

Pharmaceuticals

Cosmetics





Chemicals



 $All\ Kinds\ of\ Jobs\ Chemical\ Process\ Equipments, Structure, Pipeline, Scaffolding\ Works\ \&\ all\ Fabrication\ works.$

Companyprofile:

AboutUs

We M/s. Sunearth Eng. are one of the eminent organization engaged in offering best solutions in all sorts of M.S & S.S Fabrication and also deal with major production area i.e. from light to heavy engineering services. In addition to

that, we also hold expertise in offering Our product range comprises ANFD, ANF, RCVD, FORMAINTER, DISTILLATION COLUMN, RECEIVER, REACTORGMPMODEL&NONGMPMODEL, Agitator Vessel, Chemical Machinery, Chemical Process Machinery, Limpet Coil Reactor, Process Reaction Vessel, Heat Exchangers, cylindrical Condensers, Box Type Condensers, Chemical Machinery, Chemical process Equipment's, Agitated Reaction Vessel, Stainless Steel Reaction Vessel, Chemical Reaction Tank, Stainless Steel Tanks, Chemical Storage tanks, Chemical Plant & Machinery, We stand by our name, by

offeringqualitysurfaceinanyindustry. The products and services offered by us are appreciated for their effectiveness,

Weofferareliablerangeofproducts. Our offer best engineering services. We ensure that the products developed by us, are at par within industry standards and also by giving best specifications laid by our clients. Our quality controllers conduct various stringent quality checks, withour reliable communication systemand zealous work force. We cater to the needs of our clients, which is by providing services to the stipulated time frame.

Theorganizationissupportedbyateamofexpertprofessionalswhichhelps us in offering quality product and services that are at par with international standards and major problems are solved by Managing Directors itself. Theseexpertsusecuttingedgetechnologyandadvancedtestingtoolsto provide the best solutions to our clients. With our sincere and dedicated efforts, we have retained the trust of our clients since our inception. It would be great honor to be a supplier of the company who has a great engineeringservices&bestqualityproduct.Itwouldbepleasuretohavea great company relationship with you.

Whychoose SUNEARTH ENG...?

- Highqualityproducts
- Competitiveprices
- Timelydeliveryofconsignments
- Completeclientsatisfaction
- Best Traders in equipments (M.S /S.S/Glass Line)
- Also working Structure & Pipeline works(Project Works).

Our Expertise

Reactor Vesselsneedto be manufacturedusing highgrade raw material, as it has to withstand harsh and extreme temperature. Henceforth, we have recruitedacompetentteamtoconfirmthecredibilityofproductsasperISO and market standards. Further, our team of expert's guarantees, whole manufacturing work is done with high precision and within the set time frame. Also, we value the time and money of our clients and hence provide world class products timely and at competitive prices. Also, we have a separate team of researchers and developers. They carry thorough researches based on assorted parameters like designs, raw material used and technology. The results of some of these researches are recorded for forthcoming references and others are enforced as per the assets available with the company.

We are Manufacturers of **Pharmaceutical, Food, and Cosmetics & Chemical ProcessEquipment.** These are suitable for various pharmaceutical purposes including granulation, coating, liquid & ointment manufacturing.

We have 10 year of experience in Manufacturing of Pharmaceutical Process Equipment. Since our inception, we have emerged as on of the prominent organizations that are engaged in the manufacturer of equipment suitable for various pharmaceuticalprocesses, such as Ointment Manufacture, Granulation, Coating, Liquid Manufacturing and other such processes. Our ranges are cosmetic process equipment's, blender equipment's, dryer equipment's, chemical process equipment's, Ointment plant, liquid plants, and granulation equipment's. These equipment are widely used in industries, such as Pharmaceuticals, Containment, Active Pharmaceutical Ingredient (API) Manufacturing, Solid & Liquid Formulations, Food And Cosmetics.

<u>OurPharmaceuticalMachineryProducts:</u>

	Discourse Contone to Con-	T
	PharmaceuticalGranulation	
	Section	
ProductName	Discretion	Snap
* AGITATED NUTSCHE FILTER DRYER (ANFD)	Agitated Filter is a closed vessel designed to separate solid and liquid by filtration under pressure or vacuum. The closed operationensuresodorless, contamination free and nonpolluting working conditions maintaining product purity and hygiene. The advanced technology of agitation and hydraulics used in the equipment makes it versatile and user friendly. The resulting wet cake can be reslurried and washed thoroughly with water or solvents unlike in" NUTSCHE" type filters or centrifuges. Washliquidquantitycanbecontrolledand recycled, reducing effluent load. The discharge of wet cake is automatic. If the processdemandsfiltrationinchilledorhot condition, it is also possible. Drying of wet cake is also possible when drying features are incorporated. Theequipmentisfunctionallysafeand easy to operate. It can carry out various phase of process operations, viz: Crystallization , filtration, extraction, Discoloration, Washing and drying. The number of conventional machines employed for filtration process are also reduced. It has multi-functional utility, saves on power, labor, floor space, material wastage and time. Thefilter/filterdryerhaswidefieldof applications inchemical, pharmaceutical, Agro chemicals, fine chemicals, and food industries. Sterilizablepharmacyversions	

