

**1992 Mueller Accu-Therm HTST Pasteurizer/ Chiller**

**Mfg: Mueller**

**Model: AT161 FFB-10**

**Stock No. 650.JMB245a.30**

**Serial No. 101176-4.**

1992 Mueller Accu-Therm Plate Heat Exchanger HTST. Stainless Steel. Model AT161FFB-10, Part Number 9814223, S/N 101176-4. , Complete with (118) Plates with Fittings (\*\*Glycol Chilled\*\*)

HTST Pasteurizer/ Chiller consists of four independent sections/ frames: REGEN, PASTEURIZER, PRE COOL, and COOL. Ultra sanitary construction, state of the art design, removed from service running doing 120gpm of orange juice. Can be setup to pasteurize/ chill any other any other product.

Juice flows from balance tank to COLD REGEN to PASTEURIZER to HOT REGEN to PRE COOL to COOL. Uses 250gpm of hot water, 225gpm of well water, and 325gpm of 30% polypropylene glycol.

**REGEN**

Hot medium: orange juice at 120gpm from 195F to 104F. Pressure drop is 6.4psi.

Cold medium: oj at 120gpm from 82F to 173F. Pressure drop is 11.08 psi.

**PASTEURIZER**

Hot medium: hot water at 250gpm from 203F to 192.6F. Pressure drop is 20.14psi

Cold medium: oj at 120gpm from 173F to 195F. Pressure drop is 4.20psi.

**PRE COOL**

Hot medium: oj at 120gpm from 104F to 90F. Pressure drop is 3.43psi.

Cold medium: well water at 225gpm from 80F to 87.5F. Pressure drop is 6.17psi.

**COOL**

Hot medium: oj at 120gpm from 90F to 33F. Pressure drop is 4.11psi.

Cold medium: 30% polypropylene glycol at 325gpm from 28F to 49.2 F. Pressure drop is 20.49psi.

Unit can be completed by adding adding pumps, piping, flow diversion valves, and balance tank, which Genemco can supply upon request.

\*\* FLOW DIAGRAM \*\*  
 \*\* V 1.7 \*\*

TYPE FREE FLOW 161 FF /B -10

MEDIUM HOT : HOT WATER 250.0 GPM FROM 203.0 DEG F TO 192.6 DEG F PRESS. DROP 20.14 PSI  
 MEDIUM COLD: SS OJ 120.0 GPM FROM 179.0 DEG F TO 195.0 DEG F PRESS. DROP 4.20 PSI

DESIGN PRESS : 75 PSI GAGE DESIGN TEMP : 210 DEG F TEST PRESS: 98 PSI GAGE

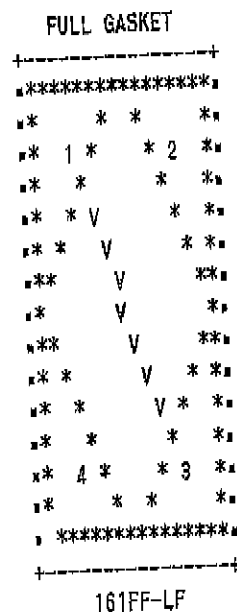
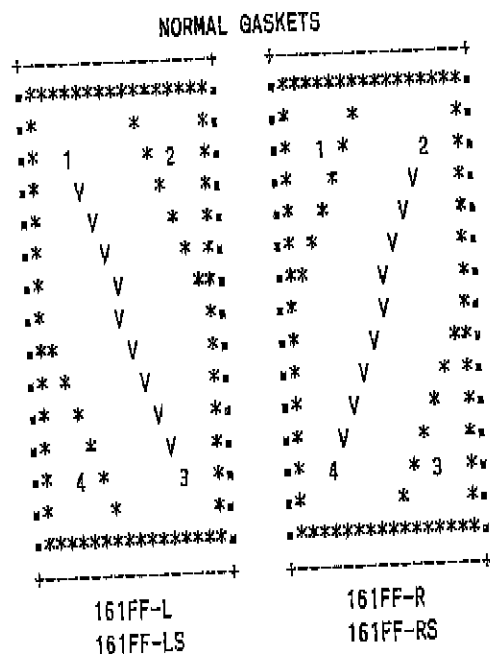
PLATE MATERIAL : 1.25 MM 316 S/S GASKET MATERIAL: NBR-FDA VOLUME : 28.50 GALLONS PACK LENGTH MAX : 9.80 INCH  
 PACK LENGTH MIN : 9.27 INCH

