

## **INSTALLATION, OPERATION & SERVICE MANUAL**



FILTER IS DESIGNED AND INTENDED FOR USE TO FILTER WATER IN SWIMMING POOLS AND SPAS.



## **Installation Instructions**

- 1. Check carton for any evidence of damage due to rough handling in shipment. If carton or any filter components are damaged, notify freight carrier immediately.
- **2.** After inspection, carefully remove filter components from carton filter tank, gauge, air bleeder.
- 3. Place the filter in its permanent location on a level slab, preferably concrete poured in a form or on a platform constructed of concrete block or brick. **DO NOT** use sand to level the filter and pump mounting as it may wash away, leaving the unit out of level. During operation this condition will cause vibration and inefficient performance.
- **4.** Assemble valve to tank. Be sure O-rings on valve fittings are in place and are clean. Use a lubricant, applied lightly, such as petroleum jelly or silicone on O-rings and O-ring grooves prior to assembly.
- 5. Align valve with tank so that the handle is toward the top of the tank, push valve into ports and turn the bulkhead nuts snugly on tank fittings. It is not necessary to cinch valve nuts to tank fitting beyond hand tightness.
- **6.** Assemble piping and pipe fittings to pump and valve. A check valve is recommended between the heater and filter to eliminate the possibility of hot water "back-up" which may cause deformed grid elements and to prevent D.E. from migrating to pool when system is off.

## **Filter Operation**

#### **HOW TO START FILTERING**

- 1. Check clamp assembly for tightness. See instructions below.
- 2. Position valve handle to FILTER position. OPEN BLEEDER VALVE ON THE FILTER TOP. Check pump strainer pot to be sure it is full of water. Replace pump lid.
- 3. Start pump and tank will fill. Close air bleeder valve when water begins to come out. At this point tank and all piping are filled with water.
- 4. Remove the skimmer lid, put the recommended amount of diatomaceous earth (D.E.) into the skimmer. The D.E. will be drawn into the filter and deposited evenly upon the grid elements. Now, filter is providing the pool with bright, clean water. NOTE: DO NOT OPERATE FILTER WITHOUT D.E. CHARGE FOR MORE THAN TWO MINUTES.

- CAUTION: -

NEVER VACUUM POOL WITH FILTER HANDLE IN BACKWASH POSITION.

This filter operates under pressure. When closed properly and operated without air in the water system, this filter will operate in a safe manner.

AIR ENTERING FILTER AND THE UNIT NOT CLOSED CORRECTLY CAN CAUSE THE TANK TOP TO BLOW OFF AND COULD CAUSE SEVERE BODILY INJURY AND/OR PROPERTY DAMAGE.

Never attempt to open clamp while there is pressure in the filter. Before opening, turn pump off and open air relief valve.

#### **ASSEMBLY OF TANK HALVES**

- 1. Be sure O-ring is in proper position. Install tank top. Locate filter clamp over both flanges, tank top and tank bottom
- 2. Alternate tightening the T-Bolts from one side of tank to the other, a little each time. DO NOT tighten one T-Bolt completely and then tighten the other T-Bolt. This will result in uneven loading on the clamp and flanges. (NOTE: Some filter models have only one (1) T-Bolt.)
- **3.** While tightening T-Bolts you must tap clamp all around the diameter with a mallet or similar tool to insure uniform loading.
- **4.** T-Bolt nut must be tightened to 60 inch lbs. torque. (NOTE: A torque wrench must be used to achieve the proper torque.)
- **5.** The bleeder valve on filter tank must be open before starting pump.
- 6. Start pump.
- 7. Close air bleeder valve when a steady stream of water flows from the valve -- this indicates that all air is bled from tank.

#### WHEN TO CLEAN FILTER

As dirt is collected in the filter the pressure gauge will gradually rise and the flow to the pool will be lowered. When the flow has been reduced by about 1/3, note the pressure gauge reading. In the future the higher gauge reading can be used as a guide to tell when backwashing is needed. The increase in pressure will be in the general area of 10 pounds, but will vary depending on the pump being used with the filter.

#### **CLEANING FILTER WITH MULTIPORT VALVE:**

To perform the backwash operation, first shut off the pump. Shift the valve handle to **BACKWASH** position. Start pump. The unit should backwash until the water appears clean thru the sight glass. The backwash operation takes about two or three minutes. Stop the pump, and shift valve handle to **RINSE** position. Start pump and run for approximately

30 seconds. Stop the pump and turn valve handle to **FILTER** position. Start pump, the filter has now started a new filtering cycle. Perform the steps required for coating of grids described earlier in this manual.

#### **CLEANING FILTER WITH PUSH-PULL VALVE**

First shut off pump. Pull handle up to **BACKWASH** position. Start pump. The unit should backwash until water appears clean thru an inline sight glass in the waste line. This operation takes two or three minutes. Stop pump and push valve handle down to **FILTER** position. Wait 30 seconds and start pump. The filter has started a new cycle. Perform the steps required for coating of grids described earlier in this manual.

