

The **NORCHEM AnCAT Model 058PC-288** automatic liquid polymer system is designed to process up to 12.0 GPH of a neat liquid polymer and deliver 1.0 to 8.0 GPM (60 to 480 GPH) of a nominal 0.1 to 2.0% aqueous polymer solution. The 058PC-288 system is modular in design consisting of a liquid polymer injection module and booster module assembly.

## AnCAT MODEL 058PC-288 LIQUID POLYMER SYSTEM SPECIFICATIONS

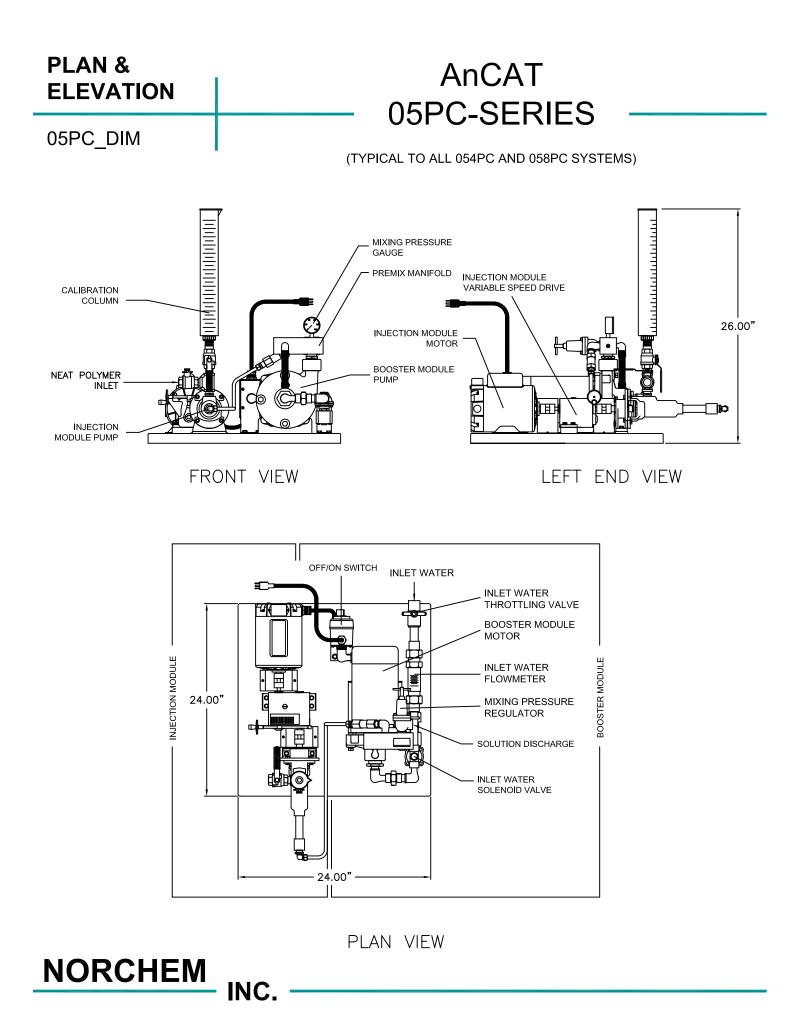
FRAME:	BASE: CONSTRUCTION:	24" W x 24" L x 26" H 304SS BASE
INJECTION MODULE:	PUMP: DRIVE: MOTOR: CAPACITY:	PROGRESSIVE-CAVITY-TYPE, 316 SS ROTOR, VITON STATOR POSITIVE TORQUE TRANSMISSION, 4:1 GEAR REDUCTION ¼ HP, 1725 RPM, TENV, CONTINUOUS DUTY NEAT POLYMER FLOWRATE: 2.0 TO 12.0 GPH (48 TO 288 GPD)
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 1.0 – 8.0 GPM
SOLUTION OUTPUT:	PRIMARY FLOW: SECONDARY FLOW: TOTAL FLOW:	3.0 – 8.0 GPM (480 GPH) NONE 3.0 – 8.0 GPM (480 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 058PC-288** shall be provided to rapidly dilute, activate and feed emulsion, dispersion and solution polymers at 480 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.



