OPERATING MANUAL

GLOBAL FILTRATION SYSTEMS

OPERATING MANUAL

MODEL:

EN-1205 / EN-1206
(& EN-12552/62 FILTER SECTION)

CONTENTS

TABLE OF CONTENTS

Section Page	<u>Contents</u>
A	Checklists Quality assurance certificate Construction checklist
B	Parts removed for shipping
C	Overview & Specifications
D	Set-up instructions
E	Operating instructions
F	Maintenance and repair Flange bolt torquing instructions Piping diagram Trouble shooting table Parts list: External and internal parts Parts diagram: External and internal parts Diverter assembly print Parts list & diagram: Pump & motor Pump Curve & backwash setpoint chart Electrical prints (as applied) Customer modifications (as applied)
G	Warranty

CONSTRUCTION CHECKLIST

Model:			Serial	#			
Const.:	PVC	CPVC #1		CPVC #2			
Filter Tubes:	N/A	CPVC	HD	PVC		Titanium	
Spargers:	N/A	CPVC		PVC			
Hose (ft.):	N/A	suction		discharge		Sludge bag	
Hose barbs:	N/A	PVC		Nylon		PP	
Sleeves:	N/A	0200		0500		0700	
	1500	5000		12500		special	
			yes		no		
Trap Filter:							
Pump Protecti	on:						
Water Flush K	it						
DD-2468							
Pump style				none			
Voltage	N/A	115 volt		230 volt		460 volt	
Starter	N/A	single phase		Three phase			
Special instruc	ctions:						

Test Results (on water)

QUALITY ASSURANCE CERTIFICATE

This Global Filtration Systems filter and or carbon unit has been fully tested and inspected against material defects of any kind and has passed the Global Filtration Systems quality test for individual performance certification.

Running test for 30 min		
Pressure tested at	P.S.I.G.	
Checked out		
Filter G.P.H.		
Filter Inlet running pressur	e (open discharge)	P.S.I.G.
Filter Discharge running pr	P.S.I.G.	
Carbon unit pressure teste	d (if applicable) at	P.S.I.G.
Test Volts	Phase	
Average amps		
Pressure relief valve set a	t	P.S.I.G.
Approved	Date	
Model:	Serial #	

PARTS REMOVED FOR SHIPPING

The following parts (may) have been removed from your filter for shipping. Use the diagram in this section to identify the part and it's location on the filter unit. Please read the Introduction (section C) and the Set-up instructions (section D) for each part before installing them. Correct installation of these parts will insure proper operation of the equipment.

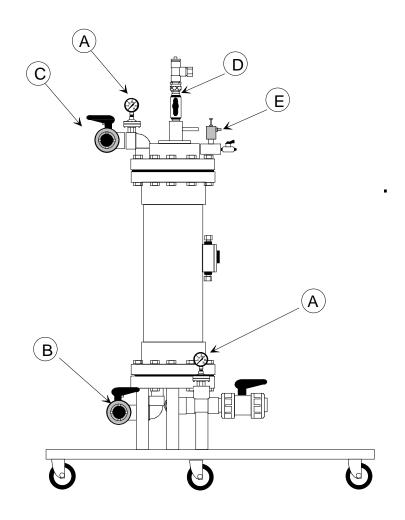
MODEL: EN-1205 / EN-1206 & EN-12552 / EN-12562

KEY	PART	COMPONENTS
A.	Pressure gauges:	(2) At inlet & discharge of filter
В.	Dual drain assembly:	1 PVC/CPVC tee with union, 1.5" 2 PVC/CPVC ball valves, 1.5"
C.	Discharge valve #3:	1 PVC/CPVC ball valve, 2"
D.	Backwash assembly:	1 PVC ball valve, ¾" 1 PVC thread TEE, ¾" Male & female brass quick disconnects Air and water reducing bushings PVC close nipple, ¾"
E.	Pressure relief valve:	1 PVC relief valve w / hose adapt.

not shown: Hose, hose adapters and clamps (if applicable).

PARTS REMOVED FOR SHIPPING

FILTER: PARTS REMOVED FOR SHIPPING



OVERVIEW: FILTERS

THE GLOBAL FILTRATION SYSTEMS' FILTER: HOW DOES IT WORK.

The Global Filtration Systems filter has a pump and chamber comparable to most disposable media type filters. How is our design different?

