

Electrolyzer Flexicone FEL14



User instructions

Important safety information!

Please use electrolyzer in well ventilated area.

Reagent supplied in container consist from few several different components not mixed properly, please mix properly in dry condition before add water.

Reagent classified as not dangerous and not toxic (0/0/0) in dry and wet condition before use.

After applied electrolysis process , solution become corrosive and can produce gases .

Keep electronic and electric devices away from solution.

Use gloves and glasses , when working with chemicals.

The **electrolyzer** is designed to recover noble metals from leach solutions : cyanide, chlorine-chloride, iodine-iodide . If use with iodine-iodide technology , electrolyzer can be used for regeneration iodide-iodine solution . Electrolyzer has anode and cathode cameras separated by ceramic membrane . Solution from leaching reactor, rich by noble metals inters to cathode camera . In cathode camera pH solution rising to ????, generates iodide and metals precipitating on active carbon material . From cathode camera iodide solution inters to anode camera , where generates iodine . Iodine reacts with iodide generates KI3 solution . Regenerated solution sucked by pump and further transfers to reactor for leaching next batch of ore



Technical specification	FEL14	FEL 250
Volume , L	2	20
Cameras	2	2
Membrane ceramic		
Cathode size mm	250x250	500x500
Anode size , mm	250x10	500x20
Size, mm	295x122	600x250
Weight, kg	1	10

Work instructions.

Insert cathode active carbon cloth inside cathode camera

Insert ceramic membrane with carbon foam in top part. Carbon foam require for proper electric contact between carbon rod and carbon cloth.

Make sure ring rubber on bottom of ceramic cartridge installed in proper way. Ring rubber require for proper solution circulation from cathode camera to anode camera.

Screw top cover tight to prevent leakage of solution.

Insert cathode carbon rod in proper way to achieve contact between rod and cloth.

Insert anode.

Rods comes with rubbers for tight positioning.

Connect DC power supply/ rectifier to electrolyzer according to polarities + to anode, - to catode

Connect output electrolyzer to hose with pump suction line

Connect input electrolyzer to solution supply tank.

Electrolyzer generates hydrogen gas in cathode camera , solution supply tank suppose to be in elevated position above electrolyzer to let hydrogen gas escape electrolyzer the line.

Switch On pump and check proper circulation of solution.

Regulate power voltage of pump to minimum to keep Capacity of pump low as possible

Switch on rectifier , electrolyzer current must be about ??????? ampers for FEL14 and ???? ampers for FEL250 . Regulate current by voltage on rectifier.

Important controls:

Leakage avoid

Temperature of solution below 50 degree

Ph solution in cathode ?????, (solution colour????? or slightly ??????)

Ph solution comes from anode ??????? (solution dark brown)

Current control, if current drops significant , anode wearing-off (anode must be replaced), or cathode filled by metal- replace cathode

All information is confidential. Provided only to a specific user and is not allowed to transfer to third parties without endorsement.

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