

ChemScan®

Accessories

Sample Handling Options &
Data Communication



Wastewater Filter Options

Typical applications:

- aeration basins
- SBR
(sequenced batch reactors)

External Filter Required

TSS is greater than
150 mg/L
NTU is greater than 60

No Filter Needed

TSS is less than
150 mg/L
NTU is less than 60

In-Situ Cyclic Filter (In-Tank Wand)



Run is less than 50 ft
Lift is less than 10 ft

Maximum of Four Filters/
Sample Lines per Analyzer

No external pump required

* SBR Applications Require
Pivoting Wand Mount -
Std. Wand is Fixed Angle

Freeze protected (Heat
Traced option available)

Flow-Through Cyclic (FTC) Filter



Run less than 500 ft



Filter
Element

Maximum of Four Filters
Per Analyzer

External Pump(s)
Required
- Provided by ASA
or Others

10-20 GPM

Cross-Flow Filter



Run is less than 1500 ft.

Maximum of 8 Sample
Points Per Filter System

External Pump(s)
Required
- Provided by ASA
Alternative: Valves and
Single Central Pump

30 GPM Minimum

Sample Circulation Chamber (SCC)

For coarse screening. Algae screening protects analyzer inlet screens and reduces maintenance.

Typical applications include post secondary clarifier.

TSS is less than 150 mg/L,
NTU is less than 60

Run is greater than 20 ft
Lift is greater than 5 ft

Maximum of Eight Sample Lines



Sample Extraction Accessory

For use with the ChemScan mini analyzer. Provides a pressurized sample.

TSS is less than 150 mg/L,
NTU is less than 60

(Includes Pump and
Sample Circulation
Loop Assembly)



External Pump(s) Required

- Provided by ASA or Others
- 3 - 10 GPM

Other Accessories

Heat Traced Cyclic Sample Line

Flexible conduit prevents freezing and damage to sample line. An option for any cyclic wand application.



Sample Circulation Pumps

Light Duty, Submersible Pump

1.3" Max. Dia. Solids

Weight: 20 - 30 lbs

Power: 1/4 - 3/4 HP, 120 VAC 60 Hz

Power Cable: 20 feet

12 foot SS support cable



Heavy Duty, High Head, Submersible, Grinder Pump. Cast Iron Construction.

Weight: 70 lbs

Power: 2.3 HP 230 or 460 VAC

Power Cable: 30 feet

Mounting: Dual guide bars

Note: Guide bars are typically provided by others

Legend

- TSS - Total Suspended Solids
- NTU - Nephelometric Turbidity Units
- GPM - Gallons Per Minute
- Run - Horizontal Distance to Sample Point
- Lift - Vertical Distance to Sample Point

Data Communication Options



Electronic Interface Enclosure

Analog

Serial

Ethernet IP

CIM

Customer Interface Module



Features a Max. of Eight 4-20 mA Outputs, Alarms and Input

PLC

Programmable Logic Controller



For use when 4-20 mA Outputs are greater than eight

RS-232 Modbus RTU



Direct from Analyzer to Terminal Block in EIE

SUB-D RS-232 terminal for temporary laptop connection available in lower enclosure

RS-422/485 Converter



See Factory for Limitations

Modbus TCP/IP



AB Ethernet IP (Allen Bradley)



Typically used when connecting to Allen-Bradley Plant System

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