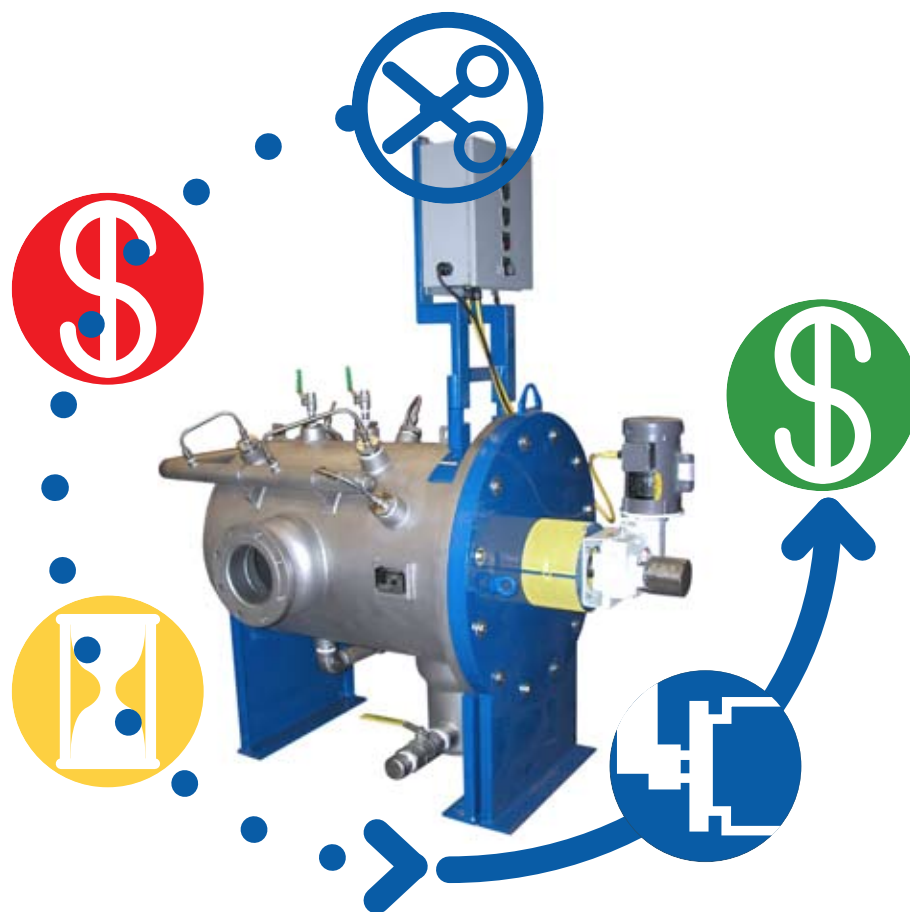


Cut maintenance **costs** and **downtime** and still increase **productivity**?

It's proven with Fluid Engineering 's

Model 763 Automatic Slurry Strainer/Mixer (Patent No. 7,981,282).



### **Fluid Engineering's Patent Pending Advantages**

**Inline pipeline design** - For lower setup costs and more efficient flow









**Rotating perforated screen** - One piece basket assembly with sealed bearings for tight seals and durability

**Exclusive built-in agitator screen design** - Creates a more homogeneous mash mixture for faster processing

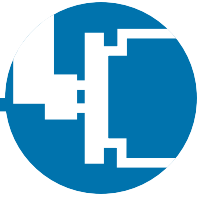
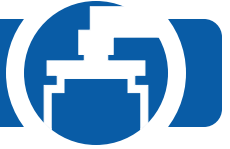
**Integrated impelling auger** - Promotes continuous flow, which deters against internal residual build up

**Adjustable scraper blade(s)** - Allows fine adjustment for varying scraping tolerances

**Large retention drain** - Able to collect debris and particles away from the normal flow area

We manufacture  bag filters,  basket strainers,  cone strainers,  "Y" strainers,  simplex strainers,  duplex strainers,  gravity strainers, and our patented  automated strainers. Fluid Engineering has developed and manufactured new product lines for a wide variety of commercial and industrial applications and holds numerous patents pertaining to the filtration of liquid and gas technologies. Contact us for more information on how to efficiently utilize every biofuel drop.

