

# ROTARY EVAPORATORS

## CG-1318 ROTARY EVAPORATOR ADAPTER, VIAL

Adapters permit the connection of standard laboratory dram sample vials directly to the vapor tube or a bump trap of a rotary evaporator. With a top outer joint of the listed size and a 20-400 G.P.I. thread at the bottom. A Teflon lined, polypropylene double threaded connector attaches the vial to the adapter.

*Kits are now available complete with the glass adapter and the 6 sizes of the double threaded adapter, packaged in a divided plastic box.*

For help in selecting thread sizes, please see the chart below.

### Complete Kits:

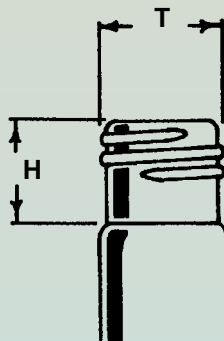
Part Number	Description
CG-1318-40	24/40 Glass Adapter Complete with all 6 threaded Vial adapters, 13-425, 15-425, 18-425, 20-400, 22-400, 24-400
CG-1318-41	29/26 Glass Adapter Complete with all 6 threaded Vial adapters, 13-425, 15-425, 18-425, 20-400, 22-400, 24-400
CG-1318-42	29/42 Glass Adapter Complete with all 6 threaded Vial adapters, 13-425, 15-425, 18-425, 20-400, 22-400, 24-400
CG-1318-30	Threaded Vial Adapters Only, 13-425, 15-425, 18-425, 20-400, 22-400, 24-400

### Replacement Components:

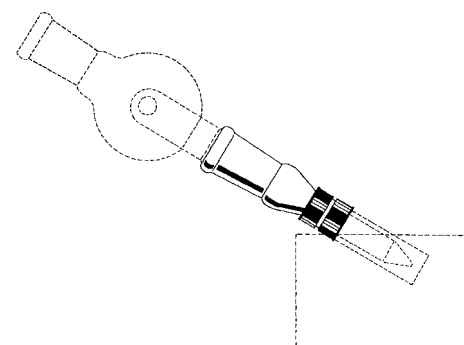
Part Number	Description
CG-1318-10	24/40 Glass Adapter Only
CG-1318-11	29/26 Glass Adapter Only
CG-1318-12	29/42 Glass Adapter Only
CG-1318-20	Connector to Fit 13-425 Vials
CG-1318-21	Connector to Fit 15-425 Vials
CG-1318-22	Connector to Fit 18-425 Vials
CG-1318-23	Connector to Fit 20-400 Vials
CG-1318-24	Connector to Fit 22-400 Vials
CG-1318-25	Connector to Fit 24-400 Vials
CG-1318-99	Special Connector to Fit Haystack Vial with white polypro cap

### Thread Selection Guide:

"T" mm	"H" mm			
	400	410	415	425
13	--	--	11.2	7.5
15	--	--	13.9	7.5
18	9.0	13.0	15.4	--
22	9.5	14.6	21.0	--
24	10.2	16.0	24.0	--



FOR VIAL THREADS SEE PAGE 590.

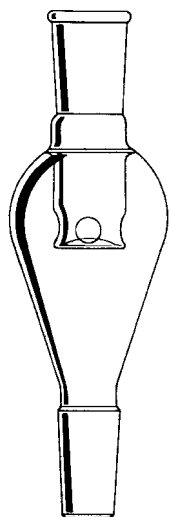


CG-1318



Complete Kit

# EVAPORATOR BUMP TRAPS



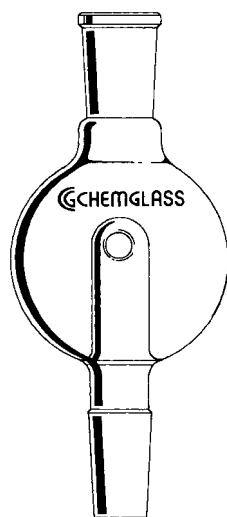
**CG-1319**

## CG-1319 ROTARY EVAPORATOR BUMP TRAP, SELF WASHING

Trap is designed to eliminate hold up common to the round style of rotary evaporator traps. Tapered sidewalls permit continuous washing with condensed solvent while preventing vapor cooling points along the path of the condenser. The upper stem has 4 large holes flush with the lower end, allowing solvent vapor to flow freely and making this portion of the trap easy to clean. The increased volume of the trap prevents “bumping” and keeps solvent out of the vapor tube.

