



# Combination Hooded Kjeldahl Apparatus

Open Combination and Hooded Combination Kjeldahl units have digestion and distillation components for nitrogen determination in one space-saving apparatus.

Open Combination Kjeldahl units are supported by a sturdy, tubular steel framework, with the distillation apparatus mounted above the digestion portion. Models are available with the capacity to digest and distill up to 12 samples at a time.

Hooded Combination Kjeldahl units enclose the distillation and digestion apparatus so that process heat may be contained and vented from the laboratory. The hood surrounding the apparatus includes three collars: one for remotely-located exhaust blower connection, one for acid fume exhaust manifold connection and one for auxiliary-air blower inlet connection. Models are available that digest and distill up to 18 samples at one time.



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and digestion apparatus so that process heat may be contained and vented from the laboratory.

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### **Additional Features & Specifications**

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#### **Features**

- Distillation manifold with seamless stainless steel tubing. No fittings or gaskets are required eliminating a potential leak source.
- Counterflow heat exchanger controls back pressure and maximizes the rate of distillation for uniformity of results.
- Remote-control flow valve allows cooling water volume adjustment.
- Easy-to-read temperature gauge located on the water outlet
- One-piece borosilicate glass connecting bulbs separate liquid from vapors prior to the vapors entering the condenser and effectively traps caustic mist that may carry over to the recovery solution.
- One-piece borosilicate glass delivery tubes with long necks, round bottoms and thick walls to help eliminate pressure fluctuations in the distillation phase.
- Electric distillation and digestion heaters with curved ceramic bases to cradle 500 or 800 ml Kjeldahl digestion flasks.
- Individual infinite-control knobs for electric heaters with variable input from 20-100% capacity
- Chemical-resistant CPVC fume manifold with heat-resistant PTFE nipples that draw chemical fumes from the digestion flasks.
- Full one year warranty

#### **Options**

- Open Combination Units in 6 place and 12 place models

- Hooded Combination Units in 6-place, 12-place and 18-place models. Hooded models feature epoxy-coated steel construction reinforced with tubular steel and tempered safety glass, horizontal-sliding sashes. Three collars are provided for connection to remotely-located acid fume and hood heat exhaust blower and optional auxiliary-air blower.
- Various electrical configurations

## Required Accessories

- Kjeldahl digestion flasks
- Remote exhaust blower
- Ductwork

## Optional Accessories

- Auxiliary-air blower (Hooded models only)
- Laboratory Carts and Benches

### [Eighteen-Place Hooded Combination Kjeldahl Digestion/Distillation Apparatus](#)



**Catalog # 2117812**

#### **Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

**Product Subcategory:** Classical Macro Kjeldahl

**Purpose:** Combination Kjeldahl Digestion and Distillation

**Required Accessories:** Kjeldahl flasks, PVC Remote Acid Exhaust Blower, Coated Steel Heat Exhaust Blower

### [Eighteen-Place Hooded Combination Kjeldahl Digestion/Distillation Apparatus](#)



**Catalog # 2117813**

#### **Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

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**Required Accessories:** Kjeldahl flasks, PVC Remote Acid Exhaust Blower, Coated Steel Heat Exhaust Blower

### [Twelve-Place Hooded Combination Kjeldahl](#)

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**Catalog # 2117712**

**Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks, PVC Remote Acid Exhaust  
Blower, Coated Steel Heat Exhaust  
Blower

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus](#)



**Catalog # 2117611**

**Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks, PVC Remote Acid Exhaust  
Blower, Coated Steel Heat Exhaust  
Blower

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus](#)



**Catalog # 2117613**

**Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks PVC Remote Acid Exhaust



**Catalog # 2117713**

**Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks, PVC Remote Acid Exhaust  
Blower, Coated Steel Heat Exhaust  
Blower

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus](#)



**Catalog # 2117612**

**Kjeldahl Digestion Fume Removal**

**Method:** Remote Blower Exhaust

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks, PVC Remote Acid Exhaust  
Blower, Coated Steel Heat Exhaust  
Blower

[Twelve-Place Hooded  
Combination Kjeldahl  
Digestion/Distillation Apparatus  
with Water Ejector](#)



**Catalog # 2118002**

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks

[Twelve-Place Hooded  
Combination Kjeldahl  
Digestion/Distillation Apparatus  
with Water Ejector](#)



**Catalog # 2118003**

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks

[Eighteen-Place Hooded  
Combination Kjeldahl  
Digestion/Distillation Apparatus](#)



**Catalog # 2117802**

[Eighteen-Place Hooded  
Combination Kjeldahl  
Digestion/Distillation Apparatus](#)



**Catalog # 2117803**

[Twelve-Place Hooded  
Combination Kjeldahl  
Digestion/Distillation Apparatus](#)



**Catalog # 2117702**

[Twelve-Place Hooded  
Combination Kjeldahl  
Digestion/Distillation Apparatus](#)



**Catalog # 2117703**

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus](#)



**Catalog # 2117601**

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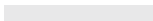
**Catalog # 2117602**

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus](#)



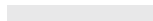
**Catalog # 2117603**

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus with Water Ejector](#)



**Catalog # 2117901**

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus with Water Ejector](#)



**Catalog # 2117902**

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks

[Six-Place Hooded Combination  
Kjeldahl Digestion/Distillation  
Apparatus with Water Ejector](#)



**Catalog # 2117903**

**Product Subcategory:** Classical  
Macro Kjeldahl

**Purpose:** Combination Kjeldahl  
Digestion and Distillation

**Required Accessories:** Kjeldahl  
flasks

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