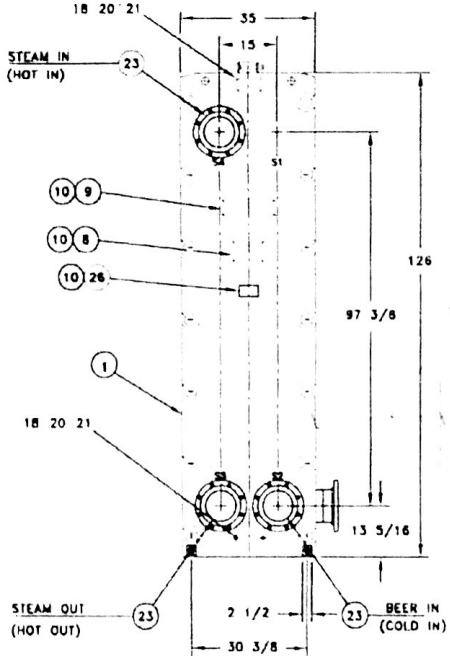
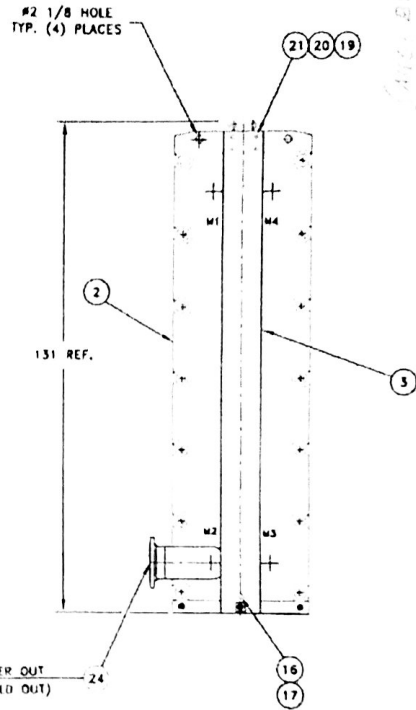
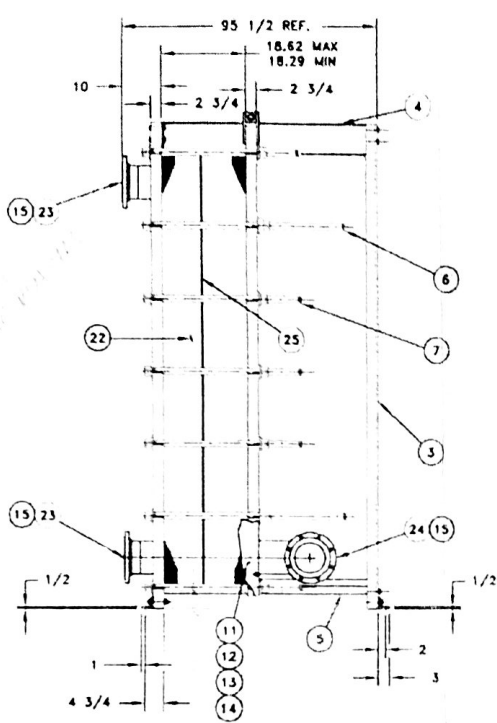
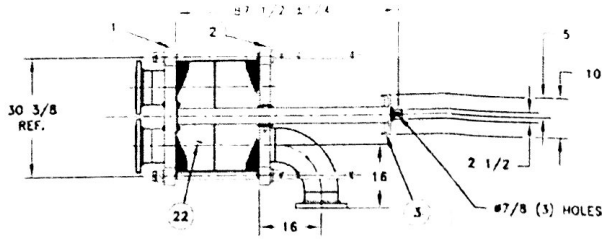


NOTES CONT'D

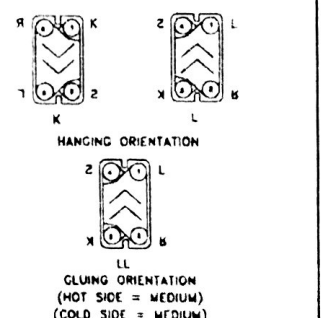
1. FLEXIBILITY IN TYPING IS NECESSARY TO PROVIDE FOR THERMAL EXPANSION WHERE APPLICABLE. PIPE VIBRATIONS AND FLUID PULSATIONS SHOULD BE ELIMINATED FOR FATIGUE AND CYCLIC TYPE OF APPLICATIONS.
2. FABRICATE PER ASME CODE SECTION VIII, DIV. 1 SPECS. LATEST EDITION AND ADDENDA. "J" STAMP YES. "M" AT L. BD. YES.
3. MAXIMUM FRAME CAPACITY = 122 PLATES (122X EXPANSION).
4. METAL STAMP ON ITEM #26: CENTRAL ILLINOIS ETHANOL CANTON, IL P.O. NO. 73338-098 PROJECT NO: 73338 EP-4113A BEER PRE-HEATER A
5. MAPICS PART NO: GF-187-115409-1
6. PERMANENTLY ATTACH TO FRAME METAL TAG SHOWING COLD IN, COLD OUT, HOT IN, HOT OUT
7. DOCUMENT CONTROL REQ'D. PACKAGE TO SHIP SEPARATELY CONSISTING OF CERTIFIED DRAWINGS ONLY.
8. CHANNEL VELOCITIES: H/5 84.97 fps (vapor) C/S 2.40 fps.
9. PLATE GAP: H/5 8.0mm C/S 8.0mm



