

# PURE WATER

## Series PWC Commercial Carbon Filters

**Watts Pure Water Series PWC** activated carbon filters are suitable for commercial applications requiring from 1 to 35 cubic feet of carbon with flow rates up to 129 gpm (488 lpm) for chlorine reduction



### Operation of the Filter

Water containing chlorine passes through a bed of granular activated carbon. Chlorine reacts with the activated carbon, and is consumed. Naturally occurring organic compounds, which can cause taste and odor, are adsorbed on to the surface of the carbon granules. Periodic backwashing rids the bed of accumulated sediment and carbon fines.

### Activated Carbon Media

The activated carbon media is manufactured from select grades of coconut shell charcoal. Its high microporosity and superior mechanical hardness gives the media chemical and physical stability for a long dependable life.

### Backwash Controller

These carbon filters feature an electronic controller that combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. With the microprocessor controlled timer mechanism, the operator is able to program the lengths of backwash and rinse steps. Regeneration frequency is also programmable between 1-28 days. Important operational information is stored in the timer which can be accessed for trouble shooting purposes.

### Control Valve

The brass control valve operates on command from the electronic valve controller. Valve positioning is accomplished by a hydraulically balanced piston which glides effortlessly along non-corrosive spacers and seals to precise locations. This precision motor driven valve performs in the toughest applications, is WQA certified to NSF/ANSI standards 61 and 372, and is made of high-quality brass for a long reliable life.

### Carbon Tanks

All models feature corrosion resistant fiberglass tanks with a thermoplastic inner liner. All tanks are certified by WQA or NSF to NSF/ANSI standards.

#### **⚠ WARNING**

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

## Specifications

MODEL NUMBER	TANK SIZE (IN.)	CARBON Ft <sup>3</sup>	MINERAL TANK		FLOW RATES FOR SERVICE AND BACKWASH	
			UNDERBED 1/2 x 1/4 - 1/4 x 1/8 - #20		SERVICE GPM CHLORINE REDUCTION	BACKWASH GPM
PWC10111A10	9x48	1.0	- / - /	10 lbs	3.7 GPM	4.0 GPM
PWC10111B10	10x54	1.5	- / - /	10 lbs	5.5 GPM	5.0 GPM
PWC10111C10	12x52	2.0	- / - /	30 lbs.	7.4 GPM	7.0 GPM
PWC10111D10	14x65	3.0	- / - /	60 lbs.	11.1 GPM	10 GPM
PWC15121E10	16x65	4.0	- / - /	80 lbs.	14.8 GPM	12 GPM
PWC15121G10	21x62	7.0	- / - /	100 lbs	25.9 GPM	26 GPM
PWC20141H10	24x72	10	- /	100lbs / 100 lbs	37 GPM	30 GPM
PWC20141I10	30x72	15	- /	200 lbs / 200 lbs	55.5 GPM	50 GPM
PWC30151J10	36x72	20	- /	300 lbs / 200 lbs	74 GPM	70 GPM
PWC30151K10	42x72	30	- /	400 lbs / 200 lbs	111 GPM	90GPM
PWC30151L10	48x72	35		500 lbs / 500 lbs / 500 lbs	129.5 GPM	100 GPM

## Ordering Information

MODEL NUMBER	DESCRIPTION	PIPE SIZE	SPACE REQUIRED W x D x H (IN.)	WEIGHT	
				LBS.	KGS
PWC10111A10	1 Cubic Foot Carbon Filter with Auto Backwash	1"	13 x 12 x 60	90	41
PWC10111B10	1.5 Cubic Foot Carbon Filter with Auto Backwash	1"	13 x 12 x 65	105	48
PWC10111C10	2 Cubic Foot Carbon Filter with Auto Backwash	1"	13 x 14 x 65	117	53
PWC10111D10	3 Cubic Foot Carbon Filter with Auto Backwash	1"	15 x 16 x 75	194	88
PWC15121E10	4 Cubic Foot Carbon Filter with Auto Backwash	1.5"	17 x 18 x 75	254	115
PWC15121G10	7 Cubic Foot Carbon Filter with Auto Backwash	1.5"	23 x 24 x 84	471	214
PWC20141H10	10 Cubic Foot Carbon Filter with Auto Backwash	2"	27 x 27 x 95	735	333
PWC20141I10	15 Cubic Foot Carbon Filter with Auto Backwash	2"	33 x 33 x 95	1432	650
PWC30151J10	20 Cubic Foot Carbon Filter with Auto Backwash	3"	40 x 48 x 114	1965	891
PWC30151K10	30 Cubic Foot Carbon Filter with Auto Backwash	3"	46 x 54 x 114	3038	1378
PWC30151L10	35 Cubic Foot Carbon Filter with Auto Backwash	3"	52 x 60 x 114	3645	1653

### Notes:

- Flow rates, dimensions, and capacities are per tank.
- Flow rates are calculated at a 2 minute empty bed contact time (EBCT) for chlorine reduction. Do not use flow rates stated above for reduction of chloramines or organic compounds. Chloramines reduction requires a 17-22 minute EBCT. EBCT for organic compound reduction varies by organic compound.
- Pipe size, tank size, and space requirements are in inches.



A Watts Water Technologies Company

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