There are five support tubes, made of PVC, CPVC or titanium, inside the chamber of each filter. Each tube is surrounded by a polypropylene sleeve held in place by O-rings. These sleeves are available in a wide range of micron sizes. The five tubes are locked to a polypropylene disc which fits inside the chamber. The disc also has an O-ring on the rim which prevents solution from bypassing the sleeve. The normal filter flow is from the processing tank, through the pump, into the chamber and through the sleeves and support tubes. Contaminants are left on the outside surface of the sleeve as the solution continues up the tube to the discharge outlet and back to the processing tank. (See Fig. 1)

Two pressure gauges are included to indicate the inlet and outlet pressures as the sleeves pick up particulate. Global Filtration Systems recommends that you backflush (clean) the filter daily, anytime the pressure reaches the backwash setpoint (more on this in the detailed operating instructions) and prior to shutdown periods.

Backflushing is a simple, clean, 5 minute operation. It is performed without disconnecting or opening the filter and solution remaining in the chamber can be returned to the tank before backflushing. The normal backflush flow sprays pressurized air and water through five spargers centered in the support tubes. This flow drives through the sleeves, washing contaminants from the sleeves and out through the filter drain to waste treatment (see Fig 2). The patented diverter valve lets you thoroughly clean each filter sleeve individually. After cleaning, the filter is ready to run again at 100% efficiency.

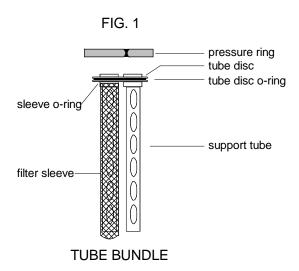
OVERVIEW: FILTERS

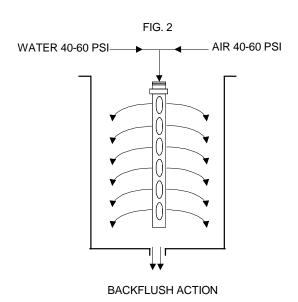
As you read through the detailed set-up and operating instructions there are several things we would like you to take special note of, These are:

- Air and water pressure for backflushing should be set at 40 to 60 PSIG and should be balanced. Air pressure should never exceed water pressure. Set air pressure to be 5-10 PSI less than the minimum water pressure.
- 2. There should be little or no restriction in the inlet piping of the filter.
- 3. Use the pressure gauges, especially when the filter is first installed, to monitor the condition of the filter sleeves and determine proper backflushing frequency.
- 4. Make sure that the filter is cleaned before being left idle, and change the filter sleeves at least once a year.
- 5. Never let the pump run dry.

Once again, please take the time to read and <u>understand</u> the operating instructions. You will be rewarded with years of trouble free service from your Global Filtration Systems filter.

OVERVIEW: DIAGRAM





GENERAL SPECIFICATIONS: FILTERS

SPECIFICATIONS

Model: EN-1205,06 & EN-12552,62

Pump: Models: JB-1332 Direct Drive or JB-3255/60 Mag. Drive

HP 5, 7.5 HP

Electrical 230/460 volt, three phase, 50/60 Hz Maximum pump pressure Not to exceed 45 / 55 P.S.I.G.

Filter: Overall dimensions 28" x 48" x 87" high (EN-1205,06)

28" x 60" x 87" high (EN-12552,62)

Pump suction 3" Filter discharge & drains 2", 1 ½"

Carbon discharge & drains 2", 1 ½' (if applicable)

Maximum open flow rate Not to exceed approximately 9,600 GPH (*05, *552)

Not to exceed approximately 12,100 GPH (*06,

*562)

Approx. shipping weight

Filter chamber fluid volume

Carbon chamber fluid volume

Approx. 350-400 Lbs.

Approx. 23 Gallons

Approx. 14 Gallons

Max. operating temperature All PVC - 130°F, #2 hi temp - 150°F, #3 high temp

- 180°F

Max. backflush air pressure 60 PSIG regulated (set to 5-10 PSI less than H20

pressure)

Max. backflush water pressure 60 PSIG regulated

Media: 5 polypropylene (or other) filtration sleeves standard (various micron ratings).