### **Filter Care**

- 1. To clean the filter exterior of dust, dirt, etc., wash with a mild detergent and water, then hose off. Do not use solvents. They may damage the fittings, valve and pump mounting.
- 2. If for any reason internal maintenance is required, grid assembly can be lifted off the to piping so internal parts can be reached.

#### WINTERIZING THE FILTER

In areas that have freezing winter temperatures, protect pool equipment by backwashing filter. Open vent or air bleeder on top of tank, remove drain plug, open all valves. Allow filter, pump and piping to drain completely. Do not be concerned if tank drains slowly, but be certain it is empty of all water.

## **Pump Care**

Refer to pump instruction manual.

#### **MANUAL CLEANING**

At least once a year or when the pressure is 4 to 6 pounds higher than normal after backwashing, the filter grid should be removed and cleaned. This operation may easily be performed before winterizing the system (in those climates where this is necessary) and should be done regarless of pressure readings. Backwash filter before doing the following:

- 1. Turn pump off and open air bleeder valve. **IMPORTANT:** Be sure that all pressure is relieved from the filter tank and pump is turned off before removing the clamp assembly.
- 2. Loosen each clamp nut alternately until the clamp can be removed. Remove the tank top.
- 3. Lift the entire grid assembly straight up off the upper piping assembly. **Notice:** Do not keep grid assembly in the sunlight more than two hours. This will shorten life of grid cloth.

- 4. Hose the grid elements thoroughly.
- 5. Visually inspect the grid cloth for tears and check both the small upper pipe O-ring and the large tank seal for any nicks. Lubricate with petroleum jelly or silicone and clean O-ring and tank seal seat areas. Any damaged components should be replaced.
- **6.** If grid cloth is dirty and appears clogged with oil, calcium, rust or suntan lotions, it is recommended that one of the following cleaners be used:

FILTER-CLEANSE — Great Lakes Biochemical FILTER-FREE — Hydrotech Chemical Corporation KLEEN-IT — Bio Lab, Inc.

Mix a solution following the manufacturer's instructions on the label. Place the entire grid assembly in a plastic container and add the solution so the entire grid assembly is submerged. Allow to stand overnight (12 hours).

The following day wash with a hose and remove all of the solution from the grids so it does not return to the pool.

This will remove oils, scale and rust in one cleaning operation. This procedure should be done at the end of the swimming season and before the filter is stored for the winter.

- 7. Replace the grid-assembly by setting the manifold opening directly over the connector pipe. Push down on the grid assembly and check to see that it is seated properly.
- **8.** Follow the procedure for assembly of tank halves as described on the previous page.

## IF THE FILTER SYSTEM DOES NOT OPERATE PROPERLY

Cloudy water continually flowing back into the pool may indicate damaged grid or O-ring. Remove grid assembly and replace any damaged grid elements and/or upper piping assembly O-ring. Re-assemble filter as described in steps 6 thru 9 under MANUAL CLEANING. Exceedingly high filter pressure may indicate filter requires manual cleaning.

#### D.E. RECOMMENDATION

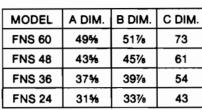
The amount of D.E. is not critical but should be between 1 and 1½ pounds for each 10 square feet of filter area or:

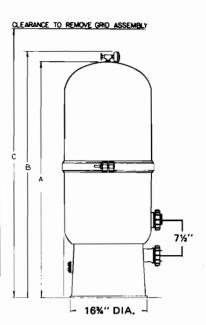
MODEL	POUNDS OF D.E.
FNS 24	2.5 — 3.5
FNS 36	3.5 — 5.5
FNS 48	5 — 7
FNS 60	6 — 9

