



8203 Market Street Road
Houston, Texas 77029
Phone: 713.675.3511
Fax: 713.675.7922

	No	Date	Description
	0	10/06/14	Order Basis
R			
E			
V			
S			

Air Cooled Exchanger Specification

1	Customer		Sheet No.		1 of 1		
2			Ecodyne Ref. No.				
3	Address		Plant Location		Customer Ref. No.		
4			Z		Item No.		
5	Service Cooling Water Module						
6	Bay Qty.	2	Size	15W-54L-3113	Draft Type	Induced	
7	Surface Per Item.....Extended	197,089	ft ²	Surface per It.....Bare Tube	9,183	ft ²	
8	Heat Exchanged	12,460,000	BTU/h	Effective MTD	17.5	°F	
9	Transfer Rate...Extended, Service	4.00	BTU/h-ft ² -°F	Transfer Rate Bare Tube, Svc	84.25	BTU/h-ft ² -°F	
10	PERFORMANCE DATA						
11	Fluid Name		60% EG / Water		Specific / API Gravity @ 60°F		
12	Total Flow Rate	lbs/h, GPM	1,278,620	2,353	Inlet Pressure	psig	
13	T		IN	OUT	Dew Point	°F	
14	U	Temperature	°F	89.5	77	Bubble Point	°F
15	B	Liquid	lbs/h	1,278,620	1,278,620	Pour/Freeze Point	°F
16	E	Vapor	lbs/h, MW			Latent Heat	BTU/lb
17	S	Non-Condensibles	lbs/h, MW			Allowable Fluid Velocity	ft/s
18	I	Steam	lbs/h			Des. Max. Fluid Velocity	ft/s
19	D	Water	lbs/h			Allowable Pressure Drop	psi
20	E	Specific Heat (V/L)	BTU/lb-°F	/ 0.774	/ 0.766	Design Pressure Drop	psi
21	I	Conductivity (V/L)	BTU/h-ft-°F	/ 0.207	/ 0.205	Fouling I.S.	h-ft ² -°F/BTU
22	R	Density (V/L)	lbs/ft ³	/ 66.48	/ 66.75	Air side fouling	0.0015
23	A	Viscosity (V/L)	cP	/ 3.27	/ 4.1		
24	I	Flow Rate	lbs/h	4,398,047		Altitude	ft
25	R	Temperature In & Out	°F	59	70.65	Minimum Design Ambient	°F
26	I	Flow Rate Per Fan	ACFM	172,067		Static Pressure Loss	in. WG
27	DESIGN, MATERIALS, AND CONSTRUCTION						
28	Design/Test Pres. psi	150	/	Code	Design Temp / MDMT °F	200 / -58	
29	B	Size	330-8-648ST20-5	Type	Plug Box	X-Ray Spot, S.R. No	
30	U	#/Bay 1 (WxL) ft	15 x 54	Material	SA-240 304 SS	Code ASME Sec. VIII, Div. 1 / API 661	
31	N	Arrangement	Horizontal	5 Rows	2 Passes	Prep./Coat None	
32	D	1 Bundles	Parallel/ Series	Slope	0 in/ft, Pass		
33	L	2 Bays	Parallel/ Series	H	Plug/Gasket Mat'l	SS / SS	
34	E	Total Bundles Per Item	2	A	Corrosion Allowance	0.0 in.	
35	M	Struct. Prep./Coat	Galvanize	D	NOZZLE	No. SIZE RATING	
36	I	Struct. Mount	Grade	E	Inlet	1 8" 150#Rfwn	
37	S	Ladder	HDR Walkway HDR	R	Outlet	1 8" 150#Rfwn	
38	C	Fan Guard	Yes Steam Coil None	S	Vent	1 2" 150# rflwn	
39	A	Vibration Switch	1/ fan	F	Drain	1 2" 150# rflwn	
40	N	Screen	None Mat'l N/A	I	P-Taps		
41	R	Louver Mat'l	Aluminum	N	T-Taps		
42	S	Action	Para Operator Pneu	S	Cleaning		
43	MECHANICAL EQUIPMENT						
44	F	Type	Axial Flow	D	Type	Electric Motor	
45	A	No/Bay	3 Max. Amb. Fan HP 25.3	R	No/Bay	3	
46	N	Dia	13 ft Min. Amb. Fan HP 35.9	I	40 HP @	1800 RPM	
47	R	No. of Blades	4 RPM	V	Volt	600, Phase 3, Cycle 60	
48	E	Blade/Hub Material	Al/Al	E	Frame	, Enclosure TEFC	
49	S	Pitch Adj.	Manual	R	S.F.	1.15, S.H. Voltage 120	
50	M	Manufacturer			Mfg.		
51	F	Calc.	85 dBA @ Dist. ft. 3				
52	Plot (WxL) ft.		31 x 56	Shipping Weight		lbs	
53				Proposal Drawing No.			
54	Notes:						
55	(A) Pumps include 150 HP motors (2,352 gpm w/ 160' TDH) based on 115' external head losses.						
56	(B) Satic head/expansion tank capacity is 500 gallons.						
57	(C) Piping system is 12" with bypass assembly and 14" connections.						
58	(D) Pressure drop in fouled condition is 8.4 psi						
59	(E) Cooler sizing based on 110% heat load shown above.						
60	(F) Cooler performance at 98.6°F ambient is 14,799,000 BTU/hr with max outlet of 114°F with a pressure drop of 7.1 psi						