Options: High temperature construction

Quick disconnect fitting with proportioning valve for carbon unit

PVDF pump

Pump protection package

Filter Sentinel - II, system control package

Full automation package

INSTALLATION OF THE Global Filtration Systems' Filter

MODEL: EN-1205 / 1206 & EN-12552 / 12562

NOTE: Always use plumbing and electrical procedures that are approved for your locale

SAFETY PRECAUTIONS

- 1. Make sure that the labcock is closed.
- 2. Securely fasten the free end of all hoses
- 3. Make sure that all electrical connections are secure and safe from spray.
- 4. Maximum Air and Water pressures are regulated at or below 60 P.S.I.G. (Air should be set to 5-10 PSI less than minimum static water pressure).
- I. LOCATION (refer to piping diagram in this section [D])
 - A. The filter location should be chosen such that the pump suction line and the filter discharge line can be located at opposite ends of the processing tank if at all possible
 - B. The filter top flange can be rotated to make plumbing connections easier. The filter has been shipped with the discharge piping on the top flange facing the pump. If you wish to orientate the head differently, remove the stainless steel bolts and lift the head from the filter. Using a clock analogy, make the direction that will be the discharge of the filter 12:00 O'clock. Spin the tube bundle inside the chamber so that one of the tube openings lines up with 6:00 O'clock. This will assure that the spargers are centered in the filter support tubes. Replace the filter top head with the discharge piping aimed toward 12:00 O'clock and replace the bolts. (make sure the head is torqued properly see torquing instructions in section F).
- II. INSTALL THE PARTS THAT WERE REMOVED FOR SHIPPING.
 - A. Pressure gauges. The pressure gauges are delicate instruments and should be treated with care. Wrap the threads with Teflon tape and thread the gauges into TEE's. <u>Do not use the gauge body to tighten the gauge and do not overtighten.</u>

- B. Dual discharge valve #3. The standard dual discharge TEE is shipped, installed, with a plug on one side of the TEE. Remove the plug if you will be installing a carbon unit and attach the piping for the carbon unit (Carbon unit installation instructions are in the carbon unit manual if applicable). Install the discharge valve, labeled #3, on the open side of the TEE. The plug and valve may be reversed if it is more convenient for your situation.
- C. Dual drain TEE. All Global Filtration Systems' filters come with a dual drain TEE. The drain valves are labeled #6 and #7. Valve #6 will direct solution back to your processing tank when you purge the filter chamber prior to backflushing. Valve #7 will direct the backflush effluent to waste processing. Install the TEE on the Filter drain line which comes off the middle of the bottom flange.

Install valve #6, and plumb it back to your processing tank (or thru an inline trap filter). Locate the discharge end of the piping in the processing tank such that minor splashing will not be a problem. A return into a sump / weir portion of the tank is best. An anode (or other) bag may be secured to the end of this line as an additional measure for returned solution purity, to capture any inadvertently dislodged solids.

Install valve #7 and plumb it into a line directed to waste treatment.

D. Backflush assembly. Thread the backflush assembly into the diverter stem on top of the filter top flange. Plumb air into the top of the backflush TEE, and water into the side. Air and water should be regulated and set at 40 - 60 P.S.I. Both air and water should have shutoff valves. Please note: Air and water pressure must be regulated and limited to 60 P.S.I. Max. Air pressure must be set to 5-10 psi less than minimum static water pressure.

If the air pressure exceeds the water pressure it can make the backflush in-effective.

E. Relief valve. Install the relief valve, adapter, and labcock on the diverter body. (see the diverter assembly diagram in section F). Permanently attach a 1/2" hose to the relief valve discharge and run it to a suitable drain. Securely fasten the hose at the drain. Close the labcock valve. The labcock valve is used only for manually draining the filter during maintenance. NOTE: The relief valve is preset (see section A).

III. FILTER DISCHARGE PLUMBING

A. Install a 1 ½" line from the filter discharge valve (#3) back to the processing tank. You should install an isolation valve at the tank if this line runs below normal solution level. If this line is hard plumbed, install a union near the discharge valve to facilitate removing the top flange for maintenance.

IV. PUMP INLET PLUMBING

A. Global Filtration Systems' pumps have plastic casings. Use a minimum of thread sealant, and do not overtighten fittings.

B. Precautions

- 1. If at all possible, install the pump with a flooded suction.
- 2. Put an Isolation valve in the suction line of the pump. This valve should be a ball valve and should be located as close to the tank as possible.
- 3. The suction piping should be no more than 15 feet long. If a longer run is necessary, increase the pipe diameter by 1" for each additional 15 feet. See the specifications sheet (section C) for the pipe size for your pump.
- 4. Minimize the number of elbows in the suction piping, and put no elbows within 1 foot of the pump suction. Each elbow is the equivalent of 4 to 5 additional feet of pipe. Adjust the pipe size accordingly.
- 5. Install a full flow strainer in the suction line to prevent foreign matter from being drawn into the pump.

If your filter has a double seal type pump (JB-1211 or JB-1332) then please refer to the water flush kit installation instructions in section F of this manual prior to starting the pump. It is imperative that the water flush kit be operating properly before starting the pump.