# **AQUATECH**<sup>™</sup> D.E. FILTERS

## **REPLACEMENT PARTS**

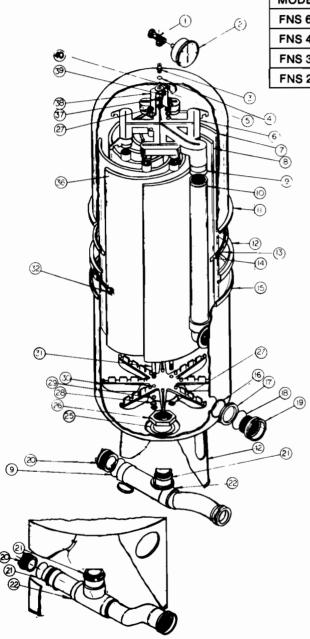
#### **DIMENSIONAL TABLE**





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36 19-5192 GRID ASSEMBLY-COMPLETE FNS 24 (Note 1) 32 19-5199 NUT-5/16"-18 BRASS MEX 2 32 19-5192 NUT-5/16"-24 BRASS 1 1 31 19-2184 ROD-5/16"x23" MANIFOLD RETNR. FNS 60 2 31 19-2184 ROD-5/16"x27" MANIFOLD RETNR. FNS 48 2 31 19-2183 ROD-5/16"x27" MANIFOLD RETNR. FNS 48 2 31 19-2184 ROD-5/16"x27" MANIFOLD RETNR. FNS 24 2 30 19-2194 RETAINER-GRID 1 1 29 19-4938 PLATE-DEFLECTOR 1 1 29 19-4938 PLATE-DEFLECTOR 1 1 26 17-4955 WASHER 5/16" SS LOCK 2 2 7 19-2013 NUT-5/16" - 16 5S 4 4 26 15-4412 LOCKNUT-2" INTERNAL 1 1 25 19-5004 WASHER POLYETHYLENE 1 1 25 19-5004 WASHER POLYETHYLENE 1 1 26 19-5219 CLOSURE - 6" 1 1 27 4494 O-RING ASSEMBLY-LOWER 1 1 29 19-5306 PIPING ASSEMBLY-LOWER 1 1 20 19-5306 PIPING ASSEMBLY-LOWER 1 1 21 27-4494 O-RING 1 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 1 21 19-5829 PLUG-2" NPSM 1 1 21 19-4693 SPACER-2" EXTERNAL 1 1 25 19-5197 TANK BOTTOM MACH-36, 46, 60 1 1 27 19-5179 TANK AND FOOT ASSY. FNS 24 1 1 29 19-5308 BAND ASSEMBLY-COMPLETE 1 1 20 19-5219 TANK AND FOOT ASSY. FNS 24 1 1 21 19-5038 BAND ASSEMBLY-COMPLETE 1 1 21 19-518 TANK BOTTOM MACH-36, 46, 60 1 1 21 19-5179 TANK AND FOOT ASSY. FNS 24 1 1 21 19-5038 BAND ASSEMBLY-UPPER FNS 60 1 1 21 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 1 21 19-5216 GRID-PARTIAL FNS 60 1 1 21 19-5216 GRID-PARTIAL FNS 60 7 1 19-2169 GRID-PARTI		36	19-5088	GRID ASSEMBLY-COMPLETE FNS 46 (Note 1)	1
32 19-5199 NUT-5/16"-16 BRASS HEX 2 32 19-5192 NUT-5/16"-24 BRASS 1 31 19-2165 ROD-5/16"x27" MANIFOLD RETNR. FNS 80 2 31 19-2163 ROD-5/16"x27" MANIFOLD RETNR. FNS 80 2 31 19-2163 ROD-5/16"x27" MANIFOLD RETNR. FNS 48 2 31 19-2162 ROD-5/16"x15" MANIFOLD RETNR. FNS 48 2 31 19-2194 RETAINER-GRID 1 29 19-4938 PLATE-DEFLECTOR 1 26 17-4955 WASHER 5/16" SS LOCK 2 27 19-2013 NUT-5/16"-16 SS 44 15-4412 LOCKNUT-2" INTERNAL 1 25 19-504 WASHER F-POLYETHYLENE 1 24 15-4493 O-RING ADAPTOR 6" FNS 1 25 19-5219 CLOSURE - 6" 1 23 19-5219 CLOSURE - 6" 1 23 19-5156 CLOSURE - 6" 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 21 27-4494 O-RING 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 19-529 PLUG-2" NPSM 1 19-5829 PLUG-2" NPSM 1 19 19-4801 BULKHEAD - 2" W/GROOVE 1 16 19-2220 O-RING-BULKHEAD 1 17 19-4803 SPACER-2" EXTERNAL 1 18 15-4492 O-RING-2" BULKHEAD 1 19 19-5176 TANK BOTTOM MACH-36, 46, 60 1 15 19-5179 TANK AND FOOT ASSY. FNS 36, 48, 80 1 15 19-5179 TANK AND FOOT ASSY. FNS 24 1 14 19-5038 BAND ASSEMBLY-LOWER 1 15 19-5179 TANK AND FOOT ASSY. FNS 24 1 14 19-5038 BAND ASSEMBLY-COMPLETE 1 19 19-5816 TOP-TANK FNS 80 1 10 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 10 19-5216 GRID-PARTIAL FNS 80 1 10 19-5216 GRID-PARTIAL FNS 80 1 10 19-5216 GRID-PARTIAL FNS 80 1 10 19-5216 GRID-PARTIAL FNS 24 1 1 19-2166 GRID-PARTIAL FNS 24 7 1 19-2167 GRID-PARTIAL FNS 24 7 1 19-2169 GRID-PARTIAL FNS 24 7 1 19-2169 GRID-PARTIAL FNS 24 7 1 19-2169 GRID-PARTIAL FNS 26 7 1 19-2169 GRID		36	19-5163	GRID ASSEMBLY-COMPLETE FNS 36 (Note 1)	1