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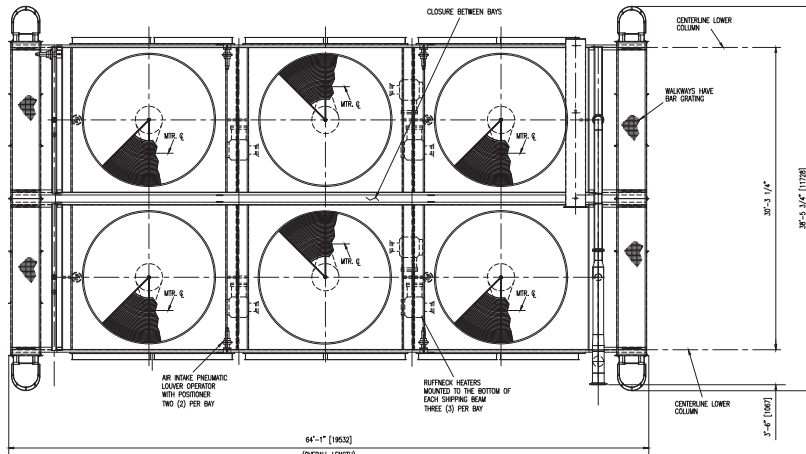
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14	U Temperature °F	89.5	77	Bubble Point °F
15	B Liquid lbs/h	1,278,620	1,278,620	Pour/Freeze Point °F
16	E Vapor lbs/h, MW			Latent Heat BTU/lb
17	S Non-Condensibles lbs/h, MW			Allowable Fluid Velocity ft/s
18	I Steam lbs/h			Des. Max. Fluid Velocity ft/s
19	D Water lbs/h			Allowable Pressure Drop psi
20	E Specific Heat (V/L) BTU/lb-°F	/ 0.774	/ 0.766	Design Pressure Drop psi 9.9
21	E Conductivity (V/L) BTU/h-ft-°F	/ 0.207	/ 0.205	Fouling I.S. h-ft ² -°F/BTU 0.0015
22	D Density (V/L) lbs/ft ³	/ 66.48	/ 66.75	Air side fouling 0.0015
23	E Viscosity (V/L) cP	/ 3.27	/ 4.1	
24	A Flow Rate lbs/h	4,398,047		Altitude ft 2,043
25	I Temperature In & Out °F	59	70.65	Minimum Design Ambient °F -59
26	R Flow Rate Per Fan ACFM	172,067		Static Pressure Loss in. WG 0.565
27	DESIGN, MATERIALS, AND CONSTRUCTION			
28	Design/Test Pres. psi 150	Code	Design Temp / MDMT °F 200	Fin Select Temp °F -58
29	B Size 330-8-648ST20-5	Type Plug Box	X-Ray Spot	S.R. No
30	U #/Bay 1 (WxL) ft 15 x 54	Material SA-240 304 SS	Code ASME Sec. VIII, Div. 1 / API 661	
31	N Arrangement Horizontal	5 Rows 2 Passes	Prep./Coat None	
32	D 1 Bundles Parallel/ Series	Slope 0 in/ft, Pass		
33	L 2 Bays Parallel/ Series	H Plug/Gasket Mat'l SS / SS	Material SA-249 TP304 SS	
34	E Total Bundles Per Item 2	A Corrosion Allowance 0.0 in.	T OD 1.0 in.	
35	Struct. Prep./Coat Galvanize	D NOZZLE No. SIZE RATING	U 0.065 in. AVG Wall	