ITEM NO.	DESCRIPTION	SA	DRAWING NO.	NO. REQ'D
1	STATIONARY FRAME ASS'Y.	SA-518-70N	D-203880-1	1
2	MOVABLE FRAME ASS'Y.	SA-518-70N	D-203881-1	1
3	GUIDE BAR SUPPORT		D-203882-2	1
4	UPPER GUIDE BAR (WORKING LGTH. 85)		D-203480-2	1
5	LOWER GUIDE BAR (WORKING LGTH. 85)		D-203498-2	1
6	BOLT ASS'Y. (WORKING LGTH. 80)			
7	2 DIA. CARBON STEEL SA-193-87		D-202779-B	4
8	2 DIA. CARBON STEEL SA-193-87			
9	DATA NAMEPLATE		D-202779	10
10	NAMEPLATE		B-202112	1
11	METAL TACK FASTENER		B-200734	1
12	SHROUD SET ("L" DIM: 21 11/16)		A-203187	12
13	SHROUD, STUD		D-203886	1
14	SHROUD, NUT		A-200830	32
15	SHROUD, WASHER		A-200831	32
16	SHROUD, PROTECTOR (NOT SHOWN)		A-200832	32
17	FLANGE PROTECTOR (NOT SHOWN)		A-202665	4
18	GUIDE BAR BOLT		A-202091-2	1
19	GUIDE BAR WASHER		A-202095-1	1
20	GUIDE BAR BOLT		B-203480-8	6
21	GUIDE BAR NUT		B-203480-4	10
22	GUIDE BAR NUT		B-203481	4
23	GUIDE BAR WASHER		B-203482	10
24	PLATE			55
25	NOZZLE 8" STR ("S" FRAME)	SA312-TP316L-WLD	D-204853-2	3
26	NOZZLE 8" ELL ("M" FRAME)	SA312-TP316L-WLD	D-204854-2	1
27	"L" FRAME ASSEMBLY SA240-316		D-205775	1
28	5 X 5 X 16 CA 10455 TAG			1

LAP JOINT FLANGE SA-105 NOZZLE DIMENSIONS	
DIM.	SIZE
A	10 3/8
B	11 3/4
C	13 1/2
D	1 1/8
E	8 5/8

SPECIFICATIONS		"U" CODE STAMP DATA	
DESIGN PRESSURE:	100 PSI	M.A.W.P.	100 PSI AT 250 °F
TEST PRESSURE:	150 PSI	M.D.M.T.	-20 °F AT 100 PSI
DESIGN TEMP.:	250 °F		MEDIUM STEAM/ BEER
NO. OF PLATES:	55	FORM:	U-1 NO. REQ'D. 1
SURFACE AREA:	657.04 SQ.FT.		LOCATION OF INSTALLATION
WEIGHT:	9707 LBS		CENTRAL ILLINOIS ENERGY
PAINT:	ROYAL BLUE		CANTON, IL



ELEMENT COMPOSITION DIAGRAM

NOTE: GASKETS FACE "S" FRAME

Plate Sequence	Gasket Material	Piercing	Gluing	Hanging
1	EPDM	0234	LL Start	K
2, 4 ... 22, 24	EPDM	1234	LL	L
3, 5 ... 23, 25	EPDM	1234	LL	K
26	EPDM	1034	LL End	L
"L" FRAME 27		1034		
28	EPDM	1034	LL Start	L
29, 31 ... 51, 53	EPDM	1234	LL	K
30, 32 ... 52, 54	EPDM	1234	LL	L
55	EPDM	1234	LL	K
56	EPDM	0200	LL End	L

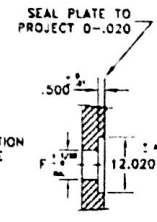
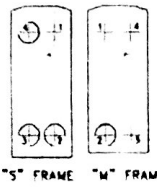


PLATE ASSEMBLY SPECIFICATIONS			
Qty	Gasket Material	Theta/Piercing	Gluing
51	EPDM	0234	LL Start
1	EPDM	1234	LL
1	EPDM	1230	LL End
1	EPDM	1230	LL Start
1	EPDM	0004	LL End

SECTION		FLUID NAME	FLOW RATE (OPW)	INLET TEMP. °F	OUTLET TEMP. °F	PRESSURE DROP (PSI)	PLATE ARRANGEMENT	PLATE*	GASKET MATERIAL	NOZZLE
		STEAM	7065.34 lb/h	182	182	0.50	26M X 1	304	EPDM	316L
		BEER	783.61	155	173.75	8.84	13M X 1/14M X 1	304	EPDM	316L

NOZZLE LOCATION	"F" DIA. HOLE	# HOLE "L" FRM
S1		8.56
S2	8 11/16	8.56
S3	8 11/16	8.56
S4	8 11/16	8.56



EP-4113



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THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION
DO NOT SCALE THIS DRAWING	DO NOT SCALE THIS DRAWING
SCALE:	SCALE:
DATE: 9-01-06	DATE: 9-01-06
DESIGNED BY: WS	CHECKED AND APPROVED BY: CB
DRWING NO: SN258	MODEL: SUPERCHANGER
	MODEL: GFP-187-M-8-HP-55
ISSUED BY: S/O 115409	ISSUED BY: D-8-115409-1