32 19-5199 NUT-5/16"-16 BRASS HEX 2 32 19-5192 NUT-5/16"-24 BRASS 1 31 19-2165 ROD-5/16"x27" MANIFOLD RETNR. FNS 80 2 31 19-2163 ROD-5/16"x27" MANIFOLD RETNR. FNS 80 2 31 19-2163 ROD-5/16"x27" MANIFOLD RETNR. FNS 48 2 31 19-2162 ROD-5/16"x15" MANIFOLD RETNR. FNS 48 2 31 19-2194 RETAINER-GRID 1 29 19-4938 PLATE-DEFLECTOR 1 26 17-4955 WASHER 5/16" SS LOCK 2 27 19-2013 NUT-5/16"-16 SS 44 15-4412 LOCKNUT-2" INTERNAL 1 25 19-504 WASHER F-POLYETHYLENE 1 24 15-4493 O-RING ADAPTOR 6" FNS 1 25 19-5219 CLOSURE - 6" 1 23 19-5219 CLOSURE - 6" 1 23 19-5156 CLOSURE - 6" 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 21 27-4494 O-RING 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 19-529 PLUG-2" NPSM 1 19-5829 PLUG-2" NPSM 1 19 19-4801 BULKHEAD - 2" W/GROOVE 1 16 19-2220 O-RING-BULKHEAD 1 17 19-4803 SPACER-2" EXTERNAL 1 18 15-4492 O-RING-2" BULKHEAD 1 19 19-5176 TANK BOTTOM MACH-36, 46, 60 1 15 19-5179 TANK AND FOOT ASSY. FNS 36, 48, 80 1 15 19-5179 TANK AND FOOT ASSY. FNS 24 1 14 19-5038 BAND ASSEMBLY-LOWER 1 15 19-5179 TANK AND FOOT ASSY. FNS 24 1 14 19-5038 BAND ASSEMBLY-COMPLETE 1 19 19-5816 TOP-TANK FNS 80 1 10 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 10 19-5216 GRID-PARTIAL FNS 80 1 10 19-5216 GRID-PARTIAL FNS 80 1 10 19-5216 GRID-PARTIAL FNS 80 1 10 19-5216 GRID-PARTIAL FNS 24 1 1 19-2166 GRID-PARTIAL FNS 24 7 1 19-2167 GRID-PARTIAL FNS 24 7 1 19-2169 GRID-PARTIAL FNS 24 7 1 19-2169 GRID-PARTIAL FNS 24 7 1 19-2169 GRID-PARTIAL FNS 26 7 1 19-2169 GRID		36	19-5162	GRID ASSEMBLY-COMPLETE FNS 24 (Note 1)	1
32		32	19-5199		2
31 19-2185 ROD-5/18"x33" MANIFOLD RETNR. FNS 86 2 31 19-2184 ROD-5/18"x27" MANIFOLD RETNR. FNS 86 2 31 19-2182 ROD-5/18"x27" MANIFOLD RETNR. FNS 36 2 31 19-2194 RETAINER-GRID 1 29 19-4938 PLATE-DEFLECTOR 1 26 17-4955 WASHER 5/18" SS LOCK 2 27 19-2013 NUT-5/16"-16 SS 10CK 2 27 19-2013 NUT-5/16"-16 SS 10CK 2 28 15-4412 LOCKNUT-2" INTERNAL 1 25 19-5004 WASHER-POLYETHYLENE 1 25 19-5004 WASHER-POLYETHYLENE 1 26 15-4412 CLOSURE - 6" 1 27 19-5219 CLOSURE - 6" 1 29 19-5196 CLOSURE - 6" 1 20 19-5209 PIPING ASSEMBLY-LOWER 1 21 19-5209 PIPING ASSEMBLY-LOWER 1 22 19-5107 PIPING ASSEMBLY-LOWER 1 21 19-5200 O-RING-BULKHEAD 1 20 19-5829 PLUG-2" NPSM 1 31 19-4801 BULKHEAD - 2" W/GROOVE 1 31 19-5815 TANK BOTTOM MACH-26, 46, 60 1 31 19-5305 BAND ASSEMBLY-COMPLETE 1 31 19-5178 TANK AND FOOT ASSY. FNS 36, 48, 80 1 31 19-5370 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5310 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5310 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5310 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5310 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5310 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5310 O-RING-TANK ND TOOT ASSY. FNS 36, 48, 80 1 31 19-5216 PIPING ASSEMBLY-UPPER FNS 60 1 31 19-5217 TOP-TANK FNS 60 1 31 19-5213 PIPING ASSEMBLY-UPPER FNS 60 1 31 19-5214 PIPING ASSEMBLY-UPPER FNS 60 1 31 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 31 19-5216 PIPING ASSEMBLY-UPPER FNS 36 1 31 19-5216 PIPING ASSEMBLY-UPPER FNS 60 1 31 19-5216 PIPING ASSEMBLY-UPPER FNS 36 1 31 19-5216 PIPING ASSEMBLY-UPPER FNS 60 1 31 19-5216 PIPING ASSEMBLY-UPPER FNS 36 1 31 19-5216 PIPING ASSEMBLY-UPPER FN					<del>-</del>