36	Struct. Mount Grade	E Inlet 1 8" 150#Rfwn	B No/Bundle 330	
37	M Ladder HDR Walkway HDR	R Outlet 1 8" 150#Rfwn	E Length 54 ft.	
38	I Fan Guard Yes Steam Coil None	R Vent 1 2" 150# rflwn	E Pitch 2.5 in. Layout Triangular	
39	S Vibration Switch 1/ fan	R Drain 1 2" 150# rflwn	F Material Aluminum(SB-209-1100)	
40	C Screen None Mat'l N/A	P-Taps	I Fin OD 2.25 in.	
41	Louver Mat'l Aluminum	T-Taps	N Fins Per Inch 10	
42	Action Para Operator Pneu	Cleaning	S Attachment Method L-footed	
43	MECHANICAL EQUIPMENT			
44	Type Axial Flow	Type Electric Motor	Speed	Type HTD Belt
45	No/Bay 3 Max. Amb. Fan HP 25.3	D No/Bay 3	Reducer	No/Bay 3
46	F Dia 13 ft Min. Amb. Fan HP 35.9	R 40 HP @ 1800 RPM		S.F. 2.0
47	A No. of Blades 4 RPM	I Volt 600 , Phase 3 , Cycle 60	Coupling	Manufacturer
48	N Blade/Hub Material Al/Al	V Frame , Enclosure TEFC		Type N/A
49	Pitch Adj. Manual	E S.F. 1.15 , S.H. Voltage 120		No/Bay
50	Manufacturer	R Mfg.	S.F.	Manufacturer
51	Calc. 85 dBA @ Dist. ft. 3			
52	Plot (WxL) ft. 31 x 56	Shipping Weight lbs	Proposal Drawing No.	
53	Notes:			
54	(A) Pumps include 150 HP motors (2,352 gpm w/ 160' TDH) based on 115' external head losses.			
55	(B) Satic head/expansion tank capacity is 500 gallons.			
56	(C) Piping system is 12" with bypass assembly and 14" connections.			
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59	(F) Cooler performance at 98.6°F ambient is 14,799,000 BTU/hr with max outlet of 114°F with a pressure drop of 7.1 psi			

