



Carbon Purification | Systems

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
- **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.

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
--------------	-------------------------------	----------	--------------------------------------	--	-------------------	----------------------------	-------------------

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 ¾C ME4MPLGCB-C.25-G3	1½ - 5	13	7 lbs. carbon for 1 canister	-	3 of 15U10U	13 x 9 x 47	1/6	S-0415-C	S-0415-P
CL1(528)S x CCL30 ¾C ME4MPLGCB-C.25-G3								S-0416-C	S-0416-P

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.

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. System, mounted on a SS 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 -two fixed wheels, two swivel casters and push handle	For Guardian - P	O-1428
Flow control valve on pump discharge	½" for Labmaster ¾" for Space-Saver, Guardian -V1 -V1	O-CV12 O-0984
Motor starter with overload protection, push button, watertight, Optional 3-phase (for all systems except Labmaster)	1 phase -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