



CARBON PURIFICATION CHAMBERS

357

R-102P

FOR GRANULAR CARBON OR MAXI-CARB POWDERED CARBON CARTRIDGES

- **Bulk Carbon Chamber**
for maximum amount of granular carbon
- **Carbon Canister Chamber**
for convenient refill of granular carbon and interchangeability with C528PE or C548PE powdered carbon cartridges.

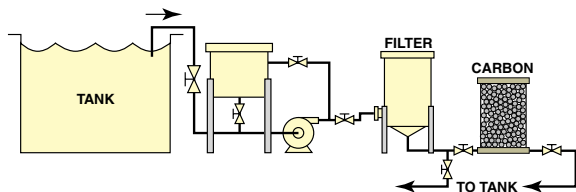
Carbon purification chambers offer a simple, low-cost, but effective method of removing organic impurities from plating baths and other chemical solutions.

- **Smoother, brighter deposits**
- **Fewer rejects**
- **Reduced tank downtime**

Connect to your existing filtration system for continuous carbon treatment. Recommended installation (shown below) provides side-stream flow through carbon for best control of results. One or two months of operation is not unusual before carbon change is necessary.



Complete matched systems — pump, filter, carbon chambers — are available to meet any size and type of production requirement.





CARBON PURIFICATION CHAMBERS specifications

MODEL	SERIES	FLOW ¹ GPM	TRAP ² FILTER	CARBON CAPACITY		PRICE CODE NUMBER		
				Cu. ft.	Lbs.	PVC	CPVC	PP
SERIES 'S' & 'G' FOR BULK GRANULAR CARBON								
CL630CS 1-G3	S	2 - 6	(1) Screen	.42	13	78-1424	78-1424 C	78-1424 PP
CL630CS 1B-G3	S	(Same as above w/bracket)		.42	13	78-1425	78-1425 C	78-1425 PP
CL1230CSIO 1½-G3A	G	5 - 25	(3) Screens	1.6	50	78-1923 P	78-1923 C	78-1923 PP

Chamber made of CPVC, PVC or PP with polypropylene trap screens. Swing bolt cover closure and pressure gauge with diaphragm guard. **When ordering PVC chamber, change CL to PL in Model Number. To order PP chamber, change CL to PPL.**

SERIES 'S' & 'G' w/CANISTER FOR GRANULAR CARBON³				Canister	Lbs.	PVC	CPVC
CL1(528P)CCS 1-G3	S	1 - 5	(1) 03U10U	1	7	78-1427	78-1427 C
CL3(528P)CCSIO 1½-G3A	G	3 - 15	(3) 03U10U	3	21	78-1913 P	78-1913 C
CL3(548P)CCSIO 1½-G3A	G	6 - 15	(3) 03U20U	3	36	78-1915 P	78-1915 C

Chamber made of CPVC or PVC with PVC canister with Saran® inlet screen and a built-in trap filter. Swing bolt cover closure and pressure gauge with diaphragm guard. **When ordering PVC chamber, change CL to PL in Model Number.**

SERIES 'S' & 'G' w/MAXI-CARB CARTRIDGE				Cartridge	Lbs.	PVC	CPVC	PP
CL1(528M)CS 1-G3	S	1 - 5	—	1	3	78-1626	78-1626 C	78-1626 PP
CL3(528M)CSIO 1½-G3A	G	3 - 15	—	3	9	78-1963 P	78-1963 C	78-1963 PP
CL3(548M)CSIO 1½-G3A	G	6 - 15	—	3	17	78-1965 P	78-1965 C	78-1965 PP

Chamber made of CPVC, PVC or polypropylene. Swing bolt cover closure and pressure gauge with diaphragm guard. **When ordering PVC chamber, change CL to PL in Model Number. To order PP chamber, change CL to PPL.**

SERIES 'HF' w/CANISTER FOR GRANULAR CARBON³				Canister	Lbs.	PVC
PL7(528P)CCS 2-G3A	HF	10 - 35	(7)03U10U	7	49	78-1669 P
PL7(548P)CCS 2-G3A	HF	10 - 35	(7)03U20U	7	84	78-1670 P

Chamber made of PVC with PVC canister with Saran® inlet screen and a built-in trap filter. Swing bolt cover closure and pressure gauge with diaphragm guard.

¹ Design flow rates may vary, but the lower value offers the maximum adsorbency and the most efficient purification for each gallon processed.