**Note: Please the IVCS for further information on Major Components.

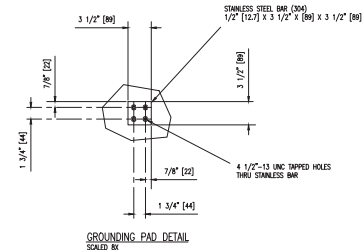
Quantity Based on 1 Unit

Item	Qty.	Description	Part #
1	2	Air Cooled Heat Exchanger, 15W-54L-3I13	14496-101FA
2	8	Lower Columns - End	14496-101-SHT19
3	8	Lower Columns - Interior	14496-101-SHT30
4	16	Lower Column Knee Brace	14496-101SHT18
DRIVE ASSEMBLY PARTS			
5	6	Fan	1305-FAN-MO-0082
6	6	Fan Motor	1310-MF-040-1800-S30358
7	6	Inlet Bell (7 SECTIONS)	1398-INLETBELL-HUDSON 81213SET
8	6	Spin Doctor	1320-SPIN-DR
9	6	Driver Sprocket	1320-SPR-P28-EHX01-55
10	6	Driven Sprocket	1320-SPR-P192-EHX01-55
11	6	Driver Bushing	1320-BUSH-QDSK-21250
12	6	Driven Bushing	1320-BUSH-QDF-29375
13	6	Bearing - Bottom	1320-BRG-023227-29375-K
14	6	Bearing - Top	1320-BRG-023249-29375-K
15	30	Belt	1320-BLT-HTD-3360-EHX01-55
16	6	Belt Guard	14496-106 SHT1
17	6	Vibration Switch	2315-1018
18	6	Grease Line Kit (Per Drive Assembly)	14496-GREASE LINE KIT
		Includes:	
PUMP SKID ASSEMBLY PARTS			
19	2	Pump	1421-PMPGO-S30358
20	2	Pump Motor	1445-MP-150-1800-S30358
21	2	Check Valve 12"	1450-VLV-0165
22	2	Butterfly Valve 12"	1450-VLV-0163
23	4	Gasket 12"	1172-GSKT-120-0150-NA-RF-1250
24	2	Gasket 6"	1172-GSKT-060-0150-NA-FF-1250
25	2	Gasket 8"	1172-GSLT-080-0150-NA-FF-1250
26	2	Differential Pressure Transmitter	1451-INS-0037
PIPING ASSEMBLY PARTS			
27	1	Bypass Valve	1450-VLV-0168
28	4	Butterfly Valve 8"	1450-VLV-0164
29	1	Y-Strainer 12"	1450-VLV-0167
30	1	Gasket 12"	1172-GSKT-120-0150-NA-RF-1250
31	2	Gasket 12"	1172-GSKT-120-0150-NA-FF-1250
32	4	Gasket 8"	1172-GSKT-080-0150-NA-RF-1250
33	4	Butterfly Valve 12"	1450-VLV-0163
34	2	Thermowell	1451-INS-0160
35	1	Thermometer	1451-INS-0034
36	1	Thermometer	1451-INS-0178
37	2	RTD	1451-INS-0194
38	3	Needle Valve, 1/4"	1450-VLV-0173

39	2	Pressure Gauge, 0-30 PSIG	1451-INS-0120
40	1	Pressure Gauge, 0-60 PSIG	1451-INS-0122
41	1	Pressure Gauge, 0-160 PSIG	1451-INS-0138
42	3	Gate Valve, 3/4"	1450-VLV-0170
43	3	Air Eliminator	1451-INS-0003
44	6	Pump Skid Washer	14496-108SK-SHT6
45	2	Gate Valve 2"	1450-VLV-0068
46	1	Check Valve 2"	1450-VLV-0166
47	1	RTD, Ambient Air	1451-INS-0014
SURGE TANK ASSEMBLY PARTS			
48	1	Surge Tank, 30" Dia	14496-104-SHT1
49	1	Liquid Level Indicator	1451-INS-0032
50	2	J-Box Switch	1451-INS-0023
51	2	Surge Tank Knee Braces	14496-104-SHT3
52	1	Vent	2441-1054
WINTERIZATION ASSEMBLY PARTS			
53	6	Heaters	1398-SPACE HEATER RUFFNECK-4
54	6	Louver - Lower Side Air Intake	14496-103-SHT2
55	6	Pneumatic Actuator - Air Intake	(Part of Louver Assembly)
56	6	Top Discharge Louver	14496-103LD-SHT1
57	6	Pneumatic Actuator - Discharge Side	(Part of Louver Assembly)
58	8	Proximity Switches	(Part of Louver Assembly)
59	4	Solenoid Valves	(Part of Louver Assembly)
WALKWAY ASSEMBLY PARTS			
60	1	Header Walkway - Floating Header	14496-101WL-SHT8
61	1	Header Walkway - Stationary Header	14496-101WL-SHT1