**Engineered Products for Demanding Applications, Performance, and Service**



## Model 763 Automatic Slurry Strainer/Mixer with Scraper (Patent No. 7,981,282)

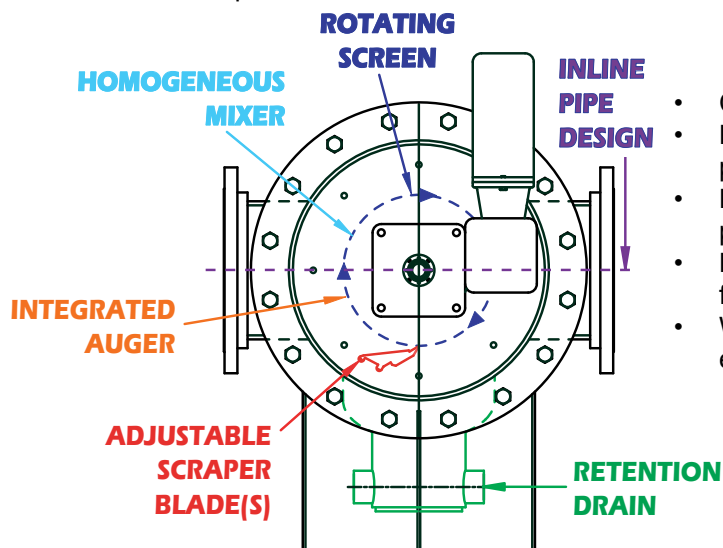
The Model 763 Automatic Slurry Strainer/Mixer with Scraper provides removal of solids and debris without flow interruption. The strainer is designed for applications that have heavy solids loading with particles ranging from 75 micron to 12mm (0.003" to 1/2" diameter particle).

The inlet and outlet is inline to fit most piping arrangements. The inlet area is designed as a first stage separator, allowing particles that have a heavy density to settle out before reaching the screen. The retention drain has a large holding capacity. This drain is not located in the normal flow area so that it does not experience any agitation or fluid velocity. The unit is designed for continuous cleaning cycle or a timed cleaning cycle. The valve on the blow off connection can be timed, cycled for cleaning, or manually operated.

This unit has rails to aide in the removal of the screen and in the adjustment of the scraper blade. When adjusting the scraper blade, the screen can be manually turned for fine adjustment. The screen and scraper blade is a one piece sub-assembly. All screens are fabricated and machined for a tight tolerance and true running surface. The blade can be manufactured from various metals and plastics.



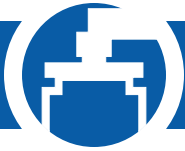
**Control panel mounting location optional**



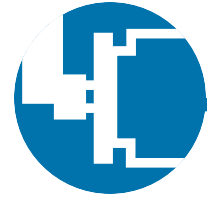
### Applications

- Chemical and Ethanol - Slurry process/recycle
- Process Industries - Protect heat exchangers, pumps, valves, and water spray nozzles
- Power Industry - Protect heat exchangers, pump seals, and boiler wash water nozzles
- Pulp and Paper - White water and black liquor filtration
- Wastewater Treatment - Straining secondary effluent, spray nozzles, and service water

**"Engineered Products for Demanding Applications, Performance, and Service"**



## Model 763 Automatic Slurry Strainer/Mixer with Scraper (Patent No. 7,981,282)

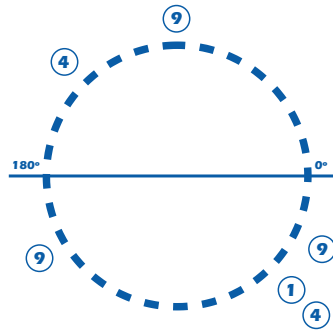


### Integrated Auger/Screen Assembly

- Allows for continuous movement of strained mixture
- Auger/screen assembly rotates 2 RPM
- Custom auger specifications may be considered



