

# CECO Mefiag

A Division of CECO Environmental

BULLETIN 742  
SELF-PRIMING  
MAGNETIC DRIVE  
FILTER SYSTEMS  
FOR CORROSIVE LIQUID FILTRATION

## DPMSP/KKMSP SERIES

- Self-priming, magnetic drive, corrosion-resistant, sealless pumps.
- Standard chambers are CPVC construction. Kynar construction is available on several models.
- Filtration rates from 50 to 4000 GPH (15,000 LPH).
- No metal contact with liquid being filtered.
- Typical applications include electroplating, pharmaceutical, photographic, radioactive and other sensitive solutions.
- Chambers accept all standard open-ended filter and carbon tubes.
- Systems are provided fully assembled and tested with all accessories required for immediate start-up.
- All units are mounted on a rigid corrosion-resistant panel. Single tube systems feature panels on rubber bumpers. All multi-tube models are supplied with ball bearing swivel casters.

## NEW MODEL for Flow Rates to 4000 GPH



Optional pressure gauge assembly available for all units

**MODEL DPMSP-2400  
EIGHT TUBE SYSTEM**



**MODEL DPMSP-600**



**MODEL DPMSP-10**



**MODEL DPMSP-900  
THREE TUBE SYSTEM**



**MODEL DPMSP-1600  
EIGHT TUBE SYSTEM**

## SYSTEM SPECIFICATIONS:

SYSTEM MODEL NO.	FLOW RATE		PUMP* MODEL NO.	HP	MAX PUMP PSI	CHAMBER** MODEL NO.	CHAMBER OUTLET HOSE ID X NPT	FILTER TUBES*** QUANTITY/SIZE	DIMENSIONS IN. (CM) L x W x H	WEIGHT + (Lbs/Kg)
	GPH	LPH								
DPMS-5S	50-75	190-285	PMSP-510	1/3	13	DD-5S	3/4" x 3/4"	1 #5	20 x 14 x 14 in. (51 x 35 x 35 cm.)	37/17
DPMS-10S KKMS-10S	100-150	370-570	PMSP-510 KMSP-510	1/3	13	DD-10S KK-10S	3/4" x 3/4"	1 #10	20 x 14 x 18 in. (51 x 35 x 46 cm.)	39/18
DPMS-20S KKMS-20S	200-300	760-1135	PMSP-510 KKSP-510	1/3	13	DD-20S KK-20S	3/4" x 3/4"	1 #20 or 2 #10	20 x 14 x 28 in. (51 x 35 x 71 cm.)	49/22
DPMS-30S KKMS-30S	300-450	1135-1700	PMSP-510 KMSP-510	1/3	13	DD-30S KK-30S	3/4" x 3/4"	1 #30 or 3 #10	20 x 14 x 38 in. (51 x 35 x 96 cm.)	59/27 59/27
DPMS-300 KKMS-300	300-900	1100-3400	PMSP-1035NT KMSP-1035NT	3/4	16.8	D-30 K-30	1-1/4" x 1-1/4"	3 #10	24 x 24 x 27 in. (61 x 61 x 68 cm.)	80/36
DPMS-600 KKMS-600	600-1800	2250-6800	PMSP-1040NT KMSP-1040NT	1	24	D-60 K-60	1-1/4" x 1-1/4"	3 #20 or 6 #10	24 x 24 x 37 in. (61 x 61 x 94 cm.)	91/41
DPMS-900 KKMS-900	900-2700	1150-10,000	PMSP-1040NT KMSP-1035NT	1	24	D-90 K-90	1-1/4" x 1-1/4"	3 #30 or 9 #10	24 x 24 x 47 in. (61 x 61 x 120 cm.)	97/44
DPMS-800	800-2400	3000-900	PMSP-1040NT	1	24	D-800	1-1/4" x 1-1/2"	8 #10	24 x 24 x 36 in. (61 x 61 x 91 cm.)	99/45
DPMS-1600	1600-3300	6050-12,500	PMSP-1040WT	2	25	D-1600	1-1/4" x 1-1/2"	8 #20 or 16 #10	24 x 24 x 48 in. (61 x 61 x 122 cm.)	118/54
DPMS-2400	2400-3300	9100-12,500	PMSP-1040WT	2	25	D-2400	1-1/4" x 1-1/2"	8 #30 or 24 #10	24 x 24 x 60 in. (61 x 61 x 152 cm.)	161/73
DPMS-3200 DPMS-2412 DPMS-1212	2400-3300	9100-12,500	PMSP-1040WT	2	25	D-3200 D-2412 D-1212	1-1/4" x 1-1/2"	8 #40 or 32 #10 12 #20 or 24 #10 12 #10	24 x 24 x 72 in. (61 x 61 x 190 cm.) 24 x 24 x 52 in. 24 x 24 x 42 in.	178/81
DPMS-3612	3500-4000	13,200-15,000	PMSP-1500	3	32	D-3612	1-1/2" x 2"	12 #30 or 36 #10	24 x 24 x 62 in. (61 x 61 x 190)	185/84