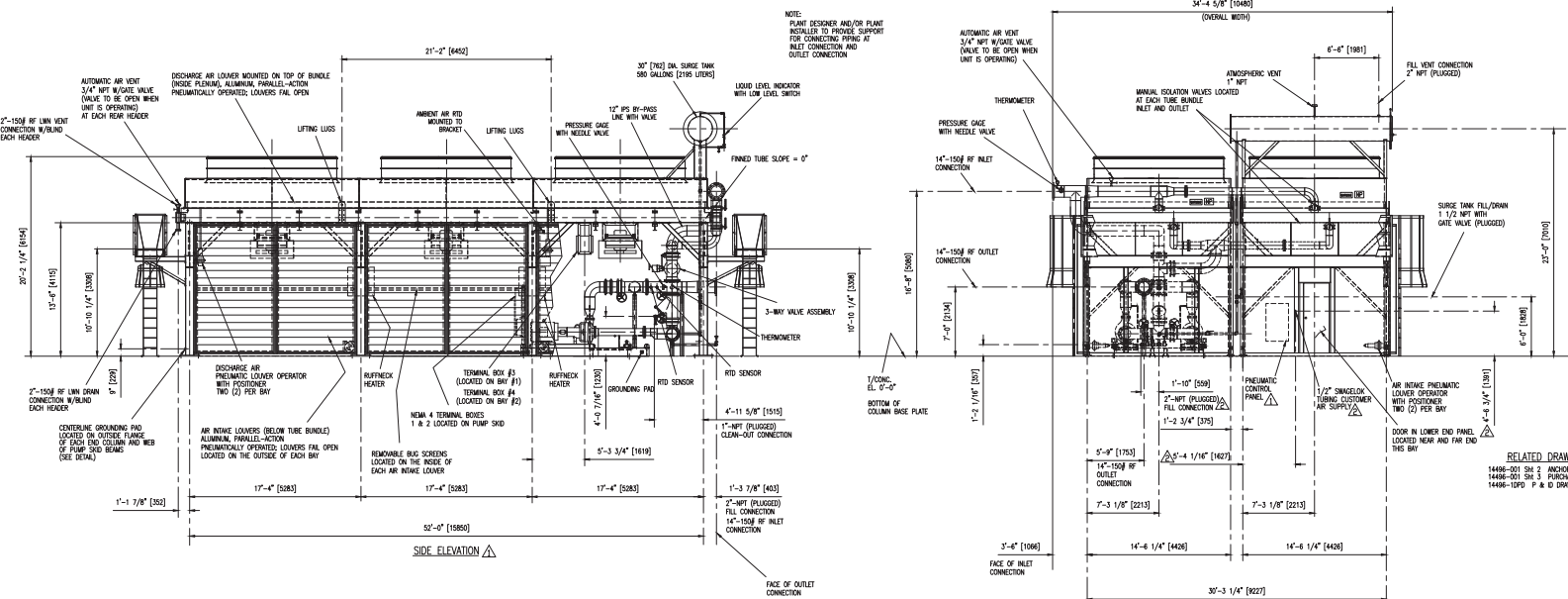


PLAN VIEW



GROUNDING PAD DETAIL
SCALE: 1/4\"/>

CUSTOMER INTERFACES		MATERIAL/GRICE
INLET CONNECTION	14\"-150# RF FLANGE	SA-105 FS ANSI STD.
OUTLET CONNECTION	14\"-150# RF FLANGE	SA-105 FS ANSI STD.
CLEAN-OUT CONNECTION LOCATED ON REC-STRAINER	1\" NPT GATE VALVE, (PLUGGED)	A-126, iron
SURGE TANK FILL	2\" NPT HALF COUPLING, (PLUGGED)	SA-105 FS
SURGE TANK FILL ON TANK	2\" NPT HALF COUPLING, (PLUGGED)	SA-105 FS
SURGE TANK DRAIN ON TANK	1\" NPT HALF COUPLING, (PLUGGED)	SA-105 FS
SURGE TANK DRAIN	1 1/2\" NPT GATE VALVE, (PLUGGED)	A-126, iron



SIDE ELEVATION

FRONT ELEVATION


NOTE:
PLANT DESIGNER AND/OR PLANT ENGINEER TO PROVIDE SUPPORT FOR CONNECTING PIPING AT INLET CONNECTION AND OUTLET CONNECTION

RELATED DRAWINGS
14496-001 SH 2 ANCHOR BOLT PLAN
14496-001 SH 3 PURCHASER INFORMATION SHEET
14496-001P P & O DRAWING

DESIGN	DATE	BY	CHKD
REVISED	DATE	BY	CHKD
APPROVED	DATE	BY	CHKD
PROJECT NO.	14496-001		
DRAWING NO.	14496-001-001		
PART NO.	14496-001-001		
DATE	11/22/2011		
SCALE	AS SHOWN		



