

# Setting the **new standard** for **sample digestion**



ColdBlock is a superior alternative to conventional methods. Digestions are completed in minutes with accuracy and precision.

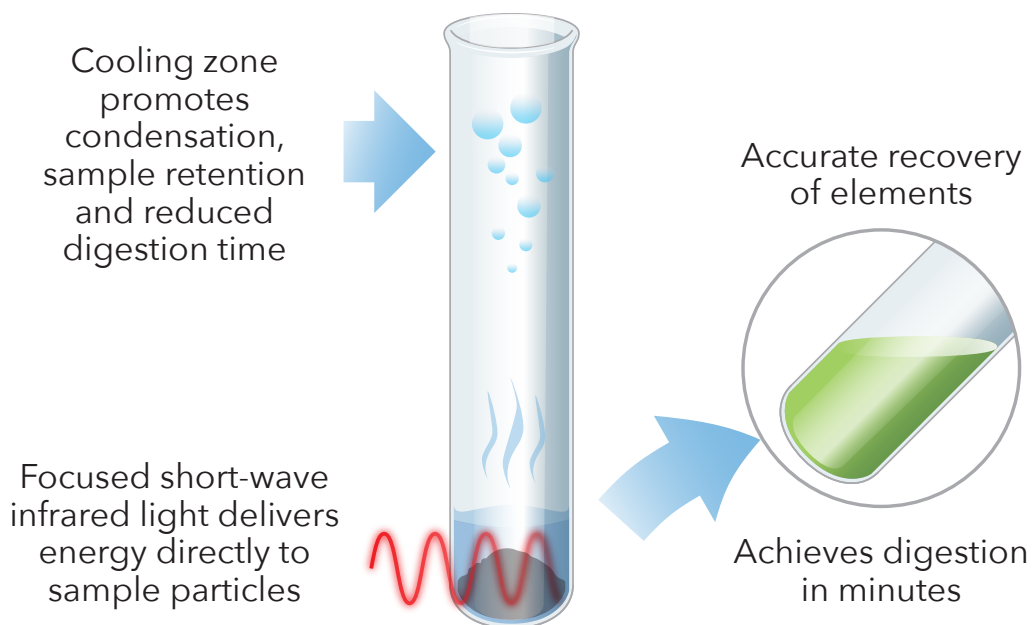
- Faster cycle time
- Improved safety
- Repeatable results



# Introducing ColdBlock

**ColdBlock** digestion technology is the first and only sample digestion technology that uses focused short-wave infrared heating and a cooling zone to dissolve solid sample matter into a solution for multi-element analysis.

Used in food, agriculture, mining, metals, pharma and consumer goods applications, sample digestion is a necessary process, yet traditional methods such as hot plate, hot block and microwave have had little advancement or improvement.



## Benefits for your lab include:

### SPEED

What would a reduction in digestion time from hours to minutes do for your lab workflow and productivity?

Digestions using ColdBlock have an average cycle time of 10-40 minutes, significantly faster than microwave or hot plate. Bulk handling of samples (load/unload) adds further efficiency.

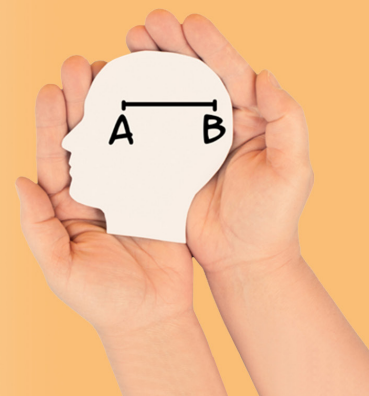


### SIMPLICITY

Setting up ColdBlock can be completed by a single person in less than 30 minutes.

Simple software controls make it possible to save and reuse multiple digestion methods.

Maintenance requirements are less than 10 minutes per week.



### SAFETY

ColdBlock eliminates the need for hazardous perchloric acid.

Safe open-air operation within a vent hood requires no pressurization. A cooling zone allows for safer handling of test tubes. No time-consuming pressurization/



### SAVINGS

Shorter digestion = faster throughput and shorter cycle time, leading to significant increase in lab productivity.

Customers report a 10-30% reduction in costs compared to hot block and microwave sample digestion methods.



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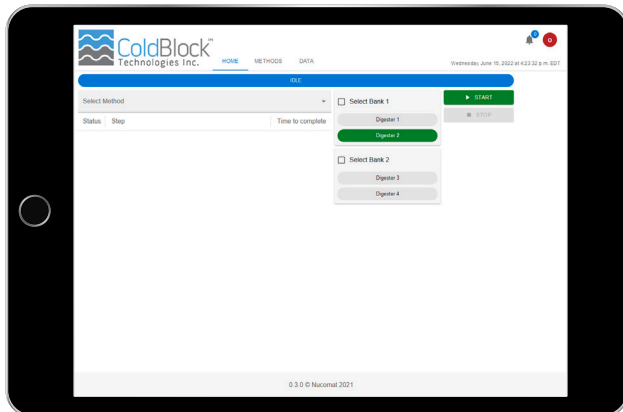
# Product Overview

## ColdBlock Pro Series Features:

- Available in small, medium or large size sample tube sizes.
- Scalable design can be combined into a 40/60/80 sample digestion system.
- Minimal maintenance of less than 5 minutes per week; stands up rigorous daily use.
- Test tubes are borosilicate – quartz tubes are also available.
- Unit comes with digester, controller, borosilicate test tubes, 2 stands, 2 transfer trays, and a replacement lamp (4000h).

