



Solution for Chemical Handling & Filtration Applications

# Techno Crat (India)



[www.filterforelectroplating.com](http://www.filterforelectroplating.com)  
Chemical Process Pumps &  
Chemical Filters



## About Us

**Techno Crat (India)** is one of the leading manufacturer of electroplating/ Chemical filters and chemical process pumps.

Established in 1989, **Techno Crat India** is a name reckoned in the industry for manufacturing and supplying a premium quality range of Electroplating Plant & Equipment . Our offered products are Chemical Process Pump, Electroplating Filter System, Hull Cell Test Kit, Salt Spray Test Chamber, Amphere Hr/ Min. Meter, Ultra Filter, Hot Air Dryer, Turbine Blower, Centrifugal Dryer, Plating Tanks, Temperature Controller, Rectifier and Electroplating Accessories. Known for their exceptional quality, cost effectiveness, these products are widely admired across the country. All these products are developed employing latest tools and machines under the strict vigilant skilled engineers. The offered products are well recognized in the market for their durability, corrosion proof, easy to operate and less maintenance.

Under the visionary guidelines of Mr. Inder Raheja, the company is known to be scaling new heights. We are widely appreciated for our genuine approach and premium quality. The customers recommend the company for transparent dealings and timely execution. Due to our transparent and genuine dealings, we have won the trust of the customers across the market.

### Vision



To become front runner company in our business by providing best possible product and services to our customer and maintain highest level of customer satisfaction.

### Mission



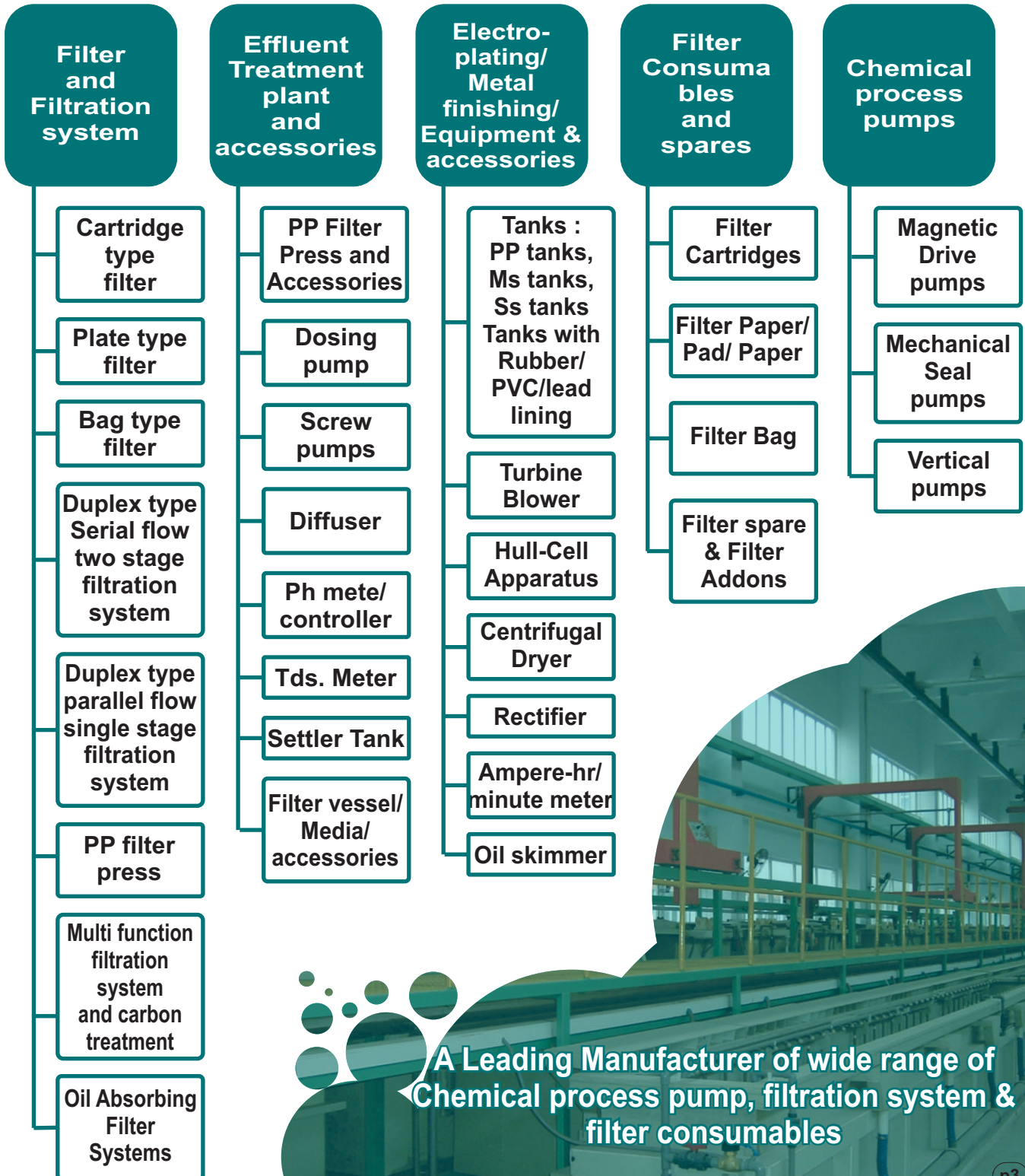
Growth of company employees and associates by opting advance technology, positive attitude, team work and innovative approach.