Part Number	Capacity (mL)	Top Outer Joint	Lower Inner Joint
CG-1319-01	100	24/40	14/20
CG-1319-02	100	24/40	24/40
CG-1319-05	100	24/40	29/26
CG-1319-03	250	24/40	14/20
CG-1319-04	250	24/40	24/40

**CG-1319 BUMP TRAPS ARE AVAILABLE PLASTIC COATED. PLEASE CONTACT TECHNICAL SERVICE FOR DETAILS.**



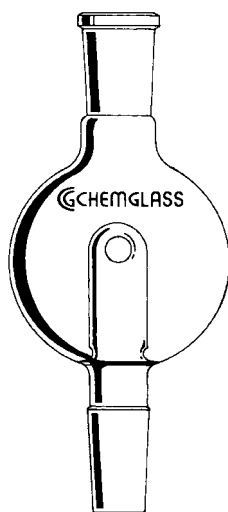
**CG-1320**

## CG-1320 ROTARY EVAPORATOR BUMP TRAP

Used between the vapor tube and evaporation flask on a rotary evaporator to prevent contents of the flask from being drawn into the condenser in the event of “bumping.” Traps have a 24/40 top outer joint and the listed size of lower inner joint.

Part Number	Capacity (mL)	Lower Inner Joint Size
CG-1320-01	100	14/20
CG-1320-03	100	24/40
CG-1320-04	250	14/20
CG-1320-06	250	24/40
CG-1320-11	250	29/26
CG-1320-12	250	29/42
CG-1320-07	500	14/20
CG-1320-09	500	24/40
CG-1320-13	500	29/26
CG-1320-14	500	29/42
CG-1320-10	1000	24/40

**CG-1320 BUMP TRAPS ARE AVAILABLE PLASTIC COATED. PLEASE CONTACT TECHNICAL SERVICE FOR DETAILS.**



**CG-1321**

## CG-1321 ROTARY EVAPORATOR BUMP TRAP, MODIFIED

Similar to CG-1320, but with the addition of two 4mm drain holes at the base of the inner tube to allow solvent to drain back into the evaporation flask. Traps have a 24/40 top outer joint and the listed size of lower inner joint.

Part Number	Capacity (mL)	Lower Inner Joint Size
CG-1321-01	100	14/20
CG-1321-03	100	24/40
CG-1321-04	250	14/20
CG-1321-06	250	24/40
CG-1321-11	250	29/26
CG-1321-12	250	29/42
CG-1321-07	500	14/20
CG-1321-09	500	24/40
CG-1321-13	500	29/26
CG-1321-14	500	29/42
CG-1321-10	1000	24/40

**CG-1321 BUMP TRAPS ARE AVAILABLE PLASTIC COATED. PLEASE CONTACT TECHNICAL SERVICE FOR DETAILS.**

# EVAPORATOR BUMP TRAPS

## CG-1322 ROTARY EVAPORATOR BUMP TRAP, MODIFIED

Trap provides expanded volume for reactions that have a tendency to foam excessively. The inner vapor tube is sealed to the top of the trap to prevent entry into the condenser. Traps have a 24/40 top outer joint and the listed size of lower inner joint.

Part Number	Capacity (mL)	Lower Inner Joint Size
CG-1322-01	100	14/20
CG-1322-03	100	24/40
CG-1322-04	250	14/20
CG-1322-06	250	24/40
CG-1322-11	250	29/26
CG-1322-12	250	29/42
CG-1322-07	500	14/20
CG-1322-09	500	24/40
CG-1322-13	500	29/26
CG-1322-14	500	29/42
CG-1322-10	1000	24/40

CG-1322 BUMP TRAPS ARE AVAILABLE PLASTIC COATED.  
PLEASE CONTACT TECHNICAL SERVICE FOR DETAILS.

