

# Solution Preparation System

Solution preparation system is mainly used for the preparation and sterilization filtration of sterile drugs, biological products, oral liquid, eye drop, syrup solution, infusion solution, ampoule solution, injection solution and other pharmaceutical liquids in pharmaceutical fields.



## - Technology data specification -

Item	Technology specification
Working volume	20-30000L
Material	SS304 or SS316L
Tank structure	Single layer, double layers (inside shell with insulation layer or inside shell with jacket), double jacketed layers (inside shell, jacket and insulation layer)
Jacket structure	Single full jacket type, limpet coil jacket, dimple jacket etc.
Jacket medium	Heating by steam, hot water & hot oil or electrical heating etc. Cooling by cooling water or chiller etc
Insulation layer material	PUF, mineral wool, rock wool, Aluminum silicate etc
Top mounted agitator	Propeller type agitator, anchor type agitator, scraper type agitator, high shear emulsifying agitator etc.
Bottom mounted agitator	Bottom Magnetic type agitator, bottom high shear emulsifying agitator etc.
Equipment of tank	Manhole (handhole), CIP Spray ball, vent filter, sight glass, sight light, safety valve, sampling valve, level sensor, temperature sensor, pressure gauge, load cell, PH sensor, PO2 sensor, foam sensor, flush bottom valve, VFD etc. *the equipment choose according to the production process requirement *
CIP/SIP	Tank with the pipeline can be online CIP/SIP
Surface finish	Inside surface is mirror polish: Ra<0.4um Outside surface is mat polish: Ra<0.8um
Solution preparation System construction	Mixing tank +filter +transfer pump +storage tank +pipeline +control system

\*Above specification just for reference, we can do according to client's URS \*