31 19-2184 ROD-5/16"x27" MANIFOLD RETNR. FNS 48 2 31 19-2182 ROD-5/16"x21" MANIFOLD RETNR. FNS 38 2 30 19-2194 RETAINER-GRID 29 19-4938 PLATE-DEFLECTOR 1 28 17-4955 WASHER 5/16" SS LOCK 2 27 19-2013 NUT-5/16" - 16 SS 4 28 15-4412 LOCKNUT-2" INTERNAL 1 25 19-5004 WASHER POLYETHYLENE 1 25 19-5004 WASHER-POLYETHYLENE 1 26 115-4493 O-RING ADAPTOR 6" FNS 1 27 19-219 CLOSURE - 6" 1 28 19-5219 CLOSURE - 6" 1 29 19-5306 PIPING ASSEMBLY-LOWER 1 20 19-5306 PIPING ASSEMBLY-LOWER 1 21 27-4494 O-RING 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 21 19-5829 PLUG-2" NPSM 1 22 19-5490 O-RING-2" BULKHEAD 1 23 19-5520 O-RING-BULKHEAD 1 24 15-4492 O-RING-2" BULKHEAD 1 25 19-5615 TANK BOTTOM MACH-36, 48, 60 1 26 19-5179 TANK AND FOOT ASSY. FNS 24 1 27 19-5180 BAND ASSEMBLY-COMPLETE 1 28 19-5180 PLOTAINK 1 29 19-5198 BAND ASSEMBLY-COMPLETE 1 29 19-5219 O-RING-TANK 1 20 19-5218 PIPING ASSEMBLY-DPPER FNS 60 1 20 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 21 19-5216 GRID-PARTIAL FNS 60 1 21 19-5216 GRID-PARTIAL FNS 60 1 21 19-2220 GRID-PARTIAL FNS 60 1 21 19-2231 GRID-PARTIAL FNS 60 1 21 19-2232 GRID-PARTIAL FNS 60 1 21 19-2233 GRID-PARTIAL FNS 60 1 21 19-2248 GRID-PARTIAL FNS 60 1 21 19-2259 GRID-PARTIAL FNS 60 7 21 19-2169 GRID FNS 60 7 21 19-2160 GRID FNS 60 7 21 19					<del>-</del>
31 19-2183 ROD-5/18" 2114" MANIFOLD RETNR. FNS 36 2 31 19-2194 RETAINER-GRID 1 30 19-2194 RETAINER-GRID 1 29 19-4938 PLATE-DEFLECTOR 1 26 17-495 WASHER 5/18" SS LOCK 2 27 19-2013 NUT-5/18" - 18 SS 4 26 15-4412 LOCKNUT-2" INTERNAL 1 25 19-5004 WASHER-POLYETHYLENE 1 24 15-4493 O-RING ADAPTOR 6" FNS 1 23 19-5219 CLOSURE - 6" 1 23 19-5219 CLOSURE - 6" 1 23 19-5107 PIPING ASSEMBLY-LOWER 1 20 19-5306 PIPING ASSEMBLY-LOWER 1 21 27-4494 O-RING 1 22 19-5306 PIPING ASSEMBLY-LOWER 1 21 27-4494 O-RING 1 22 19-5209 PLUG-2" NPSM 1 21 19-4801 BULKHEAD - 2" W/GROOVE 1 28 19-5209 PLUG-2" BULKHEAD 1 29 19-5200 O-RING-BULKHEAD 1 20 19-520 O-RING-BULKHEAD 1 21 19-5492 O-RING-Z" BULKHEAD 1 21 19-5492 O-RING-Z" BULKHEAD 1 22 19-5308 BAND ASSEMBLY-LOWER 1 23 19-5179 TANK AND FOOT ASSY. FNS 36, 48, 80 1 25 19-5179 TANK AND FOOT ASSY. FNS 36, 48, 80 1 29 19-5308 BAND ASSEMBLY-COMPLETE 1 20 19-5308 BAND ASSEMBLY-COMPLETE 1 21 19-5318 TANK BOTTOM MACH-36, 40, 00 1 21 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 21 19-5216 PIPING ASSEMBLY-UPPER FNS 60 1 21 19-5213 PIPING ASSEMBLY-UPPER FNS 60 1 21 19-5214 PIPING ASSEMBLY-UPPER FNS 60 1 21 19-5215 PIPING ASSEMBLY-UPPER FNS 60 1 21 19-5216 GRID-PARTIAL FNS 80 1 21 19-2323 O-RING 2 22 GRID-PARTIAL FNS 80 7 23 PIPING ASSEMBLY-UPPER FNS 24 1 24 19-2324 GRID-PARTIAL FNS 80 7 25 PIPING ASSEMBLY-UPPER FNS 24 1 26 19-2325 GRID-PARTIAL FNS 80 7 27 19-2169 GRID-PARTIAL FNS 26 7 28 PIPING ASSEMBLY-UPPER FNS 26 7 29 19-2167 GRID-PARTIAL FNS 26 7 21 19-2169 GRID FNS 80 7 21 19-2160 GRID FNS 8					<u> </u>