## CG-1323 ROTARY EVAPORATOR BUMP TRAP, FRITTED

Trap has an extra coarse fritted disc sealed between the lower inner and top outer joint to prevent contents of the flask from entering into the condenser in the event of bumping. All traps have a 24/40 top outer joint and the listed size of the lower inner joint.

Part Number	Lower Inner Joint Size
CG-1323-20	14/20
CG-1323-21	24/40
CG-1323-22	29/26
CG-1323-24	29/42

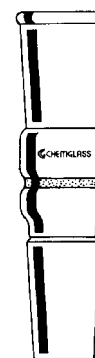
## CG-1326 CONDENSER, "A" ASSEMBLY, FOR ROTARY EVAPORATORS, PLASTIC COATED

Double coil condenser for use with rotary evaporators for cooling with tap water in a diagonal position. Condenser has a 50mm O.D. flange at the bottom, a 19/38 top valve, and removable hose connections using GL-14 glass threads. Condenser is supplied complete with plastic caps and serrated hose connections.

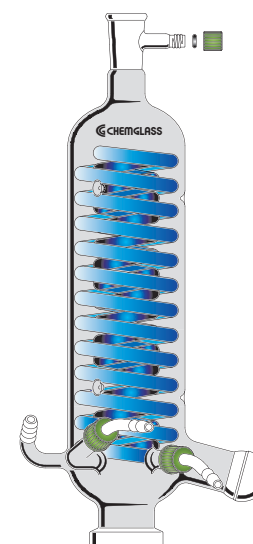
Part Number	Buchi® Part Numbers
CG-1326-10	32303,40633



CG-1322

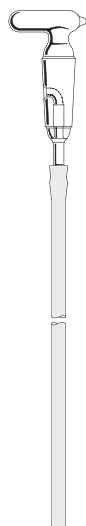


CG-1323



CG-1326

# EVAPORATOR INLETS, VAPOR DUCT

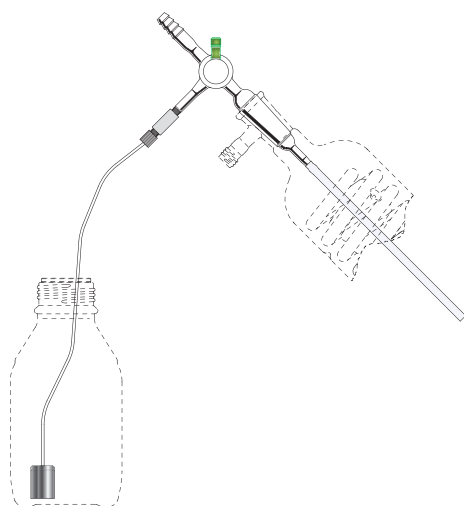


CG-1327

## CG-1327 INLET STOPCOCK PLUG WITH TEFLON TUBE

Inlet feed stopcock for "A" assemblies with a 19/38 joint, 90° bore stopcock and Teflon extension tubing.

Part Number	Buchi® Part Numbers
CG-1327-20	32303,40633



CG-1327

## CG-1327 ADAPTER, FRITTED INLET FEED FOR ROTARY EVAPORATOR\*\*

Adapter eliminates the need for a separate filtration step to remove drying agents or other particulate matter from organic solutions prior to rotary evaporation. The design stops the leakage of stopcock grease and/or organic residues into the joint which could lead to a frozen joint or loss of product to the waste flask. The ferrule style connection eliminates o-ring connections which are prone to degradation with long term exposure to organic solvents. Adapter is compatible with any continuous feed rotary evaporator having a 19/38 outer joint.