GUIDE LENGTH : 30.0 INCH  
 BOLT LENGTH : 24.0 INCH

HOT-SIDE FLOW PATH : 3 X 5  
 COLD-SIDE FLOW PATH: 1 X 4 + 2 X 5

CONNECTIONS	TYPE	MATERIAL	SIZE	POSITION
HOT IN	FERRULE	304 S/S	3.00	4F
OUT	FERRULE	304 S/S	3.00	2R
COLD IN	FERRULE	304 S/S	3.00	3R
OUT	FERRULE	304 S/S	3.00	1F
SPARE	FERRULE	304 S/S	3.00	2F PLUG & CAP
SPAER	FERRULE	304 S/S	3.00	3F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	1R PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	4R PLUG & CAP

PICTORIAL VIEW AND TERMINOLOGY FOR PLATES AND GASKETS



V = FLOW PATH \* = GASKET — = PLATE L = LEFT HAND R = RIGHT HAND

PLATES AS VIEWED FROM FIXED END FRAME  
 GASKETED SIDE OF PLATE FACES MOVABLE END FRAME

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II=====
II
II      3F 4F      2F 1F I
II=====

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FIXED END FRAME

STYLE / OPENINGS

- 1 - \*\*\*\*\* \*\*\*\*\* \*\* -----> 161FF-RS/ 1 4
- 2 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 3 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 4 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 5 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 6 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 7 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 8 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 9 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 10 - \*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* -----> 161FF-L / 2 3
- 11 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 12 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 13 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 14 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 15 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 16 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 17 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 18 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 19 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 20 - \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* -----> 161FF-L / 1 4
- 21 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 22 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 23 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 24 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 25 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 26 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 27 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 28 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 29 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 30 - \*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* -----> 161FF-LF/ 2 3

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I 3R 4R      2R 1R I
I
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MOVABLE END FRAME

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 \*\* ACCU-THERM PLATE HEAT EXCHANGER \*\*  
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 \*\* P L A T E U S A G E S U M M A R Y \*\*  
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CUSTOMER: TRANS-MARKET SALES  
 LOCATION: TAMPA, FL. INQUIRY NUMBER : P1991-22.22  
 DATE : 11/21/91 SALES ORDER NO.: 101176-02

NUMBER HX-PLATES	MATERIAL		STYLE / OPENINGS	PLATE NUMBER
	PLATE	GASKET		
1.	316 S/S	NBR-FDA	161FF-RS/ 1 4	1.
12.	316 S/S	NBR-FDA	161FF-L / 1 2 3 4	
14.	316 S/S	NBR-FDA	161FF-R / 1 2 3 4	
1.	316 S/S	NBR-FDA	161FF-L / 2 3	
1.	316 S/S	NBR-FDA	161FF-L / 1 4	
1.	316 S/S	FULL NBR-FDA	161FF-LF/ 2 3	30.