V. ELECTRICAL

- A. Connect the pump starter to a proper source of electrical power. See Section A, or the motor nameplate for voltage and current requirements.
- B. A pump/filter protection package is available which will protect the pump from dry running, and allows various protection sensors to be included in the starter circuit. Contact Global Filtration Systems for information.

- VI. PRIMING A NON-FLOODED SUCTION. <u>NOTE: The best situation is a flooded suction which always assures that the pump is primed.</u>
 - A. Check to see that all valves are closed (including any associated with an attached carbon unit.
 - B. Open the filter inlet valve (#4)
 - C. Open the backflush valve (#1)
 - D. Index the diverter valve to position #1.
 - E. Turn on the water to the backflush TEE.
 - F. Run water into the filter until bubbles stop coming out of the pump suction.
 - G. Turn off the water, close the backwash valve (#1), and index the diverter valve to the neutral "N" position.
 - H. Open the filter discharge valve (#3)
 - I. Check the rotation of the pump (three phase only) by momentarily jogging the starter. Rewire if necessary.
 - J. Close the Filter inlet valve (#4) and filter discharge valve (#3).
 - K. At this point refer to the filter operating instructions (Section E) to start the filter and record the "clean" running pressure from the pressure gauge.
 Record it here and in the Startup section of the operating instructions (section E).

	"CLEAN" running pressure - Inlet DATE	PSIG	
	"CLEAN" running pressure - Discharge	PSIG	DATE
L.	Shut down the filter in accordance with the	operating instruction	ns.
M.	If unit is supplied with Factory pump, use the Section F to determine the filter inlet pressubackwash the filter. Record it here and in the operating instruction (section E).	ure at which you sho	uld

THIS COMPLETES THE FILTER INSTALLATION

PSIG

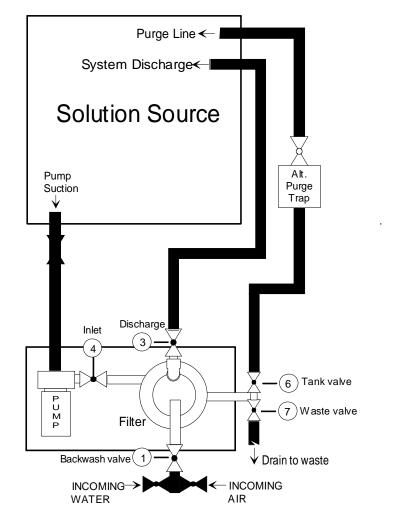
DATE

If a Global Filtration Systems carbon unit, either No-Frills model, or In-Series model is to be installed with this unit, see additional installation pages in the manual included with the carbon unit.

"Backwash Setpoint" pressure

PIPING DIAGRAM

PIPING DIAGRAM: Filter with purge return line



NOTE: Shaded valves and piping are items not supplied with the filter unit as standard equipment

D1112L.drw

OPERATING INSTRUCTIONS: MODEL EN-1202/06 & EN-12521/12562

DAILY CHECKS BEFORE OPERATION:

- 1. Check that all valves including the labcock are closed.
- 2. Check all plumbing and electrical connections.
- 3. Check that all hoses are securely fastened.
- 4. Check that pump prime has been maintained.
- 5. As applicable: Check that water to the pump seal is properly established (see water flush kit instructions in section F)

START UP

- 1. Open the filter discharge valve (valve # 3).
- 2. Open the filter inlet valve (valve # 4).
- 3. Start the pump.
- 4. Check that the filter inlet and dicharge pressures are normal for a clean filter. Inlet______P.S.I.G. Discharge______P.S.I.G. (these pressures should have been recorded during installation of the filter). Remember to check the pressures frequently in order to monitor the condition of the filter media. When the inlet pressure increases to the backwash setpoint pressure ______PSIG, it is time to backflush the filter. Generally, the unit should be backflushed at no less that 50% of the clean flow rate. This will maximize the full cleaning ability of the backflush cycle.
- 5. Check the discharge hose to see that flow through the filter is normal.

SHUT DOWN

- 1. Stop the pump, and wait several seconds for flow to cease.
- 2. Close the filter inlet valve (valve #4).
- 3. Close the filter discharge valve (valve #3).
- 4. Backflush the filter if it is to remain idle for more than a few minutes.

OPERATING INSTRUCTIONS: MODEL EN-1202/06 & EN-12521/12562

BACKFLUSHING THE FILTER

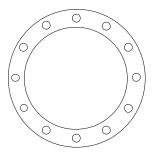
When the inlet pressure increases to its backwash setpoint, _____PSIG, it is time to backflush the filter.