### Primary Competitive Advantages



- Easy modes of payment
- Goodwill in the market
- Reputed clients
- Wide distribution network

# Product Range



A Leading Manufacturer of wide range of Chemical process pump, filtration system & filter consumables



MAP612



MPP615



MPP1224



MAC1001

## Filtration System

### For Filtration & Purification

- Process solutions
- Electroplating
- Metal-finishing
- Effluent treatment
- Food processing
- Cleaning

### Salient Features:

- Easy and quick maintenance
- Heavy duty construction
- Variety of sizes availability
- Maximum parts interchangeability
- With optional gauge guard assembly and ventilation valve

These Filtration Systems are designed for use in filtering process solutions, where clarification of the solution will extend their life and improve the quality of the work produced. They are also ideal for the transfer pumping, in-line filtration of bulk liquids drum filling, aerosol packaging and other operations. These are Simple single stage recirculating filtration unit, Duplex System with Parallel flow single Stage, Duplex System with Serial Flow two Stage filtration unit and multifunction filtration unit.

#### MP SERIES:

All filters in this series are made of injection molded gfrpp (glass filled reinforced poly-propylene),. Molded filter chamber is fitted on pp stand with suitable pump.

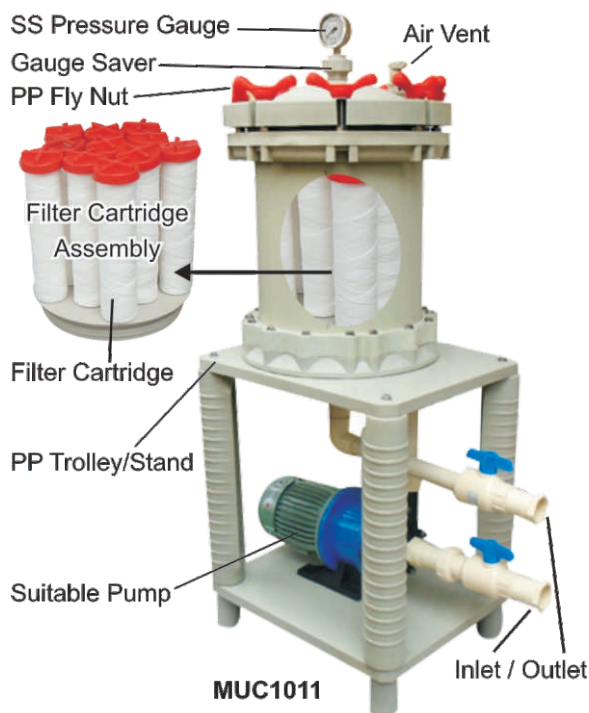
#### MU SERIES:

All filters in this series filter chamber are made and assembled with injection molded gfrpp (glass filled reinforced poly-propylene) parts,. Filter chamber is fitted on pp stand with suitable pump.

#### MA SERIES:

All filters in this series are made of acrylic, filter chamber is fitted on acrylic stand with suitable pump.