\*\*See bulletin 401 for details.

\*\*\*See bulletin 901 for details.

+Add approximately 20% for shipping weight.

All Sethco DPMS Filter Systems feature a self-priming, sealless, magnetic drive pump. On start-up, simply fill the priming chamber and start the pump. Air in the suction line will be evacuated by the pump and liquid will be automatically pulled from the tank, recirculated through the filter chamber and pumped back to the tank. This self-priming start-up is especially desirable when filtering acid, alkaline, or cyanide solutions.

Each filter system is shipped completely assembled and tested, ready for immediate start-up. Included with each system is a set of 15 micron filter tubes, 10 feet of suction hose (140°F/60°C Max), 10 feet of outlet hose (170°F/76°C Max.), inlet strainer and hose clamps. All motors are TEFC and single phase motors include overload protection. Motor switch and line cord is optional on all motors other than the DPMS-2412 & DPMS-3612.

**FILTER CHAMBERS** Thirteen chamber sizes for depth filtration from 50 GPH to 4400 GPH (190-15,200 LPM). All of the chambers are available in high temperature CPVC (200°F/93°C Max.), accept any standard double open-end filter or carbon tube, and provide from 2.1 to 84 square feet of filtration area. Filter tube replacement is fast and easy. PVDF chambers are available on some models. See Bulletin 401 for complete information.

**PUMPS** Sethco "PMSP" pumps combine the convenience of self-priming, the dependability of magnetic drive and the trouble-free performance of leakproof sealless construction. They are offered in 5 sizes and feature excellent chemical resistance and run dry capability. Standard polypropylene pumps (PMSP models) are suitable

for temperatures to 180°F. A PVDF pump may be substituted (model KMSP) for temperatures to 200°F and applications such as chromic acid.

\*Visit Sethco's website at [www.sethco.com](http://www.sethco.com) for complete information.

### PUMP SPECIFICATIONS: (60 Cycle)

Model	Max Flow		Max Pres		MOTOR CHARACTERISTICS				Inlet NPT	Inlet Hose
	GPM	LPM	FT.	M	Volts	Hertz	Phase	Type		
PMSP-510	20	75	31	9	115/230 or 208-230/380-460	50/60	1	TEFC	1"	1"
PMSP-1035NT	44	166	39	12	115/230 or 208-230/380-460	50/60	1 3	TEFC	1-1/4"	1-1/4"
PMSP-1040NT	52	196	56	17	115/230 or 208-230/380-460	50/60	1 3	TEFC	1-1/4"	1-1/4"
PMSP-1040HG	60	227	60	19	115/230 or 208-230/380-460	50/60	1 3	TEFC	1-1/4"	1-1/4"
PMSP-1500	83	314	75	22	208-230/380-460	50/60	3	TEFC	1-1/2"	1-1/2"

**FILTER TUBES** Filter tubes are available for controlled filtration from 150 microns to .5 micron. Standard densities are coarse (50 microns), medium (25 microns), fine (15 microns), X-fine (10 microns), X-X fine (5 microns), Special B (1-3 microns), and Special C (.5 micron). Carbon tubes can be used for simultaneous carbon treatment and filtration.

For complete specifications on filter tubes, see Bulletin 901. For carbon tubes, see Bulletin 913.

**WARRANTY:** One year warranty against defective parts and workmanship. See Form TC-01 for full warranty details. Always be specific about your application in order that proper materials may be furnished. Let Mefiag or an authorized distributor know: liquids being handled, gallons, temperatures and pH.

The standard warranty does not apply when equipment is used contrary to factory recommendations.

Since the policy of Mefiag is one of continual improvement, we reserve the right to change design or materials at any time, without giving notice or creating any obligation to previous or future customers.

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