



MICROFLUID PROCESS EQUIPMENT'S **TECHNICAL PRODUCT CATALOGUE**

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MICROFLUID PROCESS EQUIPMENT

Subject: Introduction letter

Dear Sir / Madam,

Greetings from **Microfluid Process Equipment!**

We would like to take opportunities to introduce our company microfluid process equipment that involved in manufacturing of process equipment for dairy, food & beverage, chemical and other process industries.

Microfluid process equipment provides high quality products and after sales service with very reasonable price. Some of our products that we offer to our client as per below.

- High Pressure Homogenizers Manufacturer
- Service of High Pressure Homogenizer
- Spares of High Pressure Homogenizers
- Ageing Vat & Storage Tanks
- Hygienic Filters
- Hygienic SS Centrifugal Pumps
- Food & Beverage Tank Cleaning System
- Plate Heat Exchangers
- Spares Of Plate Heat Exchanger
- Mechanical & Electrical Automation Solutions

Looking forward to have a concrete relationship between us with long-term business relationship.

Please, feel free to contact us for any further clarification.

Thanks & Regards,

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PRODUCTS

HIGH PRESSURE HOMOGENIZER

Microfluid process equipment leader in development, manufacturing, and supplier of high-pressure homogenizer for several industries for different applications. Microfluid's homogenizer solution meet to the specific customer need through the right engineering process.

Microfluid continue to research and develop the latest technology for homogenizer and ensure customer are getting maximum efficiency and benefits from it. Microfluid also offers quality service for homogenizer to extending the life and efficiency of the homogenization process.

Microfluid process equipment manufacturer high-pressure homogenizer in INDIA with the latest state-of-the-art technology method. Microfluid manufacturing pressure pump and its internal parts for homogenizer machine with the right engineering method and latest manufacturing technology. Microfluid maintains all types of GD&T (geometrical dimensioning and tolerances), high surface roughness, and proper hardness for a long life of the machine and avoid early wear and tear. So we can consistently maintain quality.



APPLICATIONS

Dairy

- Milk pasteurized & processing
- UHT Milk
- Milk for yoghurt
- Yogurt drinks
- Butter
- Cheese
- Desserts
- Ice-creams
- Fermented milk products
- Flavored milk



Food & Beverages

- Food emulsions
- Baby foods
- Fruits juices
- Ketchup & jam
- Honey
- Jelly
- Pet foods
- Vegetables & foods
- Tomato products
- Stretches
- Egg & mayonnaise



Chemical

- Chemical slurries
- Clay
- Paints
- Latex
- Polymers
- Lubricants
- Inks & resins
- Rubber
- Dyes
- Cellulose fibers
- Fertilizers



Pharmaceuticals & biotech

- Vaccines
- Syrup
- Tablets
- Yeast



Home & Personal Care

- Lotions
- Nail varnish
- Hair colorants
- Detergents
- Beauty creams
- Shampoos
- Toothpastes



Model Selection Chart

MF320 Series (Max. flow rate 1000 Litter per hour)

Max. Pressure (Bar)					Max. Power (KW)
400	325	250	200	170	
Max. flow rate (LPH)					
500	500	500	500	500	7.5
/	/	600	600	600	7.5
/	/	800	800	800	7.5
/	/	/	1000	1000	7.5
/	/	/	/	1100	7.5

MF220 Series (Max. flow rate 400 Litter per hour)

Max. Pressure (Bar)					Max. Power (KW)
300	250	200	150	100	
Max. flow rate (LPH)					
100	100	100	100	100	3.75
150	150	150	150	150	3.75
200	200	200	200	200	3.75
250	250	250	250	250	3.75
300	300	300	300	300	3.75
/	350	350	350	350	3.75
/	/	400	400	400	3.75

*Homogenizer model (pressure & flow rate) can be customized as per customer requirements. Above flow is theoretical flow rate and measured with water. Actual flow will be differ as per product viscosity.

SPARES OF HOMOGENIZER

“Do you use only machined spare parts? Only machined parts can harmful to your expensive homogenizer machine”

Microfluid process equipment understands the value of your expensive homogenizer machine, so highly accurate spares parts must be recommended for high-pressure homogenizers. Therefore, microfluid manufacturing, development, and supplies replaced homogenizers spare parts with the right engineering state-of-the-art method.