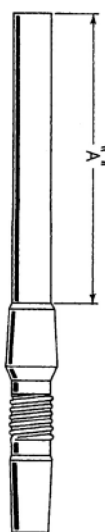
### Complete Apparatus:

Part Number	Description
CG-1327-30	Inlet Feed Adapter, Fritted, 19/38

### Replacement Components:

Part Number	Description
CG-1327-31	Glass Portion Only
CG-1327-32	Tefzel Union 1/4"-28 Thread
CG-1327-34	Teflon Tubing, 1/8" O.D. x 24" Long
CG-1327-36	Solvent Inlet Filter, 20um
CG-1327-21	Teflon Tubing, 5mm I.D. x 12"
CG-436-67	Replacement Teflon Stopcock Plug

\*\*Design suggested by Dr. Greg Reichard, Jim Spitler and Joe Lee, Schering Plough Research Institute, Kenilworth, NJ.



CG-1317

## CG-1317 VAPOR DUCT, ROTARY EVAPORATOR

Replacement vapor duct for Buchi rotary evaporators. Thread is made for use with standard Buchi® Combi-Clip. **NOT SUPPLIED WITH COMBI-CLIP.**

Part Number	Joint Size	Buchi® Part Number(s)	Dimension "A"
CG-1317-10	24/40	32335	45mm
CG-1317-11	24/40	32336	160mm
CG-1317-12	29/42	32337	45mm
CG-1317-13	29/42	32338	160mm

# ROTARY EVAPORATOR COMPONENTS

## CG-1317-A ROTARY EVAPORATOR JOINT ADAPTER KECK CLIP

Replacement joint adapter for Buchi® R-200/205 rotary evaporators. Adapters have a 50mm OD top flange with a tapered interior to fit the Buchi® sealing ring. Lower portion of the adapter has the listed standard taper inner joint. Each tube is supplied complete with the corresponding size Keck clip.

**NOTE: ITEMS WILL REPLACE THE BUCHI® PART NUMBERS AS LISTED.**

*Chemglass items are to be used with the Keck clip, not the Buchi® Combi-clip.*

Part Number	Joint Size	Buchi® Part Number(s)
CG-1317-A-10	24/40	40616
CG-1317-A-12	29/42	40617

## CG-1317-B ROTARY EVAPORATOR JOINT ADAPTER WITH BUMP TRAP

Joint adapter/bump trap is designed to be used with the Buchi® R-200/205 rotary evaporators. Tapered sidewalls permit continuous washing with condensed solvent, while preventing vapor cooling points along the path of the condenser. The upper stem has 2 large holes flush with the lower end, allowing solvent vapor to flow freely, making this portion of the trap easy to clean. Adapters have a 50mm OD top flange with a tapered interior to fit the Buchi® sealing ring. Lower portion of the adapter has the listed standard taper inner joint. Each adapter is supplied complete with the corresponding size Keck clip.

**NOTE: ITEMS WILL REPLACE THE BUCHI® PART NUMBERS AS LISTED.**

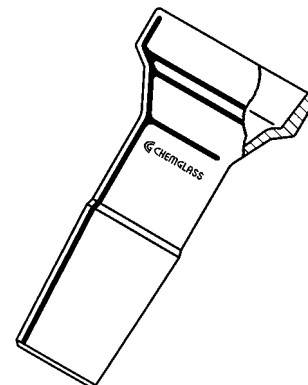
*Chemglass items are to be used with the Keck clip, not the Buchi® Combi-clip.*

Part Number	Joint Size	Buchi® Part Number(s)
CG-1317-B-10	24/40	40668
CG-1317-B-11	29/42	-----

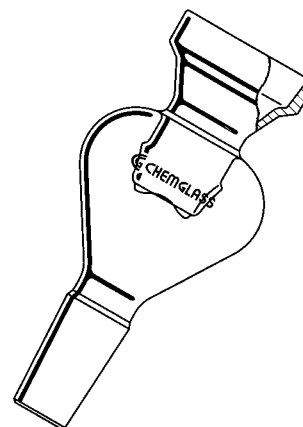
## CG-1317-C ROTARY EVAPORATOR JOINT ADAPTER FRITTED

Joint adapter /bump trap adapter is designed to be used with the Buchi® R-200/205 rotary evaporators. Has an extra coarse fritted disc sealed between the lower inner joint and the top flange. Adapters have a 50mm OD top flange with a tapered interior to fit the Buchi® sealing ring. Lower portion of the adapter has the listed standard taper inner joint. Each adapter is supplied complete with the corresponding size Keck clip.

