Road Maintenance Equipment & Services Inc.



106 Buchanan St. Cobourg, Ontario, Canada – K9A 4Y4 Tel. 905-372-1124

Fax. 905-373-4773

BT600AC

STAINLESS STEEL AUTOMATIC BRINE MAKING PLANT COMPLETE WITH AUTOMATIC SALINITY CONTROL, OVERFLOW PREVENTION, AUTOMATIC PUMP OUT TO STORAGE, PUMP PROTECTION

Brine Making Plant shall meet the following minimum specifications:

1.	The brine making process will be automatically controlled by an Electronic Controller (EC). The EC will control the salinity content of the finished brine to within \pm 0.2% and pump the finished brine to a customer supplied storage tank. The operator will be able to pre-select the desired salinity level of the finished brine. In auto mode the EC will shut down the machine in the event that the brine is either too rich or too lean. The brine maker will also include full manual override controls which enable brine production in a fully manual mode.
	Comply:yesno
2.	The dissolution tank, brine containment tank and spillway shall be welded 304 stainless steel, one-piece construction. The stainless steel baffle wall between the dissolution side of the tank and the brine containment side of the tank shall be welded on both sides of the baffle.
	Comply:yesno
3.	The entire Brine Making Plant shall be constructed into a single frame to allow for easy loading, un-loading, and positioning using standard fork lift trucks.
	Comply:yesno
4.	The dissolution tank, brine containment tank and spillway shall be constructed of 304 grade stainless steel. Plastic or fiberglass construction is not permitted.
	Comply:yesno
5.	The Brine Making Plant shall be delivered as a complete system with all plumbing,

Page 1 of 4

for connecting the discharge pump to its own storage facilities if required.

pump, valves, hoses, etc. included in the package. The Customer will be responsible

	Comply:	_yes	_no				
6.	Overall dimensi Width: 145 inch Depth: 60 inche Height: 72 inche	es es	ot excee	ed: Comply: Comply: Comply:	yes	no	
7.	System being s dissolution tank						ure the
	Comply:	_yes	_no				
8.	System shall be from the bottom stainless steel s	to the top.	The bri	ne will exit the	dissolution ta		•
	Comply:	_yes	_no				
9.	Dissolution Tan Width: 136 inch Depth: 52 inche Capacity: 5.2 yo	es minimum es	n	State Width: State Depth: State Capaci			
10	. Brine Containm Capacity: appro		70 litres	s (650 USG)			
	State Capacity:		-				
11	. Pump/Motor shall be coupled to Bench Rated fo 2 HP – 115/220 Housing shall be Pump shaft shall other pump p	only: r 120 USGF VAC Single e glass rein ill be stainle:	e Phase forced p ss steel	e oolypropylene I	Comply:	yes _yes _yes _yes	no no no no no no

12.		•	are exposed to sait or brine s bylene or approved equal.	snali de corrosio	n resista	nt
	Comply:	_yes	_no			
13.			and dilution water supply lin 80 PVC pipe. Flexible hose			Brine
	Comply:	_yes	_no			
14.		ed and rate	Brine Making Plant used for d for 150 PSI minimum and	•	•	
	Comply:	_yes	_no			
15.			Il be controlled using an elec ne electrical panel.	ctric solenoid va	lve that is	3
	Comply:	_yes	_no			
16.			rolled by an electronic propo y the EC in the electrical par	•	vhich is	
	Comply:	_yes	_no			
17.	dissolution tank close the main brine containme	and the bri water supplent tank sen t-off function	all include water/brine high-lene containment tank. The di y valve automatically in ordensor will control the pump ou a and the low level pump proses required.	issolution tank le er to prevent ove It to storage fund	evel sens erfilling. T ction, the	or will he high
	Comply:	_yes	_no			
18.	Electrical Panel Nema 4X 10' electrical co		t lock" plug	Comply: Comply:		
					P	age 3 of

RMES Equipment for Solutions www.rmes.ca

Motor contactor c/w overload relay Emergency Stop button Sensor relays Electronic Salinity Control – User Adjustable Manual Override Control Switch Pump Start/Stop Switch Auto/Manual Switch Remote High Level sensor (for storage tank)	Comply:yesno Comply:yesno Comply:yesno Comply:yesno Comply:yesno Comply:yesno Comply:yesno Comply:yesno				
19. Spillway: The spillway shall have a flow capacity of not less hour.					
Comply:yesno					
20. Clean-Out: The dissolution tank shall include at least one 6" ANSI stainless steel clean-out flange c/w 6" PVC Butterfly valve located at the rear. No elbows or other flow diversions are permitted on the clean-out pipe. The clean-out pipe shall be located approximately ½" to ½" from the floor of the dissolution tank. Comply:yesno					
21. The brine containment tank shall include a 6" clean-out as item 20 above. Comply:yesno					
Jon					