## Cartridge Type, Single Stage Filter



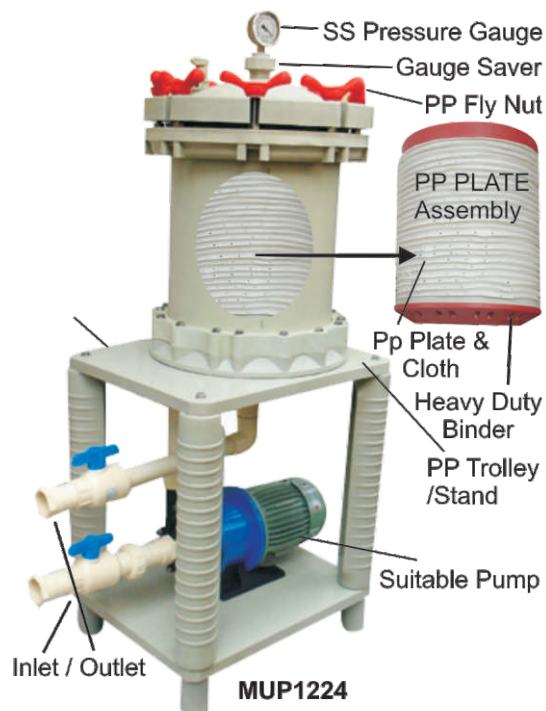
The cartridge type single stage filter is simple recirculation filtration unit. This filter is designed for use in solid removal and filtering process solutions. Cartridge filters can be used in wide range of flow capacities & contaminant holding capacities. Cartridge filter housing diameters can accommodate single or multi cartridges.

Model		Size of Cart. in Inches	No. of Cartridges	Suitable Pump Capacity in Lpm	Suitable for Tank
MP Series	MPC1001	10" cart.	1 no. cart.	30-50	80-250
	MPC1008	10" cart.	8 nos. cart.	50-100	250-800
	MPC1011	10" cart.	11 nos. cart.	100-200	1000-1800
MU Series	MUC1005	10" cart.	5 nos. cart.	65-100	250-500
	MUC1011	10" cart.	11 nos. cart.	100-200	1000-1800
	MUC2011	20" cart.	11 nos. cart.	125-250	1500-2500
	MUC3011	30" cart.	11 nos. cart.	250-400	2500-4000
MA Series	MAC1001	10" cart.	1 no. cart.	30-50	80-250
	MAC2001	20" cart.	1 no. cart.	50-100	100-400
	MAC1004	10" cart.	5 nos. cart.	65-100	200-500

## Plate Type, Single Stage Filter Unit

These Plate type single stage filter are simple recirculation filtration unit. This filter is designed for use in solid removal and filtering process solutions. Plate type filters can be used in a wide range of flow capacities & contaminant holding capacities. The plate type filter can accommodate the different available diameter of plates.

Model		Size of Plate in inches	No. of Plates	Suitable Pump Capacity in Lpm	Suitable for tank
MP Series	MPP615	6" plate	15 nos. plate	30-50	80-250
	MPP918	9" plate	18 nos. plate	50-100	250-800
	MPP1218	12" plate	18 nos. plate	100-125	800-1200
	MPP1224	12" plate	24 nos. plate	100-200	1000-1800
MU Series	MUP618	6" plate	18 nos. plate	50	100-250
	MUP624	6" plate	24 nos. plate	50-70	100-300
	MUP1224	12" plate	24 nos. plate	100-200	1000-1800
	MUP1230	12" plate	30 nos. plate	125-250	1500-2500
	MUP1248	12" plate	48 nos. plate	250-400	2500-4000
MA Series	MAP612	6" plate	12 nos. plate	30-50	80-200
	MAP617	6" plate	17 nos. plate	30-50	80-250
	MAP624	6" plate	24 nos. plate	50-70	100-300



## Duplex system with serial flow two stage filtration unit:

These are two stage filtration unit and are suitable for those application where Fine filtration of solution is required. A very fine filtration can be achieved by using a suitable two stage combination of filter plates and cartridges i.e. plates+ cartridge, plates +plates , cartridges + cartridges.



