



SURFACE CONDENSER SPECIFICATION SHEET

Customer:	Lincoln Paper and Tissue LLC	EG.No.:	1821NEW16
Customer Ref:		Date:	4/21/2016
Location	Lincoln, ME	Engineer:	GDM
Item:	Surface Condenser		
PERFORMANCE			
Absolute Pressure @ Steam Inlet	inHgA	3.5	
Steam Condensed	lbs/hr	81,000	
Heat Rejected	BTU/hr	75,297,600	
Circulating Water	gpm	7,530	
Water Specific Gravity / Specific Heat			
Water Inlet / Outlet	°F	90/ 110	
Water Pressure Loss:	psig	9.5	
Service Factor	% Clean	75	
Tube Velocity	ft/s	8	
DESIGN			
Model:	46 62 TALTD		
Tubesheet/ Shell Joint	FTSTB		
Surface Area Total / Effective	ft2	7766/ 7655	
Number of Water Passes	2		
Number of Tubes	1,599		
Outside Diameter (in) - AVG	0. 22 AVG		
Total Tube Length	ft	24.75	
Design / Test Pressure	psig	Shell	Tubes
	Design	FV & 15	75
	Test	22.5	112.5
Design Temperature	°F	225	150
Hotwell: Cylindrical	Supply	Minutes	1
Steam Inlet (in)	Qty/ Size	1	48
Water Connections(in)	Qty/ Size	2	20
Condensate Outlet (in)	Qty/ Size	1	8
Vapor Outlet (in)	Qty/ Size	1	3
Relief Connection (in)	Qty/ Size	1	16
Corrosion Allowance (in)	Shellside/ Tubeside	0.313	0.625
Impingement Protection	Perforated SS		
MATERIALS			
Shell	Carbon Steel	SA-516-70	
Water Boxes	Carbon Steel	SA-516-70	
Water Box Covers	Carbon Steel	SA-516-70	
Baffles	Carbon Steel	SA-516-70	
Tube Supports	Carbon Steel	SA-36	
Tubes	316SS	SA-249-TP316	
Tube Sheets	316SS	SA-240-316	
Remarks:			
Construction Code: HEI, ASME Sec VIII Div 1 w/ Stamp			
Ejector Package mounted on Condenser			
Vortex Breaker in condensate outlet			

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