\*\* CUSTOMER- TRANS-MARKET SALES  
 \*\* LOCATION TAMPA, FL. INQUIRY NUMBER : P1991-11.17  
 \*\* DATE : 10/16/91 SALES ORDER NO. 101176-01  
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\*\* CUSTOMER- TRANS-MARKET SALES  
 \*\* LOCATION TAMPA, FL. INQUIRY NUMBER : P1991-11.17  
 \*\* DATE : 10/16/91 SALES ORDER NO. 101176-01  
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TYPE FREE FLOW 161 FF /B -10

MEDIUM HOT : SS OJ 120.0 GPM FROM 195.0 DEG F TO 104.0 DEG F PRESS. DROP 6.39 PSI  
 MEDIUM COLD: SS OJ 120.0 GPM FROM 82.0 DEG F TO 173.0 DEG F PRESS. DROP 11.08 PSI

DESIGN PRESS : 75 PSI GAGE DESIGN TEMP : 200 DEG F TEST PRESS: 99 PSI GAGE

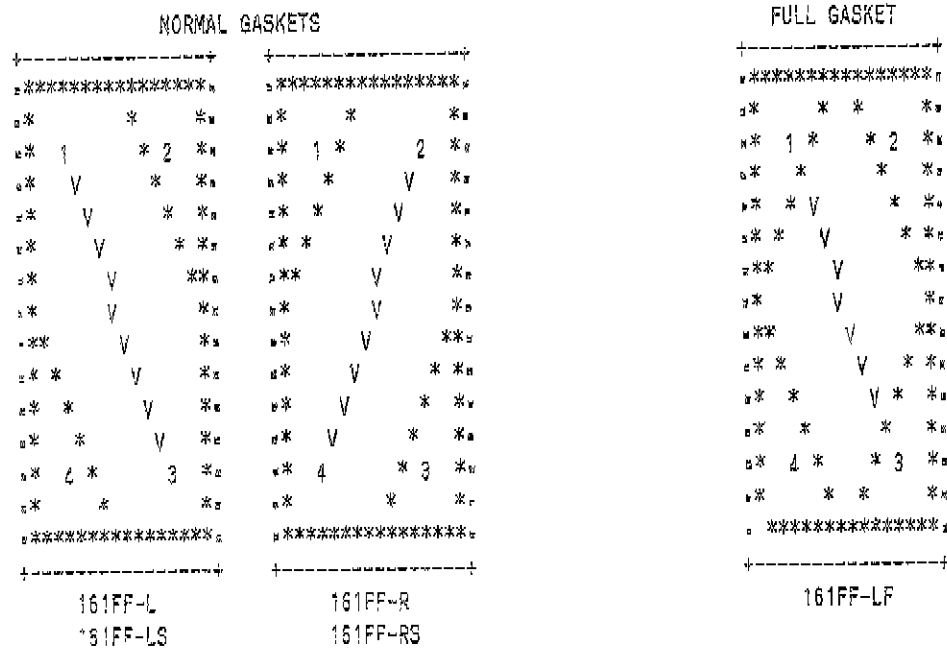
PLATE MATERIAL : 1.25 MM 316 S/S PACK LENGTH MAX : 33.98 INCH  
 GASKET MATERIAL: NBR-FDA VOLUME : 101.23 GALLONS PACK LENGTH MIN : 32.14 INCH

GUIDE LENGTH : 66.0 INCH  
 BOLT LENGTH : 50.0 INCH

HOT-SIDE FLOW PATH : 5 X 6 + 3 X 7  
 COLD-SIDE FLOW PATH: 4 X 6 + 4 X 7

CONNECTIONS	TYPE	MATERIAL	SIZE	POSITION
HOT IN	FERRULE	304 S/S	3.00	3F
OUT	FERRULE	304 S/S	3.00	3R
COLD IN	FERRULE	304 S/S	3.00	4R
OUT	FERRULE	304 S/S	3.00	4F
SPARE	FERRULE	304 S/S	3.00	1F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	2F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	1R PLUG & CAP
SPAER	FERRULE	304 S/S	3.00	2R PLUG & CAP