**MPP12242S**

Duplex system with serial flow filtration unit

Model :	SIZE OF PLATES/ CART. IN INCHES	NOS. OF CARTRIDGES/PLATES	SUITABLE PUMP CAPACITY IN LPM	SUITABLE FOR TANK SIZE IN LTRS.
<b>MP SERIES</b>				
MPP918 2S	9"Plate	18nos.plate X2	100/125	600-1000
MPP918 + MPC1008 2S	9"plate / 10"cart	18nos.plate +8 nos.cart.	100/125	600-1000
Mpc1008 2s	10"cart.	8 nos. cart. X2	100/125	600-1000
MPP1224 2S	12" plate	24nos. plate X2	150/200	1000-1500
MPP1224 +MPC10112S	12" plate /10"cart.	24 nos. plate/11 nos. cart	150/200	1000-1500
MPC1011 2S	10"cart	11 nos. cart.	150/200	1000-1500
<b>MU SERIES</b>				
MUP1230 2S	12" plate	24 nos plateX2	200/250/300	1500-3000
MUP1230+MUC2011 S	12" plate/20"cart.	30 nos.plate+/11 nos. cart.	200/250/300	1500-3000
MUC2011 2S	20"cart.	11 nos. cart.x2	200/250/300	1500-3000
MUP1248 2S	12"plate	48 plates X2	300-400	2500-4000
MUP1248 +MUC3011	12"plate /30"cart	48nos.plate+11nos cart.	300-400	2500-4000
MUC 3011 2S	30" cart.	11 NOS. cart	300-400	2500-4000

## Duplex system with parallel flow single stage filtration unit:

These filters are suitable for those applications where high flow of solution is required. By parallel filtration, the effective surface area of filtration can be increased to permit the use of high capacity pump and can achieve fine filtration.



**MUP12242P**  
Duplex System with parallel flow

Model	SIZE OF PLATES/ CART. IN INCHES	NOS. OF CARTRIDGES/PLATES	SUITABLE PUMP CAPACITY IN LPM	SUITABLE FOR TANK SIZE IN LTRS.
<b>MP SERIES</b>				
MPP1224 2P	12" plate	24 nos platex2	200-250	1500-2000
MPC1011 2P	10" cartridge	11nos cart.x2	200-250	1500-2000
<b>MU SERIES</b>				
MUP1230 2P	12"plate	30 nos platex2	250-300	2500-3500
MUC2011 2P	20"cartridge	11nos cart.x2	250-300	2500-3500
MUP1248 2P	12"plate	48nos.platex2	300-400	2500-4000
MUC 3011 2P	30"cartridge	11 nos.cart.x2	300-400	2500-4000

**Multi-function filter unit:** For solid removal, carbon absorption and trap filtration. Add only one carbon chamber for organic impurity removal. carbon chamber and slurry tank can be provided in various sizes and capacities to suit the selected filter. These filter units are suitable for use with three methods of carbon purification- a: powder carbon pre-coat with filter aid, b: powder carbon impregnated in plate-media c: granule carbon in separate chamber. A slurry tank can also be added for pump priming, pre coating and chemical additions. This system allows you to use any below selected filter unit with required pump.

**Simple Single stage recirculating filtration unit model MP/MU series:**

**Duplex system with parallel flow filtration unit:**

**Duplex system with series flow filtration unit:**

**MUP1230**  
Filtration System with  
Carbon/Slurry Tank





## Multi Media - Multi Function Filter Housing

This filter is designed to use Large interchangeable range of filtration medias for optimum filtration of liquide. It provides filtration solution for a broad variety of fluid applications in electroplating, metal finishing, cleaning solutions and other process industries. These



filters are particularly useful for filtering large volumes of high viscosity liquids. This multi media –multi functional filter consist of a housing, , positive sealing arrangement, end connections, assemblies of different types of optional media i.e cartridges, pleated cartridges, plates, and bag filter assemblies mounted on pp stand with pump as per requirement.

### Features and benefit

- High flow rates.
- Low pressure drop.
- High dirt holding capacity.
- Positive sealing arrangement to avoid bypassing.
- Specialley designed Quick opening lid .
- Easy to operate & low maintenance.
- Low down time.
- Flow rate up to 2000 m3/hr & More
- Customized design available.
- Large-area, heavy-duty baskets.
- Housings are permanently piped.
- Filter chamber is made of gfrpp, and high temperature pp pipe (simona germany), suitable for wide range of
- Multiple bag filter / Duplex bag filter / Jacketed bag filter unit designs are available.