<p>PHYSICAL</p> <ol style="list-style-type: none"> ESTIMATED DRY WEIGHT PER EXCHANGER BAY: 82,800 LBS.[29,625 Kg] ESTIMATED LIQUID CAPACITY: 2480 GALLONS [9,387 LITERS] TOTAL ESTIMATED FLOODED WEIGHT PER EXCHANGER BAY: 90,840 LBS.[41,205 Kg] MATERIALS PROVIDED: TUBE BUNDLE HEADER BOXES: SA-240, 304 SS TUBES: SA-249, TP304 SS FINS: ALLOY 1100 ALUMINUM FLANGES: SA-182, F304 SS UNIT ANCHORS - (64), 1 "[25] DIAMETER - ARE TO BE SUPPLIED BY PURCHASER. REFER TO SHEET 3. THE DESIGN OF THE ANCHOR BOLTS AND THE DEPTH OF FOOTINGS ARE DEPENDENT ON LOCAL CODES AND SOIL CONDITIONS. ALL FLANGE BOLT HOLES TO STRADDLE NATURAL CENTERLINES
<p>DESIGN</p> <ol style="list-style-type: none"> TUBE BUNDLES ARE TO BE STAMPED PER ASME CODE, SECTION VIII, DIV 1, WITH NATIONAL BOARD REGISTRATION TUBE BUNDLE DESIGN DATA: DESIGN PRESSURE = 150 PSIG DESIGN TEMPERATURE = 200° F TEST PRESSURE = 195 PSIG
<p>TESTING</p> <ol style="list-style-type: none"> FAN BLADES ARE TO BE MOMENT BALANCED AND FAN HUBS DYNAMICALLY BALANCED WITH CERTIFICATES SUPPLIED COMPLETED COOLER IS TO HAVE AIR FLOW CONFIRMED PER ECODYNE HEAT EXCHANGER PROCEDURE. COMPLETED COOLER IS TO BE SOUND LEVEL TESTED PER ECODYNE HEAT EXCHANGER PROCEDURE. MAXIMUM SOUND LEVEL NOT TO EXCEED 85 dBA (SPL) AT 3 FEET FROM SIDE OF UNIT. COMPLETED COOLER IS TO BE VIBRATION TESTED PER ECODYNE HEAT EXCHANGER PROCEDURE. TUBE BUNDLES ARE TO BE HYDROSTATICALLY TESTED FOR A MINIMUM OF ONE HOUR PER ECODYNE HEAT EXCHANGER PROCEDURE. IMPACT TESTING WILL CONSIST OF ONE (1) TEST PER HEAT LOT OF THE FOLLOWING COLUMNS BASE PLATES LIFT LUGS LATERAL STABILITY BRACES MINIMUM ACCEPTABLE IMPACT VALUES SHALL BE 5 JOULES AT -40° F.
<p>PREPARATION AND FINISH</p> <ol style="list-style-type: none"> COATINGS: a. STRUCTURAL STEEL: HOT-DIP GALVANIZED PER ASTM A-123. b. TUBE BUNDLE HEADERS: STAINLESS STEEL - BARE, NO COATING c. MANUFACTURED PRE-PAINTED ITEMS: TOP COAT USING TWO-PACK EPOXY d. PIPING: EXTERIOR STAINLESS STEEL - BARE, NO COATING; e. EXPANSION TANK: EXTERIOR SURFACES TO BE SANDBLASTED PER SSPC-SP10. PRIME USING INORGANIC ZINC PRIMER; TOP COAT USING TWO-PACK EPOXY. FINISH COLOR TO BE GRAY. THICKNESS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INTERIOR SURFACES ARE TO BE SANDBLASTED PER SSPC-SP6. OIL MIST AND CAP ENDS. SHOULDER PLUGS AND GASKETS TO BE INSTALLED AND TIGHTENED PER ECODYNE HX PROCEDURE WITH THE SHOULDER PLUGS COATED USING THE APPROPRIATE ANTI-SEIZE THREAD LUBRICANT. FAN SHAFT BEARINGS INCLUDE 304SS FLEXIBLE, BRAIDED LUBE LINES FOR REMOTE LUBRICATION. HEAT EXCHANGER BAYS TO BE SHIPPED FACTORY ASSEMBLED; ITEMS SHIPPED LOOSE WILL BE MATCH MARKED FOR FIELD ASSEMBLY.