PICTORIAL VIEW AND TERMINOLOGY FOR PLATES AND GASKETS



V = FLOW PATH \* = GASKET -- = PLATE L = LEFT HAND R = RIGHT HAND

PLATES AS VIEWED FROM FIXED END FRAME

GASKETED SIDE OF PLATE FACES MOVABLE END FRAME

FIXED END FRAME

STYLE / OPENINGS

Line No.	Style / Opening	Notes
	161FF-RS / 3 4	
2	161FF-L / 1 2 3 4	
3	161FF-R / 1 2 3 4	
4	161FF-L / 1 2 3 4	
5	161FF-R / 1 2 3 4	
6	161FF-L / 1 2 3 4	
7	161FF-R / 1 2 3 4	
8	161FF-L / 1 2 3 4	
9	161FF-R / 1 2 3 4	
10	161FF-L / 1 2 3 4	
11	161FF-R / 1 2 3 4	
12	161FF-L / 1 2 3 4	
13	161FF-R / 1 2	1/8" DIA DRAIN @ 3 4
14	161FF-L / 1 2 3 4	
15	161FF-R / 1 2 3 4	
16	161FF-L / 1 2 3 4	
17	161FF-R / 1 2 3 4	
18	161FF-L / 1 2 3 4	
19	161FF-R / 1 2 3 4	
20	161FF-L / 1 2 3 4	
21	161FF-R / 1 2 3 4	
22	161FF-L / 1 2 3 4	
23	161FF-R / 1 2 3 4	
24	161FF-L / 1 2 3 4	
25	161FF-R / 3 4	1/8" DIA VENT @ 1 2
26	161FF-L / 1 2 3 4	
27	161FF-R / 1 2 3 4	
28	161FF-L / 1 2 3 4	
29	161FF-R / 1 2 3 4	
30	161FF-L / 1 2 3 4	
31	161FF-R / 1 2 3 4	
32	161FF-L / 1 2 3 4	
33	161FF-R / 1 2 3 4	
34	161FF-L / 1 2 3 4	
35	161FF-R / 1 2 3 4	
36	161FF-L / 1 2 3 4	
37	161FF-R / 1 2	1/8" DIA DRAIN @ 3 4
38	161FF-L / 1 2 3 4	
39	161FF-R / 1 2 3 4	
40	161FF-L / 1 2 3 4	
41	161FF-R / 1 2 3 4	
42	161FF-L / 1 2 3 4	
43	161FF-R / 1 2 3 4	
44	161FF-L / 1 2 3 4	
45	161FF-R / 1 2 3 4	
46	161FF-L / 1 2 3 4	
47	161FF-R / 1 2 3 4	
48	161FF-L / 1 2 3 4	
49	161FF-R / 3 4,	1/8" DIA VENT @ 1 2
50	161FF-L / 1 2 3 4	
51	161FF-R / 1 2 3 4	
52	161FF-L / 1 2 3 4	
53	161FF-R / 1 2 3 4	
54	161FF-L / 1 2 3 4	
55	161FF-R / 1 2 3 4	

