

Port-A-Pour, Inc.
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Ref : Port-A-Pour batch plant, Specifications for Series-II

The following specifications outline the batch plant as equipped.

Three weighing bins integral to the plant, a 15 cu. yd. rock feeder, 15 cu. yd. Sand feeder, and a 55,000 pound capacity cement bin with air slide.

All bins are mounted on load cells and have electronic weight controllers for precise weighing.

The rock and sand belt feeder bins are driven with variable speed drives for proportional delivery to the blender. No pre-weighing of dry products required. The computer control systems deliver exactly what is required to meet the mix design and batch volume requirements.

Twin shaft blender has counter-rotating 18 inch augers equipped with replaceable wear shoes. Pre-blending of materials eliminates potential cement clumping and sand balling problems resulting in improved batch consistency and higher concrete strengths.

Dust filters: pulsed air cleaning system integrated with cement bin and blender.

High pressure air system: 10 hp, 55 cfm @ 125 psi provides high pressure air for cleaning the dust filters and pneumatic control of the cement butter-fly valve.

High volume, low pressure air slide blower: 140 cfm @ 2 psi for cement air slide activation.

Water pump: 3" inlet 2 ½ " discharge with 10 hp motor direct coupled to a centrifugal pump @ 230 gallons per min, with electronic flow metering.

Auxiliary water pump: 5 hp direct drive centrifugal pump for filling saddle tanks.

Chemical admixture system: Standard three positive displacement pumps with electronic metering for accurate delivery. Direct checking for accuracy of delivery and calibration. No other add-on systems required, just connect the inlet hoses to your chemical containers. Optional 4th system available.

Cement auger, 10 hp drive equipped with variable speed control for proportional delivery and uniform blending with aggregates. A pneumatic actuated butterfly valve controls the cement delivery to the auger. The auger clears itself of cement after each batch so that the auger starts on each batch cycle with no load.

Main delivery conveyor, 24" wide belt x 40 ft. long, 25 hp drive, adjustable height, configurable for direct drum charging or conventional loading over the drum cone. Equipped with a soft starter to the motor to increase belt life, drive components and minimize front-end power requirement.

Primary power requirements: 480 Volt, 3ph., 125 KW minimum service using generated or public power.
All motor starters, VFD's, soft starters and electronic controllers are protected with NEMA 12 enclosures. All motors are totally enclosed NEMA frame type.

A standard PC type desk top computer supplied and installed with a Port-A-Pour operating system provides for the batch plant control panel. An impact type printer is also provided to produce multiple part batch tickets.
A 4-conductor jacketed cable provides the communication link between the desk-top computer and the batch plant controllers.

All batch plant systems are supported by Port-A-Pour, Inc. and no 3rd party vender or outside support personal are involved with maintaining the performance of the plant.

Most of the components used on the plant are standard to the industry so you're assured of local availability of common replacement parts.

The batch plant frame is built with heavy wide flanged beam members. Heavy duty landing jacks located around the plant provide the support for setup on the job site. The plant is equipped with a tandem axle suspension with 11.00-24.5 low profile tires.

Physical dimensions: 79' overall length, 14'-2" high, 11'-6" wide and weighs 60,000 lbs with no materials loaded.