QUALITY

The high-pressure homogenizer is much precise engineering equipment. We know the proper operation of this equipment in your process and we understand the importance. That's why we deliver our experience and knowledge to make your process smoothly, using microfluid's accurate spare parts.

- Maintain all types of GD&T (geometrical dimensioning and tolerances)
- High surface roughness values to avoid early wear and tear
- Proper hardness maintain for prevent early wear and tear
- Manufacturing with state-of-the-art technology
- Manufacturing with right engineering method
- Machining on high precision CNC & VMC machines

For more details for **"Manufacturing process of homogenizer spares"** download presentation file from our website.

HOMOGENIZER SPARES PARTS WHICH WE OFFERED

- | | | | |
|--------------|--------------|-----------------|-------------|
| • GEA | • BOS | • Netzsch | • Alitec |
| • SPX | • Alfa Laval | • PHD | • Simes |
| • Gaulin | • Bertloli | technology | • Milkotek |
| • Tetra Pak | • Krones | • Microfluidics | • Many more |
| • FBF Italia | • Sonic | • Silverson | makes... |

HOMOGENIZER SPARES LIST

- Impact head
- Impact rings
- Homo valve
- Plungers
- Plunger seals
- Oil seals & Gaskets
- Valve & valve seats
- Poppet type valves
- Tungsten carbide balls
- Connecting rods
- Antifriction bearings
- Pressure gauges
- Bearings
- Springs
- Crank shafts
- Cylinder head / blocks
- Homogenization chamber
- Hydraulic & pneumatic cylinders

FOOD & BEVERAGE TANK CLEANING SYSTEM

“Now, not time for time-out. Upgrade your tank cleaning process with microfluid’s automatic tank cleaning system”

The tank cleaning process is the most important job in various process industrial applications. The tank cleaning process can be much expensive and time-consuming without the right solution for a certain application. Microfluid process equipment provides the right solution for every type of tank and vessel cleaning for every size and shape in food & beverages and dairy industries.



RANGE

Microfluid provides a wide range of tank cleaning system for **tank diameter up to 100 feet (30.5 meters)**. Microfluid supplied different types of nozzles in the tank cleaning systems like **360° rotating jet nozzle, 3D tank cleaning nozzle, static spray nozzles, and rotating spray nozzles**

WORKING PRINCIPLE

Nozzle spray will distribute proper cleaning fluid and expand impact from the certain flow rate and pressure of the tank cleaning system and reduce operational cost and time-out and increase the effectiveness of cleaning.

BENEFITS

- Reduce operation cost
- Effective cleaning
- Reduce downtime
- Not interference of human cleaning
- Not require any cleaning agents & chemicals
- Customized for any size and shape of tank, tankers, and vessels

APPLICATION

- Tank cleaning
- Drum cleaning
- Process vessel cleaning
- Storage tanks cleaning
- Ageing tanks cleaning
- Milk tankers cleaning & many more.

INDUSTRIES

- Food & breweries
- Dairy

AGEING VAT & STORAGE TANKS

Microfluid process equipment offers the aging vat tank which keeps the mix well merged and it is also preventing separation of the ingredients and also rises the thickness of the mixes, which process improves flavor, color, creaminess, smoothness, texture, and melting resistance of the ice-cream.



WORKING

Microfluid ageing vat tanks are needed to prepare large quantities of the mix for the better quality of ice-creams. Microfluid provides different types and capacities of ageing vat tanks for the ice-cream mixes and other ingredient mixes for process industries and applications

FEATURES

- Compact design
- Easy operation
- Easy to clean
- Super finishing
- Automatic controls for checking quality of aging of mixes/ ingredients

APPLICATION

- Ice-cream mixers
- Milk pasteurization & many more..

INDUSTRIES

- Dairy
- Food & beverages & many more
- Pharmaceuticals

SS HYGEINIC CENTIFUGAL PUMP

“Stainless steel food grade sanitary centrifugal pump”

Microfluid process equipment offers cost-effective and performance effective food grade sanitary centrifugal pumps for process industries like dairy, food & beverage, chemical, pharmaceuticals, and personal care industries.