### Applications

- Electroplating & Metal Finishing
- Cleaning Solutions
- Processing Chemicals
- Petroleum Derivatives
- Coolants
- Cutting Oils
- Cleaning Fluids
- Vegetable Oils
- Edible Oils
- Polymers
- Paints
- Inks
- Resins
- Varnishes
- Lacquers
- Pharmaceuticals
- Sugar Cyrup
- Plastsols

Following Types of Interchangeable Filtration Media can be used in this Multimedia - Multi functional Filter

### Wound Cartridge Type

Wound Cartridge filters can be used in wide range of flow capacities & contaminant holding capacities. Cartridge filter housing diameters can accommodate single or multi cartridges.



### Plate Type

Plate type filters can be used in a wide range of flow capacities & contaminant holding capacities. The plate type filter can accommodate the 182 diameter of plates.

### Polypropylene Pleated Cartridge

Polypropylene pleated cartridges use the very latest gradient density microfiber media technology to provide a combination of excellent micron ratings, high flow rates, and high contaminant holding capacities



### Bag Type



These are particularly useful for filtering large volumes of high viscosity liquids. Bag filter housing diameters can accommodate single or multi . This filter contains filter bags, internal cage to support bags, sealing arrangement to ensure zero bypass filtration, The internal support ensures bags will not burst as high differential pressures build up during operation.

**Size Availability** : • 4" ØX 10" L • 4" ØX 17" L • 7" Ø X 17" L • 7" Ø x 32" L  
(Customized sizes are also available Filtration rating - 1, 5, 10, 20, 50, 100, 200 Micron)

### Carbon Chamber:

A granual carbon chamber can be provided in various sizes and capacities to suit the filter for organic impurity removal.

### Oil Absorbing Filter Systems



Our Oil Absorbing Filter Systems specifically designed for the removal of oil and grease from cleaning solutions, rinse water, waste water & other corrosive liquids.

**Size Availability** : • Filter basket has capacity of 12 Ltrs., 20 Ltrs., 35 Ltrs., and more depending on the requirement of customer.

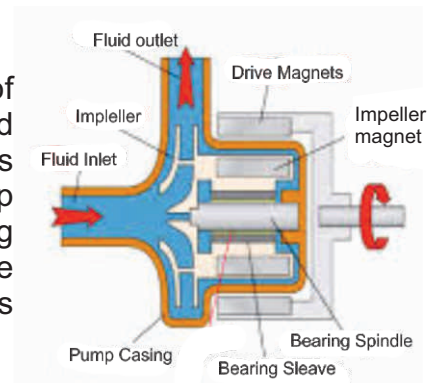
# MAGNETIC DRIVE CHEMICALS PROCESS PUMP

## APPLICATIONS

These pumps are best suited for X-ray plants, Filtration systems. Photo processors, Electroplating equipment's, metal finishing machine, chemical filters, water treatment plants , etching machine , liquid circulation , agitation descaling of refrigeration air conditions units , silver recovery systems , day bath, heat exchanger, dairy boiler , medical equipment's , pharmaceutical indurates, textile processing industries, ultrasonic cleaner, pure water, plants fountains ,food processing industries, ice maker, solar heating systems, PCB plant and other chemical industries.

## OPERATING PRINCIPLE

The magnetic centrifugal pump is driven by a pair of magnets which are incorporated in the impeller and motor shaft. Magnetic pumps are 100% leak proof as these do not have conventional mechanical shaft seals. Pump chamber is shielded by front casing and rear casing And impeller is operated by magnet. A combined torque produced by drive magnetic and impeller magnet gives sufficient driving power against motor torque .



MODEL NO.	INLET/OUTLET IN MM	MAX. HEAD IN MTRS	MAX. FLOW LPM
Ke30	20	2.8	30
KE40	20	3.0	40
KE50	20	3.2	50
KE65	25	4.5	65
KE100	25	8.2	100
KE125	25	11	125
KE170	25	12.5	170
KE200	32	13.4	200
KE250	38	15	250
KE320	38	16	320



## MECHANICAL SEAL TYPE CHEMICAL PROCESS PUMP

KEMS MB series Pumps are widely used in Electroplating, Effluent treatment plant, and other fluid handling processes. These pumps are close-coupled to minimize size and also available in long-coupled design with bearing pedestal to accommodate customer's motor. Pumps are Available in molded grip or stainless steel 304/316 solution contact. Internal or external mechanical seals are available with (carbon-ceramic or sic) seal faces. The 316 stainless steel shaft adapter is utilized to protect the motor shaft and allows the use of standard flange type motor.

