



**E120-230 SED/JAN 2003**

File:	EQUIPMENT MANUAL - Section 120
Replaces:	Nothing, New Information
Dist:	1, 1a, 1b, 1c, 4, 4b, 4c

**Specifications - Engineering Data - Dimensions**

# *HORIZONTAL RECIRCULATORS*



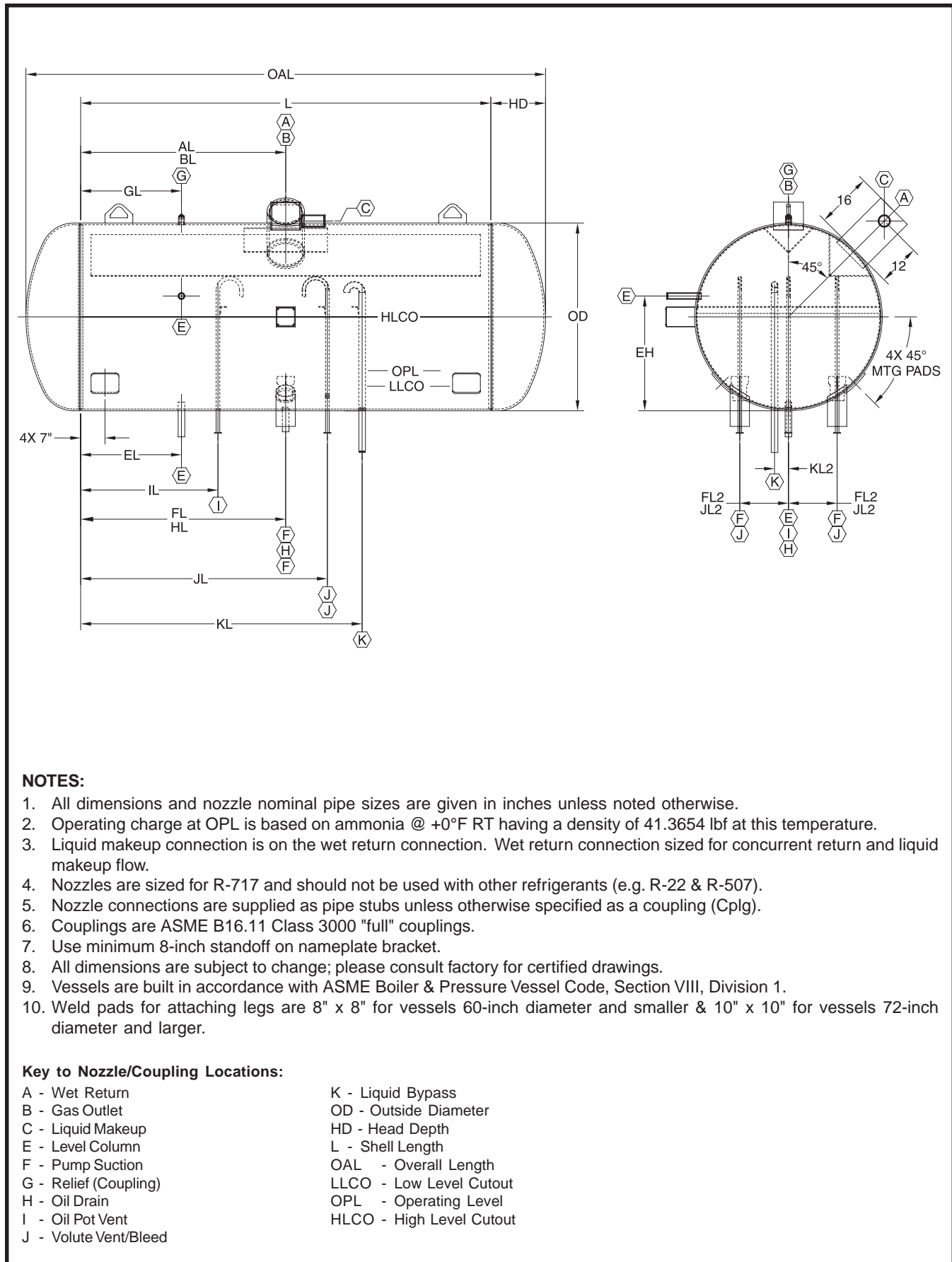


Figure 1. Data and Dimensions

**HORIZONTAL RECIRCULATOR CAPACITIES R-717 <sup>(1)</sup>**

Model No.	Operating Temperature										
	Two Stage <sup>(2)</sup>				Single Stage <sup>(3)</sup>						
	-50°F	-40°F	-30°F	-20°F	-20°F	-10°F	0°F	10°F	20°F	30°F	40°F
HRC-24-134	49.7	61.6	74.6	88.2	76.7	88.8	100	114	128	141	151
HRC-30-137	80.6	99.8	120	142	124	143	162	186	208	229	245
HRC-36-140	115	143	173	205	179	207	234	267	300	330	354
HRC-42-143	159	197	239	283	246	284	321	368	413	453	486
HRC-48-146	206	255	309	366	318	368	416	476	534	586	629
HRC-54-149	263	325	394	466	406	470	530	607	681	748	802
HRC-60-152	327	404	490	580	504	583	659	754	846	929	997
HRC-72-158	470	581	704	833	724	838	947	1084	1216	1336	1432
HRC-84-164	632	782	947	1121	974	1128	1274	1458	1636	1797	1927
HRC-96-170	825	1022	1237	1464	1273	1473	1664	1905	2137	2347	2517
Separation Velocity <sup>(4)</sup>	227.5	210	192.5	175	175	157.5	140	127.5	115	102.5	90

1. Capacities are given in tons of refrigeration (R-717).
2. Two stage capacities based on +35°F liquid feed temperature.
3. Single stage capacities based on +95°F liquid feed temperature.
4. Separation velocities are given in feet per minute.

