yardney
WATER FILTRATION SYSTEMS

RCW Sand Media Filters

Cooling Tower Filters

Yardney RCW (Recirculating Water) Sand Media Filtration Systems are designed specifically for the filtration and removal of suspended solids from recycled cooling tower or plant process water. Suspended solid contaminants in the cooling tower system significantly reduce heat transfer capability and increase plant operating costs. The Yardney RCW system offers a high performance solution for filtration down to 15 microns and utilizes our simple backwash system for ease of operation and consistent water quality.

Applications

- Removal of algae, slime or other organic contaminant as well as sand, rock, grit and other inorganic contaminants
- Recycled cooling tower water and industrial process water
- 100 psi standard operating pressure
- Flow ranges from 10 gpm and up

Advantages

- State of the art fabrication provides added strength under pressure and long system life
- Standard carbon steel products, 3/16" thick material
- Stainless steel wedgewire underdrain
  - ➤ Ensures structural integrity in the harshest conditions
  - ➤ Hydraulically balanced to increase effectiveness of backwash while reducing flush frequency and waste of water
  - ➤ High strength stainless steel wedgewire will withstand a collapse pressure in excess of 600 psi
- ASME code shaped head construction for durability and safety
- Backwash automatically initiated by elapsed time or pressure differential
- Yardney easy-entry lid closure with weld tabs for operator safety
- Available in welded carbon steel or stainless steel
- 3M Scotchkote® 134 fusion bonded epoxy lining on interior surfaces of carbon steel product
- Made in USA

Industrial, Commercial & Municipal

RCW Sand Media Filters

Specifications

Standard assembly includes:

- Completely assembled for easy installation including pump, motor and motor starter
- Skid mounted tanks
- Yardney easy-entry lid closure with side manway
- Valves
- Inlet/outlet and backwash manifolds
- Grooved couplings on manifolds
- Controller, solenoids, electrical wire, tubing
- Removable underdrain
- 3M Scotchkote® 134 fusion bonded epoxy lining on interior surfaces of carbon steel product

Available options:

- ASME code
- High pressure (up to 225 psi)
- Solar package
- PLC controller
- Custom filter station layout piping

SPECIFICATIONS | RCW Sand Media Filters

Model	Rated Flow (gpm)	Filtration Area (sq ft)	Back-wash (gpm)	Rated Pressure	Pump HP	Inlet/ Outlet *pipe size (inches)	Length (inches)	Width (inches)	Height (inches)	Approx. Ship Weight (lbs)	Approx. Oper. Wt. (lbs)
RCW 1424-1A	22	1.1	16	100 psi	0.5	1 1/4 / 2	59 1/16	27	67 5/8	600	710
RCW 1824-1A	36	1.8	27	100 psi	1.0	1 1/4 / 2	59 3/4	25 5/16	67 9/16	790	970
RCW 2424-1A	62	3.1	47	100 psi	1.5	1 1/2 / 2	61 9/16	29 13/16	67 9/16	1140	1470
RCW 3024-1A	100	4.9	74	100 psi	3.0	2 / 3	71 1/8	33 3/8	67 7/16	1690	2220
RCW 2424-2A	126	6.3	47	100 psi	5.0	2 / 3	67 11/16	28 3/16	66 1/4	2080	2760
RCW 3624-1A	142	7.1	106	100 psi	3.0	3 / 3	70 11/16	39 1/2	70 5/8	2280	3070
RCW 3024-2A	200	9.8	74	100 psi	7.5	2 1/2 / 3	79 3/4	30 7/8	67 13/16	2970	4040
RCW 4824-1A	250	12.5	188	100 psi	5.0	3 / 4	93 5/8	51 1/2	79 15/16	4260	6000
RCW 3624-2A	282	14.1	106	100 psi	10.0	3 / 4	92 9/16	39 1/2	76 7/8	4370	6000
RCW 5424-1A	318	15.9	239	100 psi	7.5	3 / 4	98 3/8	56 11/16	82 5/16	5470	7850
RCW 4824-2A	500	25.0	188	100 psi	20.0	4 / 6	120	51 1/2	85 3/16	8050	11660
RCW 5424-2A	636	31.80	239	100 psi	20	4 / 6	129 5/8	57 9/16	90 1/16	10380	15250
RCW 4824-3A	750	37.5	188	100 psi	25.0	4 / 6	179 1/2	51 1/2	84 11/16	12130	17560
RCW 5424-3A	954	47.70	239	100 psi	40	6 / 6	196 1/16	57 9/16	90 1/16	15660	23020
RCW 4824-4A	1000	50.0	188	100 psi	30.0	6 / 8	222	51 1/2	84 9/16	16000	23550
RCW 5424-4A	1272	63.60	239	100 psi	50	6 / 8	257 3/4	61 9/16	90 1/16	20870	31080

Other models and sizes are available.

*Inlet pipe size denotes pump connection. Supply pipe size should be one pipe size larger. FIPT inlet/outlet.

Filtration backwash process

Yardney cooling tower filtration systems are designed to remove inorganic and organic suspended solids while utilizing an automatically controlled backwashing system based on pressure differential or elapsed time. The backwashing function utilizes a portion of the clean filtered water produced by multiple tank systems to backwash the media bed in each tank until the entire system has been fully backwashed. Single tank systems utilize the cooling tower water for backwash water or external backwash water sourcing systems, available for both single and multiple tank systems.

Made in USA

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