QUALITY

Microfluid provides high quality sanitary centrifugal pumps. **Microfluid process equipment maintains all types of GD&T (geometric dimensioning and tolerances) during manufacturing**, which increases the life of the internal spare parts and pump. Parts in the contact of the fluid is made with special corrosion resistance steel grade like SS316 and SS316L and other steel parts are made from SS304 and SS304L materials.



RANGE

Genuine quality sanitary pumps supply by microfluid to ensuring the processing is a smooth operation. **Microfluid can provide a large range of sanitary centrifugal pump from motor HP 0.25 to 30 and the capacity of a pump from 4 LPM to 2000 LPM**

FEATURES

- Compact design
- Low operational & maintenance cost
- Noise & vibration free
- Durable standards
- High efficiency
- Stainless steels machined casing and back plates
- Food grade and sanitary design
- Fluid contacting parts are made from stainless steel SS316 and SS316L

APPLICATIONS

- Transfer milk, butter milk, and other dairy products
- Transfer fruit juice, ready to serve drinks, and other products in food and beverages industries
- Transfer paints, oils, fine chemicals, and chemicals products

INDUSTRIES

- Dairy
- Food and beverages
- Chemical
- Pharmaceutical
- Cosmetic

HYGEINIC FILTERS

Microfluid process equipment supplies a hygienic filter or sanitary strainer to prevent contaminated fluids to enter into the main process. When perverted fluid enters into the filter housing and distributes around the filter cartridges at that time filtration process take place and collects solid or dirty particles of the fluid from outside and sends clean or purify fluid into the main process



FEATURES

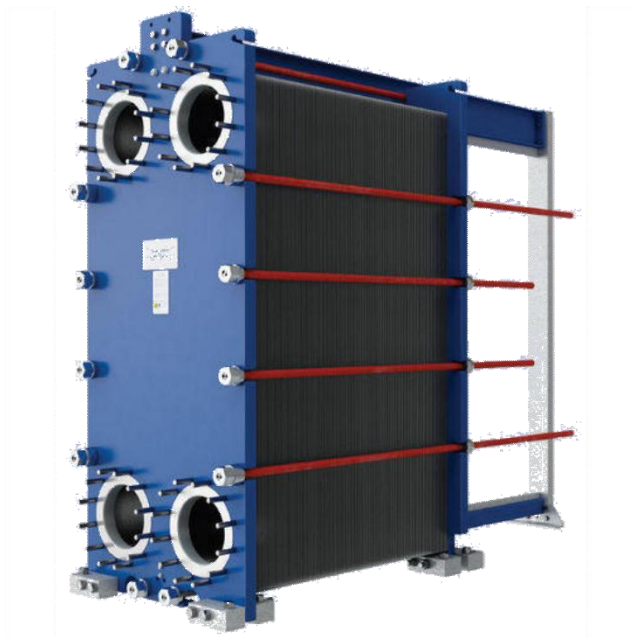
- Integral cartridge location
- Easy to clean
- Quick release housing clamp
- Hygienic coupling, flanges and pipe fittings
- Range of size available
- Mirror polished

INDUSTRIES

- Dairy
- Pharmaceuticals
- Food & beverages

PLATE HEAT EXCHANGER & SPARES

Microfluid process equipment supply gasketed plate heat exchanger for industrial application. The plate heat exchanger is designed to transferring heat between intermediate and low-pressure fluid. The plates of heat exchangers are look the same but the difference and secret of efficient and effective heat transfer cannot be seen from the outside. The performance depends on many factors like number plates and sizes.



FEATURES

- High regeneration efficiency
- Plates manufacturing from stainless steel 316 and 316L grade material
- Highly corrosion and acid resistance
- Economical and compact design
- Easy maintenance
- Quick dis-metaling and re-assembly
- Easily expendable for higher capacity
- Intermixing of liquid eliminated

APPLICATIONS

- Milk and cream pasteurization
- Cooling milk and cream
- Ice-cream mix
- Heat treating and cooling yogurt
- Ready to serve drinks
- Beverage water
- Fibrous juice
- Cooling lotions and creams

INDUSTRIES

- Dairy
- Food and beverages
- Pharmaceutical
- Chemical
- Pulp and paper
- Surface treatment

SPARES LIST FOR PLATE HEAT EXCHANGERS

- Gasket
- Rubber liner
- Heat transfer plates
- Fixed and movable plates
- Tightening bolts and nuts & many more....

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