



Granular Activated Carbon Filters

Removal of Dissolved Compounds by Adsorption

Yardney Granular Activated Carbon (GAC) filtration systems utilize the adsorptive qualities of the media to remove highly dispersed compounds from water sources which are too small for removal with standard multi-media filtration technology. These automatic filtration systems are extremely effective in removing chlorine and chlorine related compounds, organic chemicals, tastes and odors, halogenated organic compounds, hydrocarbons and other highly dispersed contaminants. Yardney GAC filtration systems utilize a vertical side shell depth of 72 inches. All Yardney industrial media filters utilize our simple backwash system for ease of operation and consistent water quality. The Yardney automatically controlled filter systems operate for extended periods of time prior to a short backwash cycle.

Applications

- Removal of chlorines, organic chemicals, taste and odor, halogenated organic compounds, hydrocarbons or other highly dispersed contaminants
- Polishing filter for contaminants not removed by other filtration systems
- 80 psi standard operating pressure (high pressure systems available)
- Flow ranges from 5 gpm

Advantages

- State of the art fabrication provides added strength under pressure and long system life
- ASME code shaped head construction for durability and safety
- 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
- Standard carbon steel products, 3/16" thick material
- 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 coating on interior surfaces
- Made in USA

Granular Activated Carbon Filters Specifications

SPECIFICATIONS | INDUSTRIAL | GRANULAR ACTIVATED CARBON FILTERS

Model	Number of Tanks in System	Standard Flow Ranges (taste, odor removal)				Chlorine Removal (gpm)	Activated Carbon Volume (cu ft)	Filtration Surface Area (total sq ft)	Backwash Flow Rate (per tank)		Media Requirements (cubic feet)		Maximum Pressure	Inlet/Outlet Pipe Size	Backwash Line Pipe Size
		Minimum		Maximum					gpm	m ³ /hr	Gravel 1/2" - 3/4"	Activated Carbon			
		gpm	m ³ /hr	gpm	m ³ /hr										
GAC-1872-1A	1	9	2	18	4	35	7	1.77	18	4	1	7	100 psi	2"	2"
GAC-2472-1A	1	16	4	32	7	60	13	3.15	32	7	2	13	100 psi	2"	2"
GAC-1872-2A	2	18	4	35	8	71	14	3.54	18	4	2	14	100 psi	2"	2"
GAC-3072-1A	1	25	6	50	11	90	20	4.91	49	11	3	20	100 psi	3"	3"
GAC-1872-3A	3	27	6	53	12	106	21	5.31	18	4	3	21	100 psi	3"	2"
GAC-2472-2A	2	32	7	64	15	120	25	6.30	32	7	3	25	100 psi	3"	2"
GAC-3672-1A	1	35	8	70	16	135	28	7.10	71	16	4	28	100 psi	3"	3"
GAC-2472-3A	3	48	11	94	21	180	38	9.45	32	7	5	38	100 psi	3"	2"
GAC-3072-2A	2	50	11	100	23	180	39	9.82	49	11	5	39	100 psi	4"	2"
GAC-4872-1A	1	63	14	126	29	240	50	12.60	126	29	7	50	80 psi	4"	4"
GAC-3672-2A	2	70	16	140	32	270	56	14.20	71	16	8	56	100 psi	4"	4"
GAC-3072-3A	3	75	17	150	34	270	59	14.73	49	11	8	59	100 psi	4"	2"
GAC-5472-1A	1	80	18	160	36	300	64	15.91	159	36	10	64	80 psi	4"	4"
GAC-3672-3A	3	105	24	210	48	405	84	21.30	71	16	12	84	100 psi	4"	4"
GAC-4872-2A	2	126	29	252	57	480	100	25.20	126	29	14	100	80 psi	6"	4"
GAC-5472-2A	2	160	36	320	73	600	127	31.82	159	36	19	127	80 psi	6"	4"
GAC-4872-3A	3	189	43	378	86	720	150	37.80	126	29	21	150	80 psi	6"	4"
GAC-5472-3A	3	240	55	480	109	900	191	47.73	159	36	29	191	80 psi	6"	4"
GAC-4872-4A	4	252	57	504	115	960	200	50.40	126	29	28	200	80 psi	8"	4"
GAC-4872-5A	5	315	72	630	143	1200	250	63.00	126	29	35	250	80 psi	10"	4"
GAC-5472-4A	4	320	73	640	145	1200	254	63.64	159	36	38	254	80 psi	8"	4"
GAC-4872-6A	6	378	86	756	172	1440	300	75.60	126	29	42	300	80 psi	10"	4"
GAC-5472-5A	5	400	91	800	182	1500	318	79.55	159	36	48	318	80 psi	10"	4"
GAC-5472-6A	6	480	109	960	218	1800	381	95.46	159	36	57	381	80 psi	10"	4"

Standard product includes:

- Completely assembled for easy installation
- Skid mounted tanks
- Yardney easy-entry lid closure with side manway
- Valves
- Inlet/outlet and backwash manifolds
- Controller, solenoids, electrical wire, tubing
- Removable underdrain
- 3M Scotchkote® 134 fusion bonded epoxy coating on interior surfaces

Available options:

- ASME code
- High pressure
- Solar package
- PLC controller
- Custom filter station layout piping
- Air scour
- Continuous flow
- Rinse to waste



Made in USA

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