57	161FF-R / 1 2 3 4
58	161FF-L / 1 2 3 4
59	161FF-R / 1 2 3 4
60	161FF-L / 1 2 3 4
61	161FF-R / 1 2 3 4
62	161FF-L / 1 2 1/8" DIA DRAIN @ 3 4
63	161FF-R / 1 2 3 4
64	161FF-L / 1 2 3 4
65	161FF-R / 1 2 3 4
66	161FF-L / 1 2 3 4
67	161FF-R / 1 2 3 4
68	161FF-L / 1 2 3 4
69	161FF-R / 1 2 3 4
70	161FF-L / 1 2 3 4
71	161FF-R / 1 2 3 4
72	161FF-L / 1 2 3 4
73	161FF-R / 1 2 3 4
74	161FF-L / 1 2 3 4
75	161FF-R / 1 2 3 4
76	161FF-L / 3 4 1/8" DIA VENT @ 1 2
77	161FF-R / 1 2 3 4
78	161FF-L / 1 2 3 4
79	161FF-R / 1 2 3 4
80	161FF-L / 1 2 3 4
81	161FF-R / 1 2 3 4
82	161FF-L / 1 2 3 4
83	161FF-R / 1 2 3 4
84	161FF-L / 1 2 3 4
85	161FF-R / 1 2 3 4
86	161FF-L / 1 2 3 4
87	161FF-R / 1 2 3 4
88	161FF-L / 1 2 3 4
89	161FF-R / 1 2 3 4
90	161FF-L / 1 2 1/8" DIA DRAIN @ 3 4
91	161FF-R / 1 2 3 4
92	161FF-L / 1 2 3 4
93	161FF-R / 1 2 3 4
94	161FF-L / 1 2 3 4
95	161FF-R / 1 2 3 4
96	161FF-L / 1 2 3 4
97	161FF-R / 1 2 3 4
98	161FF-L / 1 2 3 4
99	161FF-R / 1 2 3 4
100	161FF-L / 1 2 3 4
101	161FF-R / 1 2 3 4
102	161FF-L / 1 2 3 4
103	161FF-R / 1 2 3 4
104	161FF-LF / 3 4

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I 3R 4R          2R 1R I
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MOVABLE END FRAME

\*\* CUSTOMER: TRANS-MARKET SALES  
 \*\* LOCATION: TAMPA, FL. INQUIRY NUMBER : P1001-11.11  
 \*\* DATE : 10/15/91 SALES ORDER NO.: 101176-01  
 \*\* P L A T E U S A S C S U M M A R Y \*\*  
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NUMBER HX-PLATES	MATERIAL		STYLE / OPENINGS	PLATE NUMBER
	PLATE	GASKET		
1.	316 S/S	NBR-FDA	161FF-RS/ 3 4	1.
48.	316 S/S	NBR-FDA	161FF-L / 1 2 3 4	
47.	316 S/S	NBR-FDA	161FF-R / 1 2 3 4	
2.	316 S/S	NBR-FDA	161FF-R / 1 2	
2.	316 S/S	NBR-FDA	161FF-R / 3 4	
2.	316 S/S	NBR-FDA	161FF-L / 1 2	
1.	316 S/S	NBR-FDA	161FF-L / 3 4	
1.	316 S/S	FULL NBR-FDA	161FF-LF/ 3 4	104.

\*\*\* 8 VENT(S) IS NEEDED ON THIS UNIT. \*\*\*\*

\*\*\* 8 DRAIN(S) IS NEEDED ON THIS UNIT. \*\*\*\*



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 \*\* ACCU-THERM PLATE HEAT EXCHANGER \*\*  
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 \*\* FLOW DIAGRAM \*\*  
 \*\* V 1.7 \*\*

CUSTOMER: TRANS-MARKET  
 LOCATION: TAMPA, FL INQUIRY NUMBER : P1991-33.33  
 DATE : 11/25/91 SALES ORDER NO.: 101176-03

TYPE FREE FLOW 161 FF /B -10

MEDIUM HOT : SS OJ 120.0 GPM FROM 104.0 DEG F TO 90.0 DEG F PRESS. DROP 3.43 PSI  
 MEDIUM COLD: WELL WATER 225.0 GPM FROM 80.0 DEG F TO 87.2 DEG F PRESS. DROP 6.17 PSI