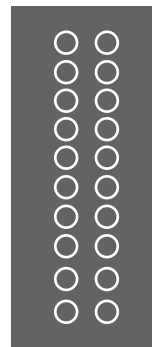


Pro Series Digester



- Operated with ColdBlock's software control system; create, save, and re-use single or multi-step digestion programs on a tablet or laptop.

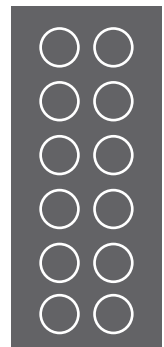
## Available Configurations:



Pro Series  
Small Tubes  
[20 total]



Pro Series  
Medium Tubes  
[16 total]



Pro Series  
Large Tubes  
[12 total]

**ColdBlock's sample digestion system is being used in laboratories across several industries in locations around the world.**



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## Laboratory Setup

The ColdBlock Pro Series system integrates easily into any laboratory, therefore no capital spending is required.

## System Requirements:



## VENTILATION

ColdBlock digesters operate within a fumehood with a draw of at least 400 cu ft./min.



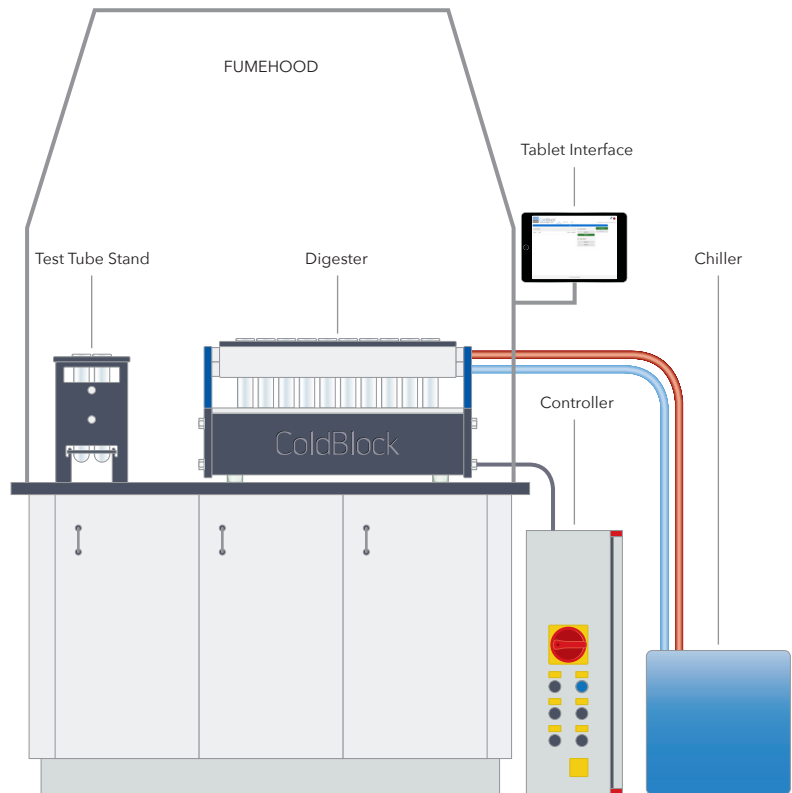
## COOLING

Connection to a recirculating chiller with a minimum of 1200W cooling capacity at 20° Celsius is also required.



## ELECTRICAL

The Controller requires a 30 AMP and 208-240V at 50/60 Hz.



## System Configurations:

Pro Series Model	Small Sample	Medium Sample	Large Sample
# Samples	20	16	12
# of Tubes Included	40	32	24
Test Tube Diameter	28 mm	36 mm	52 mm
Test Tube Volume	50 ml	125 ml	250 ml
Typical Acid Volume	7-25 ml	16-50 ml	20-160 ml
Typical Sample Size	0.1-2.0g	0.25-5.0g	5-30g
Single Digester Footprint	Width: 15.5 cm   Depth: 54.0 cm   Height 23.5cm		
Power Requirement	Single Phase 240V and 50/60Hz		
Circuit Requirement	30A for single / dual configuration,50A for triple / quadruple configuration		
Chiller	1100W chiller with -5 degree capacity 1 chiller per 1-2 digesters		
Ventilation	Standard vent hood; 400 cu. ft./min.		

## Let's Connect!

Learn more about how ColdBlock  
can revolutionize your lab!