areavailableforase	ptic requirements.
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PharmaceuticalGranulationSection		
ProductName	Discrition	Snap
Fermentation.	BioReactors(Fermentationtank):Function,	
	Designs and types!	
	Abioreactorisadeviceinwhichasubstrateoflow value	
	is utilized by living cells or enzymes to generate	
	a product of higher value. Bioreactors arc	
	extensively used for food processing,	
	fermentation, waste treatment, etc. On the basis	
	of the agent used, bioreactors are grouped into	
	the following two broad classes: (i) those based	
	on living cells and, (ii) those employing enzymes.	76 200
	But interms ofprocess requirements, they are of	
	the following types: (i) aerobic, (ii) anaerobic, (iii)	
	solid state, and (iv) immobilized cell bioreactors.	
	All bioreactors deal with heterogeneous systems	
	dealingwithtwoormorephases,e.g.,liquid,gas,	
	solid. Therefore, optimal conditions for	
	fermentation necessitate efficient transfer of	
	mass, heat and momentum from one phase tothe	
	other. Chemical engineering principles are	
	employed for design and operation ofbioreactors.	
	But, in general, theoretical explanation usually	
	lags behind technical	
	realization. AbioReactorshouldprovide	

forthefollowing:(i)agitation(formixingofcells and medium), (ii) aeration (aerobic fermenters; for O₂ supply), (iii) regulation of factors like temperature, pH, pressure, aeration, nutrient feeding, liquid level, etc., (ivsterilization and maintenance ofsterility,and (v)) withdrawal of cells/medium (for continuous fermenters). Modern fermenters are usually integrated with computersforefficientprocessmonitoring,data acquisition, etc.

Basic Functions of a Fermenter: 1. It should provide a controlled environment for optimum biomass/product yields. 2. It should permit aseptic fermentation for a number of days reliably and dependably, and meet the requirements of containment regulations. Containment involves prevention of escape of viable cells from a fermenter or downstream processing equipment intotheenvironment.3.ltshouldprovideadequate mixing and aeration for optimum growth and production, without damaging the microorganisms/cells.Theabovetwopoints(items 2 and 3) are perhaps the most important of all. 4. The power consumption should be minimum.5. It should provide easy and dependable temperature control. 6. Facility for sampling should be

provided.7.Itshouldhaveasystemformonitoring and regulating pH of the fermentation broth. 8. Evaporationlossesshouldbeaslowaspossible. 9. It should require a minimum of labour in maintenance, cleaning, operating and harvesting operations 10. It should be suitable for a range of fermentation processes. But this range may often berestricted by the containment regulations. 11. It should have smooth internal surfaces, and joints should be welded wherever possible.12. The pilot scale and production stage fermenters should have similar geometry to facilitate scale-up.13. It should be contrasted using the cheapest materialsthat afford satisfactory results. 14. Thereshouldbeadequateserviceprovisionsfor individual plants.

DoubleConeBlender

The Double Cone Blender is an efficient and versatile machine for mixing dry powderandgranuleshomogeneously. All the contact parts made out of stainless steel of required grade by customer. Two thirdofthevolumeofthe Cone Blender is filled to ensure proper mixing. It can be usedfor Pharmaceutical, Food, Chemical and Cosmetic products etc.



Rotocone Vacuum Dryer RCVD

RCVD suitable fordryingofmaterials which cannot resist high temperature, material which are easily oxidized, volatatile materials which should be retrieved, materials strong irritant and poisonous in nature. The roto cone dryer with improved technology integrates during operation under vacuum. The roto cone dryer facilitates enhanced drying efficiency, low temperature operation and economy of process by total solvent recovery. It helps CGMP based working by achieving optimum dust control, while offering advantages of efficient charging and discharging of materials. The drying unit equipped with lump breakers initially breaks large lumps and subsequently powders them (in singlecone). The rotary action of the dryer together with mechanical action of the breakers cuts down drying time and gives a lump free product.





$Our manufacturing {\bf Capacity of RCVD} is a sperbelow list.$

- ➤ LabModel:25L
- Productionmodel: 100L.To2000L.

capacity in LTRS.		
WORKING	GROSS	Model:
20	25	MERCVD25
75	100	MERCVD100
110	150	MERCVD150
145	200	MERCVD200
200	300	MERCVD300
350	500	MERCVD500
500	750	MERCVD750
750	1000	MERCVD1000
1250	1500	MERCVD1500
1650	2000	MERCVD2000

LiquidSection

ProductName Discrition ❖ Syrup/Liquid Our Liquid Syrup Pharma Plants Manufacturing are most appropriate tools for the Vessel RECEIVER pharmaceutical industry, which finds application in production of Oral Liquids. We have particularly designed it to take care of two criticalfactorsthatstraightlyaffects the quality of the Liquids. It is extremely beneficial as it offers: Extremely hygienic

manufacturingofliquidsyrup

Snap

SYRUP MANUFACTURING PLANT



Our manufacturing Capacity of Liquid Plant is as per below list.