**DIMENSIONAL DATA**

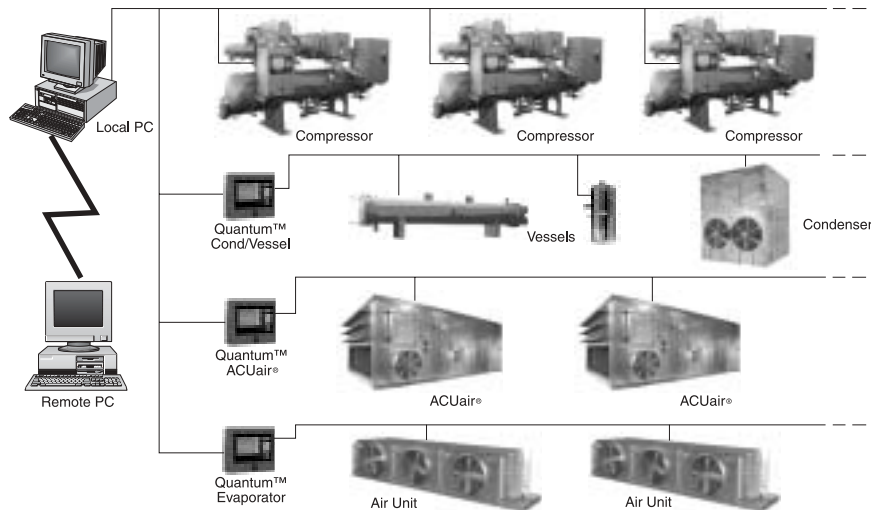
MODEL NO.	MAWP	OD	OAL	HD	L	Dry Weight (lbf)	R-717 Operating Charge (lbf)	Surge Vol. (cu ft)	LLCO	OPL	HLCO	A	B	C
HRC-24-134	250	24	134 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>16</sub>	118	1240	373.7	6.91	6	8	12	5	4	1 1/2
HRC-30-137	250	30	137 <sup>3</sup> / <sub>8</sub>	9 11/16	118	1580	433.4	15.14	6	8	15	6	5	2
HRC-36-140	250	36	140 <sup>3</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>16</sub>	118	1940	680.9	21.31	6	10	18	8	6	2
HRC-42-143	250	42	143 <sup>3</sup> / <sub>8</sub>	12 11/16	118	2310	752.8	34.29	6	10	21	8	6	2 1/2
HRC-48-146	250	48	146 1/2	14 1/4	118	3590	801.4	49.74	6	10	24	10	8	3
HRC-54-149	250	54	149 1/2	15 3/4	118	4120	863.1	68.29	6	10	27	10	8	3
HRC-60-152	250	60	152 1/2	17 1/4	118	4670	921.6	89.79	6	10	30	10	8	3
HRC-72-158	250	72	158 5/8	20 5/16	118	7270	1008.5	141.23	6	10	36	12	10	4
HRC-84-164	250	84	164 3/4	23 3/8	118	10560	1083.6	205.04	6	10	42	14	10	4
HRC-96-170	250	96	170 3/4	26 3/8	118	12510	1175.2	283.11	6	10	48	16	12	5

MODEL NO.	E	F	G	H	I	J	K	AL	BL	EL	EH	FL	FL2	GL	HL	IL	JL	JL2	KL	KL2
HRC-24-134	1 1/2	4	3/4	1 1/2	3/4	3/4	1 1/4	59	59	36	16	59	9	36	59	48.5	73	9	87	4
HRC-30-137	1 1/2	5	3/4	1 1/2	3/4	3/4	1 1/2	59	59	36	23	59	10	36	59	48.5	73	10	87	4
HRC-36-140	1 1/2	5	3/4	1 1/2	3/4	3/4	1 1/2	59	59	36	23	59	10	36	59	48.5	73	10	87	4
HRC-42-143	1 1/2	5	3/4	1 1/2	3/4	3/4	1 1/2	59	59	36	33	59	12	36	59	48.5	73	12	87	4
HRC-48-146	1 1/2	5	3/4	1 1/2	3/4	3/4	1 1/2	59	59	36	33	59	12	36	59	45.5	73	12	87	4
HRC-54-149	1 1/2	6	3/4	1 1/2	3/4	3/4	1 1/2	59	59	36	33	59	14	36	59	45.5	73	14	87	4
HRC-60-152	1 1/2	6	3/4	1 1/2	3/4	3/4	1 1/2	59	59	36	34	59	14	36	59	45.5	73	14	87	4
HRC-72-158	1 1/2	8	1	1 1/2	3/4	3/4	2	59	59	36	53	59	18	36	59	45.5	73	18	87	4
HRC-84-164	1 1/2	8	1	1 1/2	3/4	3/4	2	59	59	36	53	59	18	36	59	45.5	73	18	87	4
HRC-96-170	1 1/2	8	1	1 1/2	3/4	3/4	2	59	59	36	53	59	18	36	59	45.5	73	18	87	4

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