<p>SHIPPING AND HANDLING</p> <ol style="list-style-type: none"> PURCHASER TO LIFT HEAT EXCHANGER BAYS FROM HEAT EXCHANGER TUBE BUNDLE LIFTING LUGS USING A SPREADER BEAM PERPENDICULAR TO THE LENGTH OF THE BAY TO MAINTAIN A VERTICAL LIFT. REMOVE LUG RETAINING BOLTS PRIOR TO LIFTING. DO NOT LIFT FROM A SINGLE POINT DIRECTLY ABOVE THE UNIT. LIFTING WEIGHT OF BAYS - WITHOUT LOWER COLUMNS, KNEE BRACES, EXPANSION TANK AND INTERCONNECTING PIPING IS 55,100 LBS [24,993 Kg] PER BAY. PRIOR TO START-UP, VERIFY FAN ROTATION IS NOT OBSTRUCTED AND DIRECTION OF ROTATION MATCHES ARROWS ON FAN RINGS. FOR SHIPMENT, TUBE BUNDLES ARE SEALED WITH METAL BOLT-ON COVERS AND RUBBER GASKETS AND CHARGED WITH 3-5 PSIG DRY NITROGEN CHARGE PER ECODYNE HEAT EXCHANGER PROCEDURE. ITEMS SHIPPED FOR FIELD INSTALLATION INCLUDE: TWO (2) HEAT EXCHANGER BAYS, LOWER COLUMNS, KNEE BRACES, PUMP SKID WITH PUMPS AND MOTORS, PIPING TO CONNECT BAYS AND PUMP SKID, EXPANSION TANK, TWO (2) THERMOMETERS, THREE (3) PRESSURE GAUGES, BY-PASS VALVE ASSEMBLY, THREE (3) AUTO. AIR VENTS, THREE (3) RTD'S, FOUR (4) 8" BUTTERFLY VALVES, EXPANSION TANK PIPING, LIQUID LEVEL SUB-ASSEMBLY, CONDUIT AND WIRING BETWEEN TERMINAL BOXES #3 AND #4 AND TERMINAL BOX #1 LOCATED ON PUMP SKID, LOWER PANELS, LOUVER SUPPORT PANELS, DOORS, CLOSURE BETWEEN BAYS, LOWER SIDE LOUVERS, ACTUATORS, WALKWAY BRACKETS, WALKWAYS, WALKWAY HANDRAILS. CAGED LADDERS, AND ALL REQUIRED HARDWARE. PUMP SKID TO BE INSTALLED BEFORE HEAT EXCHANGER. USE SPREADER BEAM WITH CHAINS TO VERTICALLY LIFT AT LIFTING LUGS.
<p>NOTES</p> <ol style="list-style-type: none"> UNIT TO BE INSTALLED IN AREA FREE OF AIR FLOW OBSTRUCTIONS. AREA UNDERNEATH THE HEAT EXCHANGER, AS WELL AS AROUND THE PERIMETER ARE TO BE KEPT CLEAR. DO NOT INSTALL ADDITIONAL EQUIPMENT IN THESE AREAS WHICH WOULD IMPEDE AIR FLOW. RECOMMENDED LOCATION OF HEAT EXCHANGER IS A MINIMUM OF ONE FAN DIAMETER FROM THE NEAREST BUILDING.

UNLESS OTHERWISE SPECIFIED: TOLERANCES: FRACTIONAL ± 1/16												 Houston, Texas (713) 675-3511	
THIS PRINT INCLUDING ALL INFORMATION THEREON IS THE PROPERTY OF ECODYNE HEAT EXCHANGERS AND IS LOANED IN CONFIDENCE. SUBJECT TO THE RETURN UPON REQUEST, AND WITH THE UNDERSTANDING THAT NO COPIES OF THIS PRINT, OR OF THE INFORMATION CONTAINED, SHALL BE MADE WITHOUT THE PROPER WRITTEN CONSENT OF ECODYNE HEAT EXCHANGERS. ALL RIGHTS TO DESIGN AND INVENTION ARE RESERVED.												2 #15W-54L-3113 INDUCED DRAFT PRODUCT INFORMATION SHEET	
REV				DATE		BY		DESCRIPTION		CHKD		APPROVED	
10/28/14				GUH		PRELIMINARY RELEASE						PART NO: 14496-001-Sht3 SIZE: C SCALE: 1:1 REV: 0	