DESIGN PRESS : 75 PSI GAGE DESIGN TEMP : 150 DEG F TEST PRESS: 96 PSI GAGE

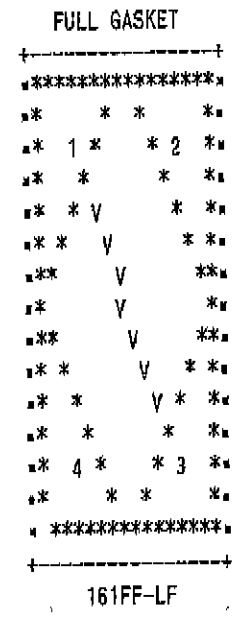
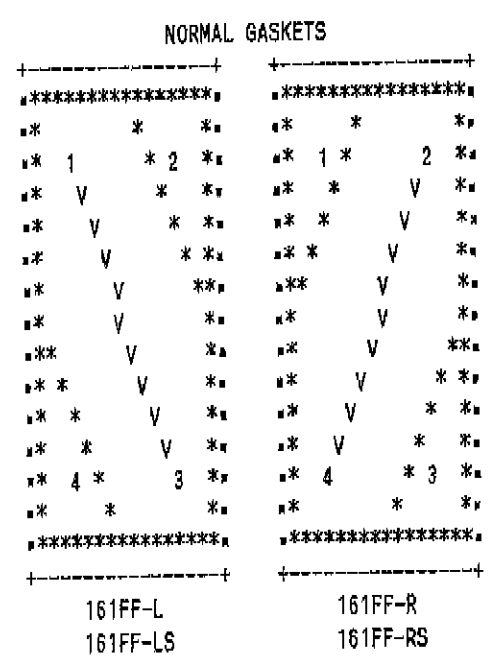
PLATE MATERIAL : 1.25 MM 316 S/S PACK LENGTH MAX : 7.84 INCH  
 GASKET MATERIAL: NBR-FDA VOLUME : 29.59 GALLONS PACK LENGTH MIN : 7.42 INCH

GUIDE LENGTH : 30.0 INCH  
 BOLT LENGTH : 18.0 INCH

HOT-SIDE FLOW PATH : 2 X 6  
 COLD-SIDE FLOW PATH: 1 X 5 + 1 X 6

CONNECTIONS	TYPE	MATERIAL	SIZE	POSITION
HOT IN	FERRULE	304 S/S	3.00	4F
OUT	FERRULE	304 S/S	3.00	4R
COLD IN	FERRULE	304 S/S	3.00	3R
OUT	FERRULE	304 S/S	3.00	3F
SPARE	FERRULE	304 S/S	3.00	1F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	2F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	1R PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	2R PLUG & CAP

PICTORIAL VIEW AND TERMINOLOGY FOR PLATES AND GASKETS



V = FLOW PATH    \* = GASKET    -- = PLATE    L = LEFT HAND    R = RIGHT HAND

PLATES AS VIEWED FROM FIXED END FRAME

GASKETED SIDE OF PLATE FACES MOVABLE END FRAME

II=====

II I FIXED END FRAME

II 3F 4F 2F 1F I

II=====

STYLE / OPENINGS

- 1 - \*\* \*\* \*\*\*\*\*-----> 161FF-RS/ 3 4
- 2 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 3 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 4 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 5 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 6 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 7 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 8 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 9 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 10 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 11 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 12 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 13 - \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2
- 14 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 15 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 16 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 17 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 18 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 19 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 20 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 21 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 22 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-L / 1 2 3 4
- 23 - \*\* \*\* \*\*\*\*\* \*\* \*\* -----> 161FF-R / 1 2 3 4
- 24 - \*\* \*\* \*\*\*\*\*-----> 161FF-LF/ 3 4

1/8" DIA DRAIN @ 3 4

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 I 3R 4R 2R 1R I  
 I I  
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MOVABLE END FRAME

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 \*\* ACCU-THERM PLATE HEAT EXCHANGER \*\*  
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 \*\* P L A T E U S A G E S U M M A R Y \*\*  
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CUSTOMER: TRANS-MARKET  
 LOCATION: TAMPA, FL INQUIRY NUMBER : P1991-31.33  
 DATE : 11/25/91 SALES ORDER NO.: 101176-03

NUMBER HX-PLATES	MATERIAL		STYLE / OPENINGS	PLATE NUMBER
	PLATE	GASKET		
1.	316 S/S	NBR-FDA	161FF-RS/ 3 4	1.
11.	316 S/S	NBR-FDA	161FF-L / 1 2 3 4	
10.	316 S/S	NBR-FDA	161FF-R / 1 2 3 4	
1.	316 S/S	NBR-FDA	161FF-R / 1 2	
1.	316 S/S	FULL NBR-FDA	161FF-LF/ 3 4	24.