> 50L.to1500L. INCREASE.

capacity in LTRS.		
WORKING	GROSS	Model:
40	50	MEOINT50
50	75	MEOINT75
75	100	MEOINT100
110	150	MEOINT150
145	200	MEOINT200
200	300	MEOINT300
350	500	MEOINT500
500	750	MEOINT750
750	1000	MEOINT1000
1250	1500	MEOINT1500

Reactors

OurReactors Frequently used for the term relates specifically to catalytic reaction systems where either a homogeneous or heterogeneous catalyst is present in the reactor.

Sometimes are actor perse is not present by itself, but rather is integrated into a process, for example in reactive separations vessels, retorts, certain fuel cells, and photocatalytic surfaces.



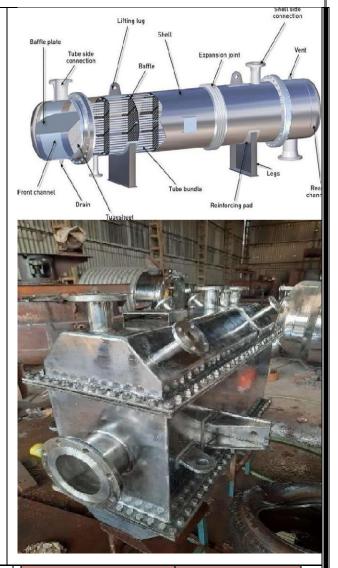
Our manufacturing Capacity of Reactors is as per below list.

> 500L.to10KL. INCREASE.

capacity in LTRS.		
WORKING	GROSS	Model:
500	750	MEREAC 500
750	1000	MEREAC1000
1500	2000	MEREAC2000
2000	2500	MEREAC2500
2500	3000	MEREAC3000
5000	6120	MEREAC6120
6500	7500	MEREAC7500
7500	10,000	MEREAC10KL

HeatExchanger&BoxTypeCondenser

A shell and tube heat exchanger is a class of heat exchanger It is the most common type of heat exchanger in oil refineries and other large chemical processes, and is suited for higherpressure applications. As itsnameimplies,thistype of heat exchanger consists of a shell (alarge pressure vessel) with a bundle of tubes inside it. One fluid runs through the tubes, and another fluid flows over the tubes (through the shell) to transfer heat betweenthetwo fluids



$Our manufacturing {\bf Capacity of HE is a sperbelow list.}$

> 0.5M²TO10M²I NCREASE.

capacity	Model:
0.5M ²	MEHE500
1.0M ²	MEHE1M ²
1.5M ²	MEHE1.5M ²
2.0M ²	MEHE2M ²
3.0M ²	MEHE3M ²
5.0M ²	MEHE5M ²
7.5M ²	MEHE7.5M ²
10.0M ²	MEHE 10M ²

Pressure Vessel

Our pressure vessels for any application is renowned in the industry. We have designed and manufactured vessels in Carbon steel, Alloy steels, Stainless steel and can also manufacture in any other special material on demand. We have supplied vessels up to 12 meters long and 6 meters in diameter, weighing up to 100 tons from design to fabrication.Qualityandtesting is assured as per TEMA, ASME Sec VIII and MSME/APIetc.



Our manufacturing Capacity of Pressure Vessel is as per below list.

> 500L.to10KL. INCREASE.

capacity in LTRS.		
WORKING	GROSS	Model:
500	750	MEDVISO
500	750	MEPV 500
750	1000	MEPV1000
1500	2000	MEPV2000
2000	2500	MEPV2500
2500	3000	MEPV3000
5000	6120	MEPV6120
6500	7500	MEPV7500
7500	10,000	MEPV10KL

Jacketed /Non Jackted Tank / Mixer

Our Vessel is your single source forjacketedvessels. Whetheryou need a half-pipe, dimple, or conventional jacket, our experts will help you. Wecan provide any combination of vessel and jacket materials. Our shop rolls shells andhalf-pipecoilstoalleviateany delays in the fabrication of your vessel. Wecanalsoinstall baffles and agitators for mixing applications. Before you buy your nextjacketedvessel



OurmanufacturingCapacityofJacktedTankisasper belowlist.

> 500L.to10KL. INCREASE.

capacityinLTRS.		
WORKING GROSS		Model:
500	750	MEREAC 500
750	1000	MEREAC1000
1500	2000	MEREAC2000
2000	2500	MEREAC2500
2500	3000	MEREAC3000
5000	6120	MEREAC6120
6500	7500	MEREAC7500
7500	10,000	MEREAC10KL

Sun Earth Engineering

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Please Note: The Safety & Security of the Material provided to you will be your responsibility.

In case of any damages or losses, the cost of the material will be recovered from you.