² To order trap filter cartridges, see Bulletin M-109

³ May also be used with C528PE and C548PE powdered carbon cartridges. See Bulletin M-305. (Ordered separately)

INITIAL AND REPLACEMENT CARBON

GRANULAR ACTIVATED CARBON					
Activated with steam for high adsorption capacity Available in 10 or 50 pound drums					
COAL BASED			COCONUT SHELL BASED		
HIGH MACRO POROSITY, MORE EASILY IMPREGNATED			HIGH MICRO POROSITY & HARDNESS, LOW ASH CONTENT		
8 x 30 MESH STANDARD	LBS.	PCN	12 x 30 MESH 99.5%+ SULFUR FREE	LBS.	PCN
	10	99-0992		10	99-0992
	50	99-0995		50	99-0995

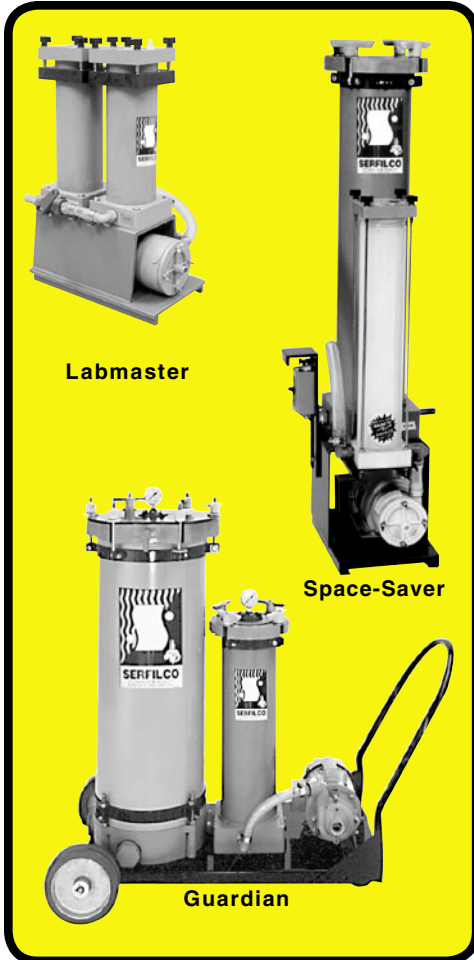
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CARBON PURIFICATION SYSTEMS

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R-103K



THE BEST AND LOWEST COST WAY TO PURIFY BRIGHT NICKEL, ACID COPPER AND SIMILAR SOLUTIONS.

- **Modular design accommodates custom requirements**
- **Eliminates down-time**
- **Compact pre-engineered systems can be used on multiple baths thus saving in equipment cost**
- **Systems are adaptable to almost any type of use:** Continuous or intermittent, total or partial flow, with or without pre-filtering
- **Leakproof assembly, easy servicing**
- **Magnetic-coupled pump**
- **Available for use with:** Bulk carbon, carbon canister or carbon cartridges
- **Optional pre-filter**

Granular Carbon Purification Systems provide a simple, economical and efficient method of removing organic impurities from electroplating or other chemical solutions.

Three product lines are offered: Labmaster, Space-Saver, and Guardian. The user can choose the particular model that is right for his/her application, flow rates, and the degree of solution purity required. Carbon canisters include trap filter.

Connect the Carbon Purification System to your plating tank to achieve efficient organic removal. Select a system with replaceable carbon cartridges or with a chamber which has removable and refillable bulk carbon canister. The latter also accept C528PE powdered carbon cartridges which are interchangeable with the canisters.

Seal-less, leak-proof pumps are rugged enough for continuous duty in systems that require total flow through the carbon chamber for effective organic removal, or they can be used at partial flow, as required. Units can be connected to a plating bath for continuous carbon treatment, then disconnected and used on another tank. Thus, one system can serve several tanks.

Pre-filters, offered optionally, protect the carbon from contamination by efficient removal of solid impurities that could render the carbon inefficient.

Larger and custom systems available to meet your particular application. Consult Sales Dept. for assistance.



The following systems are designed for full flow through a filter and purification chamber. These systems are usually used in conjunction with filtration systems which are sized to remove the bulk of solids

from the solution being treated. Therefore, the filters offered on these systems are sized to hold only the solids which have not been picked up with the main filter.