- 1. Stop the pump, and wait several seconds for flow to cease.
- 2. Close the filter inlet valve (valve #4).
- Close the filter discharge valve (valve #3).
- 4. Open the return-to-tank valve (valve #6). There may be a trap in this line to strain the volume of solution being purged, prior to backflushing. Valve #6 is not used on waste treament type applications or any application where solution remaining in the chamber prior to the backflush cycle is of no value and therefore is not saved (or returned to source). If this is the case, then open valve #7 at this point and continue procedure.
- 5. Index the diverter handle to position #1.
- 6. Open the backwash valve (valve # 1).
- 7. SLIGHTLY open the air valve. Admit only a small amount of air into the chamber to slowly purge the good solution back to the processing tank (or out to drain). Do not shock the unit with large air volume during the purge portion. You will be able to hear or see when the chamber empties.
- 8. Open the drain-to-waste valve (valve #7), then close the return-to-tank valve (#6)
- 9. At this point open the water valve then fully open the air valve. Air and water are now spraying through sparger tube #1, cleaning the first sleeve. Allow the sleeve to clean for approximately one minute.
- 10. Index the diverter handle sequentially to positions 2, 3, 4, and 5, for one minute each.
- 11. After sleeve #5 has been cleaned, shut the water valve, wait 10 seconds, then shut the air valve.
- 12. Shut the backwash valve (#1).
- 13. Index the diverter handle to position "N".
- 14. Shut the waste valve (#7).

This concludes the backflushing process. and the filter is shut down and may be left idle. If you wish to return to filtering, repeat the <u>Start Up</u> instructions above.

FLANGE TORQUE INSTRUCTIONS

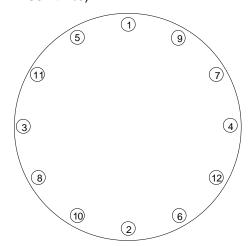
Your filter is equipped with 1/8" thick, full face flange gaskets. Please make sure the gasket is in good condition, and properly oriented each time you re-install the top or bottom filter flanges.



Type B

Recommended procedure for tightening flange bolts on 12" diameter filter units (19" flange)

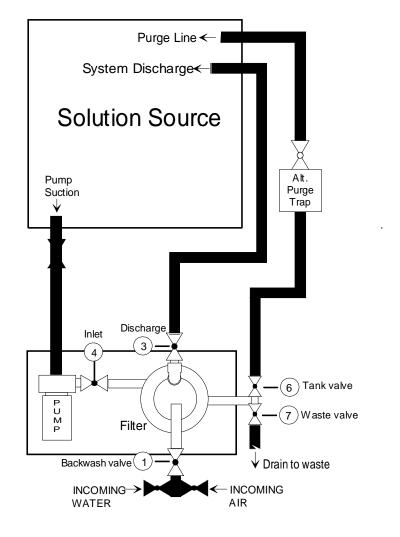
- 1. Follow the numbered sequence below and tighten each bolt snugly
- 2 Repeat step 1 tightening each bolt to the specified torque (Type B = 60 Ft-Lbs)



D1092A.drw

PIPING DIAGRAM

PIPING DIAGRAM: Filter with purge return line



NOTE: Shaded valves and piping are items not supplied with the filter unit as standard equipment

D1112L.drw

REPAIRS & MAINTENANCE: TROUBLE SHOOTING

TROUBLE SHOOTING "GLOBAL FILTRATION SYSTEMS" FILTERS

PROBLEM	INDICATION	POSSIBLE CAUSES
Pump does not start	No flow / pump does not start	- no electricity
'	' '	- magnetic starter tripped
		- incorrect wiring
Pump will not run.	Pump starts but will not continue	- incorrect overload setting
	to run.	- incorrect wiring
pump runs, but does not pump	motor running / no flow or	- broken spindle (mag drive)
	pressure	- jammed or frozen impeller
		- starved pump suction
		- obstructed pump suction
		- improper pump rotation
Leaking pump: magnetic drive	Solution leaking at pump	- worn or broken O-ring
	housing	- cracked housing
Leaking pump: direct drive	Water leaking from seal or	- worn seal
	pressure collar	- worn or damaged O-ring
	Solution leaking from seal or	- insufficient water pressure in
	pressure collar	pressure collar
	Solution leaking from pump	- worn or broken O-ring
	housing	- cracked housing
Insufficient solution flow	visual indication of lower than	- dirty filter media
	normal flow	- clogged media
	Improper pressure reading	- same as above
Insufficient filtration	filter effluent quality	- worn out media
		- insufficient flow
		- media or filter being bypassed
		- modify media micron retention
	Pressure does not return to	- improper air or water pressure (or
	clean reading after	relationship of air to water pressure)
	backflushing/backpulsing	- incorrect backflushing / backpulsing
		- media clogged
	Pressure reading never changes	- filter media being bypassed
		- damaged filter media
		- all particulate size lower than media
		size
		- damaged pressure gauge(s)

