

ANALAB® FluoroBloc

Better Sample Preparation = Better Results!



Analab FluoroBloc – your ideal choice for routine sample digestion

Sample preparation is a critical step in obtaining accurate analysis results. For over 20 years, Analab has been a trusted partner for trace and ultra-trace analysis in a wide range of applications:

- Metallurgy
- Earth & Planetary Sciences
- Food
- Semiconductor
- Environmental
- Mining
- Nuclear
- Pharmaceutical
- Petrochemical

Modern laboratories demand cost effective solutions for contamination-free sample preparation. The inert construction of the FluoroBloc delivers a constant and uniform temperature for the vessels resulting in highly reproducible digestions. Suitable for a range of standard EPA methods such as 200.2, 200.7, 200.8, 200.9, 245.1 and 365.1 for waters, as well as 3010A, 3020B, 3050B and 3060 for solid waste samples.

Features & Capabilities

- PFA-coated specialty graphite work surface for maximum resistance to aggressive chemicals
- Uniform heating across sides and bottom of each vial, providing optimal digestion conditions
- No exposed metal surfaces on the digestion module make them suitable for Class 1 (ISO 3) clean room environments – no contaminants/particulates
- Available in 24- and 48-position models to maximize sample throughput

Safety

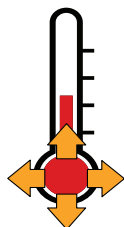
- PTFE thermal protection around all sides and underneath protect users and fume hood surface
- Multiple alarms and electronic/physical temperature safety sensors
- Transfer racks allow easy transportation of sample vials to/from the FluoroBloc

Advanced Analab Digestion Features



Acid Inertness

- PFA coating provides protection from corrosive agents
- Suitable for Class 1/ISO3 cleanroom operation



Constant Temperature

- Stable temperature regulated at $\pm 2^\circ\text{C}$
- Uniform temperature from bottom to top of the vessel block



Long, Maintenance-free Lifetime

- Heating elements in sealed environment
- Controller located outside of digestion area to eliminate corrosion



Safety

- Operators and work surface are protected by thermal insulation panels
- Multiple alarms and electronic/physical safety sensors

FluroBloc Features:

Two Capacity Options

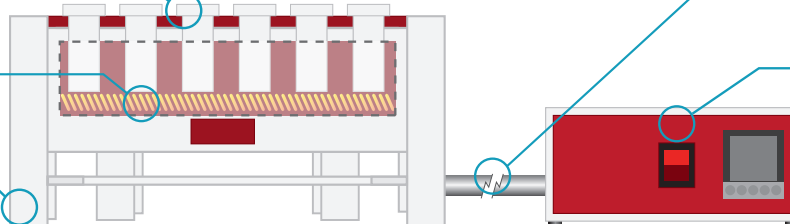
- 24 vials (29 cm x 19 cm x 21 cm)
- 48 vials (37 cm x 27 cm x 20 cm)

Heating Element

- Embedded in PFA coated graphite block for inertness

Safety

- PTFE thermal insulation around all sides and underneath for safety
- Protective lip surrounds edge of work surface to protect against spills



External Control

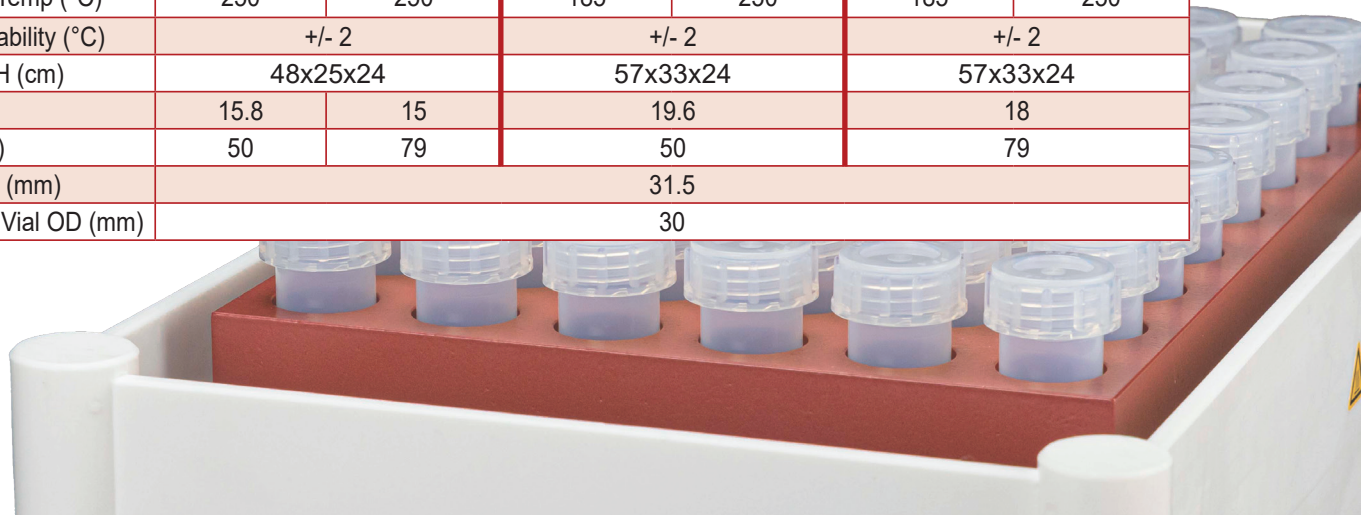
- 1.7m (5.5') PTFE-shielded control cable
- Allows regulator to be located outside fume hood