### Scraper Quantities and Placement



Size	Qty	Position
4" 102 mm	1	315°
6" 152 mm	1	315°
8" 203 mm	4 (2 sets of 2)	135, 315°
10" 254 mm	4 (2 sets of 2)	135°, 315°
12" 305 mm	4 (2 sets of 2)	135°, 315°
14" 356 mm	9 (3 sets of 3)	90°, 210°, 330°
16" 406 mm	9 (3 sets of 3)	90°, 210°, 330°

#### **Standard Design Options:**

##### **Material Options:**

- Carbon steel
- 316 stainless steel
- 304 stainless steel

##### **Basket/Screen Options:**

###### **-Wedge Wire Screen**

###### **-Basket Perforations**

- 3/16"
- 7/32"
- 15/64"
- 1/4"

##### **Scraper Blade Options:**

- 17-4PH

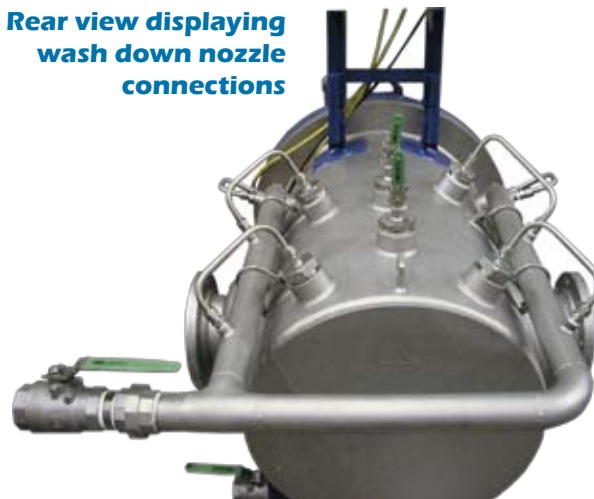
##### **Optional Accessories:**

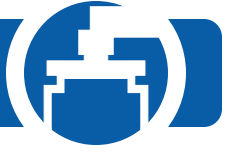
- Brush attachment
- Spray nozzle

##### **Operating Pressure:**

- 150psig @210°F
- 65psig @210°F

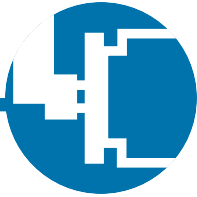
Rear view displaying wash down nozzle connections