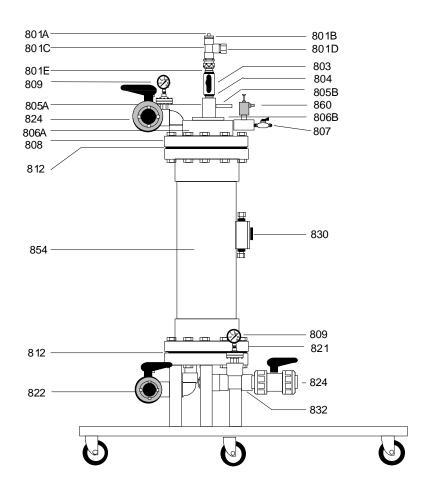
Parts List

FILTER PARTS LIST (SEE PARTS DIAGRAM) MODEL: EN-1205/06 (& EN-12552/62 FILTER SECTION)

Key	P/N	Description	Quan / filter
801 A	6503147	Male plug	1
801 B	6503095	Reducing bushing	1
801 C	6503048	Backwash Tee	1
801 D	6503062	Hose Adapter	1
801 E	6503250	Male Quick Disconnect	
802	6503251	Female quick disconnect	1
803	1071007	Backwash valve (valve #1)	
804	6503171	Threaded connector	
805 A	6506060	Diverter stem	1
805 B	6519115	Diverter stem handle	1
805 C	6513018	Diverter stem O-ring	
806 A	6506059	Diverter body	
806 B	6506061	Diverter coverplate	
806 C	6501036	Diverter Spring	
806 C	6501037	Diverter Ball	
806 D	6513015	Sparger gasket	
807	1077002	Labcock	
808		with piping	
000		/С	
		PVC	
809	6521002	Pressure guage	
810		ng	
010		/C	
		PVC	
812	6513013	Flange gasket	
813		sparger	
013		ус	
		PVC	
814	6521005	Tube disc with handle	
815	6513017	Tube disc O-ring	
816		ort tube	
010	6520122 Ti	tanium/PVC	
		tanium/CPVC	
817	6513019	Tube seal O-ring	
818	6506022		
819		Support tube nute (set of 5, various microns - Call for Part Number) .	
820 821	6513016	Filter Sleeve O-rings	
021		nge with piping	
		VC	
000	0520124 CI	PVC	
822	Drain vaive	s (valve #6 or valve #7)	2
	10/1015 PV	VC (1.5")	
004		PVC (1.5")	
824	Inlet valve	(valve #4) or Discharge valve (valve #3)	2
	10/1020 PV	VC (2")	
		PVC (2")	
830		er box (various ratings - call for Part Number)	
854		ber	
		VC	
		CPVC with PVC socket flanges)	
	6520025 CI	PVC	