31 19-2182 ROD-5/16"x15\" MANIFOLD RETNR. FNS 24 2 30 19-2194 RETAINER-GRID 29 19-4938 PLATE-DEFIECTOR 1 26 17-4955 WASHER 5/16" SS LOCK 2 27 19-2013 NUT-5/16" -18 SS 4 26 15-4412 LOCKNUT-2" INTERNAL 1 25 19-5004 WASHER-POLYETHYLENE 1 24 15-4493 O-RING ADAPTOR 6" FNS 1 23 19-5156 CLOSURE - 6" 1 23 19-5156 CLOSURE - 6" 1 22 19-5107 PIPING ASSEMBLY-LOWER 1 21 19-5308 PIPING ASSEMBLY-LOWER 1 22 19-5308 PIPING ASSEMBLY-LOWER 1 20 19-5829 PLUG-2" NPSM 1 19 19-4801 BULKHEAD - 2" W/GROOVE 1 18 19-220 O-RING-BULKHEAD 1 17 19-4803 SPACER-2" EXTERNAL 1 18 15-4492 O-RING-BULKHEAD 1 15 19-5815 TANK BOTTOM MACH-36, 46, 60 1 15 19-5814 TANK BOTTOM MACH-36, 46, 60 1 15 19-5179 TANK AND FOOT ASSY, FNS 36, 48, 80 1 15 19-5178 TANK AND FOOT ASSY, FNS 36, 48, 80 1 19 -19-5036 BAND ASSEMBLY-LOWER 1 11 19-5037 RETAINER - 19 17/84" DIA. O-RING 1 11 19-5818 TOP-TANK FNS 80 1 11 19-5818 TOP-TANK FNS 80 1 11 19-5818 TOP-TANK FNS 80 1 10 19-5215 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5215 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5213 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5214 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5215 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5216 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5213 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5214 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5215 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5216 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5217 PIPING ASSEMBLY-UPPER FNS 40 1 10 19-5218 GRID-PARTIAL FNS 40 1 10 19-5219 GRID-PARTIAL FNS 40 1 10 19-5210 GRID-PARTIAL FNS 40 1 10 19-5210 GRID-PARTIAL FNS 40 1 10 19-2180 GRID-PARTIAL FNS 40 1 10 19-2181 GRID-PARTIAL FNS 24 7 19-2182 GRID-PARTIAL FNS 24 7 19-2183 GRID-PARTIAL FNS 24 7 19-2186 GRID-FNS 40 7 19-2187 GRID-PULL FNS 30 7 19-2188 GRID-PARTIAL FNS 24 7 19-2189 GRID-PARTIAL FNS 24 7 19-2180 GRID-PARTIAL FNS 24 7 19-2181 GRID-FNS 40 7 19-2181 GRID-FNS 40 7 19-2182 GRID-PARTIAL FNS 24 7 19-2183 GRID-PARTIAL FNS 24 7 19-2184 GRID-PARTIAL FNS 24 7 19-2185 GRID-PARTIAL FNS 24 7 19-2186 GRID-PARTIAL FNS 24 7 19-2187 GRID-PARTIAL FNS 24 7 19-2188 GRID-PARTIAL FNS 24 7 19-2189 GR					
19-2194   RETAINER-GRID   1   19-4936   PLATE-DEFLECTOR   1   17-4955   WASHER 5/18" SS LOCK   2   17-4955   WASHER 5/18" SS LOCK   2   19-2013   NUT-5/18" - 16 SS   4   2   19-2014   NUT-5/18" - 16 SS   4   2   19-5004   WASHER-POLYETHYLENE   1   19-5004   WASHER-POLYETHYLENE   1   19-5156   CLOSURE - 6"   1   2   19-5156   CLOSURE - 6"   1   2   19-5107   PIPING ASSEMBLY-LOWER   1   2   19-5107   PIPING ASSEMBLY-LOWER   1   2   19-5209   PIPING ASSEMBLY-LOWER   1   19-5209   PIPING ASSEMBLY-LOWER   1   19-4801   BULKHEAD - 2" W/GROOVE   1   19-4801   BULKHEAD - 2" W/GROOVE   1   19-4803   SPACER-2" EXTERNAL   1   19-5200   O-RING-BULKHEAD   1   19-5815   TANK BOTTOM MACH-36, 46, 60   1   19-5179   TANK AND FOOT ASSY. FNS 36, 48, 80   1   