

KIMBLE®

MIDI-VAP® 4000 DISTILLATION SYSTEM

Your Applications and Methods Are Served:

- Cyanide (EPA 335.4)
- Ammonia (EPA 350.1)
- Phenol (EPA 420.1)
- American Water Works Association (Method 4500)



**DURAN
WHEATON
KIMBLE**

Excellence in your hands

Save Time! MIDI-VAP 4000 Systems feature a pre-programmed digital controller with automated shut-off when reaction time is completed.

Save Money! MIDI-VAP 4000 Systems use 50 mL of sample. Less start-up material means cost savings to you and less reagent waste for disposal.

Save Space! 10-position manifold heater block requires less than two square feet of lab bench space.



MIDI-VAP 4000 Ammonia and Phenol Distillation System

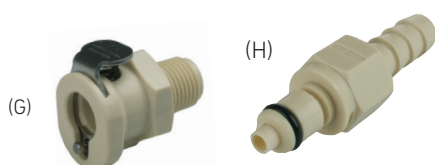
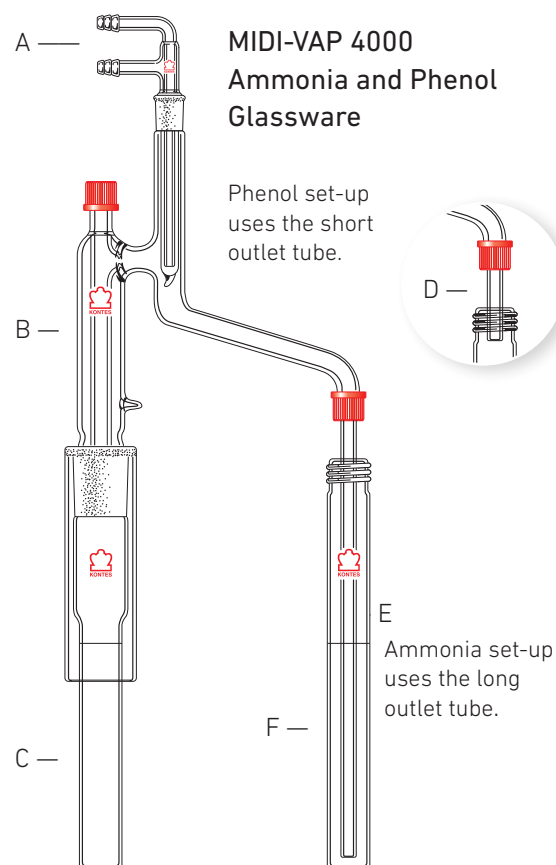
Catalog No.	Description	Case Qty.
479490-4000	MIDI-VAP 4000 Ammonia and Phenol Complete (Includes 10 sets of glassware, heater and pre-cut tubing.)	1
479459-0000	MIDI-VAP 4000 Ammonia & Phenol Glassware, 1 Set	1
479459-0005	MIDI-VAP 4000 Ammonia & Phenol Glassware, 5 Sets	1
720440-4000	MIDI-VAP 4000 Manifold Heater, 115-V (220-V units available. Please call for quote.)	1

MIDI-VAP 4000 Ammonia and Phenol Glassware Set Component Parts

282000-0000	(A) Cold Finger Condenser	1
479456-4501	(B) Distilling Head	1
479470-0050	(C) Reaction Tube with Draft Shield, 50 mL, standard taper 29/42	1
479458-0000	(D) Short Stem Outlet Tube for Phenol	1
479458-0001	(E) Long Stem Outlet Tube for Ammonia	1
479471-0050	(F) Receiver Tube, GL25 Thread with Cap, 50 mL	1
410479-0014	High Temp. Cap, Open Top, Red, GL14 (2 supplied)	10
410480-0014	Sealing Ring, Silicone, for GL14 Cap (2 supplied)	10
410481-0014	Septa, PTFE-Faced, for GL14 Cap (2 supplied)	10

MIDI-VAP 4000 Optional / Replacement Parts

410479-0025	High Temp. Cap, Solid Top, Red, GL25	10
479400-0018	(G) Quick Disconnect, female	5
479400-0014	(H) Quick Disconnect, male	5
479400-0022	Quick Disconnect, Vacuum Tubing	5
479418-0043	Ammonia / Phenol Tubing Kit (includes all fittings)	1





Exclusive Watlow EZ-ZONE Digital Controller

Features

- Pre-programmed heating cycles for dual temperature ranges
 - cyanide setting is 126 °C
 - ammonia and phenols is 165 °C
- Easy three-step setup saves time
- Automatic shutoff at test completion
- Amber light indicates heating in progress
- Easy to read LED display
- Optional temperature programming

Heater Block

Features

- New PTFE gasket prevents spills from entering the interior
- Heavy-duty insulated block facilitates rapid heating
- Isolated wiring eliminates damage from spills
- Easy to adjust needle valves provide accurate control
- Brass hose barbs are impervious to chemical attack
- Consistent, even heating

Reference: EPA/600/R-93/100: METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES