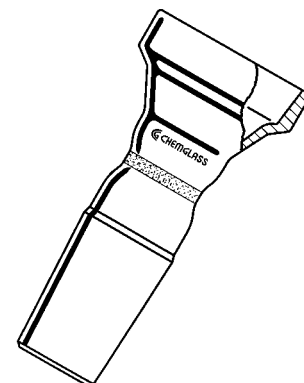
Part Number	Description
CG-1317-C-10	24/40 Vapor tube/Trap Adapter, Fritted
CG-1317-C-12	29/42 Vapor tube/Trap Adapter, Fritted



CG-1317-A

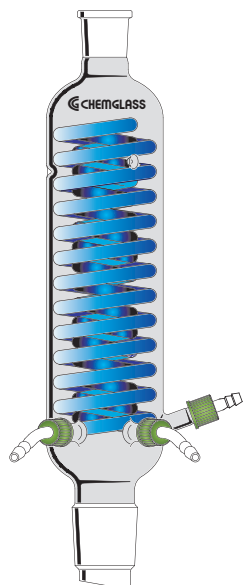


CG-1317-B



CG-1317-C

# EVAPORATOR CONDENSERS

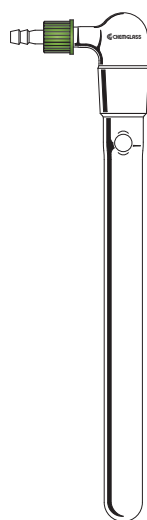


**CG-1329**

## CG-1329 CONDENSER, "S" ASSEMBLY, FOR ROTARY EVAPORATORS, PLASTIC COATED

Double coil condenser for use with rotary evaporators for cooling with tap water in a vertical position. Condenser has a 45/40 lower inner drip tip joint, a 29/26 top outer joint, and removable hose connections using GL-14 glass threads. Condenser is supplied complete with plastic caps and serrated hose connections.

Part	Buchi® Part
<u>Number</u>	<u>Numbers</u>
<b>CG-1329-10</b>	<b>00659</b>



**CG-1331**

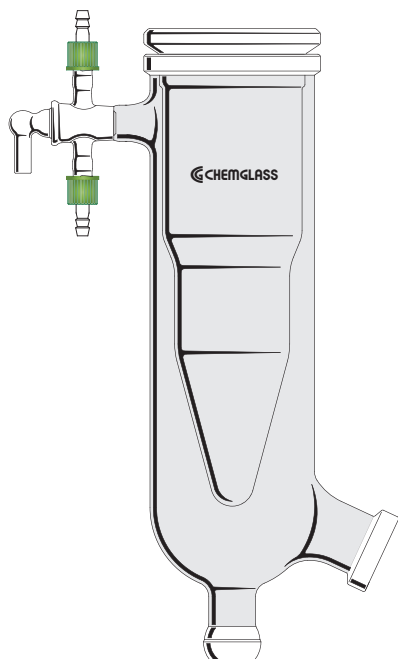
## CG-1331 VACUUM CONNECTION

Vacuum connection with a 29/26 joint for use with " S " assemblies.

Part	Buchi® Part
<u>Number</u>	<u>Numbers</u>
<b>CG-1331-10</b>	<b>00661</b>

## CG-1333 CONDENSER, "C" ASSEMBLY, FOR ROTARY EVAPORATORS, PLASTIC COATED

Two piece cold trap style condenser for use with rotary evaporators. Condenser has a 50mm flange on the side, a 35/20 lower ball joint, a 19/38 stopcock plug and removable hose connections using GL-14 threads. Condenser is supplied complete with Teflon centering ring along with plastic caps and serrated hose connections. Plastic coating is on the outer sleeve of the condenser only.