Temperature Regulator

- 110 or 208-240 V supply
- $\pm 2^\circ\text{C}$ control up to 250°C maximum
- Multiple alarms for maximum safety
- Offered in fully programmable and non-programmable (with timer) versions

FluroBloc Specifications

Vial/Capacity Size	24/30 mL	24/50 mL	48/30 mL		48/50 mL	
110V/15A Models	FB-24-1V-30	FB-24-1V-50	FB-48-1V-30	-	FB-48-1V-50	-
208-240V/20A Models	FB-24-2V-30	FB-24-2V-50	-	FB-48-2V-30	-	FB-48-2V-50
Max Operating Temp ($^\circ\text{C}$)	250	250	185	250	185	250
Temperature Stability ($^\circ\text{C}$)	+/- 2		+/- 2		+/- 2	
Footprint LxWxH (cm)	48x25x24		57x33x24		57x33x24	
Weight (kg)	15.8	15	19.6		18	
Vial Depth (mm)	50	79	50		79	
Vial Opening ID (mm)			31.5			
Recommended Vial OD (mm)			30			



Temperature Regulators

All Analab FluoroBloc modules require an external temperature regulator/controller. Designed for remote placement outside the corrosive atmosphere of a fume hood. They are available in 110V and 208-240V versions depending on the power circuits available in your laboratory with either a basic timer/single setpoint or multiple temperature program capability.



Programmable Regulator



Non-programmable Regulator with Timer

Model	Timer	Programmable	Electrical Requirement	NEMA Plug
RNP-1V-15A-T	✓		110V/15A	5-15P
RNP-1V-20A-T	✓		110V/20A	5-20P
RNP-2V-15A-T	✓		208-240V/15A	6-15P
RNP-2V-20A-T	✓		208-240V/20A	6-20P
RP-1V-15A		✓	110V/15A	5-15P
RP-1V-20A		✓	110V/20A	5-20P
RP-2V-15A		✓	208-240V/15A	6-15P
RP-2V-20A		✓	208-240V/20A	6-20P

Also available in dual controller models to provide external temperature probe display or direct control from probe

TransRack Accessory

Optional transfer racks are available for easy transport and rapid loading/unloading of samples into a FluoroBloc.

- Available in both 24- and 48-vial versions
- PFA-coated stainless steel construction for strength and durability
- Fits 30 mm OD vials



FluoroBloc Packages

The most popular FluoroBlocs are offered in complete turn-key packages, including a FluoroBloc bundled with a TransRack and Regulator for quick ordering. In addition to the packages listed below, additional configurations are available upon request.



Packages	FBP-24-1V-50	FBP-24-2V-50	FBP-48-1V-30	FBP-48-1V-50	FBP-48-2V-50
Vial Capacity/Size	24/50 mL	24/50 mL	48/30 mL	48/50 mL	48/50 mL
Regulator: Non-Programmable with Timer	✓	✓	✓	✓	✓
TransRack	✓	✓	✓	✓	✓
Electrical Requirement	110V/15A	208-240V/20A	110V/15A	110V/15A	208-240V/20A
Plug Connector (NEMA)	5-15P	6-20P	5-15P	5-15P	6-20P
Max Operating Temp (°C)	250	250	185	185	250

Consumables

In addition to digestion blocks, Analab also offers vials and consumables for your digestion requirements. Available in both economical polypropylene for routine sample preparation in 50 mL vials and accessories, and also in high purity PFA for the most demanding applications in 30 mL and 50 mL sizes.

Polypropylene Digestion Vials and Accessories



V-29-0250-G-D



V-29-0250-W-D



V-34-0250-D



C-41-02-M



C-34-02-M



FILT-0401-M

Description	Qty	Part Number
50 mL Polypropylene Digestion Tubes with Green Caps	500	V-29-0250-G-D
50 mL Polypropylene Digestion Tubes with White Caps	500	V-29-0250-W-D
50 mL Polypropylene VersaTube™ Digestion Tubes with Hinged Cap	500	V-34-0250-D
Disposable Watch Glasses for 50 mL Digestion Tubes	1000	C-41-02-M
Disposable Reflux Caps for 50 mL Digestion Tubes	1000	C-34-02-M
FilterMate™ 6 µm PTFE-faced Polypropylene Filter	100	FILT-0401-M

PFA Sample Vials and Bottles

Ideal for applications that require the highest purity. Made of ultrapure, chemically resistant material, these PFA sample vessels are an excellent choice for isotope geochemistry, semiconductor and micro samples. Vials are 30 mm OD and available with flat bottoms or cored base for use with gripping tools.



V-31-30



V-31-30F



V-31-60



V-31F-60



PFA-K29

Description	Qty	Part Number
30 mL graduated PFA vial – cored base (caps not included); 30 mm OD	5	V-31-30-V
30 mL graduated PFA vial – flat base (caps not included); 30 mm OD	10	V-31-30F-X
50 mL graduated PFA vial – cored base (caps not included); 30 mm OD	10	V-31-60-X
50 mL graduated PFA vial – flat base (caps not included); 30 mm OD	10	V-31F-60-X
Threaded screw cap for 30 mm OD PFA vials	10	PFA-K29-X