19-5179   TANK AND FOOT ASSY. FNS 36, 48, 80   1   19-5179   TANK AND FOOT ASSY. FNS 36, 48, 80   1   19-5170   RETAINER - 19 17/84" DIA. O-RING   1   19-5818   TOP-TANK FNS 80   1   19-5216   PIPING ASSEMBLY-UPPER FNS 60   1   19-5216   PIPING ASSEMBLY-UPPER FNS 60   1   19-5216   PIPING ASSEMBLY-UPPER FNS 60   1   19-5213   PIPING ASSEMBLY-UPPER FNS 60   1   19-5214   PIPING ASSEMBLY-UPPER FNS 60   1   19-5215   PIPING ASSEMBLY-UPPER FNS 60   1   19-5214   PIPING ASSEMBLY-UPPER FNS 60   1   19-5215   PIPING ASSEMBLY-UPPER FNS 60   1   19-5216   GRID-PARTIAL FNS 60   1   19-5216   GRID-PARTIAL FNS 60   7   19-2186   GRID-PARTIAL FNS 60					<u> </u>
29 19-4936 PLATE-DEFLECTOR 28 17-4955 WASHER 5/16" SS LOCK 27 19-2013 NUT-5/16"-16 SS 4 19-5004 WASHER-POLYETHYLENE 28 19-5004 WASHER-POLYETHYLENE 29 19-5107 PIPING ASSEMBLY-LOWER 21 19-5219 CLOSURE - 6" 22 19-5107 PIPING ASSEMBLY-LOWER 21 19-5306 PIPING ASSEMBLY-LOWER 21 19-5306 PIPING ASSEMBLY-LOWER 21 19-509 PIPING ASSEMBLY-LOWER 21 19-5409 BULKHEAD - 2" W/GROOVE 21 19-5409 BULKHEAD - 2" W/GROOVE 21 19-5409 O-RING-2" BULKHEAD 21 19-5409 O-RING-2" BULKHEAD 21 19-5515 TANK BOTTOM MACH-36, 48, 60 21 19-5515 TANK BOTTOM MACH-36, 48, 60 21 19-577 TANK AND FOOT ASSY. FNS 36, 48, 60 21 19-578 TANK AND FOOT ASSY. FNS 36, 48, 60 21 19-5038 BAND ASSEMBLY-COMPLETE 21 19-5038 BAND ASSEMBLY-COMPLETE 21 19-5038 BAND ASSEMBLY-COMPLETE 21 19-5038 BAND ASSEMBLY-UPPER FNS 60 21 19-5215 PIPING ASSEMBLY-UPPER FNS 60 21 19-5215 PIPING ASSEMBLY-UPPER FNS 60 21 19-5215 PIPING ASSEMBLY-UPPER FNS 60 21 19-5214 PIPING ASSEMBLY-UPPER FNS 60 21 19-5233 GRID-PARTIAL FNS 60 21 19-2334 GRID-PARTIAL FNS 60 21 19-2335 GRID-PARTIAL FNS 60 21 19-2336 GRID-PARTIAL FNS 60 21 19-2169 GRID FNS 60 22 15-5050 GAUGE-BACKMOUNT PRESSURE		_		ROD-5/16"x15½" MANIFOLD RETNR. FNS 24	2
28 17-4955 WASHER 5/18" SS LOCK 27 19-2013 NUT-5/18" - 18 SS 28 15-4412 LOCKNUT-2" INTERNAL 25 19-5004 WASHER-POLYETHYLENE 1 19-5004 WASHER-POLYETHYLENE 24 15-4693 O-RING ADAPTOR 6" FNS 1 23 19-5219 CLOSURE - 6" 23 19-5219 CLOSURE - 6" 21 19-5107 PIPING ASSEMBLY-LOWER 21 19-5308 PIPING ASSEMBLY-LOWER 22 19-5308 PIPING ASSEMBLY-LOWER 21 19-5829 PLUG-2" NPSM 20 19-5829 PLUG-2" NPSM 21 19-4693 SPACER-2" EXTERNAL 25 19-5615 TANK BOTTOM MACH-36, 46, 60 26 15 19-5615 TANK BOTTOM MACH-36, 46, 60 27 19-5179 TANK AND FOOT ASSY. FNS 24 28 19-5310 O-RING-TANK 29 19-5318 BAND ASSEMBLY-COMPLETE 29 19-5308 BAND ASSEMBLY-COMPLETE 20 19-5516 TOP-TANK FNS 80 21 19-5516 TOP-TANK FNS 80 21 19-5516 TOP-TANK FNS 80 21 19-5216 PIPING ASSEMBLY-UPPER FNS 46 21 19-5213 PIPING ASSEMBLY-UPPER FNS 46 21 19-5233 GRID-PARTIAL FNS 80 21 19-5233 GRID-PARTIAL FNS 80 21 19-2323 GRID-PARTIAL FNS 80 21 19-2323 GRID-PARTIAL FNS 80 22 GRID-PARTIAL FNS 80 23 GRID-PARTIAL FNS 80 24 19-2324 GRID-PARTIAL FNS 80 25 GRID-PARTIAL FNS 80 26 19-2325 GRID-PARTIAL FNS 80 27 19-2166 GRID FNS 48 28 19-2326 GRID-PARTIAL FNS 98 29 19-2327 GRID-PARTIAL FNS 98 20 19-2167 GRID-FULL FNS 24 21 15-4881 O-RING-AISS BLEEDER ADAPTOR 21 15-5050 GAUGE-BACKMOUNT PRESSURE		30	19-2194	RETAINER-GRID	1
