

COLUMN DESIGN DATA									
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Client: Novomer, Inc.				Project No: 14308P		Item No: C-03101	
Unit: 031 - Gas Recovery				Location: Adana, Turkey			
Service: CO Absorber				Manufacturer:			REV
Shell Diameter (ID): Top: 600 (Note 2) / Bottom: 1000 mm				Shell Length (FOF to TL): Top: 3800 / Bottom: 1800 mm			
Internal				External			
Pressure		Temperature		Pressure		Temperature	
Operating: 7.8 barg		59 °C		N/A barg		N/A °C	
Design: 10.0 barg		90 °C		N/A barg		N/A °C	
MAWP, Cold/new: barg				MAWP, Hot/Corroded: barg			
Liquid Ht (operating): 900 (Note 5) mm				Spec. Gravity: 0.842 @ 59 °C			
MATERIALS			CORROSION ALLOWANCE				
Shell:	CS	3.0					
Heads:	CS	3.0					
Internals:	CS	3.0					
Packing:	SS304	0.0					
Trays:							
Supports:	CS	0.0					
Stress Relief for Process Reasons?				No			
Type of Head:		Bottom:	2:1 Elliptical		Top:	2:1 Elliptical	
Bottom ht. from Grade:		Note 2	mm				
Preferred Support Type:		Note 7					
Insulation:		None					
Metal temp.:		Max: 90 °C	Min: -7 °C				
Mark	Size, in	Rating	Quantity	Description			
A	6	150# RF WN	1	Vapor Inlet			
B	2	150# RF WN	1	Bottoms Outlet			
C	1.5	150# RF WN	1	Liquid Inlet			
H	8	150# RF WN	1	Handhole			
K	4	150# RF WN	1	Vapor Outlet			
L1 - L4	Note 1	150# RF WN	4	Level			
M	18	150# RF WN	1	Manway			
P1 - P2	Note 1	150# RF WN	2	Pressure			
RV	LATER	150# RF WN	1	Relief Valve			
T1 - T2	Note 1	150# RF WN	2	Temperature			
Remarks: (Special conditions, start-up, shutdown, regeneration, vibration, etc., that may affect the mechanical design.)							
Vessel Construction per ASME Section VIII, Div. 1.							
Refer to Sheet 3 for all notes.							