



726 Beacon St, Loves Park, IL 61111 | 815-636-8833 | 800-919-0888 | 815-636-8844 fx | www.watersurplus.com

EQUIPMENT DATA SHEET MEDIA FILTRATION SKID

Description	133 GPM Duplex filters
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Asset #:	ROE3100162R
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Owner		Refurb
Watersurplus		2019

EQUIPMENT TYPE	OEM
Media filter	Watersurplus

NORMAL OPERATING PARAMETERS		
Operating Temperature	35-104	°F
Nominal Operating Press	60	PSI
Min. Inlet Operating Pressure	40	PSI
Nominal Flow Rate / Range	100-266	GPM
Backwash Flow Rate Per Tank	165	GPM
Control Operating Air Volume	2	SCFM
Control Operating Air Pressure	80	psig
Nominal Inlet TSS	35-50	mg/L
pH Limits	5-9	pH

UNIT CONFIGURATION	
Number of Tanks	2
Tank Size	42" x 60" Carbon Steel
Tank Press Rating	80 PSI
Tank Design Temp	113 Deg F
ASME Code Stamped	No
Process Inlet:	3" PVC Sch 80
Process Outlet:	3" PVC Sch 80
Backwash Outlet:	3" PVC Sch 80
Tank Drain Outlet:	1/4" Tubing
Internal Piping	n/a
Main Valves	Aquamatic 526 A
Backwash Control	Stager control

POWER REQUIREMENTS					
GENERAL POWER	VAC	PH	HZ	Amps	Src
High Voltage					
Control Voltage	120	1	60	10	Int

SUGGESTED MEDIA VOLUMES (NEXT SAND)		
Filter Media 1	3	cu. Ft. (per tank)
Filter Media 2	3	cu. Ft. (per tank)
40x60 Garnet	2	cu. Ft. (per tank)
8x12 Garnet	1	cu. Ft. (per tank)
1/2x1/4 Gravel Support	1	cu. Ft. (per tank)
1/4x1/8 Gravel Support	1	cu. Ft. (per tank)

INSTRUMENTS	
Flow	n/a
Pressure	0-160 PSI pressure guage
ph / Cond	n/a

PHYSICAL SPECIFICATIONS		
Length	133	inches
Width	60	inches
Height	94	inches
Skid Weight	3000	lbs. (empty)
Gravel Support Weight	2000	lbs. (2 tanks)
Total Ship Weight	4200	lbs. (skid)
Total Oper Weight	12720	lbs. (skid)

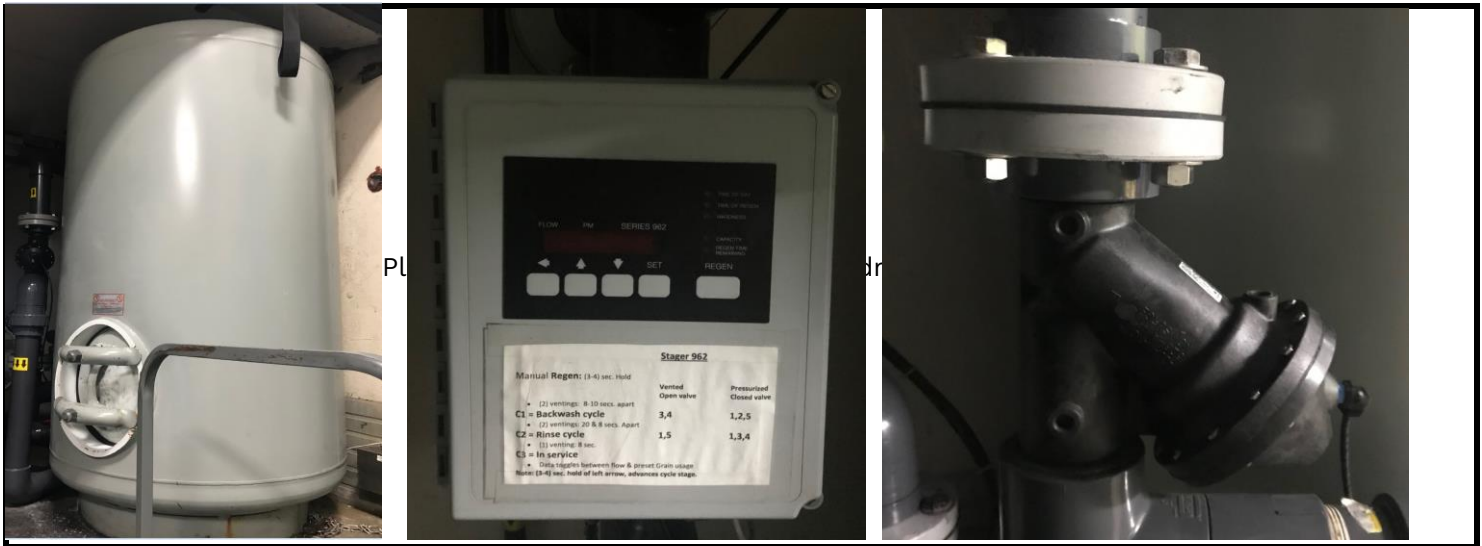
CONTROLS	
Main Controller	Aquamatic Stager 962
HMI	n/a
Other Type Of Control	n/a

