

The **NORCHEM AnCAT Model 058D-48SD** automatic liquid polymer system is designed to process up to 2.0 GPH of a neat liquid polymer and deliver 1.0 to 16.0 GPM (60 to 960 GPH) of a nominal 0.1 to 2.0% aqueous polymer solution. The 058D-48SD system is modular in design consisting of a liquid polymer injection module and booster module assembly.

AnCAT MODEL 058D-48SD LIQUID POLYMER SYSTEM SPECIFICATIONS

FRAME:	BASE: CONSTRUCTION:	24" W x 24" L x 24" H 304SS BASE
INJECTION MODULE:	PUMP: DRIVE: CAPACITY:	DIAPHRAGM-TYPE, HIGH VISCOSITY ENCAPSULATED SOLENOID PULSE DRIVE NEAT POLYMER FLOWRATE 0 – 2.0 GPH (48 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 – 16.0 GPM
SOLUTION OUTPUT:	PRIMARY FLOW: SECONDARY FLOW: TOTAL FLOW:	3.0 – 8.0 GPM (480 GPH) 0.0 – 8.0 GPM (480 GPH) 3.0 – 16.0 GPM (960 GPH)
CONCENTRATION:	SOLUTION:	PRIMARY 0.2 – 2.0% VOLUME ON VOLUME TOTAL 0.1 – 1.0% 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) PISTON FLOW SENSOR WITH AUTO RESTART OR MANUAL RESET
	LOW POLYMER:	(OPTIONAL) OPTICAL SENSORS WITH ADJUSTABLE RANGE 0.15 – 2.0% CONCENTRATION

ENGINEERING SPECIFICATIONS:

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AnCAT Model 058D-48SD shall be provided to rapidly dilute, activate and feed emulsion, dispersion and solution polymers at 960 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.



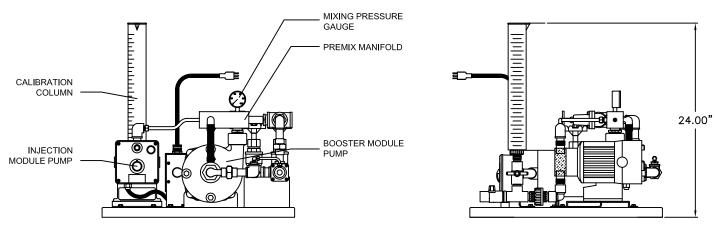
8910 W. 192nd STREET SUITE O MOKENA. ILLINOIS 60448 708.478.4777 08.02

PLAN & ELEVATION

AnCAT 05DSD-SERIES

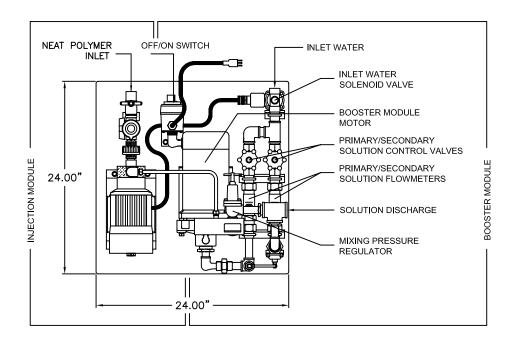
05DSD_DIM

(TYPICAL FOR ALL 054DSD AND 058SDS SYSTEMS)



