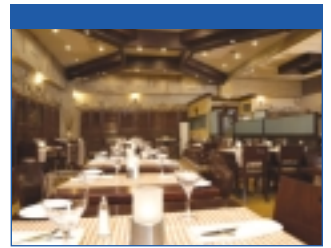
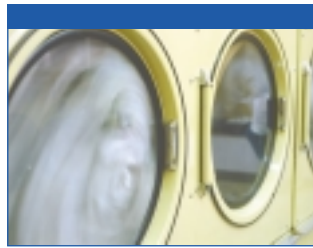




CF Series Commercial Filters

Hotels, car washes, laundromats, apartment buildings, industry and food producers require high quality water to meet the demands of their customers. Water containing turbidity, iron, manganese and sulfur has a negative impact on the ability of a business or institution to supply quality products and services.

Commercial filter applications demand equipment of the highest quality and performance to provide reliable, consistent operation after the installation and for years to come.



Petwa® Commercial Filter Systems can help make a variety of commercial operations more efficient.

Commercial Filter Systems

The CF Series of commercial filters have four types of standard filters to treat most water problems.



CFSD - Sand Filters

Petwa® sand filters are an economical filter for removing silt, turbidity, suspended matter and rust particles within the range of 25 - 30 microns. Sand filter media beds are supported by a layered gravel base covering the distributor for ideal service and backwash flow distribution.

CFMM - Multi-Media Filters

Petwa® multi-media filters are an advanced type of filter to deal with removing silt, turbidity, suspended matter and rust particles within the range of 15 - 20 microns. Multi-media filter media beds are supported by a layered gravel base covering the distributor for ideal service and backwash flow distribution. The active filtering media consists of layered garnet sands, filter sand and anthracite to provide effective filtration, while allowing higher service flow rates with a smaller pressure drop than a conventional sand filter. The layered medias also provide a greater holding capacity due to better depth filtration.

CFAC - Activated Carbon Filters

Petwa® activated carbon filters are used for the adsorption of undesirable tastes and odours in water caused by dissolved or suspended organic matter. Activated carbon can also be used for the removal of chlorine. Applications include pretreatment for reverse osmosis systems and food and beverage equipment. The activated carbon media is supported by a layered gravel base covering the distributor for ideal service and backwash flow distribution.

CFMG - Manganese Greensand Filters

Petwa® manganese greensand filters are used for the oxidation and filtration of dissolved iron, manganese and hydrogen sulfide gas from water. This is accomplished by the use of a continuous regeneration process, where a solution of potassium permanganate is fed upstream with a chemical feed pump. The filter bed is also supplemented by a layer of anthracite which provides an initial coarser filtration prior to the manganese greensand media, finally supported by a layered gravel base covering the distributor for ideal service and backwash flow distribution.

Features

- Dependable Autotrol Magnum IT Series Valves.
- Fiberglass mineral tanks.
- PVC hub and lateral distributors with riser tube.
- Layered gravel support bed.
- High quality filtration media.

Specifications

Filter Equipment

- Maximum Pressure = 100 psig (688 kPa)
- Water Temperature Range = 34 to 100°F (1 to 36°C)

Magnum IT Logic Series Valve

- Electrical:
 - 12VAC wall mount transformer - 742 calendar clock control
 - 12VAC wall mount transformer - 762 meter initiated control
 - Power Draw: 4.5 volt-amps
- Connections:
 - Standard - Brass 2" MNPT Inlet and Outlet & 1.5" Drain MNPT
 - Optional - CPVC 2" Inlet and Outlet & 1.5" Drain CPVC
 - Brass 1.5" Inlet and Outlet & 1.5" Drain MNPT

Mineral Tanks

- Constructed of a seamless polyethylene liner wrapped with a continuous filament wound epoxy resin fiberglass shell designed for 125 psig (862 kPa) working pressure and a temperature of 120°F (49°C). The tanks are Tested and Certified by WQA to NSF/ANSI Standard 44 for conformance to the material and structural integrity requirements only.



762F meter initiated control



742F clock control

Equipment Options

- 762F meter initiated control with turbine.
- 742F clock control with 0 - 99 day programming.
- Brass MNPT adapters or CPVC socket weld adapters.
- Treated water regeneration using the Magnum™ valve auxiliary hydraulic output and Aquamatic™ diaphragm valves.
- Electrical micro-switch kits and breakaway external output cams.
- Multiple tank systems.
- Chemical Pumps and solution tanks for continuous regeneration setups of CFMG manganese greensand filters.



