

The **NORCHEM AnCAT Model 054GS-300** automatic liquid polymer system is designed to process up to 12.5 GPH of a neat liquid polymer and deliver 0.5 to 4.0 GPM (30 to 240 GPH) of a nominal 0.1 to 2.0% aqueous polymer solution. The 054GS-300 system is modular in design consisting of a liquid polymer injection module and booster module assembly.

AnCAT MODEL 054GS-300 LIQUID POLYMER SYSTEM SPECIFICATIONS

| FRAME: | BASE: CONSTRUCTION: | 24" W x 24" L x 26" H 304SS BASE |
|-------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INJECTION MODULE: | PUMP: DRIVE: MOTOR: CAPACITY: | ROTARY-GEAR-TYPE, 316 STAINLESS STEEL POSITIVE TORQUE TRANSMISSION, 4:1 GEAR REDUCTION ¼ HP, 1725 RPM, TENV, CONTINUOUS DUTY NEAT POLYMER FLOWRATE: 2.0 TO 12.5 GPH (48 TO 300 GPD) |
| BOOSTER MODULE: | PUMP: DRIVE: MOTOR: DISCHARGE: | CENTRIFUGAL-TYPE, CAST IRON, MODIFIED FOR POLYMERS CLOSE-COUPLED .75 HP, 3450 RPM, CONTINUOUS DUTY, ODP 10 – 60 PSI 0.5 – 4.0 GPM |
| SOLUTION OUTPUT: | PRIMARY FLOW: SECONDARY FLOW: TOTAL FLOW: | 0.5 – 4.0 GPM (240 GPH) NONE 0.5 – 4.0 GPM (240 GPH) |
| CONCENTRATION: | SOLUTION: | PRIMARY 0.2 – 2.0% VOLUME ON VOLUME TOTAL 0.2 – 2.0% VOLUME ON VOLUME |
| UTILITIES: | ELECTRICAL: WATER: | 120/1/60 20 AMPS 40 – 100 PSI 25 GPM CLEAN SOURCE |
| CONTROLS: | CONTROLLER: | (OPTIONAL) NEMA 4X W/ TOUCHPAD, POLYMER RATIO, REMOTE START/STOP, POLYMER PUMP READOUT, WATER RATIO, PRIMARY AND SECONDARY FLOW READOUTS, REMOTE SETPOINT AND DOSING CONTROL, AUTO CALIBRATION AND ALARMS |
| | LOW WATER: | (OPTIONAL) FLOW SENSOR WITH AUTO RESTART OR MANUAL RESET |
| | LOW POLYMER: | (OPTIONAL) OPTICAL SENSORS WITH ADJUSTABLE RANGE 0.15 – 2.0% CONCENTRATION |

ENGINEERING SPECIFICATIONS:

AnCAT Model 054GS-300 shall be provided to rapidly dilute, activate and feed emulsion, dispersion and solution polymers at 240 GPH of polymer solution at concentrations to 2%. The system shall contain a four step controlled energy hydraulic circuit which instantaneously dilutes and blends the polymer to it's most efficient state for use in the process. The unit shall be designed with full pressure-controlled, inline inversion capability and shall not be limited by a minimum retention time restriction. The polymer system shall be capable of providing a 15 – 20 PSI pressure boost and shall not rely on available inlet water pressure to discharge the polymer solution product. The system shall be modular in design and shall consist of a polymer injection module, booster module, premix manifold assembly, inlet water solenoid valve, primary and secondary inlet water flowmeter, primary and secondary inlet water flow controllers, proportioning pressure regulator to balance primary and secondary flow circuits, mixing pressure regulator adjustable from 10 to 70 PSI, mixing circuit pressure gauge and inlet water throttling valve.



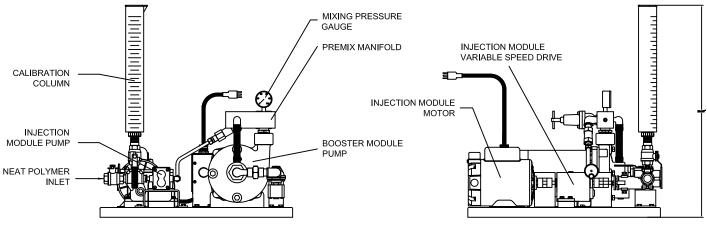
INC.