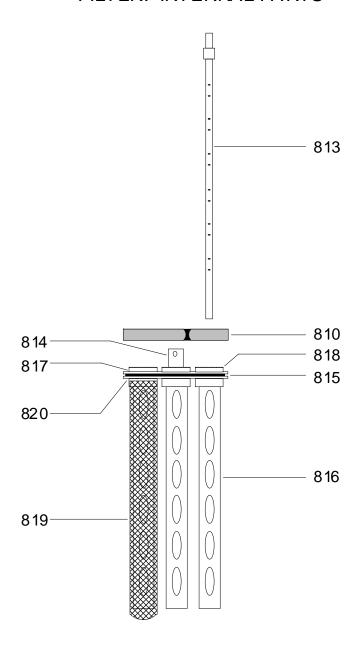
FILTER PARTS DIAGRAMS

FILTER: EXTERNAL PARTS

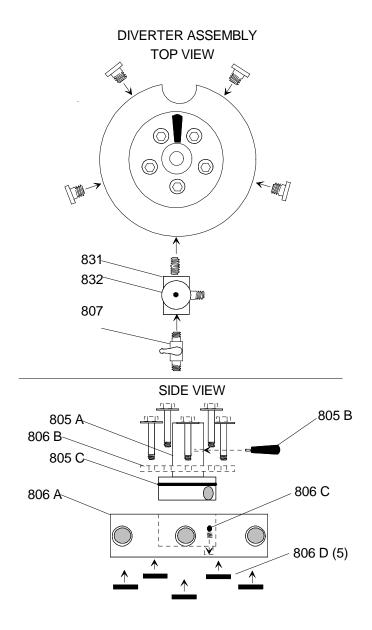


FILTER PARTS DIAGRAMS

FILTER: INTERNAL PARTS



FILTER PARTS DIAGRAMS



BACKWASH SETPOINTS

Backwash Setpoint charts for model EN-1205 / EN-12552 with the JB-3255 pump operating on a <u>solution with a specific gravity of 1.1</u>. <u>For readings, use only the pressure gauge between the pump discharge and the filter inlet at the bottom of the chamber.</u>

DETERMINE SETPOINT

- 1. During Installation (section D), determine the "CLEAN" running pressure of the filter with your piping configuration.
- 2. Find the clean pressure in column 1 of the chart below.
- 3. Find the Backwash Setpoint for that pressure from the last column. This represents a reduction in flow to 60% of the clean flow.

JB-3255 Backwash			Sp. Gr. =
setpoint chart			1.1
CLEAN			BACKWASH
PRESSURE	CLEAN FLOW	DIRTY FLOW	SET-POINT
Û	GPH	GPH	Û
0.0	13,800	8,280	33
9.5	12,400	7,440	36
14.3	11,600	6,960	39
19.0	10,900	6,540	41
23.8	10,200	6,120	43
28.6	9,300	5,580	44
33.3	8,100	4,860	48
38.1	7,200	4,320	49
42.9	6,300	3,780	50
47.6	4,800	2,880	51
52.4	2,400	1,440	53
54.8	0		

WARRANTY

WARRANTY ON GLOBAL FILTRATION SYSTEMS' FILTRATION AND CARBON SYSTEMS

ITEMS COVERED UNDER THIS WARRANTY

Any removable or non-removable part of the filter unit, except all pumps and motors, that fail due to manufacturing or material defect within one year (365 days) from the date of shipment will be repaired or replaced at no charge to the purchaser. All pumps and motors have a 90 day warranty for failure due to manufacturing or material defect.

The express warranty contained herein is in lieu of all other warranties, either expressed or implied, or statutory, including without limitation any warranty of merchantability or fitness for a particular use. In no event will Global Filtration Systems be liable to the purchaser for any damages, including special, incidental, indirect or consequential damages.

HOW TO OBTAIN SERVICE (REPLACEMENT PARTS):

Replacement parts can be obtained for your Global Filtration Systems filter by the following method:

- 1. Determine the items that need replacement by using the parts breakdown sheet supplied in the filter manual.
- 2. Place a purchase order with Global Filtration Systems for those items. The items will be shipped and invoiced to you from stock.
- 3. Return the damaged items, freight prepaid, within 30 days to Global Filtration Systems for inspection. If it is determined by Global Filtration Systems that the damage is due to manufacturing or material defect, a full credit against the above mentioned invoice will be issued to your company, which includes our standard means of shipment (UPS regular in most cases), but does not include any additional customer requested shipping charges for air freight, etc.

ITEMS NOT COVERED UNDER THIS WARRANTY

- 1. Any part broken due to physical abuse.
- Any part damaged due to non-compliance with the manufacturer's installation / operating instructions.
- 3. Any replacement parts not purchased through Global Filtration Systems either directly or indirectly.
- 4. Any maintenance performed on the filter / carbon unit or modifications made to the filter / carbon unit without written consent from Global Filtration Systems.

If you have any questions concerning this warranty, please contact:

Global Filtration Systems Route 25, PO Box 10 Tamworth, NH 03894 PH# 603-323-7777 FX# 603-323-7007