Specifications & Performance CFSD Series Sand Filters

Filter Model Number	Description	Mineral Tank Diameter x Height inches (mm)	Valve Inlet/Outlet inches (mm)	Filter Media Volume cu.ft (cu.m.)	Continuous Service Flow ⁽¹⁾ USGPM (lpm)	Peak Service Flow ⁽¹⁾ USGPM (lpm)	Max. Backwash Flow to Drain USGPM (lpm)	Shipping Weight lbs (kgs)
CFSD14-2.0" __	14" Sand Filter Magnum 742 Logix Valve	14 x 65 (365 x 1651)	2 (50)	2.75 (0.078)	4 (15)	6 (23)	12 (45)	389 (177)
CFSD16-2.0" __	16" Sand Filter Magnum 742 Logix Valve	16 x 65 (406 x 1651)	2 (50)	3.5 (0.099)	6 (23)	8 (30)	15 (57)	493 (224)
CFSD21-2.0" __	21" Sand Filter Magnum 742 Logix Valve	21 x 69 (533 x 1753)	2 (50)	6.0 (0.17)	10 (38)	14 (53)	30 (114)	839 (381)
CFSD24-2.0" __	24" Sand Filter Magnum 742 Logix Valve	24 x 72 (610 x 1829)	2 (50)	8.0 (0.227)	13 (49)	19 (72)	40 (151)	1104 (501)
CFSD30-2.0" __	30" Sand Filter Magnum 742 Logix Valve	30 x 72 (762 x 1829)	2 (50)	12.5 (0.354)	20 (76)	29 (110)	60 (227)	1700 (772)
CFSD36-2.0" __	36" Sand Filter Magnum 742 Logix Valve	36 x 72 (914 x 1829)	2 (50)	17.5 (0.496)	28 (106)	42 (159)	85 (322)	2424 (1101)

⁽¹⁾ Service flows and peak flows for sand filters are based on approximately 4 USGPM per sq.ft. and 6 USGPM per sq.ft respectively.

Specifications & Performance CFMM Series Multi-Media Filters

Filter Model Number	Description	Mineral Tank Diameter x Height inches (mm)	Valve Inlet/Outlet inches (mm)	Filter Media Volume cu.ft (cu.m.)	Continuous Service Flow ⁽²⁾ USGPM (lpm)	Peak Service Flow ⁽²⁾ USGPM (lpm)	Max. Backwash Flow to Drain USGPM (lpm)	Shipping Weight lbs (kgs)
CFMM14-2.0" __	14" Multi-Media Filter Magnum 742 Logix Valve	14 x 65 (365 x 1651)	2 (50)	2.75 (0.078)	6 (23)	12 (45)	12 (45)	273 (124)
CFMM16-2.0" __	16" Multi-Media Filter Magnum 742 Logix Valve	16 x 65 (406 x 1651)	2 (50)	3.5 (0.099)	8 (30)	15 (57)	15 (57)	336 (153)
CFMM21-2.0" __	21" Multi-Media Filter Magnum 742 Logix Valve	21 x 69 (533 x 1753)	2 (50)	6.0 (0.17)	12 (45)	24 (91)	30 (114)	578 (263)
CFMM24-2.0" __	24" Multi-Media Filter Magnum 742 Logix Valve	24 x 72 (610 x 1829)	2 (50)	8.0 (0.227)	16 (61)	30 (114)	40 (151)	753 (342)
CFMM30-2.0" __	30" Multi-Media Filter Magnum 742 Logix Valve	30 x 72 (762 x 1829)	2 (50)	12.5 (0.354)	30 (114)	60 (227)	60 (227)	1128 (512)
CFMM36-2.0" __	36" Multi-Media Filter Magnum 742 Logix Valve	36 x 72 (914 x 1829)	2 (50)	17.5 (0.496)	42 (159)	85 (322)	85 (322)	1649 (749)

⁽²⁾ Service flows and peak flows for multi-media filters are based on approximately 6 USGPM per sq.ft. and 12 USGPM per sq.ft respectively.

