Specifications of Vacuum Ejectors at Urea Plant

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Sr. No	Tag No	description	Qty Req	Process Conditions	ess Conditions Motive Fluid		Material of Cont.	Nozzle Size
1	U-EE501	1st Ejector 1st	1	Induced medium =gas mixture of H ₂ O	Medium	=saturated steam	As per STAMI BB.01	Inlet steam=1 1/2"-150#
		Stage evaporation		NH3,CO2&Inerts	pressure	=4.2kg/Cm2g	(ASTM- SS304)	Suction =3"-150#
				Suction capacity nor/max. =87/95 kg/hr	Temperature	=146 0c		Exhaust =3"-150#
				Suction pressure =0.24 kg/cm2	Max.steam con	s. =606 kg/hr		
			suction temperature =46 0C					
				Discharge pressure =1.0 kg/Cm2g				
				Molecular weight =23.3 kg/kmol				
3	U-EE503	Ejector for	1	Induced medium =gas mixture ofH ₂ O	Medium	=saturated steam	As per STAMI BB.01	Inlet steam=1"-150#
		UEA-503		NH3,CO2&Inerts	pressure	=4.2 kg/Cm2g	(ASTM- SS304)	Suction =3"-150#
				Suction capacity nor./max. =326/359 kg/hr	Temperature	=146 0c		Exhaust =3"-150#
				Suction pressure =0.11 kg/cm2g	Max.steam con	s. =1224 kg/hr		
				suction temperature =41 oc				
				Discharge pressure =0.44 kg/Cm2g				
				Molecular weight =21.2 kg/kmol				
4	U-EE504	Ejector for	1	Induced medium =gas mixture of H ₂ O	Medium	=saturated steam	As per STAMI BB.01	Inlet steam=1 1/2"-150#
		UEA-508		NH3,CO2&Inerts	pressure	=4.2 kg/Cm2g	(ASTM- SS304)	Suction =3"-150#
				Suction capacity nor./max =41/83 kg/hr	Temperature	=146 0c		Exhaust =4"-150#
				Suction pressure =0.42 kg/cm2g	Max.steam con	s. =228 kg/hr		
				suction temperature =45 oc				
				Discharge pressure =1.02 kg/Cm2g				
				Molecular weight =30.3 kg/kmol				
	U-EE505	Flash tank	1	Induced medium =gas mixture of H ₂ O	Medium	=saturated steam	As per STAMI BB.01	Inlet steam=1 1/2"-150#
		condenser ejector		NH3,CO2&Inerts	pressure	=4.2 kg/Cm2g	(ASTM- SS304)	Suction =3"-150#
				Suction capacity nor./max =220/330 kg/hr	Temperature	=148 0c		Exhaust =4"-150#
				Suction pressure =0.62 kg/cm2g	Max.steam con	s. =376 kg/hr		
				suction temperature =43 oc				
				Discharge pressure =1.02 kg/Cm2g				
				Molecular weight =17.8 kg/kmol				