\*\*\* 2 DRAIN(S) IS NEEDED ON THIS UNIT. \*\*\*

\*\* ACCU-THERM PLATE HEAT EXCHANGER \*\*  
 \*\* FLOW DIAGRAM \*\*  
 \*\* V 1.7 \*\*

CUSTOMER: TRANS-MARKET  
 LOCATION: TAMPA, FL INQUIRY NUMBER : P1991-42.44  
 DATE : 11/25/91 SALES ORDER NO.: 101176-04

TYPE FREE FLOW 161 FF /B -10

MEDIUM HOT : SS OJ 120.0 GPM FROM 90.0 DEG F TO 33.0 DEG F PRESS. DROP 4.11 PSI  
 MEDIUM COLD: 30% PROP GLY 325.0 GPM FROM 28.0 DEG F TO 49.2 DEG F PRESS. DROP 20.49 PSI

DESIGN PRESS : 75 PSI GAGE DESIGN TEMP : 150 DEG F TEST PRESS: 98 PSI GAGE

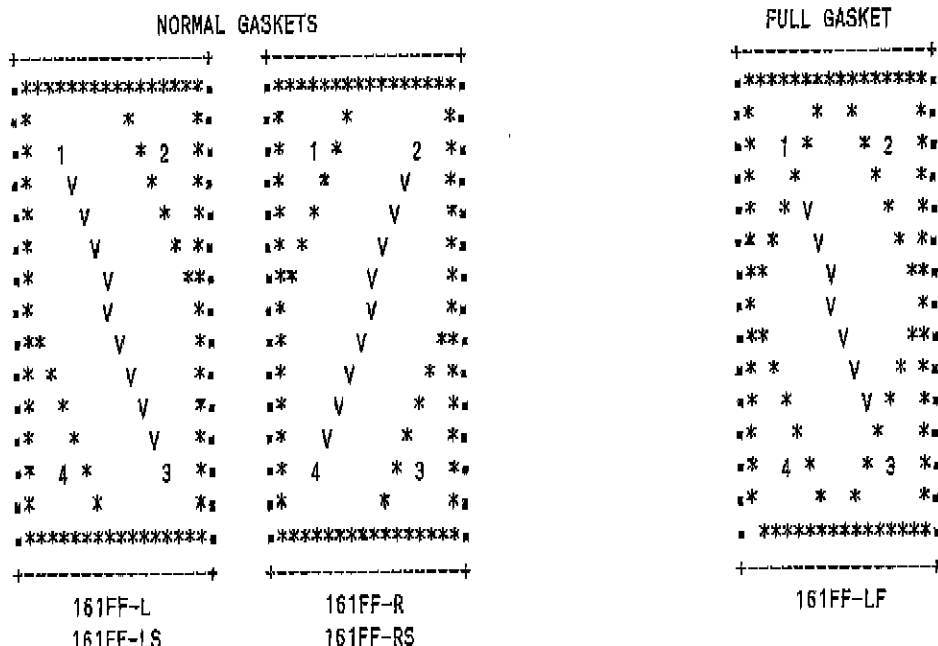
PLATE MATERIAL : 1.25 MM 316 S/S PACK LENGTH MAX : 39.87 INCH  
 GASKET MATERIAL: NBR-FDA VOLUME : 119.90 GALLONS PACK LENGTH MIN : 37.71 INCH

