

Automatic Gradation Unit (AGU)-40F

GENERAL

The Automatic Gradation Unit (AGU) is a particle size analyzer that conducts a complete sieve analysis automatically in the field and transmits the accumulated data to a computer, where the data is saved in an Excel spreadsheet for further manipulation and analysis. The AGU's sample capacity is 40lbs.

The AGU can accommodate up to 7 sieves (18" x 24"), which has ASTM approved screen wire. These sieves are clamped into individual rugged steel drawers. These drawers are interchangeable and are held in the AGU Vibrating cabinet by a secure binding system. The AGU has a canopy, which will serve as protection.

The AGU requires compressed air: 3SCFM at 690kpa(100psi minimum). Air compressor is not included. The unit is designed to 240 volt, 60hz, 40 amps, and 3-phase power supply.

Customer Requirements and Options:

- Have Boom Truck available to place AGU at desired location.
- A Reinforced Concrete Pad 6" thick that is 5' x 7' will need to be poured. Detail for pad, plates, etc. will be provided.
- Customer to Provide 480-Volt, three phase, 60hz power to AGU
- Customer to provide 120psi compressed air. (Dedicated Compressor for AGU is recommended). Plant air can also be used.
- Customer to provide Heavy Duty Chute from ABS to Aggregate Dryer and from Dryer to AGU. Customer may elect to install a "Y" partition with diverter to allow ABS material to accumulate at ground level.
- Customer to provide conveyor, wheelbarrow, etc. for offloading graded sample.

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The Dryer accepts a sample (40# max.) from the belt sampler. The Dryer is electrically heated and continuously weighs the sample during the drying process. The drying time is typically 30-40 minutes, depending upon the moisture content of the material. The control system monitors the drying process and generates reports proving moisture content information. The Dryer Operates on 240-Volt, Single Phase, 60hz power.

Deliverables:

- Aggregate Sample Dryer (Electrically Heated). Capable of accommodating up to a 40 lb. Sample. Accepts sample from belt sampler, continuously weighs sample during drying process. Provides moisture content of the sample.
- Canopy which will be mounted above Dryer

- Control system for activation of load cells, heating elements, and report generation
- O&M Manual

Customer Requirements:

- Have Boom Truck available to lift Drying Unit in place
- Provide 240-Volt Single Phase, 60hz, Single Phase power to Aggregate Drying System Location
- Customer to provide 120psi compressed air. (Dedicated Compressor for Dryer is recommended). Plant Air can also be used.
- Customer to Provide Heavy Duty Chute from Dryer to AGU.