E-Mail: FilterGFS@aol.com

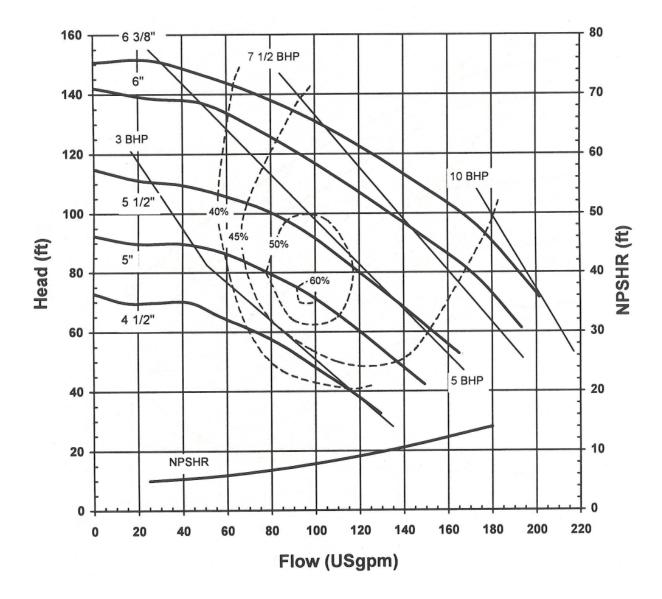
Or info@globalfiltrationsystems.com

PUMP CURVE: JB-3200 SERIES CL

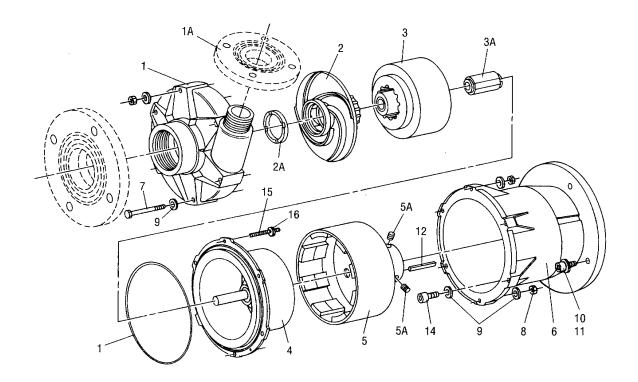
Model: JB-3245, 3250, 3255, 3260

Style: 3450 RPM, 60 Hz Suction: 3" flange / 2" FNPT Discharge: 2" Flange / 2" MNPT

Impeller Type: Closed



MODEL: JB-3255 & JB-3255K PUMP PARTS LIST



ITEM	DESCRIPTION	PART No.
1	Impeller Housing (polypro)	6502416
	Impeller Housing (PVDF)	6502417
2/3	Impeller with carbon bushing (polypro)	6502418
	Impeller with carbon bushing (PVDF)	6502419
2A	Thrust Ring - Teflon	6502361
3A	Impeller Bushing - Carbon	6502360
4	Barrier with spindle (polypro)	
	Barrier with spindle (PVDF)	6502439
6	Motor Adapter – 56C	6502364
5	Drive Magnet with set screws	6502365
5A	Set Screw – knurled point	6502366
13	Impeller Housing O-ring - Viton	
7/9	Housing Bolt Set (Bolt/Nut) - 6 required	
10/11	Motor Adapter Bolt Set (Bolt/Lock) – 4 required	6502369
	Motor Adapter Plug	
	Complete Wet End Only: Items 1-3 + 6 (polypro)	6502371
	Complete Wet End Only: Items 1-3 + 6 (PVDF)	6502372
	Complete Pump & Motor – 3 PH, 5 HP (polypro)	6502373
	Complete Pump & Motor – 3 PH, 5 HP (PVDF)	6502374
	Complete Pump & Motor – 3 PH, 7.5 HP (Polypro)	6502075
	Complete Pump & Motor – 3 PH, 7.5 HP (PVDF)	6502376
	Motor Only – 3 PH, 5 HP, 230/460V	6502377
	Motor Only – 3 PH, 7.5 HP, 230/460V	6502378

NOTE: Order by part number, not item number

GLOBAL FILTRATION SYSTEMS, INC.

EN-1205/6 Manual Pages File: PAGES-09.DOC

Sect.	Contents	<u>File</u>
-	Cover page: EN-1205/06 Table of contents:	M01-J M02-AF
A.	Construction checklist: Quality Assurance :	M03-AF M04-AA
В	Parts removed list: Parts removed diagram:	M05-J M06-12F
C.	Overview: filter Fig. 1& Fig. 2 General Specs: EN-1205/06 Overview: Carbon Treat (as applicable) Fig 3:	M07-AF M10-B M11-J M08-AC01 M10-AF
D.	Piping diag.: Installation:	M13-12F M12-J
E.	Operating Inst:	M14-HA
F.	Torquing instructions: Piping diagram: Trouble shooting: Parts list: EN-1205/06 Parts diagram: Pump parts Pump Curve Backwash setpoint chart Customer specific pages	M16-12FA M17-12F M18-AF M19-J M20-AF P2032P P2032 M23-3255
G.	Warranty information.	M25-AA