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8 19-2332 GRID-PARTIAL FNS 48 1 6 19-2330 GRID-PARTIAL FNS 38 1 7 19-2169 GRID-PARTIAL FNS 24 1 7 19-2168 GRID-FNS 46 7 7 19-2168 GRID-FNS 46 7 7 19-2168 GRID-FULL FNS 36 7 7 19-2168 GRID-FULL FNS 36 7 7 19-2173 MANIFOLD GRID 1 5 27-3061 WASHER-%"SS 1 4 15-4861 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 1 15-5050 GAUGE-BACKMOUNT PRESSURE 1		9	19-2323	O-RING	2
8 19-2330 GRID-PARTIAL FMS 38 1 6 19-2328 GRID-PARTIAL FMS 24 1 7 19-2169 GRID FMS 40 7 7 19-2167 GRID-FMS 48 7 7 19-2167 GRID-FMLL FMS 38 7 7 19-2188 GRID-FMLL FMS 24 7 8 19-2193 MANIFOLD GRID 1 5 27-3061 WASMER-W'S 1 4 115-486 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1		6	19-2334	GRID-PARTIAL FNS 60	1
6 19-2326 GRID-PARTIAL FNS 24 1 7 19-2169 GRID FNS 60 7 7 19-2168 GRID FNS 48 7 7 19-2167 GRID-FULL FNS 36 7 7 19-2168 GRID-FULL FNS 24 7 6 19-2193 MANIFOLD GRID 1 5 27-3061 WASHER-W-SS 1 4 15-4881 O-RING-AIR BLEEDER ADAPTOR 3 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 1 15-5050 GAUGE-BACKMOUNT PRESSURE 1		6	19-2332	GRID-PARTIAL FNS 48	1
6 19-2326 GRID-PARTIAL FNS 24 1 7 19-2169 GRID FNS 60 7 7 19-2168 GRID FNS 48 7 7 19-2167 GRID-FULL FNS 36 7 7 19-2168 GRID-FULL FNS 24 7 6 19-2193 MANIFOLD GRID 1 5 27-3061 WASHER-W-SS 1 4 15-4881 O-RING-AIR BLEEDER ADAPTOR 3 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 1 15-5050 GAUGE-BACKMOUNT PRESSURE 1			19-2330	GRID-PARTIAL FNS 38	1
7 19-2189 GRID FNS 80 7 7 19-2188 GRID FNS 48 7 7 19-2187 GRID-FULL FNS 38 7 7 19-2187 GRID-FULL FNS 24 7 8 19-2193 MANIFOLD GRID 15 5 27-3081 WASHER-H" SS 1 4 15-4881 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1					_
7 19-2186 GRID FNS 48 7 7 19-2187 GRID-FULL FNS 38 7 7 19-2186 GRID-FULL FNS 24 7 8 19-2193 MANIFOLD GRID 1 5 27-3061 WASHER-W'SS 1 4 15-4861 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1					_
7 19-2187 GRID-FULL FNS 38 7 7 19-2188 GRID-FULL FNS 24 7 8 19-2193 MANIFOLD GRID 1 5 27-3061 WASHER-W'SS 1 4 15-4861 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1		-			
7 19-2188 GRID-FULL FNS 24 7 8 19-2193 MANIFOLD GRID 1 5 27-3081 WASHER		_			
8 19-2193 MANIFOLD GRID 1 5 27-3081 WASHER-1					_
5 27-3061 WASHER-'H' SS 1 4 15-4881 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1					7
4 15-4881 O-RING-AIR BLEEDER ADAPTOR 1 3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1		6	19-2193	MANIFOLD GRID	1
3 15-4700 ADAPTOR-BRASS AIR BLEEDER 1 2 15-5050 GAUGE-BACKMOUNT PRESSURE 1		5	27-3061	WASHER-4" SS	1
2 15-5050 GAUGE-BACKMOUNT PRESSURE 1		4	15-4661	O-RING-AIR BLEEDER ADAPTOR	1
2 15-5050 GAUGE-BACKMOUNT PRESSURE 1		3	15-4700	ADAPTOR-BRASS AIR BLEEDER	1
		2			1
		1			1
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NOTE 1: COMPLETE GRID ASSEMBLY CONSISTS OF: ONE EACH OF ITEMS 6, 30, 29 AND 8; TWO EACH OF ITEMS 27 AND 31; SEVEN EACH OF ITEM 7.

LOWER PIPING ASSEMBLY P/N 19-5107 INCLUDES ITEMS 9, 20, 21, 22

• REPLACEMENT PARTS FOR FILTERS BUILT AFTER NOV. 1988

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