



Charlotte®

ASPHALT EMULSION PLANT



G-125 CHARLOTTE FULLY PROGRAMMABLE AUTOMATIC ASPHALT EMULSION PLANT

This System is mechanically and electronically complete. It is constructed of the highest quality materials and design. Components such as valves, strainers, flow meters, temperature sensors, and pressure sensors, are of highest quality construction. All components mentioned including pumps, are fully automated. All components can be monitored and controlled by VFDS, which allows for ease of programming for formulation and system control and monitoring.

The Asphalt flow meter is the most accurate type available.

**The whole system is PLC controlled.
AUTO START AND AUTO FINISH**

PRODUCTION OF 24 to 40 TONS PER HOUR OF VERY HIGH-QUALITY ASPHALT EMULSIONS AND RELATED PRODUCTS.

MAIN COMPONENTS INCLUDE:

MODEL G-125 CHARLOTTE COLLOID MILL

Cast semi-steel construction industrial head design, with type 316 stainless steel rotor and stator with "T-1" grooving and M/S shaft. Equipped with 4" N.P.T. inlet and 2" outlet. Furnished with special rotary mechanical shaft seal, P/N 252-7-RMSS-100 seal housing or packing gland with metallic packing. Complete with base, coupling (size 3 1/2" x 3 1/4" x 2 3/8") and coupling guard. Directly mounted and aligned to a 125 horsepower, 3,600 R.P.M., 3 phase, 60 cycle, 460 volt or 3,000 R.P.M., 3 phase 50 cycle 380 volt totally enclosed, fan cooled US Motor.

Frame 444TS

Design Pressure: 150 PSI Maximum Design Temperature: 400° F Maximum

Asphalt Phase Includes:

Asphalt phase pump: jacketed cast iron pump with jacketed relief valve. Pump has Viton mechanical seal. or packing Includes VFD motor, motor torque gear head, inline drive type, includes VFD control.

Asphalt mass flow meter all stainless steel (extremely accurate self calibrating mass flow meter

Asphalt meter digital display and extra length interface cable for asphalt mass flow meter.

Asphalt Pressure sensor, high temperature

Asphalt Temperature sensor.

Soap Phase Includes:

Soap phase pump: non jacketed relief valve pump has Viton mechanical seal includes VFD motor, motor torque gear head, inline drive type, includes VFD control.

Soap flow meter all stainless steel.

Soap meter digital display.

Soap Pressure sensor, high temperature.

Soap Temperature sensor.

Soap strainer.

Soap stainless steel three-way recirculating looping electronic motorized valve.

All above components are wired to and controlled by the P.L.C.

The P.L.C. has dual readout for both metric and standard displays
The P.L.C. has a formula screen where formulas or recipes can be entered saved and used when needed.

Optional Equipment:

Latex injection system (3%):includes pump, VFD control, flow meter, check valve, stainless steel.

Additional additive injection system can be solvent or fuel oil (3%):includes pump,VFD control meter, check valve.

All above components are wired to and controlled by the P.L.C.

All of the above can be installed in a shipping container. Shipping container can be modified to your specifications

Price available upon request.

Field start up and training is available.
Also training available at Long Island NY Facility.

Mills are available in the size necessary to do the job quickly and efficiently. From small pilot plant models to large production units handling over 10,000 gallons per hour, Charlotte can satisfy all of your Colloid Mill requirements. All model capacities are conservatively estimated from minimum to maximum.

ASPHALT EMULSION PRODUCTION

Model G-1256,000-10,000 gph
Model G-100.....4,000-6,000 gph
Model G-752,000-4,000 gph
Model G-501,000-2000 gph
Model G-51/2–3 gpm

For: Quality Road Paving Grade Water Emulsified Asphalt

Both industrial emulsions and road paving grades are produced on our equipment. The rapid shift to modified emulsions has required many producers to look to the CHARLOTTE COLLOID MILL because of its ability to handle high viscosity emulsions while supplying a consistently high quality product.

All CHARLOTTE COLLOID MILLS are designed to process temperatures up to 400°F at through put pressures up to 150 PSI. All mills have externally adjustable rotor and stator gap clearances. These clearances can be set anywhere from .005” to .070”. Settings are achieved in increments of .001”. For processing versatility, CHARLOTTEs are fully jacketed to permit product heating via low pressure steam or oil during operation. Our equipment can offer you production capacities that range from one to ten-thousand gallons per hour equal to up to forty tons per hour.

If you require corrosion resistant processing, we can also offer you a CHARLOTTE with the rotor and stator fabricated from 316 stainless steel or the entire product processing area fabricated totally from 316 stainless steel. This option is incorporated in our proposal. All mills are offered either to include or exclude motor for domestic or international use.

The whole system is PLC controlled. AUTO START AND AUTO FINISH

SUPERIOR AFTER PURCHASE SUPPORT

To help you maintain your Charlotte Colloid Asphalt Emulsion Mill in top operating condition, we offer a complete line of spare and replacements parts, also complete guaranteed mill rebuilding for all of our models. And to insure proper installation and maintenance, we provide our Technical Assistance Hotline for all your support needs.

We buy back mills. Lease option available.

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