**CG-1333**

### Condenser Complete:

Part	Buchi® Part
<u>Number</u>	<u>Numbers</u>
<b>CG-1333-10</b>	<b>32352, 40643</b>

### Replacement Components:

Part	Buchi® Part	Description
<u>Number</u>	<u>Number(s)</u>	
<b>CG-1333-11</b>	<b>23532, 40643</b>	<b>Outer Sleeve Only</b>
<b>CG-1333-13</b>	<b>00672</b>	<b>Inner Cold Finger Only</b>
<b>CG-1333-14</b>	<b>27462</b>	<b>Teflon Centering Ring</b>
<b>CG-1333-15</b>	<b>00677, 040628</b>	<b>Stopcock Plug Only</b>
<b>CG-1333-20</b>	<b>27479</b>	<b>UHMW Lid</b>

# EVAPORATOR CONDENSERS

## CG-1333-A CONDENSER, "C" ASSEMBLY, CONSTANT FEED, PLASTIC COATED

Two piece cold trap style condenser for use with rotary evaporators. Condenser has an additional 19/38 outer joint sealed onto the condenser to allow continuous feed of volumes exceeding the capacity of the evaporating flask. The 19/38 joint is sealed at an angle which allows the condensate to fall into the receiving flask without running down the addition tube into the evaporating flask. This continuous feed feature eliminates the need for a separate filtration step to remove drying agents or other particulate matter from organic solutions prior to rotary evaporation. The ferrule style connection eliminates o-ring connections, which are prone to degradation with long term exposure to organic solvents. Condenser is supplied complete with all fittings necessary to connect the continuous feed feature along with our new style Teflon centering ring which makes a vacuum tight seal between the inner cold finger and the plastic coated outer sleeve. Also supplied with a UHMW lid with knob.

### Complete Condenser:

Part Number	Buch® Part Number(s)	Description
CG-1333-A-01	32352, 40643	Condenser, Complete

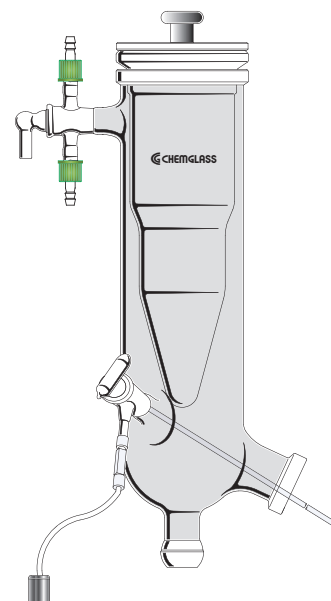
### Replacement Components:

Part Number	Buchi® Part Number(s)	Description
CG-1333-A-02	23532,40643	Outer Sleeve Only
CG-1333-13	00672	Inner Cold Finger Only
CG-1333-14	27462	Teflon Centering Ring, New Style
CG-1333-A-15	----	Stopcock Plug Only, 1/4"-28 Thread
CG-1327-32	----	Tefzel Union, 1/4"-28 Thread
CG-1333-20	27479	UHMW Lid with knob
CG-1327-34	28096	Teflon Tubing, 1/8" x 24" Long
CG-1327-36	----	Solvent Inlet Filter, 20um
CG-1164-F-02	----	Ferrule, Tefzel, 1/8" Tubing
CG-1164-N-02	----	Nut, Tefzel, 1/8" Tubing

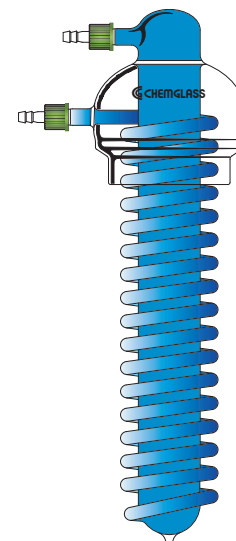
## CG-1332 COIL CONDENSER INSERT, "C" TYPE

Insert allows the conversion of a "C" type dry ice condenser for use with either tap water or a chilled circulator. Inlet and outlet are GL-14 threads and supplied complete with caps and detachable hose connections. Also supplied with a Teflon centering ring.