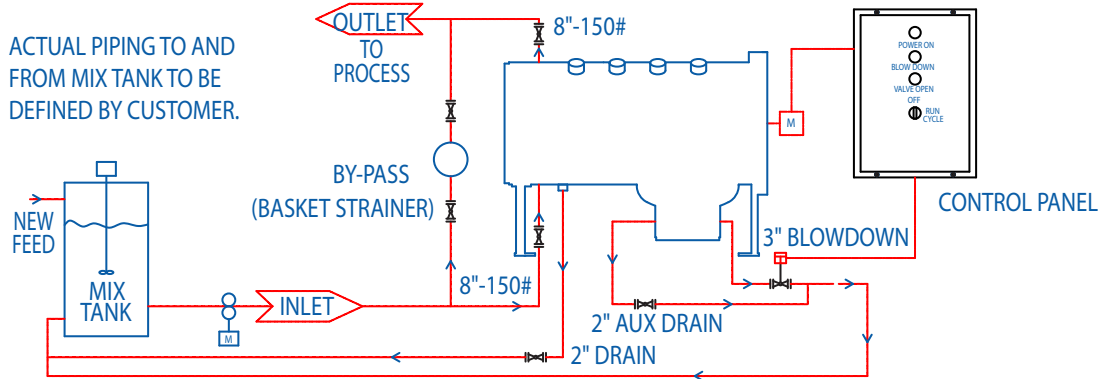


## Model 763 Automatic Slurry Strainer/Mixer with Scraper (Patent No. 7,981,282)

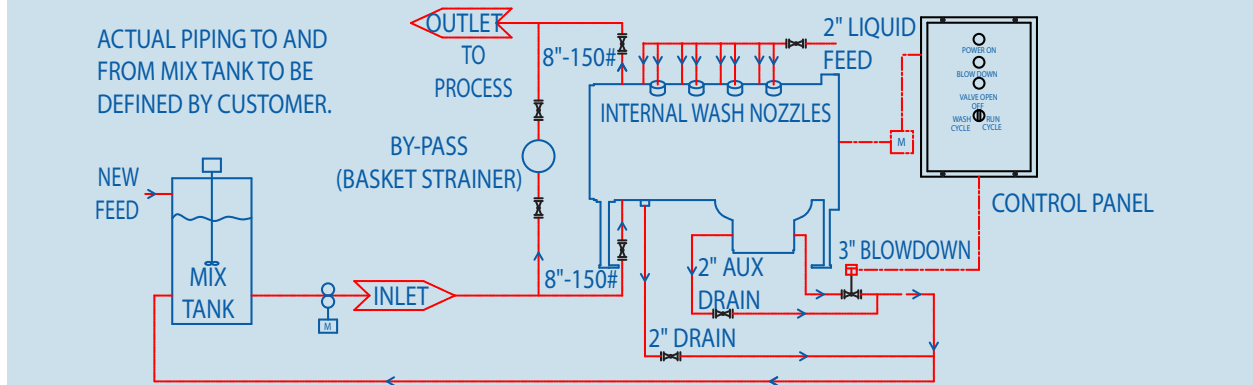
### Optional Cleaning Cycle Configurations