Specifications & Performance CFAC Series Activated Carbon Filters

Filter Model Number	Description	Mineral Tank Diameter x Height inches (mm)	Valve Inlet/Outlet inches (mm)	Filter Media Volume cu.ft (cu.m.)	Continuous Service Flow ⁽³⁾ USGPM (lpm)	Peak Service Flow ⁽³⁾ USGPM (lpm)	Max. Backwash Flow to Drain USGPM (lpm)	Shipping Weight lbs (kgs)
CFAC14-2.0" __	14" Activated Carbon Filter Magnum 742 Logix Valve	14 x 65 (365 x 1651)	2 (50)	2.75 (0.078)	6 (23)	9 (34)	10 (38)	183 (83)
CFAC16-2.0" __	16" Activated Carbon Filter Magnum 742 Logix Valve	16 x 65 (406 x 1651)	2 (50)	3.5 (0.099)	8 (30)	11 (42)	15 (57)	231 (105)
CFAC21-2.0" __	21" Activated Carbon Filter Magnum 742 Logix Valve	21 x 69 (533 x 1753)	2 (50)	6.0 (0.17)	14 (53)	19 (72)	25 (95)	389 (177)
CFAC24-2.0" __	24" Activated Carbon Filter Magnum 742 Logix Valve	24 x 72 (610 x 1829)	2 (50)	8.0 (0.227)	19 (72)	25 (95)	30 (114)	504 (229)
CFAC30-2.0" __	30" Activated Carbon Filter Magnum 742 Logix Valve	30 x 72 (762 x 1829)	2 (50)	12.5 (0.354)	29 (110)	39 (148)	50 (189)	763 (347)
CFAC36-2.0" __	36" Activated Carbon Filter Magnum 742 Logix Valve	36 x 72 (914 x 1829)	2 (50)	17.5 (0.496)	42 (159)	57 (216)	70 (265)	1104 (501)

⁽³⁾ Service flows and peak flows for activated carbon filters are based on approximately 6 USGPM per sq.ft. and 8 USGPM per sq.ft respectively.

Specifications & Performance CFMG Series Manganese Greensand Filters

Filter Model Number	Description	Mineral Tank Diameter x Height inches (mm)	Valve Inlet/Outlet inches (mm)	Filter Media Volume cu.ft (cu.m.)	Flow Rates ⁽⁴⁾ = Max Service ppm (Fe + 2Mn) USGPM (lpm)			Max. Backwash Flow to Drain USGPM (lpm)	Shipping Weight lbs (kgs)
					0-3	3-8	8-15		
CFMG14-2.0" __	14" Manganese Greensand Filter Magnum 742 Logix Valve	14 x 65 (365 x 1651)	2 (50)	2.75 (0.078)	5 (19)	3 (11)	2 (8)	10 (38)	351 (159)
CFMG16-2.0" __	16" Manganese Greensand Filter Magnum 742 Logix Valve	16 x 65 (406 x 1651)	2 (50)	3.5 (0.099)	7 (26)	4 (15)	3 (11)	15 (57)	438 (199)
CFMG21-2.0" __	21" Manganese Greensand Filter Magnum 742 Logix Valve	21 x 69 (533 x 1753)	2 (50)	6.0 (0.17)	12 (45)	7 (26)	5 (19)	25 (95)	730 (332)
CFMG24-2.0" __	24" Manganese Greensand Filter Magnum 742 Logix Valve	24 x 72 (610 x 1829)	2 (50)	8.0 (0.227)	16 (61)	9 (34)	6 (23)	30 (114)	952 (432)
CFMG30-2.0" __	30" Manganese Greensand Filter Magnum 742 Logix Valve	30 x 72 (762 x 1829)	2 (50)	12.5 (0.354)	25 (95)	15 (57)	10 (38)	50 (189)	1450 (659)
CFMG36-2.0" __	36" Manganese Greensand Filter Magnum 742 Logix Valve	36 x 72 (914 x 1829)	2 (50)	17.5 (0.496)	35 (132)	21 (79)	14 (53)	70 (265)	2065 (938)

⁽⁴⁾ Service flows and peak flows for manganese greensand filters are based on approximately 3 USGPM per sq.ft. and 5 USGPM per sq.ft respectively.



Unit 340, 2880 45th Ave. SE, Calgary, AB T2B 3M1
265 Industrial Road, Cambridge, ON N3H 5N3

www.petwa.ca



#29-40005 Rev. 1/09