Part Number	Description
CG-1332-10	Coil Condenser Insert

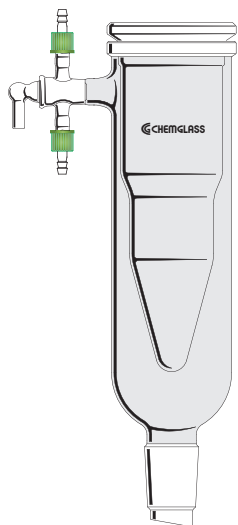


CG-1333-A

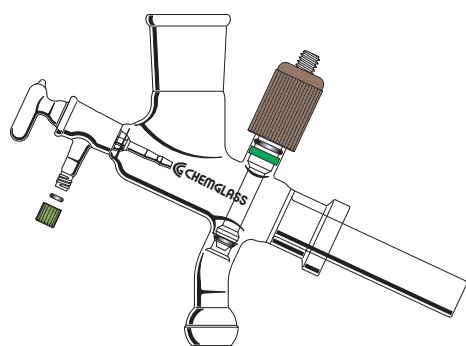


CG-1332

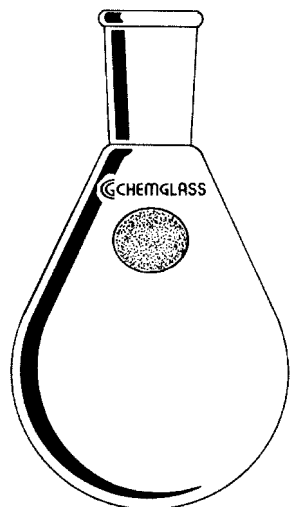
# EVAPORATOR CONDENSERS



CG-1335



CG-1335-D



CG-1512

## CG-1335 COIL CONDENSER "CR" ASSEMBLY, FOR ROTARY EVAPORATORS, PLASTIC COATED

Two piece cold trap style condenser for use with rotary evaporators. Condenser has a 45/40 lower inner drip joint, a 19/38 stopcock plug, and removable hose connections using GL-14 threads. Condenser is supplied complete with Teflon centering ring along with plastic caps and serrated hose connections. Plastic coating is on the outer portion of condenser only.

### Condenser Complete:

Part Number	Buchi® Part Number(s)
CG-1335-10	33478

### Replacement Components:

Part Number	Buchi® Part Number(s)	Description
CG-1335-11	11228	Outer Sleeve Only
CG-1333-13	00672	Inner Cold Finger Only
CG-1333-14	27462	Teflon Centering Ring
CG-1333-15	00677	Stopcock Plug Only
CG-1333-20	27479	UHMW Lid with knob

## CG-1335-D DISTRIBUTION ADAPTER, FOR ROTARY EVAPORATORS "CR" AND "S" ASSEMBLIES

Adapter for use with both "CR" and "S" assemblies. Complete with solvent shut off valve and GL-10 cap.

Part Number	Buchi® Part Number(s)	Description
CG-1335-D-01	32021	Distribution Adapter

## CG-1512 FLASK, EVAPORATING, SINGLE NECK

Evaporating flask for use with rotary evaporators. Flasks have a *HEAVY WALL* for vacuum applications and are balanced to prevent run-out during rotation. **FLASKS WITH 24/40 JOINTS HAVE A SQUARE REINFORCING BEAD.** For Plastic coated flasks, see CG-1512-P.

Part Number	Capacity (mL)	Joint Size
CG-1512-01	50	24/40
CG-1512-40	50	29/26
CG-1512-02	50	29/42
CG-1512-03	100	24/40
CG-1512-27	100	29/26
CG-1512-04	100	29/42
CG-1512-05	200	24/40
CG-1512-29	200	29/26
CG-1512-06	200	29/42
CG-1512-07	500	24/40
CG-1512-31	500	29/26
CG-1512-08	500	29/42
CG-1512-09	1000	24/40
CG-1512-33	1000	29/26
CG-1512-10	1000	29/42
CG-1512-35	2000	24/40
CG-1512-37	2000	29/26
CG-1512-39	2000	29/42

# EVAPORATING FLASKS

## CG-1512-P FLASK, EVAPORATING, SINGLE NECK, PLASTIC COATED

Similar to CG-1512, but plastic coated to prevent injury from broken glass and prevents spillage of hazardous materials. **FLASKS WITH 24/40 JOINTS HAVE A SQUARE REINFORCING BEAD.**