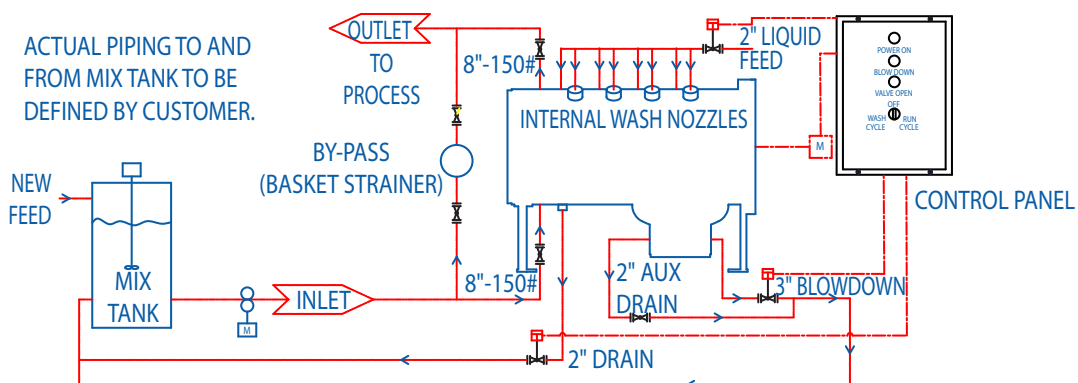
#### Standard Manual Drain



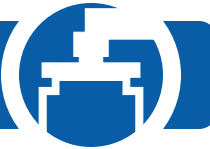
#### Manual Wash



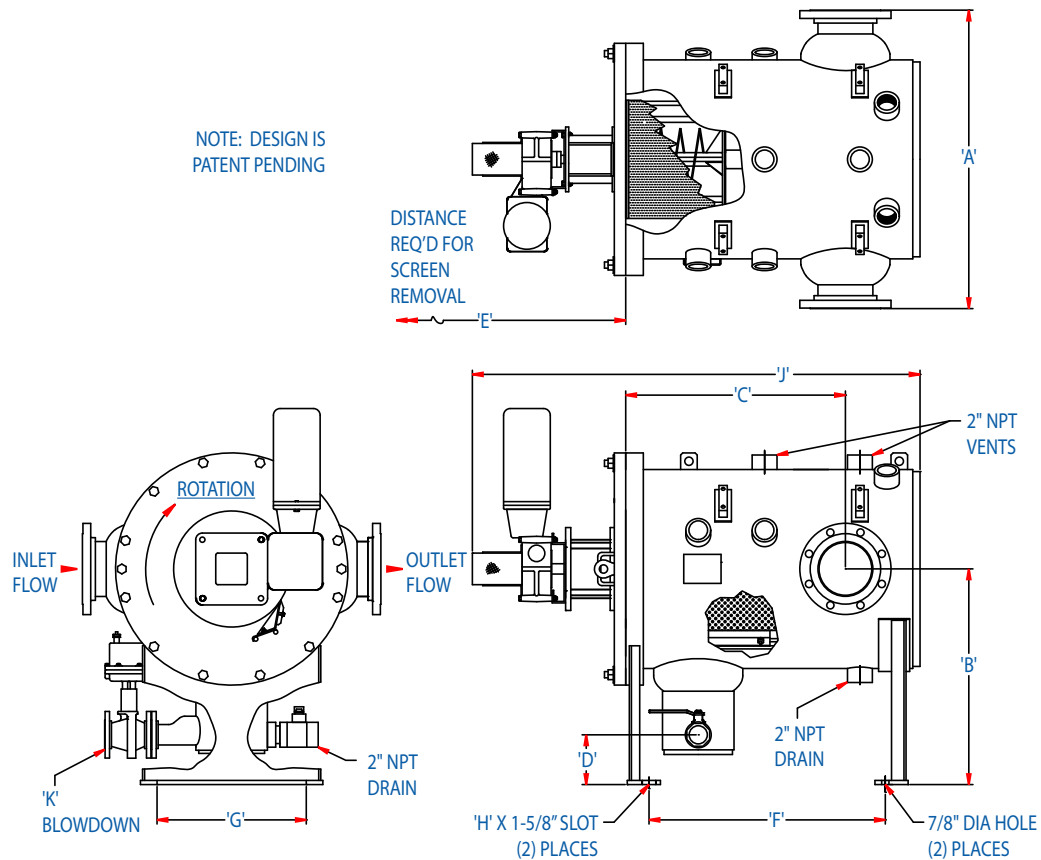
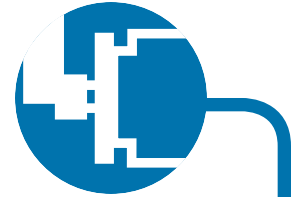
#### Automated Wash



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## Model 763 Automatic Slurry Strainer/Mixer with Scraper (Patent No. 7,981,282)

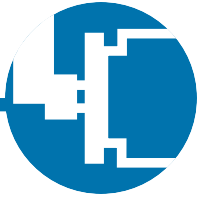
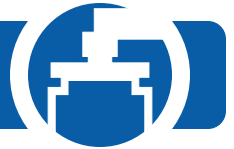