MIDI-VAP 4000 Cyanide Distillation System

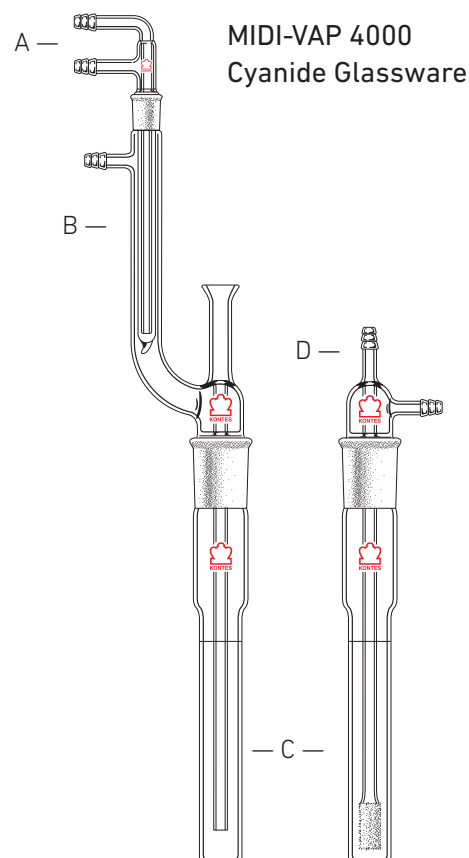
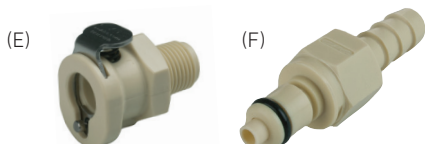
Catalog No.	Description	Case Qty.
479400-4000	MIDI-VAP 4000 Cyanide Complete (Includes 10 sets of glassware, heater and pre-cut tubing.)	1
479460-0000	MIDI-VAP 4000 Cyanide Glassware, 1 Set	1
479460-0005	MIDI-VAP 4000 Cyanide Glassware, 5 Sets	1
720440-4000	MIDI-VAP 4000 Manifold Heater, 115-V (220-V units available. Please call for quote.)	1

MIDI-VAP 4000 Cyanide Glassware Set Component Parts

282000-0000	(A) Cold Finger Condenser	1
479461-0000	(B) Distilling Head	1
479455-0050	(C) Reaction / Absorption Tube, 50 mL, standard taper 29/42 (2 supplied)	1
479462-0023	(D) Absorption Impinger, standard taper 29/42	1

MIDI-VAP 4000 Optional / Replacement Parts

410479-0025	High Temp. Cap, Solid Top, Red, GL25	10
479400-0018	(E) Quick Disconnect, female	5
479400-0014	(F) Quick Disconnect, male	5
479400-0022	Quick Disconnect, Vacuum Tubing	5
479418-0046	Cyanide Tubing Kit (includes all fittings)	1



*220-V, CE certified units available. Please contact your local Kimble Chase sales representative for a quote.

Midi-Phenol and Midi-Ammonia reactions produce toxic HCN gas. Perform these reactions under a well ventilated fume hood.



System Specifications

- Corrosion resistant PTFE-coated case
- 30" x 14.25" footprint
- 115V / 1000W / 20A
- 115V UL / CSA certified
- 220V CE certified
- Overtemp protection switch
- Automatic shutoff

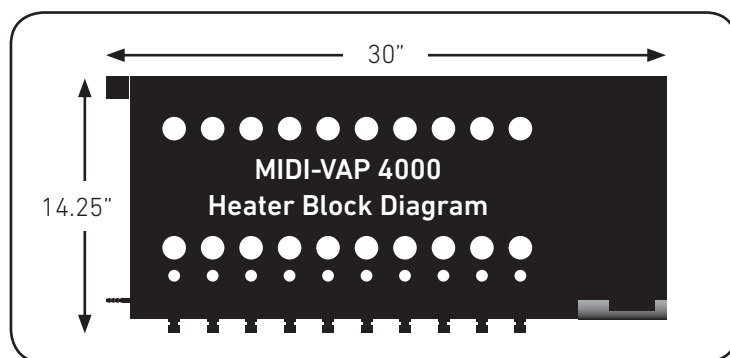
Approximate Dimensions / Weight

Without Glassware: 30" L x 14.25" W x 7.5" H / ~38 lbs.

Assembled with Glassware: 30" L x 14.25" W x 20" H / ~45 lbs.

Tubing

Precut with vacuum quick-disconnect fittings provided.



Accessories for Your MIDI-VAP 4000 Distillation System

Pressure / Vacuum Diaphragm Pump, 25" Hg, 1.1 CFM

A quiet, reliable vacuum source. Protected internal surfaces provide high resistance to corrosion and solvent attack. Supplied complete with a gauge, a regulator, and fittings.

Catalog No.	VAC	Hz	Amps	Case Qty.
923910-0110	115	60	4.2	1

KIMAX® Volumetric Flask with Standard Taper Glass Stopper

- KimCote™ plastic coating
- Single graduation ring - calibrated to contain
- Designed from ASTM Specification E288, Class A unserialized requirements
- Marking spots are durable white ceramic enamel

Catalog No.	Capacity (mL)	±Tol. (mL)	Stand. Taper Stopper	Approx. Height with Stopper (mm)	Case Qty.
KC28014-100	100	0.08	13	180	12
KC28014-250	250	0.12	16	250	12
KC28014-500	500	0.20	19	287	12
KC28014-1000	1000	0.30	22	338	4
KC28014-2000	2000	0.50	27	400	2



KC28014



Plastic-coated glassware for an added measure of safety.



953760

ULTRA-WARE® Heavy Wall Filter Flasks with KimCote® Plastic Coating

- KimCote® plastic coating
- Heavy wall borosilicate glass provides mechanical strength for vacuum filtration

Catalog No.	Capacity (mL)	Rubber Stopper Size	Hose Connection	Case Qty.
953760-0000	1000	8	#2 (for 1/4" ID tubing)	1
953760-2002	2000	8	#2 (for 1/4" ID tubing)	1

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DWK Life Sciences
234 Cardiff Valley Road
Rockwood, TN 37854
United States

US & Canada: 800.451.4351
Int'l: 865.717.2600
www.DWK-LifeSciences.com