

Communication Technology

Systems and Solutions for the Marine World

Ocean Test Equipment

Standard, Model 110

Non-metallic, free-flushing water sampler recommended for general purpose water sampling. These samplers can be individually or serially attached on a hydrocable and activated by a messenger or placed on a rosette system and activated by remote command.

The sampler has a rigid body made of gray PVC with power closure made of latex tubing or metal spring. PVC mounting blocks are glued to the body for loading on a rosette system and with clamp bolts for attachment on wire. It comes equipped with lanyards for wire and rosette loading. Delrin drain valve and Buna O-rings are common accessories.



Models 110A & 110B

Standard A, Model 100A, is a simplified version of the original Standard, Model 110. It has the body made of PVC, with spring closure made of latex tubing activating the tow end plugs to complete the enclosure. It does not have mounting blocks or handle. It is specifically designed as an economical water sampler which can be directly attached with clamps or other means to the frame of a submersible array system.

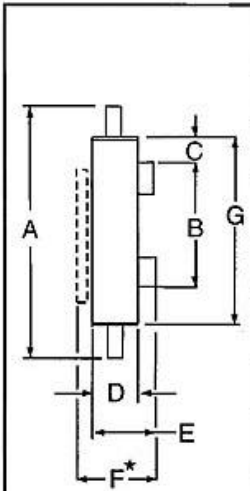
Standard B, Model 110B, has the body of Standard A with an aluminum bracket attached with two stainless steel clamps. Also, has a handle attached for easy handling and lanyard guidance. The bracket gives a greater resistance to breakage and to arctic conditions. The bracket is easily removable and interchangeable.



Reversing Thermometer Assembly, Model 112 RTA

A non-metallic, high-impact ABS plastic thermometer rack is attached to a pivotal PVC mounting block. The mounting block is permanently fixed on the sampler body. The rack which can hold three (3) reversing thermometers is easily removable and interchangeable.

MAIN DIMENSIONS		SAMPLER CAPACITY (liters)							
		1.7	2.5	5	8	10	12	20	30
A	inch	25.0	33.0	27.2	35.0	41.0	46	35.0	46.0
	mm	633	8	692	889	1041	1168	889	1168
B	inch	13	13	13	13	13	13	13	13
	mm	330	330	330	330	330	330	330	330
C	inch	2.5	2.5	3.5	3.5	3.5	3.5	3.5	3.5
	mm	63	63	63	63	63	63	63	63
D	inch	3.5	3.5	5.6	5.6	5.6	5.6	8.6	8.6
	mm	89.0	89.0	142.0	142.0	142.0	142.0	218.0	218.0
E	inch	5.5	5.5	7.6	7.6	7.6	7.6	10.7	10.7
	mm	139	139	192	192	192	192	273	273
F	inch	8.0	8.0	10.1	10.1	10.1	10.1	13.3	13.3
	mm	204	204	257	257	257	257	338	338
G	inch	18.0	26.0	20.0	28.0	34.0	39.0	24.3	37.0
	mm	457	660	508	711	863	990	711	990
EMPTY WEIGHT	lb	5.5	6.5	8.0	10.0	12.5	13.5	25.0	28.0
	kg	2.5	3.0	3.6	4.5	5.7	6.1	11.4	12.7
FULL* WEIGHT	lb	9.2	12.1	19.0	27.6	34.5	39.9	69.0	94.1
	kg	4.20	5.50	8.63	12.54	15.68	18.13	31.35	42.71
END OPENING	inch	2.9							5.0
	mm	74							127



* with Reversing Thermometer Assembly

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Double Wall Model 120

Non-metallic, free-flushing water sampler recommended for analyzing traces of gases dissolved in water. A polyethylene inside liner is attached at both ends to an outer rigid PVC cylindrical body. To complete the closure, two pivoting end plugs are tied together with a power cord at both ends to entrap the water sample when desired. The liner is easily replaced.

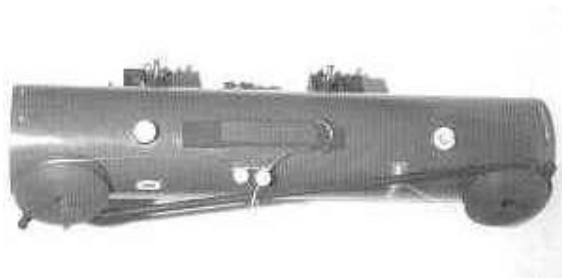


Standard ES, Model 115

Standard ES is a version of our very popular Standard Water Sampler, similar with Niskin type. The internal power cord, which activates the closing mechanism is placed outside along the rigid PVC body, eliminating the risk of sample contamination. Also, with this arrangement, the power cord can be easily inspected and replaced when becomes weak after a period of time. All the other characteristics of this type of sampler remain unaltered. The simplicity of this improved water sampler, easy to operate and very cost effective, makes it attractive.

C-Free Chamber Water Sampler, Model 114

The C-Free Chamber Water Sampler is a nonmetallic, sturdy body construction made of grey PVC. This product provides the same basic performance as the Niskin type water sampler. Additionally, its internal chamber is free of any source of contamination. The closing mechanism is of a ball-valve type activated by an external power cord. The effectiveness of the seal is ensured continuously even in the event the power cord



becomes weak or damaged. Also, this arrangement ensures a very reliable seal, eliminating any leakage caused by accidental bumping or shaking of the sampler during recovery. During deployment the sampler has both ends open allowing for free-flushing for accurate layer sampling. The absence of an internal source of contamination allows for storing the sample inside the sampler for an extended period of time before being drained. A pressure release valve can be added for close-open-close deployment. This feature prevents contamination from the surface layer of water.

Water Sampler, C-Free, Model 130

- To collect a sample of water free of contamination from the surface water.
- To avoid sample contaminations from the internal power springs.
- To eliminate unwanted high buoyancy problems of water samplers with rigid body.
- To drain the sampler without letting the air come into contact with the water sample.

A spine assembly and a front bracket sustain two ball valve closure mechanisms at both ends of the sampler. The ball valve arrangement allows for a sequential close-open-close deployment. A pair of pivoting wings attached to the spine sustains and protects a polyethylene bag. The bag's open ends are attached to the ball-valve closure mechanism housings. A pressure release valve which controls the closure mechanics is securely attached to the front bracket. The drain valve is directly attached to the front bracket. It activates them at 10 feet under the water surface. The drain valve is directly attached to the very lower section of the bag.