FRONT VIEW

LEFT END VIEW



PLAN VIEW

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ELECTRICAL SCHEMATIC

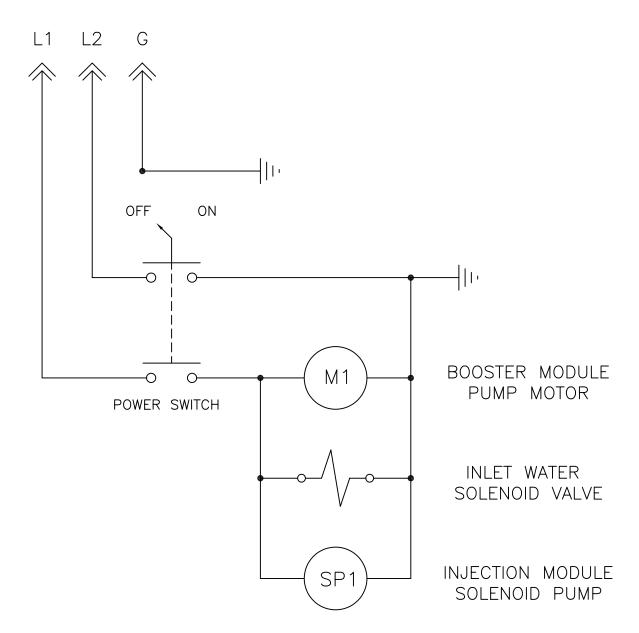
NORCHEM

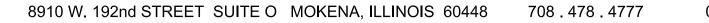
AnCAT 05DSD-SERIES

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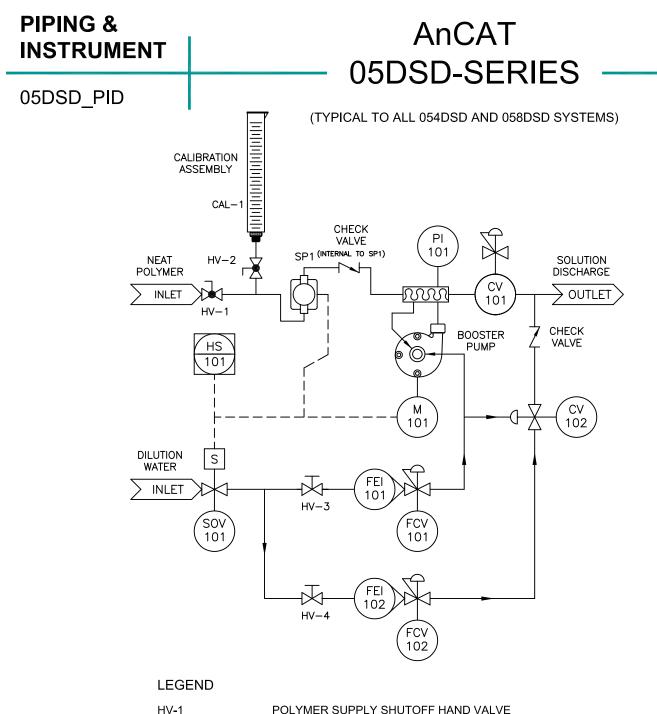
(TYPICAL TO ALL 054DSD AND 058DSD SYSTEMS)

INCOMING POWER 115 VAC/1 PH/60 HZ





INC.



HV-1	POLYMER SUPPLY SHUTOFF HAND VALVE
HV-2	CALIBRATION ASSEMBLY ISOLATION HAND VALVE
HV-3	PRIMARY DILUTION WATER THROTTLING VALVE
HV-4	SECONDARY DILUTION WATER THROTTLING VALVE
CAL-1	CALIBRATION CYLINDER
SP1	INJECTION MODULE SOLENOID PUMP w/INTERNAL CEHCK VALVE
P I- 101	MIXING PRESSURE GAUGE
M-101	BOOSTER PUMP MOTOR
SOV-1	DILUTION WATER INLET SOLENOID VALVE
CV-101	MIXING PRESSURE CONTROL VALVE
CV-102	SECONDARY DILUTION EQUAIZATION VALVE
FE I- 101	PRIMARY DILUTION WATER INDICATING FLOW METER
FE I- 102	SECONDARY DILUTION WATER INDICATING FLOWMETER
FCV-101	PRIMARY DILUTION FLOW CONTROL REGULATOR
FCV-102	SECONDARY DILUTION FLOW CONTROL REGULATOR
HS-101	OFF/ON SWITCH

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