MODEL NUMBER	FLOW RATE ¹ GPM	MAX. PSI	CARBON CHAMBER MEDIA ^{3, 4}	PRE-FILTER CHAMBER CARTRIDGES ⁴	DIM. LxWxH Inches	MOTOR ² TEFC HP	PRICE CODE NUMBER
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LABMASTER® FOR CARBON CARTRIDGES WITH PRE-FILTRATION

PCL10 x PCL10CC ½V APSV	1 - 2	9	1 of CU10P	1 of 15U10U	10 x 7 x 23	1/12	S-0385 B
PCL20 x PCL20CC ½V APSV	1 - 4		1 of CU20P	1 of 15U20U	10 x 7 x 33		S-0386 B
PCL30 x PCL30CC ½V APSV	1½ - 5		1 of CU30P	1 of 15U30U	10 x 7 x 43		S-0387 B

Systems consist of two clear PVC chambers; the first for depth cartridges, the second for carbon cartridges. The pump is magnetic-coupled, made of glass-filled polypropylene. Reinforced vinyl

hoses, 6 ft. suction and 6 ft. discharge with CPVC fittings included. System is mounted on a corrosion resistant base.

SPACE-SAVER® WITH CANISTER FOR CARBON WITHOUT OR WITH PRE-FILTRATION

							w/CPVC Chamber	w/PVC Chamber*	
CL1(528)S ¾V BPSV-G3	1½ - 5	13	7 lbs. carbon for 1 canister	-	3 of 15U10U	13 x 9 x 47	1/6	S-0413 A	S-0413 AA
CL1(528)S x PCL30 ¾V BPSV-G3								S-0414 A	S-0414 AA

Systems are assembled without or with clear PVC pre-filter chamber for depth cartridges as indicated and a CPVC carbon chamber with one PVC refillable canister with trap filter for granular carbon. The pump is magnetic-coupled, made of glass-filled polypropylene. Reinforced vinyl hoses, 10 ft. suction and 10 ft. discharge, CPVC and

polypropylene fittings. System, mounted on a corrosion resistant base, includes -G3 pressure gauge on polypropylene gauge guard with EPDM diaphragm.

* For PVC – change **CL** to **PL** in model number.

GUARDIAN® WITH CANISTERS FOR CARBON WITHOUT OR WITH PRE-FILTRATION

								w/CPVC Chamber	w/PVC Chamber*
CL3(528P)CCS ¾C MPLCR 1A-C.5-G3A	4½ - 15	22	21 lbs. carbon for 3 canisters	-	6 of 15U10U	33 x 18 x 53	1/2	S-0357 F	S-0357 FA
CL3(528P)CCS x CL60(2)S ¾C MPLCR1A-C.5-G3A								S-0358 F	S-0358 FA

Systems are assembled without or with CPVC or PVC pre-filter chamber for depth cartridges as indicated and a CPVC carbon chamber with three PVC refillable canisters with trap filter for granular carbon. The pump is magnetic-coupled, made of polypropylene. Reinforced vinyl

hoses, 10 ft. suction and 10 ft. discharge, CPVC and polypropylene fittings. System, mounted on an FRP base, includes -G3A pressure gauge on polypropylene gauge guard with EPDM diaphragm and CPVC air release valve. * For PVC – change **CL** to **PL** in Model Number.

OPTIONAL	ADD TO MODEL	PRICE CODE NO.
Portable - addition of two wheels For Labmaster 20" & 30" models and Space-Saver -two fixed wheels, two swivel casters For Guardian	- P - P	O-0191 O-0454
Flow control valve on pump discharge 1½" for Labmaster ¾" for Space-Saver, Guardian	-V1 -V1	O-CV12 O-0984
Motor starter with overload protection, push button, waterlight, Optional 3-phase (for all systems except Labmaster)	-ST4	O-MS1P O-MS3P
Operating voltage - under 1 HP, 3-phase motor (except Labmaster)	-	O-3PH
50 Hz operation - Consult Sales Dept.	-	-

¹ Design flow rates may vary, but the lower value offers the maximum adsorbency and the most efficient purification for each gallon processed.

² All motors are 115/230V/1/60, 3450 RPM and include 8 ft. of 3-wire cord and plug. Motors are wired for 115V operation, unless otherwise requested.

³ (528P) canister includes 03U10U trap filter cartridge.

⁴ Filter cartridges, carbon cartridges and bulk carbon must be ordered separately. To order: Filter cartridges, see Bulletin M-109

Carbon cartridges, see Bulletin M-109
Bulk carbon, see Bulletin R-102