

Purchaser	BARBER WD 203900-1.1			
Ref. No.	PO# 6604CF3900-1.1	Destination	WESTERN DECALIA-DIAMOND VALLEY	
	1 Model	144EH-102-21	Air-x-changer	
	PERFORMANCE			
1 Service	CW	1C	AC	
2 Flow	108GPM	16.6MMSCFD	16.6MMSCFD	
3 Fluid	50%GLY	.632SPGR	.632SPGR	
4 Temperature in, °F	160.0	231.0	238.0	
5 Temperature out, °F	145.0	120.0	120.0	
6 Pressure, PSI		581PSIA	1200PSIA	
7 Pressure Drop, PSI	3.0	5.2	16.8	
8 Heat Load, BTU/HR	740000	2234698	2579585	
9 True MTD	36.0	42.8	41.8	
10 Overall Rate	149.0	86.8	105.3	
11 Fouling Factor	.0005	.0020	.0020	
12 Tube Surface, Sq. Ft.	139	604	561	
13 Total Surface, Sq. Ft.	2213	9609	9393	
14 Sections, No. of	1	1	1	
15 Connected	SINGLY	SINGLY	SINGLY	
16 No. Passes	1	1	3	
17 Design Temp. °F	300	300	300	
18 Design Press. PSIG	14*	655	1315	
19 Test Press. PSIG	225	983	1973	
20 Nozzles	3-150RF	6-300RF	4-600RF***	
21 Tubes, OD x BWG	5/8X16BWG	5/8X16BWG	5/8X16BWG	
22 Material	SA214 STEEL	SA179 STEEL	SA179 STEEL	
23 No./Section, Length	44, 21	178, 21	174, 21	
24 No. Rows	3	4	4	
25				
26 Fins, Type	WHEEL	WHEEL	WHEEL	
27 Material	AL	AL	AL	
28				
29				
30 Headers, Type	BOX	BOX	BOX	
31 Material	STEEL	STEEL	STEEL	
32 Counterflow				
33 Corrosion Allowance		.0625	.0625	
34 Grd Tube Sheet		DBL	DBL	
35 Plugs, Type	TAPER	SHOULDER	SHOULDER	
36 Material	BRASS	STEEL	STEEL	
37 Retarders				
38 Accelerators		.250		
39 ASME Code Stamp	& N.B.	YES	YES	
40 Total SCFM	142904	Temp. In °F. 100	Temp. Out °F 135.3	Elev. 3280
	MECHANICAL EQUIPMENT • STRUCTURES			
41 No. Fans 1 HP/Fan	24.2RPM	299 Dia. 144	No. Blades 6	Material ALUMINUM Make AEROVENT
42 Drive	V-BELT BY (1) 30HP, 1800RPM, 480V/3P/60H, X-P MOTOR (CSA)			
43				
44 Draft Type	FORCED	No. of Bays	Overall Width	Length Height
45 Guards	FAN & DRIVE		Assembly	PACKAGED
46				
47 Est. Shipping Weight	19013 LBS			
48 Accessories	* ACTUALLY BUILT TO OUR STANDARD 1504 DESIGN, BUT DESIGNATED			
49	14# TO ELIMINATE THE NECESSITY OF PROVINCIAL REGISTRATION.			
50	***INCLUDES A 3-600 RF FOR BYPASS.			