Part Number	Buchi® Part Number(s)	Capacity (mL)	Joint Size
CG-1512-P-01	----	50	24/40
CG-1512-P-03	----	100	24/40
CG-1512-P-05	----	200	24/40
CG-1512-P-07	25261	500	24/40
CG-1512-P-09	20730	1000	24/40
CG-1512-P-35	25262	2000	24/40

## CG-1508-P FLASK, RECEIVING, SPHERICAL JOINT, PLASTIC COATED

Round bottom, HEAVY WALL single short neck flask for use on rotary evaporators for receiving distillate. Joint at the top of the flask is a 35/25 socket. Plastic coated to prevent injury from broken glass while preventing spillage of hazardous materials.

Part Number	Buchi® Part Number(s)	Capacity (mL)	Joint Size
CG-1508-P-34	20728	1000	35/25
CG-1508-P-35	25265	2000	35/25
CG-1508-P-36	25266	3000	35/25

## CG-1337 FLASK, EVAPORATING, LARGE SCALE, FLANGED

Flasks to fit large scale rotary evaporators. Flasks have a heavy wall for vacuum applications and are balanced to prevent run-out during rotation. Available plain or plastic coated to prevent injury from broken glass while preventing spillage of hazardous materials.

### To select the proper flask for your evaporator:

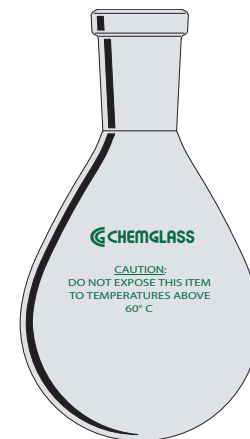
- Determine the size flange required from the chart below.
- Match the overall height with the capacity required.

### Flange Dimensions:

(In mm)

Flange Size	A. Flange O.D.	B. Flange I.D.	C. Flange Thickness
90mm	90	66	19.8
100mm	100	74	19.6
110mm	110	84	24.5
140mm	140	119	21.0
145mm	145	119	21.0
150mm	150	118	23.0
210mm	210	176	33.0

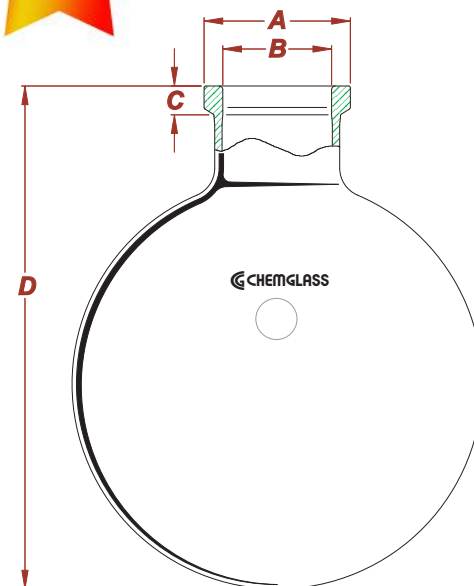
Capacity Liters	Flange O.D.	Overall Height (mm)	Plain Part Number	Plastic Coated Part Number
10	90	350	CG-1337-01	CG-1337-20
10	100	335	CG-1337-02	CG-1337-21
10	100	413	CG-1337-03	CG-1337-22
10	110	410	CG-1337-04	CG-1337-23
10	140	410	CG-1337-10	CG-1337-29
10	145	415	CG-1337-11	CG-1337-30
10	150	415	CG-1337-08	CG-1337-27
10	210	375	CG-1337-12	CG-1337-31
20	100	385	CG-1337-05	CG-1337-24
20	100	435	CG-1337-06	CG-1337-25
20	110	435	CG-1337-07	CG-1337-26
20	140	435	CG-1337-13	CG-1337-32
20	145	440	CG-1337-14	CG-1337-33
20	150	440	CG-1337-09	CG-1337-28
20	210	450	CG-1337-15	CG-1337-34



CG-1512-P



CG-1508-P



CG-1337