH₃ polymer buildup that could slow down operations.

Facts About HiFlo Unit

MAX Flow Capacity = 6kg/Hr PH₃ in Air.

Unit weight is approximately 507lbs (230kg).

Lifting and tie down lugs for safe moving of the unit.

Delivery Hose: 2.48 inches x 19.69 feet long with camlock coupling.

Self leak testing and self system purging.

Twin cylinder capacity with auto changeover so there are no partial cylinders.

Twin scales allow gas to be dispensed by weight.

Target weight entered through touch screen (user friendly interactions).

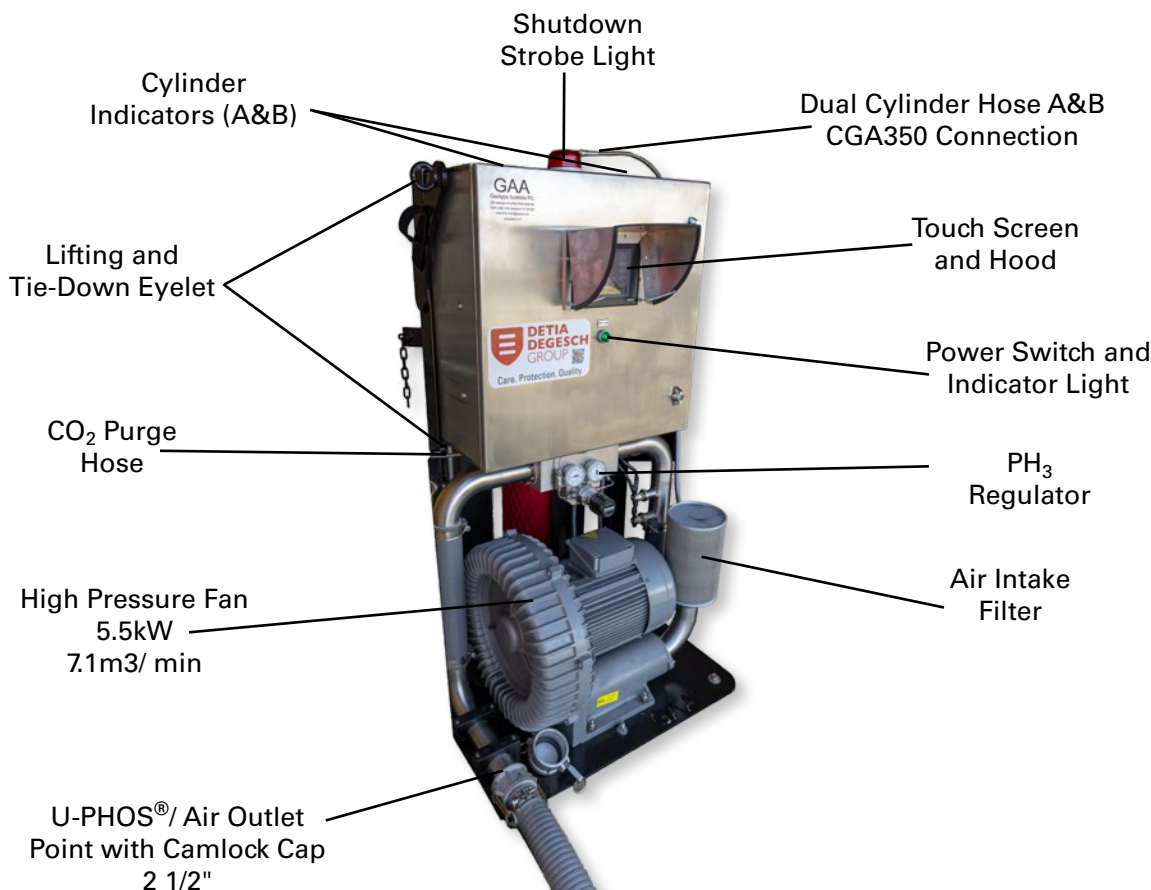
Purge Gas: Clean CO₂, used for purging and pneumatics and **NOT** for blending.

Power Requirements: 3 phase 16KVA generator (3 phase 20 amp, 480 volt).

Inbuilt VFD (Variable Frequency Drive) that reduces draw on startup of fan motor.

For use with cylinderized phosphine gas **ONLY**.

NOT DESIGNED for use with CO₂ cylinders with "dip" tubes. Liquid CO₂ can cause freezing and damage to the device.



Always read/refer to the manual for safe operations
Always read the label and SDS of fumigant before use.

153 Triangle Dr.
PO Box 116
Weyers Cave, VA 24486

Phone: 1-540-234-9281
www.degeschamerica.com
U-PHOS@degescamerica.com