

# 6712FR

## Fiberglass Refrigerated Sampler

The 6712FR is a sequential or composite refrigerated sampler designed for indoor or outdoor applications where rugged, corrosion-resistant construction is required. The extensive range of programming modes lets you select the most suitable routine for your application. Programming is fast and simple, with on-line help just a key stroke away.

*The environmentally-sealed 6712 controller delivers maximum accuracy and easily handles all of your sampling applications.*

In the Standard Programming Mode, the controller walks you through the sampling sequence step-by-step, allowing you to choose all parameters specific to your application. Selecting the Extended Programming Mode lets you enter more complex programs.

### Factory Installed Options

An optional built-in telephone modem lets you change programs and download data remotely, from a touch-tone phone. It also has dial-out alarm features.

For automatic documentation of sample storage temperature, specify the 6712FR with optional temperature sensor. With this thermally ballasted sensor, the 6712 controller can log compartment temperatures at programmable intervals with 0.1 °C precision.

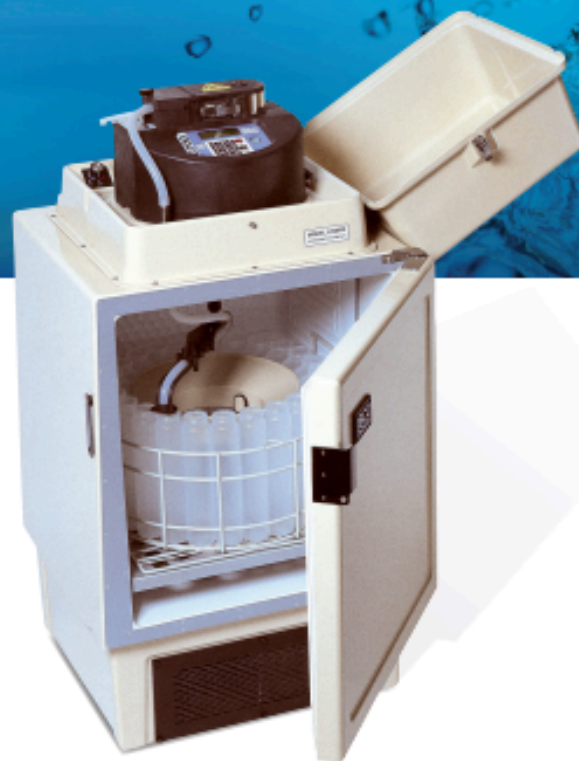
### Versatile, Tough, and Reliable

ISCO FR samplers feature a corrosion-proof refrigerator cabinet molded from polyester resin fiberglass and supported by a stainless steel frame. A UV-resistant gel coat provides a smooth, non-porous finish for added protection and easy cleaning.

The 6712FR uses thick, foamed-in-place insulation to keep samples preserved at the EPA-recommended 39 °F (4 °C). An automatically controlled, built-in heater ensures that samples won't freeze, even when ambient temperatures drop to -2 °F (-29 °C). Coolant is environmentally safe R134a. Durable powder-coated epoxy, phenolic paint, and polyester tubing, protect refrigeration components against corrosion.



*The 6712FR provides long service life in corrosive environments, and can be used outdoors without an enclosure.*



### Applications:

- Wastewater effluent
- Stormwater monitoring
- CSO monitoring
- Permit compliance
- Pretreatment compliance

### Standard Features:

- SDI-12 interface and 512 KB memory for versatile parameter monitoring and logging
- Accurate, repeatable samples
- High performance peristaltic pump
- Accepts ISCO 700 Special Function Modules



*The 6712 Controller is also an SDI-12 data logger, and has many optional capabilities. Please contact ISCO or your ISCO distributor for more information.*

## 6712FR Sampler

Size (HxWxD):	49.3 x 26 x 26 inches (125 x 66 x 66 cm)
Weight:	Dry, 160 lbs (73 kg)
Bottle Configurations:	24 1-liter PP or 350-ml glass 24 ProPak 1-liter disposable sample bags 2 2-gallon (7.5-liter) PE or 2.5-gallon (9.4-liter) glass 1 2.5-gallon (9.4 liter) PE or glass 1 5.5-gallon (21-liter) PE
Refrigerator Body:	Fiberglass reinforced plastic with UV-resistant gel coat
Power Requirements:	115 VAC, 60 Hz; or 230 VAC, 50 Hz (specify)

## PUMP

Intake suction tubing:	
Length:	3 to 99 feet (1 to 30 m)
Material:	Vinyl or Teflon
Inside Dimension:	3/8 inch (1 cm)
Pump Tubing Life:	Typically 1,000,000 pump counts
Maximum Lift:	28 feet (8.5 m)
Typical Repeatability:	±5 ml or ±5% of the average volume in a set
Typical Line Velocity at Head Height Of:	
3 ft. (0.9 m)	3.0 ft./s (0.91 m/s)
10 ft. (3.1 m)	2.9 ft./s (0.87 m/s)
15 ft. (4.6 m)	2.7 ft./s (0.83 m/s)
Liquid Presence Detector:	Non-wetted, non-conductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.

*Note: Bottle configuration, suction line, and strainer must be ordered separately. Many options and accessories are available for 6712 Samplers; see separate literature for 700 Series Modules and other components to expand your monitoring capabilities.*

## CONTROLLER

Weight:	13 lbs. (5.9 kg)
Size (HxWxD):	10.3 x 12.5 x 10 inches (26 x 31.7 x 25.4 cm)
Operational Temperature:	32 ° to 120 °F (0 ° to 49 °C)
Enclosure Rating:	NEMA 4X, 6 (IP67)
Program memory:	Non-volatile ROM
Flow Meter Signal Input:	5 to 15 volt DC pulse or 25 millisecond isolated contact closure
Number of Composite Samples:	Programmable from 1 to 999 samples
Clock Accuracy:	1 minute per month, typical, for real time clock

## SOFTWARE

Sample Frequency:	1 minute to 99 hours 59 minutes, in 1 minute increments. Non-uniform times in minutes or clock times 1 to 9,999 flow pulses
Sampling Modes:	Uniform time, non-uniform time, flow, random interval event. (Flow mode is controlled by external flow meter pulses.)
Programmable Sample Volumes:	10 to 9,990 ml in 1 ml increments
Sample Retries:	If no sample is detected, up to 3 attempts; user selectable
Rinse Cycles:	Automatic rinsing of suction line up to 3 rinses for each sample collection
Program Storage:	5 sampling programs
Sampling Stop/Resume:	Up to 24 real time/date sample stop/resume commands
Controller Diagnostics:	Tests for RAM, ROM, pump, display, and distributor

## ORDERING INFORMATION

DESCRIPTION	PART NO.
<b>6712FR Refrigerated Sampler, 120VAC 60Hz</b> Includes controller, distributor arm, instruction manual, pocket guide.	<b>68-6710-072</b>
<b>6712FR Refrigerated Sampler, 230VAC 50Hz</b> includes controller, distribution arm instruction manual, pocket guide.	<b>68-6710-073</b>
<b>6712FR with temperature logging, 120VAC 60Hz</b> As above, with internal temperature sensor	<b>68-6710-144</b>
<b>6712FR with temperature logging, 230VAC 50Hz</b> As above, with internal temperature sensor	<b>68-6710-145</b>