MODEL NO.	INLET OUTLET	MOTOR	MAX FLOW LPH	MAX HEAD
MB7K-pp	1"	1HP	7000	9M
MB7K-ss	1"	1HP	7000	9M
MB12K-pp	1 ½"	2HP	12000	13M
MB12K-ss	1 ½"	2HP	12000	13M
MB15K-pp	1 ½"	3HP	15000	14M
MB15K-ss	1 ½"	3HP	15000	14M



## VERTICAL TYPE CHEMICAL PROCESS PUMP

With the help of our experienced engineers, we have been able to manufacture and supply a wide range of vertical chemical pumps. These pumps are acclaimed for their high functional efficiency and consistent performance. Vertical run completely dry without ill effect are used in applications requiring the continuous transfer of liquids, with a high degree of reliability, hence remove one cause of breakdown which is often attributable to the human element. The most important gains to be derived from the use of Vertical Sealless Glandless Pump are in the sphere of maintenance and the consequent reduction in down time production losses. Normal maintenance on the Vertical Glandless Pumps is confined to lubrication of the driving motor bearings. We are manufacturing two types of vertical pumps i.e.



- Immersable vertical pump.
- External type seal/gland less vertical pump.

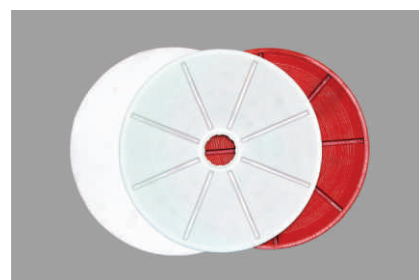
## Filter Consumable and Spares

### Filter Cartridges

Filter cartridges is recommended where fine filtration and complete particle retention are essential. Cartridge filter can be surface or depth-type filter: depth-type filters capture particles and contaminant through the total thickness of the medium, while in surface filters (that are usually made of thin materials like papers, woven wire, cloths) particles are blocked on the surface of the filter.

**Size Availability** : 63mm x 28mm, 110mm x 28mm • Length : 10" to 40"

**Filtration rating** - 1, 5, 10, 20, 50, 100, 200 Micron



### Filter Plate / Pad / Paper

Plate Type Filters Consist Of Filter Assembly, A Stack Of Interlocking Pp Plates Which Are Used With Papers And Filter Cloths. Clothes Are Available In Different Types Of Material. The Clothes And Papers Being Fitted Between The Plates. The Filter Plate Assembly Can Be Removed From The Filter, The Plates Dismantled, Clean Cloths And Paper Inserted.

**Size Availability** : • 6" Ø • 9" Ø • 12" Ø

### Filter Bags

These filter bags are in general designed for applications with the desired filtration rate from 1 to 1000 micron and the concentration of liquid is equal or higher than 5 mg/m<sup>3</sup>. These filter bags are also sediment like cartridge filter, that is to say they reduce the number of sediments transported by the fluid through filtration.

**Size Availability** : • 4" Ø X 10" L • 4" Ø X 17" L • 7" Ø X 17" L • 7" Ø x 32" L

**Filtration rating** : 1, 5, 10, 20, 50, 100, 200 Micron (Customized sizes are also available )



### Pleated Cartridge

Polypropylene filter cartridges are precisely manufactured for usage in critical filtration applications. Polypropylene pleated cartridges use the very latest gradient density microfiber media technology to provide a combination of excellent micron ratings, high flow rates, and high contaminant holding capacities

**Size Availability** : • 10", 20", 30", 40" Long

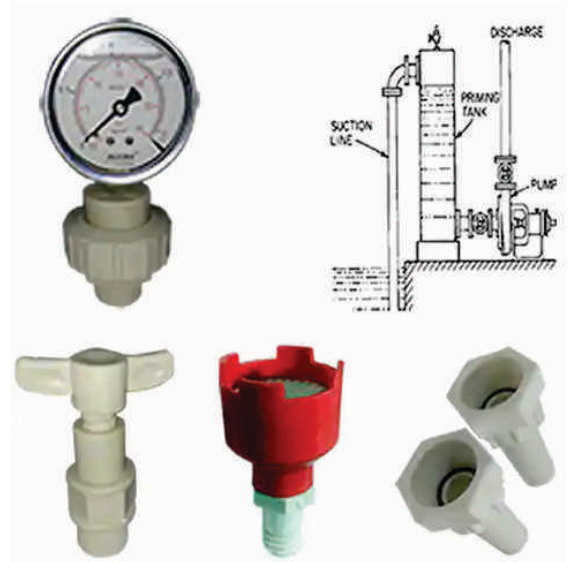
**Filtration rating** : 0.1, 0.2, 0.45, 1, 5, 10, 20 Micron



## Filter Add- Ons

Filter addon are accessory devices designed and provided by us to increase the capability & protection of filter and pump.

