

SENTINEL M96

Refrigerated, Composite Dipper Sampler

SAMPLING FOR
Wastewater treatment
Industrial pretreatment
Compliance monitoring



N-CON

Since 1967

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TECHNICAL SPECIFICATIONS

SAMPLER HOUSING

Material	<ul style="list-style-type: none"> Rigid, unplasticized gray PVC
Sampling Dipper	<ul style="list-style-type: none"> Constant volume 25 ml - PVC
Recommended Flow Rate	<ul style="list-style-type: none"> 10-30 gal/min (gravity flow or pump installation)
Inlet / Exhaust	<ul style="list-style-type: none"> 2" NPT inlet, 3" NPT exhaust SCH-80 PVC with flexible pipe couplings
Head Adjustment	<ul style="list-style-type: none"> Adjustable PVC overflow weirs
Chamber Cover	<ul style="list-style-type: none"> Clear polycarbonate with handle

SAMPLER CONTROL

Enclosure	<ul style="list-style-type: none"> NEMA 4X enclosure with clear hinged cover
Control	<ul style="list-style-type: none"> PLC with LCD display and keypad
Dipper motor	<ul style="list-style-type: none"> Spring return, oil-sealed motor with stainless shaft
Connections	<ul style="list-style-type: none"> 1/2" hub for standard electrical conduit
Access port	<ul style="list-style-type: none"> 2 available for optional connections or flow-meter



STANDARD PROGRAMMING OPTION

Time based	<ul style="list-style-type: none"> 60 sampler per hour (maximum)
Pulse flow meter	<ul style="list-style-type: none"> 1-9,999 pulses per sample
4-20 mA DC	<ul style="list-style-type: none"> Adjusted based on calculation
Sample volume	<ul style="list-style-type: none"> 25-150 ml/sample cycle in 25 ml increments

ELECTRICAL REQUIREMENTS

Input	<ul style="list-style-type: none"> 115 VAC, 60 Hz
Connections to Sampler	<ul style="list-style-type: none"> All power and flowmeter connections made to numbered terminal block
Circuit Protection	<ul style="list-style-type: none"> 10 amp system fuse and .5 amp flowmeter fuse

REFRIGERATION OPTIONS

User-supplied	<ul style="list-style-type: none"> Use any standard refrigerator that can accommodate a 2-1/2" hole in top (self-installation kit available PN 01-095)
Factory Standard	<ul style="list-style-type: none"> AGA/Marvel Scientific (White Powder Coat) with digital control, key lock and door alarm
Factory Stainless	<ul style="list-style-type: none"> AGA/Marvel (Stainless Steel) with digital control, key lock and door alarm

RELIABLE SAMPLING WITH MINIMAL MAINTENANCE

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FLEXIBLE INSTALLATION

- Factory or user-supplied refrigeration
- Direct mount on refrigerator or remote/wall mount

MINIMAL MAINTENANCE

- Easy to clean PVC sample chamber
- Oil-filled, spring-return direct drive motor
- Refrigerator and sampler are separate components allowing refrigerator to be replaced without replacing entire unit
- No pump tubes or desiccants to monitor or replace
- No clogged suction lines



SHOWN WITH A FRIGIDAIRE BEVERAGE CENTER AVAILABLE AT MANY BIG BOX STORES



FLEXIBLE INSTALLATION BASED ON YOUR WORK ENVIRONMENT



CORROSION-PROOF PVC DIPPER AND SAMPLE CHAMBER

EASY SAMPLE SETUP

- Straightforward, menu-driven setup with LCD display and touch pad
- Status screen displays time to next sample and samples remaining
- Programmable in 25ml increments (up to 150 ml/ cycle)
- Timed, pulse flow and 4-20 mA flow modes standard
- Single bottle composite sample

SUPERIOR SOLIDS HANDLING

- Dipper provides most representative sample
- Adjustable weir keeps solids in suspension

MINIMIZE OPERATOR ERROR

- Simple external reset button restarts program after final sample collection
- Manual sample without interrupting program

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ORDERING INFORMATION



N-CON SENTINEL SAMPLER

- 00-181** N-CON Sentinel M96 (user-supplied refrigeration)
- 00-185W** N-CON Sentinel M96W (standard factory refrigeration)
- 00-185S** N-CON Sentinel M96S (stainless steel factory refrigeration)

BOTTLE OPTIONS*

- 19-003** 2 gallon Polyethylene Rectangular Carboy with cap (stainless handle)
- 19-004** 2 gallon Glass Round Carboy (removable wire handle)
- 19-005** 5.5 gallon Polyethylene Round Carboy with cap (integrated handles)

ACCESSORIES

- 20-059** Automatic cutoff float cap
- 19-201** Remote operating status light
- 01-033** Wall mounting lugs (Control Housing only)
- 01-035** Sampler wall mounting brackets (Control and Tank)

- 17-510** MAX-MIN Thermometer
- 12-055** Replacement Sample Delivery Tube & Extension
- 01-095** Refrigerator installation kit** (template, bolts & jack nuts)

- 22-180** Sentinel M96 Manual

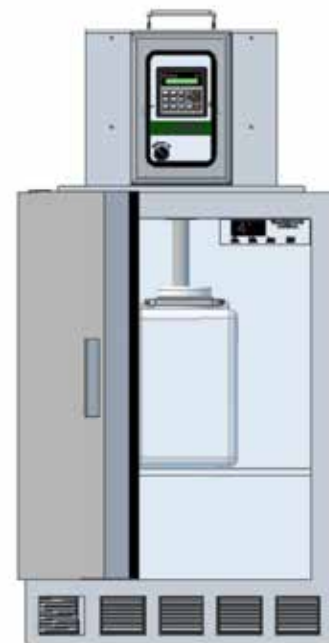
FACTORY REFRIGERATION OPTIONS

- 17-054** AGA/Marvel White Powder Coat
- 17-055** AGA/Marvel Stainless Steel (Special Order)

Factory refrigeration comes pre-drilled and ready for tank installation with the included tank bolts. Five year compressor warranty. One year parts and labor.

*User may also supply their own sample container(s). No custom bottle or caps are required.

**For installation on user-provided refrigeration



Standard Factory Refrigeration
33 7/8" H x 23 7/8" W x 23 5/8" D