GUIDE LENGTH : 84.0 INCH  
 BOLT LENGTH : 78.0 INCH

HOT-SIDE FLOW PATH : 5 X 10 + 1 X 11  
 COLD-SIDE FLOW PATH: 6 X 10

CONNECTIONS	TYPE	MATERIAL	SIZE	POSITION
HOT IN	FERRULE	304 S/S	3.00	4F
	OUT	FERRULE	3.00	4R
COLD IN	FERRULE	304 S/S	3.00	3R
	OUT	FERRULE	3.00	3F
SPARE	FERRULE	304 S/S	3.00	1F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	2F PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	1R PLUG & CAP
SPARE	FERRULE	304 S/S	3.00	2R PLUG & CAP

PICTORIAL VIEW AND TERMINOLOGY FOR PLATES AND GASKETS



V = FLOW PATH \* = GASKET -- = PLATE L = LEFT HAND R = RIGHT HAND

PLATES AS VIEWED FROM FIXED END FRAME

GASKETED SIDE OF PLATE FACES MOVABLE END FRAME

II ===== I  
II 3F 4F 2F 1F I  
II =====

FIXED END FRAME

STYLE / OPENINGS

1	- ** **	*****	----->	161FF-RS/ 3 4
2	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
3	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
4	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
5	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
6	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
7	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
8	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
9	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
10	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
11	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
12	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
13	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
14	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
15	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
16	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
17	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
18	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
19	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
20	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
21	- ** **	***** ** **	----->	161FF-R / 1 2
22	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
23	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
24	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
25	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
26	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
27	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
28	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
29	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
30	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
31	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
32	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
33	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
34	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
35	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
36	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
37	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
38	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
39	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
40	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
41	- ** **	***** ** **	----->	161FF-R / 3 4
42	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
43	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
44	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
45	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
46	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
47	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
48	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
49	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
50	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
51	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
52	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
53	- ** **	***** ** **	----->	161FF-R / 1 2 3 4
54	- ** **	***** ** **	----->	161FF-L / 1 2 3 4
55	- ** **	***** ** **	----->	161FF-R / 1 2 3 4

1/8" DIA DRAIN @ 3 4

1/8" DIA VENT @ 1 2



```

116 . ** ** ***** ** ** ----> 161FF-L / 1 2 3 4
117 - ** ** ***** ** ** -----> 161FF-R / 1 2 3 4
118 - ** ** ***** ** ** ----> 161FF-L / 1 2 3 4
119 - ** ** ***** ** ** -----> 161FF-R / 1 2 3 4
120 - ** ** ***** ** ** ----> 161FF-L / 1 2 3 4
121 - ** ** ***** ** ** -----> 161FF-R / 1 2 3 4
122 - ** ** ***** ----> 161FF-LF/ 3 4

```

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== == =====
I 3R 4R          2R 1R I
I                      I
== == =====

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MOVABLE END FRAME

\*\*  
 \*\* ACCU-THERM PLATE HEAT EXCHANGER \*\*  
 \*\*  
 \*\* P L A T E U S A G E S U M M A R Y \*\*  
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CUSTOMER: TRANS-MARKET  
 LOCATION: TAMPA, FL INQUIRY NUMBER : P1981-44.44  
 DATE : 11/25/91 SALES ORDER NO.: 101176-04

NUMBER HX-PLATES	MATERIAL		STYLE / OPENINGS	PLATE NUMBER
	PLATE	GASKET		
1.	316 S/S	NBR-FDA	161FF-RS/ 3 4	1.
60.	316 S/S	NBR-FDA	161FF-L / 1 2 3 4	
55.	316 S/S	NBR-FDA	161FF-R / 1 2 3 4	
3.	316 S/S	NBR-FDA	161FF-R / 1 2	
2.	316 S/S	NBR-FDA	161FF-R / 3 4	
1.	316 S/S	FULL NBR-FDA	161FF-LF/ 3 4	122.

\*\*\* 2 VENT(S) IS NEEDED ON THIS UNIT. \*\*\*  
 \*\*\* 3 DRAIN(S) IS NEEDED ON THIS UNIT. \*\*\*