- Pressure Gauge
- Gauge Saver
- Coupling Nozzle
- Priming Chambers
- Suction Strainer
- Air Release Valve

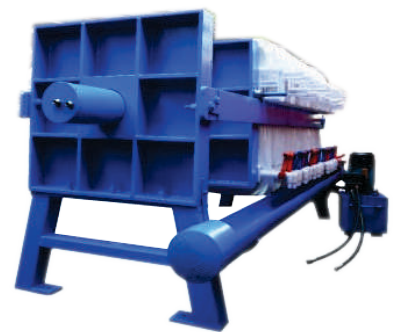


## PRESS FILTER

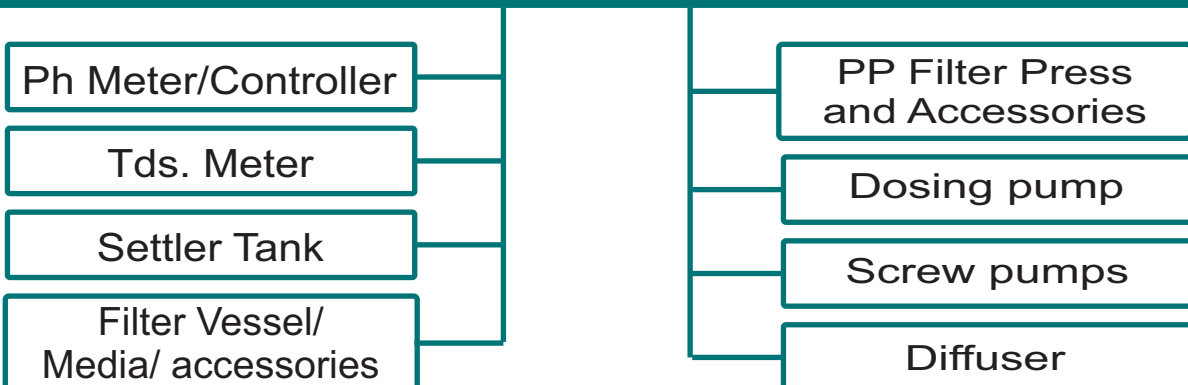
### FILTER PRESS

Kems Filter Press is suitable for those application in which it is required to separate solid and liquid. Filter Press frame is made from M.S Fabrication or cast iron and PP Filter Plates made from Polypropylene material . Our range of Filter Press comes with , Hydraulic and Manual opening and closing arrangements. We have also developed different designs of Filter Plates to meet the industrial needs in terms of competitive price and quality.

**Size Availability** : • 12" x 12" • 18" x 18" • 24" x 24"



## Effluent Treatment Plant and Accessories





## Electroplating / Metal Finishing Equipment and Accessories

Techno Crat (India) is a manufacturer, exporter of various Electroplating Equipment & Accessories. Our offered products are Chemical Process Pump, Electroplating Filter System, Hull Cell Test Kit, Salt Spray Test Chamber Amphere Hr/ Min. Meter, Ultra Filter, Hot Air Dryer, Turbine Blower, Centrifugal Dryer, Plating Tanks, Temperature Controller & Rectifier and Electroplating Accessories.

### TURBINE BLOWER

A maintenance free, noise less blower because of no friction, no vibration & needs no lubrication at all. Consequently, completely wear & tear free. Since these blowers are compact, maintenance free and need no oiling at all, these are most suited for mounting inside the machines meant for electro plating, dust collecting, printing , paper handling, Vacuum packaging, pneumatic conveying and hence are quite popular with OEM.