AVAILABLE DOCUMENTATION

Description	AVAIL	Description	AVAIL
Process & Instrumentation Diagram - P&ID	Y	Electrical Schematics	Y
Piping layout/General Arrangement	Y	Program Logic	Y
Major Component List - MC List	Y	Operations/Maintenance Manuals	Y

PROCESS CONNECTIONS (SIZES & LOCATION SYMBOLS)

	Size & Type	Location
Feed Inlet	3" Camlock Female	Bottom Trailer
Product Outlet	RO connection point	Bottom Trailer
Backwash Outlet	3" Camlock male	Bottom Trailer
Drain Outlet	RO connection point	Bottom Trailer
Drain Outlet	1" Male camlock	Bottom Trailer



MISCELLANEOUS INFORMATION

This unit is a automated duplex filter system with (2) carbon steel tanks - 42" x 60" @ 80 psi. They have a 3" P face piping on a structural steel frame with automated pneumatic controls. The control for the system is achieved through the stager panel. The unit has PVC underdrains, (2) 11x15" ASME style elliptical manways isolation valves and backwash control valve.

MAJOR COMPONENTS

Instruments	Ind.	Sw.	Xmtr	Manufacturer	Description
Pressure indicating transmitter				n/a	n/a

Valves	Size	Type	Manufacturer	Description
Process Valves	3"	Aquamatic	Aquamatic 526 - A	Y-pattern design , 2-1/2" Noryl body , valve complete with pneumatic actuators, Buna N seals
Backwash valve	3"	Aquamatic	Aquamatic 526 - A	Y-pattern design , 2-1/2" Noryl body , valve complete with pneumatic actuators, polyethylene seals

Piping	Size	Material	Manufacturer	Description
Inlet	3"	PVC Sch 80	Watersurplus	PVC Sch 80
Outlet	3"	PVC Sch 80	Watersurplus	PVC Sch 80
Backwash	3"	PVC Sch 80	Watersurplus	PVC Sch 80

Tanks	Size	Mat'l	Manufacturer	Description
Tank	42" x 60"	CS	GE	42" Dia x 60" side shell, standard flanged and dished heads , lap welded construction
Manways	11" x 16"	CS	GE	Elliptical yoke style manway, (2) yoke supports with bolts, one flush mount cover, EPDM gasket
Skids & Leg Design	3"	CS	GE	(4) structural angle legs per tank , designed to seismic conditions.

MISCELLANEOUS EQUIPMENT

Tanks	Size	Mat'l	Manufacturer	Description
Air Compressor			DeWalt	Portable electric air compressor, 1.6HP, 30 gallons, single stage, 155 psi max pressure, dual voltage motor wired for 120VAC but can be converted to 240VAC