PLAN & ELEVATION

AnCAT 05GS-SERIES

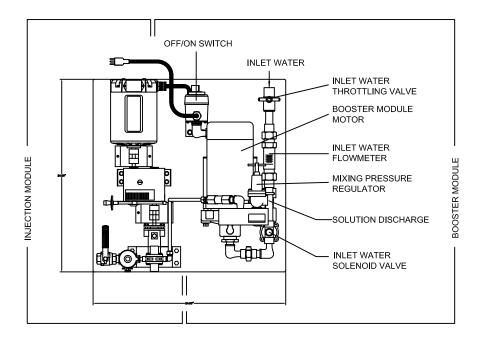
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(TYPICAL TO ALL 054GS AND 058GS SYSTEMS)



FRONT VIEW

LEFT END VIEW



PLAN VIEW

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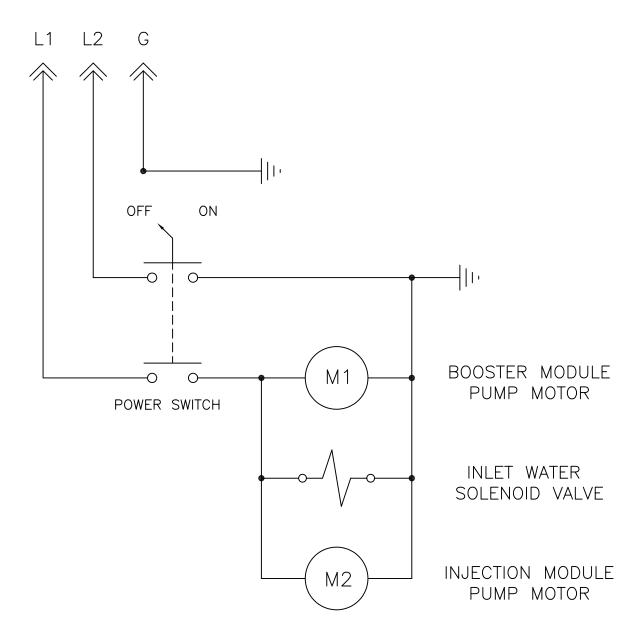
ELECTRICAL SCHEMATIC

AnCAT 05GS-SERIES

05GS_ELE

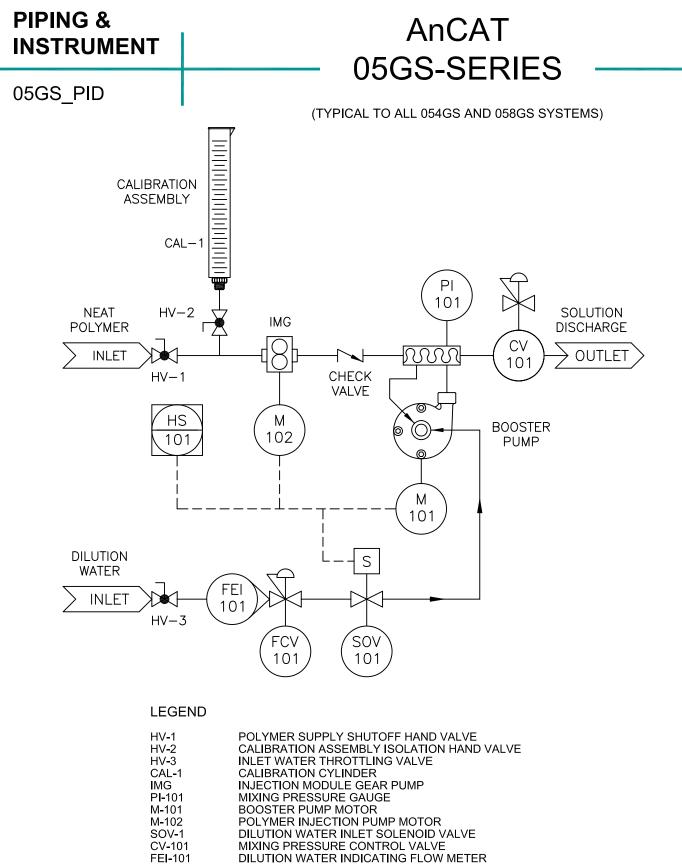
(TYPICAL TO ALL 054GS AND 058GS SYSTEMS)

INCOMING POWER 115 VAC/1 PH/60 HZ



NORCHEM INC.

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FEI-101DILUTION WATER INDICATING FLOW METERFCV-101DILUTION WATER FLOW CONTROL REGULATORHS-101OFF/ON SWITCH

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