Model	Power	Diplacement	Vaccum	Pressure	Sound	Weight
KETB-1-80	.5HP	80M3/47CFM	-130 mbar	140 mbar	62 DB	12KG
KETB-1-145	1HP	80M3/47CFM	-130 mbar	160 mbar	63DB	14KG
KETB-1-210	2HP	210M3/123CFM	-190 mbar	200 mbar	70 DB	23 KG
KETB-1-210P	3HP	210M3/123CFM	-220 mbar	270 mbar	75 DB	26 KG
KETB-1-320	4HP	320M3/188CFM	-270 mbar	290 mbar	69 DB	37 KG
KETB-1-400	5HP	400M3/235CFM	-290 mbar	330 mbar	77 DB	40 KG
KETB-1-530	7.5HP	530M3/312CFM	-300 mbar	320 mbar	80 DB	62 KG
KETB-1-530P	10HP	530M3/312CFM	-320 mbar	380 mbar	82 DB	68 KG



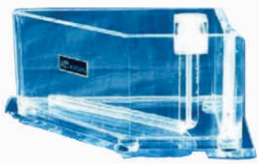
## RECTIFIER

Following standard types of rectifiers can be suggested.

On load Volt	Current in ampere		
Up to Rated max	Air cooled	Oil/air cooled	Oil cooled
DC. voltage	5-250	250-750	750-1000



## HULL CELL APPARATUS



The Hull Cell Apparatus is a miniature plating unit designed to produce cathode deposits on a panel that correlates the characteristics of the plating unit being evaluated. Interpretation of the “as plated” cathode panel give rapid information about brightness levels, irregular plate deposits, uniformity of deposits, coverage, throwing power, impurities, and plating bath chemistry.

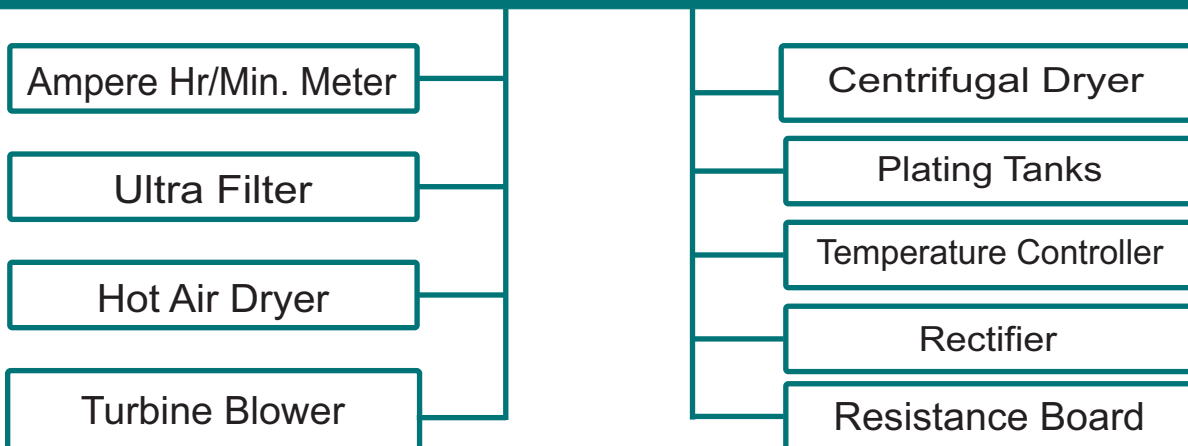
The most commonly used size is the 267ml.

## TANKS

Tanks are integral part of a electroplating plant . These tanks are available in different MOC. i.e. MS, SS, MS with PVC lining, Poly Propylene, FRP lining. These tanks are made as per customer requirements.



## ELECTROPLATING PLANT & MACHINERY



## What's New



**PVDF/ PPS  
Pump**



**PP/PC  
Moulded Filter**



**High Flow Pleated  
Cartridge Filter**



**PP Moulded  
Vertical Pump**

# Techno Crat (India)

### Factory :

Plot No 21, Street No 28 Opp. Street No.4 Railway Line Side,  
Anand Parbat Industrial Area, New Delhi-110005

### Showroom:

A-5 DSIDC Industrial Complex, Mangolpuri Phase-1,  
Near Safal Dairy, New Delhi-110083

Ph.:011-40366894, Mob : 9311611302,9311611303,  
9311611304,9311611305

E-mail : [technocratindia@yahoo.com](mailto:technocratindia@yahoo.com)  
Web: [www.filterforelectroplating.com](http://www.filterforelectroplating.com)

**Dedicated to Provide quality product  
with Customer Service**