MODEL NO.	INLET	OUTLET	A	B	C	D	E	F	G	H	J	K
763-040	3"-150# 76 mm	3"-150# 76 mm	36" 914 mm	26" 660 mm	26 1/2" 673 mm	6" 152 mm	36 1/2" 927 mm	29" 737 mm	18" 457 mm	7/8" DIA 22 mm	54" 1372 mm	2" NPT 51 mm
763-040	4"-150# 102 mm	4"-150# 102 mm	36" 914 mm	26" 660 mm	26 1/2" 673 mm	6" 152 mm	36 1/2" 927 mm	29" 737 mm	18" 457 mm	7/8" DIA 22 mm	54" 1372 mm	2" NPT 51 mm
763-060	6"-150# 152 mm	6"-150# 152 mm	36" 914 mm	26" 660 mm	26 1/2" 673 mm	6" 152 mm	36 1/2" 927 mm	29" 737 mm	18" 457 mm	7/8" DIA 22 mm	54" 1372 mm	2" NPT 51 mm
763-080	8"-150# 203 mm	8"-150# 203 mm	36" 914 mm	26" 660 mm	36" 914 mm	6" 152 mm	48 1/2" 1232 mm	39 1/8" 994 mm	18" 457 mm	7/8" DIA 22 mm	65" 1651 mm	3"-150# 76 mm
763-100	10"-150# 254 mm	10"-150# 254 mm	36" 914 mm	26" 660 mm	36" 914 mm	6" 152 mm	48 1/2" 1232 mm	39 1/8" 994 mm	18" 457 mm	7/8" DIA 22 mm	65" 1651 mm	3"-150# 76 mm
763-120	12"-150# 305 mm	12"-150# 305 mm	36" 914 mm	26" 660 mm	36" 914 mm	6" 152 mm	48 1/2" 1232 mm	39 1/8" 994 mm	18" 457 mm	7/8" DIA 22 mm	65" 1651 mm	3"-150# 76 mm
763-140	14"-150# 356 mm	14"-150# 356 mm	48" 1219 mm	30" 762 mm	54" 1372 mm	6" 152 mm	41 1/2" 1054 mm	59" 1499 mm	22" 559 mm	7/8" DIA 22 mm	83" 2108 mm	4"-150# 102 mm
763-160	16"-150# 406 mm	16"-150# 406 mm	48" 1219 mm	30" 762 mm	54" 1372 mm	6" 152 mm	41 1/2" 1054 mm	59" 1499 mm	22" 559 mm	7/8" DIA 22 mm	83" 2108 mm	4"-150# 102 mm

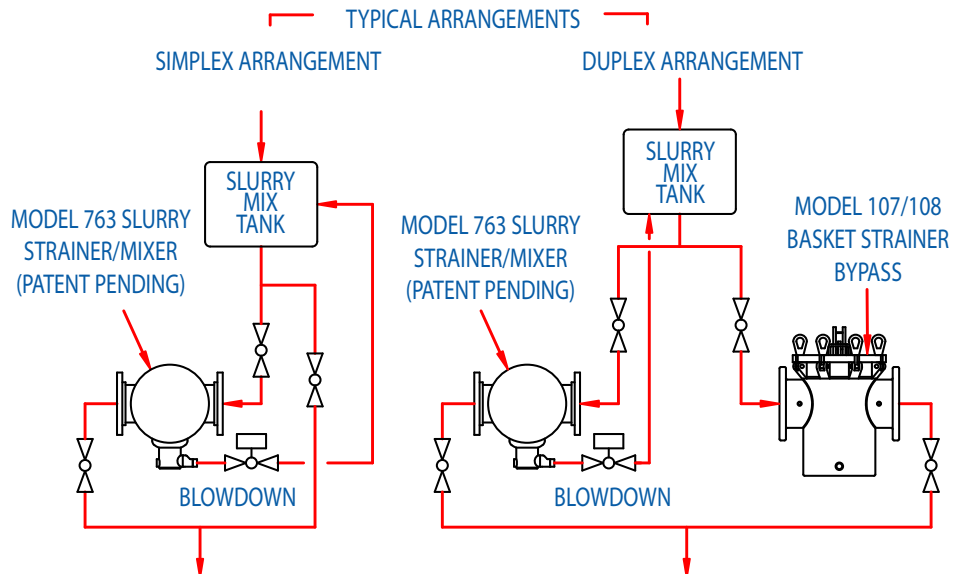
Note: Dimensions subject to change without notice, apply for certified drawings.

\* Custom designs are available, please consult the FE Sales Department or your local sales representative.

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## Model 763 Automatic Slurry Strainer/Mixer with Scraper (Patent No. 7,981,282)



### Duplex Arrangement Shown:

