

# **MIDI-STIL™**

**Fast and Easy Cyanide Analysis for  
EPA 335.2 and 335.4 Distillations**



*Committed to Product Excellence...and Continuous Support*

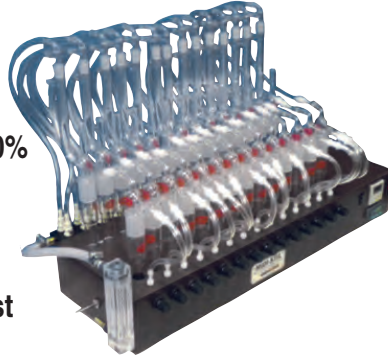
 **Wilmad-LabGlass**  
**SP SCIENCEWARE™**  
*Prepare to Discover*

# MIDI-STIL™

## ENVIRONMENTAL DISTILLATION SYSTEMS

Fast and easy **Cyanide** analysis for EPA 335.2 and 335.4 distillations. Perform USEPA test methods with scaled down volumes for **Phenol, Ammonia and Fluoride** distillations.

- ◆ Reduce Start-Up Material By 90%
- ◆ Reduce Waste By 90%
- ◆ Digital Timer
- ◆ Test Data Available on Request



14 Position System

- ◆ Digital Temperature Control
- ◆ Automatic Shut-off
- ◆ Minimum Lab Space
- ◆ Easy To Use



10 Position System

### SAVE \$\$\$ - MORE PROFIT

14 point system allows you to run 10 client samples plus associated QA/QC duplicate, standard, spike and blank samples - 66% MORE CAPACITY

### R-3166 MIDI-STIL DISTILLATION SYSTEM

- Ref: a. Method 335.2 and 335.4 Contract Lab Program Statement of Work 788.  
 b. Standard Methods 19th Edition - 4500CN, 4500F, 4500 NH<sub>3</sub>B & 5530

Uniquely designed Wilmad-LabGlass Midi-Stil system for scaled down midi-cyanide and other USEPA approved distillations. Complete systems available with heating units that hold either 10 or 14 sets of glassware at one time. Additional features include:

**GLASSWARE** - Complete sets of midi-cyanide glassware, for 10 or 14 position heating units, are supplied with each complete Midi-Stil system. Tygon tubing and quick disconnect fittings for both coolant and vacuum connections are also included. Glassware sets available with 24/40 or 29/42 condenser joints on both sizes. Glassware for phenol, ammonia and fluoride distillations, see R-3166F Series.

### SAVE TIME - SAVE SPACE

6 samples plus QA/QC duplicate, standard, spike and blank.

**ECONOMICAL** - Uses 50 mL of sample; reduces quantity of start-up material and reagent waste by 90%.

**SAVE TIME** - Features digital readout controls for both time and temperature. Automatic shut-off when selected reaction time is complete.

**HEATER UNIT** - Uniform heat to each position. Features digital timer (120 min.) and digital heater control with thermocouple for automatic shut-off. Equipped with indicator lights, solid state relay, 15 amp fuse and high temperature protection switch. 10 position 24"L x 10"W, 14 position 30"L x 10"W, 115V/1000W.

**VACUUM CONTROL** - PTFE needle valve provides accurate control for each absorber tube position.

**COOLANT CONTROL** - Manifold system with flow meter provides even flow of water to each position; all samples are cooled at the same temperature to achieve accurate test results.

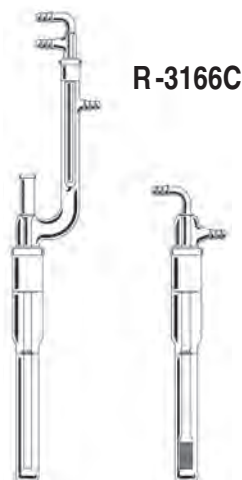
Description	24/40 Catalog No.	29/42 Catalog No.
10 Position Complete System	R-3166MS-100	R-3166MS-200
14 Position Complete System	R-3166MS-105	R-3166MS-205
Heater Unit Only for 10 Point System	R-3166MS-110	
Heater Unit Only for 14 Point System	R-3166MS-115	
1 Individual Set of Glassware Only	R-3166C-100	R-3166C-200

# MIDI-STIL™

## DISTILLATION GLASSWARE

**Performs scaled-down versions of USEPA and other regulatory approved distillation methods; may also be used with other Midi-scale systems.**

**50mL OR LESS OF AQUEOUS SAMPLE  
REDUCE WASTES  
INCREASE LAB SPACE  
50mL PURGE TUBE CAPACITY**



**R-3166C**

### R-3166C DISTILLING APPARATUS, MIDI-CYANIDE

Ref: a. Method 335.2 and 335.4 Contract Lab Program  
Statement of Work 788.  
*Standard Methods 19th Edition - 4500CN C*

Distillation apparatus for removal of interfering substances during quantitative analysis of industrial waste waters, saline and reagent grade water. The reflux distillation process releases cyanide as HCN from cyanide complexes which is absorbed in a scrubber containing a sodium hydroxide solution.