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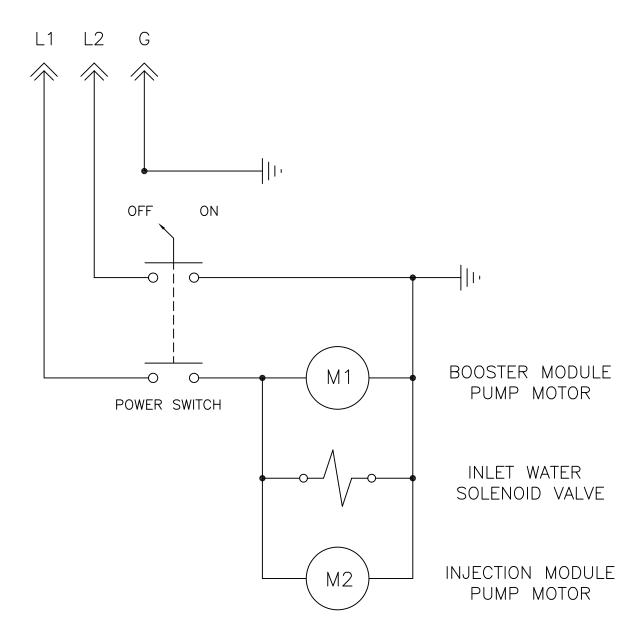
## ELECTRICAL SCHEMATIC

AnCAT 05PC-SERIES

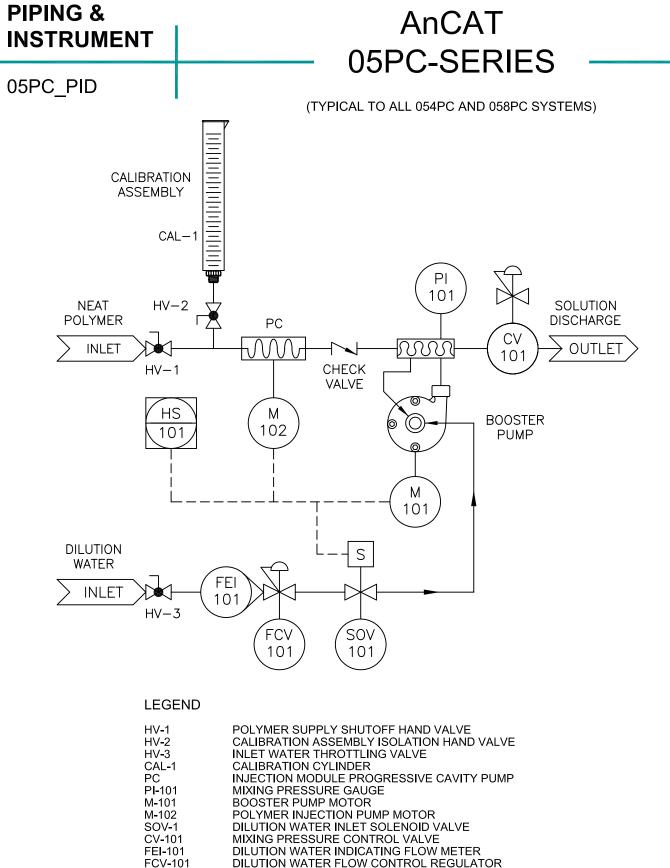
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(TYPICAL TO ALL 054PC AND 058PC SYSTEMS)

INCOMING POWER 115 VAC/1 PH/60 HZ



NORCHEM INC.



DILUTION WATER FLOW CONTROL REGULATOR HS-101 **OFF/ON SWITCH** 

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