

Battery and Solar Powered Air Samplers

HI-Q



Due to the variable speed flow rate control, brushless maintenance free blower and portability, the CF-1512-VBRL is considered to be "The Ideal External Battery Operated Air Sampler".

The brushless blower used in the CF-1512-VBRL draws a maximum of 3.0 Amps at 6.5 CFM, permitting longer sampling times on a single battery charge. For higher maximum flow rates, with minimal Amp draw, consider using the CF-1524-VBRL which draws a maximum of 6.0 Amps while sampling at a controllable flow rate of 9.5 CFM.

The 12 & 24 VDC, CF-1500-VBRL Series units (without batteries & cables) each weigh less than nine pounds, which simplifies system setup and transportation. See "Air Sampling Accessories" section of this catalog for optional 12/24 Volt DC Portable Power Source (P/N: PPS-12/24-VDC).

Ordering Information

CF-1512-VBRL (12 Volt DC) / CF-1524-VBRL (24 Volt DC)

*Use FHA-4CF to adapt down to female 1½" SPT, 1½" TPI fitting.

HI-Q's CF-993B & CF-993B-4 are ideal for remote location air sampling where line power is not available. An internally mounted sealed 12 Volt battery and battery charger eliminate the need for the transportation of cumbersome battery cables and the awkward handling of heavy batteries. The timer has 10 programmable timing functions with a wide time range. The flow rate of the CF-993B series air samplers are dependent upon the pressure drop across the collection filter media being used. If line power is available, sampling time can be extended by running line voltage to the charger while sampling. Due to the difference in Amp draw of the motor versus amperage output of the charger in the standard CF-993B, the unit will eventually stop running and need to be fully recharged. Upon Ordering, please specify intended filter media type and size.

Continuous AC powered air sampling is now possible on the CF-993B & CF-993B-4 with the addition of HI-Q's optional, internally mounted, AC/DC RELAY. The AC/DC Relay can be added to existing, or supplied with new units to allow continuous sampling where AC Power is available.

Motor/Pump:	12 Volt DC, 8.5 Max Amp Draw, 2-stage, centrifugal blower.
Battery:	12V, 26 A.H., Sealed/Maintenance-Free Rechargeable Battery. Average continuous run time is over 2 hours when used @ ambient conditions and a draw of 8.2 Amps.
Battery Charger:	Internally mounted, solid state 12 volt DC charger. Nominal output current of 4.0 Amps with supply voltages of 110/120 VAC, 60 Hz. A lower output current of 2.0 Amps if using switchable style 230/115 VAC, 50/60 Hz charger.
Battery Specs.:	18.7 lbs., sealed construction, immobilized gel electrolyte.
Unit Weight:	36 lbs. (with internal Charger & Battery)
Shipping Weight:	Total 39 lbs., 2 Boxes 8" x 8" x 6" & 13" x 11½" x 16¼"
Housing:	10¼" x 10" x 14¼", Aluminum cabinet, primed & painted with 2-component polyurethane paint.
Max Flow Rate: CF-993B	95 LPM (w/ FP2063-20, 2" Dia.) & 55 LPM (w/ FP5211-20, 2" Dia.)
Max Flow Rate: CF-993B-4	185 LPM (w/ FP2063-102, 4" Dia.) & 142 LPM (w/ FP5211-102, 4" Dia.)
Filter Holders & Adapters:	See Filter Holders
Flow Calibrator:	See Air Flow Calibrators
Filter Paper:	See Filter Paper For Air Sampling
Filter Cartridges:	See Analytical Cartridges

CF-1512-VBRL & CF-1524-VBRL Variable Speed, Brushless Blower, Battery Operated Air Sampler

- 3-Stage Brushless Motor Blower
- Maintenance-Free
- Variable Speed Control & Low Amp Draw
- Compact & Light Weight
- Elapsed, Resettable Sample Timer
- Ideal for Solar Powered Air Sampling Stations

Motor/Pump:	CF-1512-VBRL 12 Volt DC, Brushless Motor, Centrifugal Blower.
Motor/Pump:	CF-1524-VBRL 24 Volt DC, Brushless Motor, Centrifugal Blower.
Unit Weight:	9 lbs. (without battery & cables)
Shipping Weight:	Total 12 lbs., 1 Box 11½" x 10" x 13¼"
Housing:	10" x 9" x 11½", Alum. cabinet, primed & painted with 2-component polyurethane paint.
Approx. Max Flow Rate:	CF-1512-VBRL 6.5 CFM (w/ FP2063-102, 4" Dia.) & 3.0 CFM (w/ FP2063-20, 2" Dia.)
Approx. Max Flow Rate:	CF-1524-VBRL 9.5 CFM (w/ FP2063-102, 4" Dia.) & 4.0 CFM (w/ FP2063-20, 2" Dia.)
Filter Holders & Adapters:	See Fil. Holders. Inc. a 4" dia. filter paper holder for adaption to accept "CF" series.
Flow Calibrator:	See Air Flow Calibrators
Filter Paper:	See Filter Paper For Air Sampling
Filter Cartridges:	See Analytical Cartridges

CF-993B Series

Internal Battery Operated Portable, Fixed Speed Air Sampler

- Internally Mounted 12 Volt Battery & Battery Charger
- Timer Controlled Air Sampling (Programmable)
- Instantaneous Air Flow Rate Indicator
- N.I.S.T. Traceable Calibration
- 2-Stage Brushed Blower
- For Continuous or Intermittent Use

Ordering Information

CF-993B

Battery operated air sampler complete with internally mounted 115VAC battery charger (4.0 Amp output), 12VDC, 26 A.H. Battery, American Type 16/3 grounded cord. Standard Flow Range of 10-120 LPM. Includes 1½" Female Straight Pipe Thread for "CF" series holders. Specify intended filter media/size upon ordering.

CF-993B-4

4" Diameter paper only, battery operated air sampler complete with internally mounted 115VAC battery charger (4.0 Amp output), 12VDC, 26 A.H. Battery, American Type 16/3 grounded cord. Standard Flow Range of 40-195 LPM. Use HI-Q's FHA-4CF to adapt down to female 1½" dia. SPT fitting, to accept "CF" series filter holders. Specify intended filter media/size upon ordering.

CF-993B/230 / CF-993B-4/230

Unit as described above with switchable 230/115 VAC battery charger. Nominal output current from charger is 2.0 Amps.

Options & Spare Parts:

AC/DC RELAY

Internally Mounted AC/DC Solid State Relay module with rectifier for CF-993B Series Air Samplers. Allows user to use system as a DC or AC powered unit.

CF-993B-005

Replacement Motor Brush Set, 2 Brushes/Set.

CF-993B-002

Replacement 12 volt DC, 26 Amp Hour Battery. This maintenance free, immobilized electrolyte battery is packaged in a high impact resistant ABS plastic case.