Description	24/40 Joints	29/42 Joints		
Complete Set (1 position)	R-3166C-100		R-3166C-200	
<b>Component Parts Each Set</b>				
Distilling Head, 14/20	R-3166C-120		R-3166C-220	
Condenser, Cold Finger 14/20	R-3166C-125		R-3166C-125	
Dispersion/Absorber Tube, Fritted	R-3166C-130		R-3166C-230	
Purge Tube/Reaction Flask (2 req'd)	R-3166C-135		R-3166C-235	



**R-3166D**

### R-3166D DISTILLATION APPARATUS, MIDI-CYANIDE WITH SULFIDE SCRUBBER

Midi-Cyanide apparatus with addition of a sulfide scrubber between reaction flask and absorber tube. Includes LG-1004 Keck clamps for joints on the sulfide scrubber. Condenser and scrubber dispersion tube joints are 14/20, others are 29/42.

Description	Catalog No.		
Complete Set (1 position)	R-3166D-200		
<b>Component Parts Each Set</b>			
Distilling Head, 14/20, 29/42	R-3166D-220		
Condenser, Cold Finger, 14/20	R-3166C-125		
Dispersion/Absorber Tube, 29/42	R-3166D-230		
Purge Tube/Reaction Flask, 29/42 (2 req'd)	R-3166C-235		
Scrubber Dispersion Tube, 14/20, 29/42	R-3166D-240		
Scrubber Tube 29/42	R-3166D-245		



**R-3166F**

### R-3166F DISTILLING APPARATUS, MIDI-AFP for Ammonia, Fluoride and Phenols

Ref: *Standard Methods 19th Edition - 4500F; 4500 NH<sub>3</sub>B & 5530*

MIDI scale apparatus for quantitative analysis of ammonia, fluoride and phenols in water and waste water. Perform scaled down versions of the referenced methods to reduce costs and minimize waste products and lab space usage.

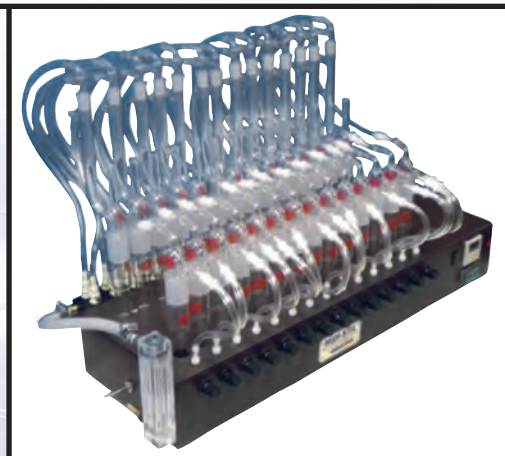
The vacuum jacketed distilling head and skirted purge tube maintains higher vapor temperature required for A, F, P distillations. Design suggested and tested by Dr. David J. Kaptain of Fox Valley Water Reclamation District. Test data available on request.

Description	Catalog No.		
Complete Set (1 position)	R-3166F-200		
<b>Component Parts Each Set</b>			
Distilling Head, 14/20, 29/42 with caps	R-3166F-220		
Condenser, Cold Finger, 14/20	R-3166C-125		
Purge/Reaction Tube, Skirted, 29/42	R-3166F-225		
Receiver Tube, with GL-25 Cap	R-3166F-230		
PTFE Tubing Set	R-3166F-240		



# MIDI-STIL™

Fast and Easy Cyanide Analysis for  
EPA 335.2 and 335.4 Distillations



## MIDI-STIL DISTILLATION SYSTEMS

Our systems are designed and manufactured to the highest quality standards to insure that they provide long and reliable service. They are covered by written warranty as issued with each unit when shipped.

## LOANER SYSTEMS (FREE!)

Wilmad-LabGlass is committed to total customer satisfaction, service, and support. In the unlikely event your system is at our factory for repair or service we will provide a 10 position loaner system at no charge on a first come, first serve basis. These units may also be available for evaluation purposes prior to purchase; contact us for this service.

## REPAIR SERVICE

### System:

Repairs or refurbishing may be preferable and less expensive than purchasing a new system. Repairs are provided free of charge during the specified warranty period. Upon expiration, we will thoroughly evaluate your system after receipt and issue a written quotation for the necessary repairs.

### Glassware:

Our outstanding glass repair service can save you up to 75% of the cost of purchasing a replacement. Additionally, repairs are made by the same skilled workers who manufactured your items; another feature that insures proper adherence to original specifications and tolerances.

## CUSTOMER SERVICE AND SUPPORT

Please contact our customer service team for assistance with any of the above services or to place your order.

**Email:** [cs@wilmad-labglass.com](mailto:cs@wilmad-labglass.com)

**Phone:** 800-220-5171 Press 1



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