

# air-x-hemphill

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Job No. 48035  
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Page 1 OF 1

1	Purchaser	VECO CANADA / BPCANADA		Ultimate User	BP CANADA	
2	Inquiry / PO#	PROJECT #5556 / D5758		Destination	OJAY, BC	
3	# Units	1	Model	132ZFS	Reference	
4	Assembly	PACKAGED	Draft	FORCED	Overall Size (WxL), F.	12 x 21 Est Wt LBS

## THERMAL & MECHANICAL DESIGN

5	Service	AC	HEATING COIL
6	Flow	40MMSCFD	
7	Fluid	.8034SPGR	
8	Temp. In / Out, °F	136.0 / 104.0	
9	Pressure, PSI	1480PSIG	
10	Pressure Drop, PSI	5.9	
11	Heat Load, BTU/HR	2178542	
12	True LMTD	20.2	
13	Overall Rate, U	111.5	
14	Fouling Factor	.0020	
15	Surface, Tube / Total, Sq Ft	964 / 15331	125 / 2674
16	Sections, #	(1)	(1)
17	Design Temp, °F Max / Min	300 / -49	300 / -20
18	MWP / Test Press, PSIG	1650 / 2145	*14 / 75
19	Pass Arrangement	CROSSFLOW	CROSSFLOW
20	# Tube Rows	3	1
21	# Tube Passes	2	2
22	Tubes, OD x BWG	5/8X16	1X16
23	Material	SA179 STEEL	SA214 STEEL
24	# Per Section / Length, Ft	284 / 21	23 / 20.5
25	Turbulators		
26	Accelerators		
27	Fins, Type	HI-EFF	HI-EFF
28	Material	AL	AL
29	Nozzles, Rating / Type	900RF	COUPLING
30	Material	SA350LF2	SA105
31	#-Inlets / Size In	(1) 6	(1) 2
32	#-Outlets / Size In	(1) 6	(1) 2
33	Headers, Type	BOX	REC TUBE
34	Material	SA516-70N	A500
35	Corrosion Allow, In	.1250	
36	Grooved Tubesheet	DBL	SGL
37	Plugs, Type	SHOULDER	SHOULDER
38	Plugs Material	SA350LF2	SA105
39	PWHT	YES	
40	ASME Code & Nat'l Board	YES	
41	CRN	AB / BC	

## Add'l Specs & Options

43	API	
44	Louvers / Hail Screen	AUTO / INT
45	Inspection / NDT	UT, BX, H

FX= 100% X-Ray of all header seam, attachment & nozzle butt welds. SX= Spot X-Ray of 1 long seam & 1 end closure, per header  
BX= 100% X-Ray of all nozzle butt welds. UT = 100% UT of all header seam, attachment & nozzle butt welds. H = Hardness testing.

AIR-SIDE PERFORMANCE		FAN DATA		DRIVER DATA	STRUCTURAL
46	Ambient Air Temp, In °F	90	Fan(s) (1) MOORE-S36-10KVT	Type	Guards FAN/DRIVE
47	Elevation, Ft	2500	Blade Material ALUMINUM	V-BELT DRIVE BY (1) 15HP,	SOFT BUGSCREENS
48	Air Flow, SCFM	136,331	HP / Fan 13.9	1800RPM, 460/60/3, TEXP, PE,	WARM AIR RECIRC
49	Outlet Air Temp, °F	104.2	Dia, In / # Blades 132 / 8	VFD COMP. MOTOR (CSA)	
50	Min Air Temp, °F	-20	RPM 248		
51			Tipspeed, FPM 8570		
52	Est. Noise Data: 81dBA @ 1m, 62dBA @ 15m		Pitch, Deg 20		

## Additional Info.

\* - BUILT TO STANDARD 150# DESIGN BUT DESIGNATED 14# TO ELIMINATE THE NECESSITY OF PROVINCIAL REGISTRATION