

CUF LAVRADIO - AMMONIA + UREA EQUIPMENT LIST

PLANT: UREA

EQUIPMENT	Weight (Kg)	Lenght (m)	Width (m)	Height (m)	Diameter (m)
374-J Ammonia pump (1)	8000	4.053	2.555	1.820	-
372-C Ammonia heater (1)	3150	6.190	-	-	0.298
381-JC CO2 compressor (1)	40000	6.010	4.970	2.540	-
301-D Reactor (1)	75000	-	-	22.025	1.300
361-C Evaporator (1)	3800	-	-	9.434	0.466
361-F Gas-liquid separator (1)	4460	-	-	3.520	0.990
362-C Partial condenser (1)	33000	-	-	12.555	1.230
363-C Total condenser (1)	10300	-	-	14.080	0.596
364-C Air cooler (1)	2230	5.420	4.980	4.930	-
361-J/JA Water circulation pumps (2)	382	1.321	0.380	0.702	-
364-J/JA Carbamate pumps (2)	14475	4.588	3.010	1.890	-
362-F Steam recovery separator (1)	2000	2.800	-	-	1.740
365-F Steam dessuperheater (1)	1000	2.000	-	2.515	0.912
361-L Steam ejector (1)	100	1.750	-	-	-
363-F Gas absorber (1)	750	-	-	3.530	0.324
302-C Evaporator (1)		-	-	7.130	0.390
301-F Gas-liquid separator (1)	3450	-	-	2.914	1.100
303-C Condenser (1)	9500	-	-	7.735	0.964
362-J/JA Carbonate pumps (2)	3390	2.710	0.735	0.938	-
302-F Gas absorber (1)	2080	-	-	3.660	0.613
365-C Evaporator (1)	3080	-	-	7.308	0.551
303-F Gas-liquid separator (1)	6820	-	-	11.630	2.006
305-C Condenser (1)	9500	-	-	7.890	1.064
303-J/JA Carbonate pumps (2)					
304-F Gas absorber (1)	230				
304-J/JA Urea solution pumps (2)	499	1.753	0.711	0.562	-
367-L/LA Urea filters (2)	565	-	-	1.400	0.626
366-CA + CB Evaporator (1)	5200	-	-	7.278	0.691
305-F Gas-liquid separator (1)		-	-	3.940	1.683
366-J/JA Urea solution pumps (2)	245	-	-	1.030	0.350
308-C Evaporator (1)		-	-	6.752	0.406
306-F Gas-liquid separator (1)		-	-	5.229	2.591
367-J/JA Molten urea pumps (2)	245			1.030	0.350
301-H Prilling tower (1)		5.800	4.050	43.470	-
367-C 1 st stage concentration condensers (1)	2300	-	-	5.685	0.543
318-C 1 st stage concentration condensers (1)	2100	3.558	-	-	0.600
321-F Gas-liquid separator (1)		-	-	2.415	0.800
303-E Gas absorber (1)		-	-	3.876	0.410
321-J/JA Distillation col. feeding pumps (2)	100	1.351	0.381	0.521	-

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320-C Heat exchanger (1)		4.300	0.300	1.500	-
361-E Distillation column (1)	3090	-	-	12.718	0.608
366-F Vacuum vapors scrubber (1)	1250	-	-	4.280	1.212
365-J/JA Pumps (2)	216	1.143	0.300	0.521	-
315-CA Primary vacuum condenser (1)	6100	-	-	7.526	0.762
315-CB Secondary vacuum condenser (1)		-	-	2.561	0.761
H-504A/B/C Primary vacuum steam ejectors (3)		1.084			
H-505A/B/C Secondary vacuum steam ejectors (3)		0.467			