



Installation
and Operation
Instruction
Manual

INSMAN-105

High Rate
Basket Strainer

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Table of Contents

GENERAL SAFETY GUIDELINES.....	3
GENERAL INSTALLATION GUIDELINES.....	4
FILTER SYSTEM START-UP PROCEDURE.....	4
CLEANING OF FILTRATION SYSTEM.....	5

GENERAL SAFETY GUIDELINES

Please read the entire manual before beginning any procedure.

1. Only properly trained personnel should operate and service the equipment.
2. Always wear proper safety gear when servicing equipment.
3. Before installing the system, ensure that the system falls within the designed operating parameters.
4. Know the safety operating limits of the system and any equipment directly connected to or affected by it.
5. Be sure that the system is depressurized before any maintenance work, removing components or opening of the vessels.
6. Be sure to re-examine the system before putting it back into service.
7. Be sure to maintain all equipment and to continuously check the system for leaks and or damage. Fixing problems as they occur will prolong the life of the system.

GENERAL INSTALLATION GUIDELINES

Remove all shipping and crating materials carefully. Be sure to remove any packing plugs from the inlet and outlet openings. Dispose of all crating materials as required by local refuse requirements.

Note: Some installations may require electrical grounding of all equipment. Be sure to provide adequate grounding wherever necessary and/or required.

After completing the installation, be sure to inspect all connections for system operational integrity. Yardney High Rate Basket Strainers are factory pressure tested and inspected for leaks prior to shipment. If any leaks become evident, this will most likely be a result of improper installation. Please insure that there are no stressed flange or grooved connections that will create unnecessary stress on either the piping and/or the Yardney High Rate Basket Strainer itself.

Before replacing the cover assembly, inspect the cover seal gasket (replace if worn or cracked). Replace the screen cover (and gasket) and securely tighten the bolts to ensure a leakproof seal between the cover and the housing body.

Install pressure gauges to monitor the upstream pressure (high pressure) and downstream pressure (low pressure) conditions. By installing these gauges, you will be able to monitor the differential pressure and determine if the basket needs to be cleaned or requires some type of maintenance.

FILTER SYSTEM START-UP PROCEDURE

Prior to introducing fluid into the strainer, please follow the checklist below:

1. Check inside filter unit to be sure the basket does not require cleaning or replacement. If necessary, clean or replace the polypropylene filter sock.
2. Check that the filter cover is securely fastened to the housing. You are now ready to open the flow to the inlet service line. Slowly open the inlet service line to approximately 25% of the system's normal operational flow. After the filter unit is pressurized and vented, slowly open the system line valve until desired flow rate is reached.

Once the desired system flow has been established, the filter will operate efficiently until it becomes loaded with particulates. Under no circumstances should this system achieve more than 15 PSI differential pressure through the strainer. Operating the filter/strainer unit with a high differential pressure may cause the filter to rupture and/or cause damage to filter/strainer system and downstream equipment.

To prevent excessive pressure-drop through the strainer, regular inspection of the filter is required. Monitoring of differential pressure through the housing can be used as a means of determining whether the filter needs to be cleaned or replaced.

CLEANING OF FILTRATION SYSTEM

When it becomes necessary to clean or replace the basket/polypropylene sock, follow the procedure outlined below:

1. Turn the system off or remove any flow to the filter/strainer prior to removing the service lid.
2. Close the flow from the filter/strainer to prevent particulates from flowing into the filtered system.
3. Relieve any pressure from the system by releasing the pressure at the drain valve.
4. Drain the housing sufficiently to access filter basket.
5. Remove cover to allow access to the filter/strainer assembly.
6. Remove debris and sludge from inside the inlet portion of the housing to avoid interference with the cover, seal or flow of the fluid being filtered.
7. Clean the filter basket and filter mesh as needed. Be sure filter basket is properly seated inside the housing.
8. Inspect cover gasket for cuts or other signs of failure, replace if necessary, and make sure it is properly seated.
9. Reposition the cover onto the housing, install the bolts and securely tighten to ensure a leak proof seal between the cover and housing body.

Please contact your local Yardney representative if you have any questions regarding operation and/or maintenance on any Yardney Water Management Systems products.

NOTE: Replacement filter mesh is available in 40, 80, 100, 150 and 200 mesh sizes. Gaskets, pressure gauges and other supply items are also available from your Yardney Filter distributor.

