

EX4-8 SERIES CAPACITY TABLES

LIQUID

R-22 EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)											
		60	50	40	30	20	10	0	-10	-20	-30	-40	-50
EX4	140	5	5	5	5	5	5	5	5	5	5	5	5
EX5		15	15	15	16	16	16	16	15	15	15	15	15
EX6		35	36	37	37	38	38	37	37	37	36	36	35
EX7		97	100	101	102	103	104	103	102	102	100	98	96
EX8		260	266	270	273	275	276	272	271	266	262	262	257
EX4	130	5	5	5	5	5	5	5	5	5	5	5	5
EX5		14	15	15	15	16	16	16	15	15	15	15	15
EX6		34	35	36	37	37	37	37	37	37	37	36	36
EX7		94	97	100	101	102	103	102	102	101	101	99	98
EX8		251	258	266	270	273	274	273	273	270	268	264	260
EX4	120	4	5	5	5	5	5	5	5	5	5	5	5
EX5		14	14	15	15	15	15	16	15	15	15	15	15
EX6		33	34	35	36	37	37	37	37	37	37	37	36
EX7		90	94	97	99	100	102	103	102	102	101	100	99
EX8		240	250	259	264	268	272	274	272	271	270	268	263
EX4	110	4	4	5	5	5	5	5	5	5	5	5	5
EX5		12	13	14	14	15	15	15	15	15	15	15	15
EX6		30	32	34	34	35	36	36	36	37	36	36	36
EX7		82	88	92	95	98	99	100	100	101	99	99	98
EX8		219	234	246	253	260	263	266	266	268	265	263	261
EX4	100	4	4	4	5	5	5	5	5	5	5	5	5
EX5		11	12	13	14	14	15	15	15	15	15	15	15
EX6		27	29	31	33	34	35	35	36	36	36	35	35
EX7		74	81	87	91	93	96	97	98	98	98	98	97
EX8		197	216	231	242	249	256	259	263	263	262	260	258
EX4	90	3	4	4	4	4	5	5	5	5	5	5	5
EX5		9	11	12	13	13	14	14	14	14	14	14	14
EX6		22	26	29	31	32	33	34	34	35	35	35	34
EX7		61	71	78	84	87	91	93	94	95	95	95	94
EX8		163	190	209	224	233	242	249	251	255	254	253	251
EX4	80	2	3	3	4	4	4	4	4	5	5	5	5
EX5		7	9	10	11	12	13	13	14	14	14	14	14
EX6		16	21	25	27	29	30	32	33	33	33	33	33
EX7		44	58	68	75	81	84	87	89	90	91	91	91
EX8		117	156	182	201	215	224	233	239	240	243	243	241
EX4	70	—	2	3	3	4	4	4	4	4	4	4	4
EX5		—	6	8	10	11	12	12	13	13	13	13	13
EX6		—	15	20	24	26	28	30	31	31	32	32	32
EX7		—	40	55	65	72	77	81	84	85	87	88	87
EX8		—	108	147	173	191	205	217	224	227	231	234	233
EX4	60	—	—	2	3	3	3	4	4	4	4	4	4
EX5		—	—	6	8	9	10	11	12	12	12	12	12
EX6		—	—	13	19	22	25	27	28	29	29	30	30
EX7		—	—	36	51	61	68	74	76	79	81	82	82
EX8		—	—	97	137	163	182	196	204	211	216	219	219
EX4	50	—	—	—	2	2	3	3	3	4	4	4	4
EX5		—	—	—	5	7	9	10	11	11	11	12	12
EX6		—	—	—	11	17	21	23	25	26	27	28	28
EX7		—	—	—	31	47	57	65	69	73	74	76	77
EX8		—	—	—	83	126	152	172	185	194	199	203	206

R-23 EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)									
		-50	-60	-70	-80	-90	-100	-110	-120	-130	-140
EX4	0	5	5	5	5	5	5	5	5	5	5
EX5		14	15	15	16	16	16	16	16	16	16
EX6		33	35	36	38	38	39	39	39	39	38
EX4	-10	4	4	5	5	5	5	5	5	5	5
EX5		12	13	14	15	15	15	16	15	16	15
EX6		29	32	34	35	36	37	37	37	37	37
EX4	-20	3	4	4	4	5	5	5	5	5	5
EX5		10	12	13	14	14	15	15	15	15	15
EX6		24	28	31	33	34	35	36	36	36	36
EX4	-30	2	3	4	4	4	4	5	5	5	5
EX5		7	9	11	12	13	13	14	14	14	14
EX6		17	23	26	29	31	32	33	33	33	34
EX4	-40	—	2	3	3	4	4	4	4	4	4
EX5		—	6	9	10	11	12	12	13	13	13
EX6		—	16	21	25	27	29	30	31	31	31
EX4	-50	—	—	2	3	3	3	4	4	4	4
EX5		—	—	5	8	9	10	11	11	12	12
EX6		—	—	13	19	23	25	26	27	28	28

R-124 EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)				
		80	70	60	50	40
EX4	210	2	2	2	2	2
EX5		6	6	6	5	5
EX6		15	14	13	13	12
EX4	200	2	2	2	2	2
EX5		7	6	6	6	6
EX6		16	15	15	14	14
EX4	190	2	2	2	2	2
EX5		7	7	7	7	6
EX6		17	17	17	16	15
EX4	180	3	2	2	2	2
EX5		8	8	7	7	7
EX6		18	18	18	17	17
EX4	170	3	3	2	2	2
EX5		8	8	8	7	7
EX6		18	18	18	18	17
EX4	160	3	3	3	3	3
EX5		8	8	8	8	8
EX6		18	19	19	18	18
EX4	150	2	2	3	3	3
EX5		7	8	8	8	8
EX6		18	18	18	18	18



Capacity Tables (kW)

R-134A EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)								
		60	50	40	30	20	10	0	-10	-20
EX4	140	4	4	4	4	4	4	4	3	3
EX5		11	11	11	11	11	11	11	11	10
EX6		27	27	27	27	27	26	26	25	25
EX7		74	75	75	75	73	73	71	69	68
EX8		197	200	200	199	196	194	190	185	181
EX4	130	4	4	4	4	4	4	4	4	3
EX5		11	11	11	11	11	11	11	11	10
EX6		26	26	27	27	27	27	26	26	25
EX7		72	73	74	74	73	73	72	70	69
EX8		191	194	198	197	196	194	192	187	183
EX4	120	3	4	4	4	4	4	4	4	4
EX5		10	11	11	11	11	11	11	11	11
EX6		25	26	26	27	27	27	26	26	25
EX7		68	71	73	73	73	73	72	71	70
EX8		182	188	194	196	195	195	193	189	186
EX4	110	3	3	3	4	4	4	4	4	3
EX5		10	10	11	11	11	11	11	11	11
EX6		23	24	25	26	26	26	26	26	25
EX7		63	65	69	70	71	71	71	70	69
EX8		168	176	183	187	189	191	189	188	184
EX4	100	3	3	3	3	3	3	3	3	3
EX5		9	9	10	10	10	11	11	11	10
EX6		20	22	24	24	25	25	25	25	25
EX7		56	60	65	67	69	69	69	69	68
EX8		149	161	173	178	183	184	185	184	182
EX4	90	2	3	3	3	3	3	3	3	3
EX5		7	8	9	9	10	10	10	10	10
EX6		16	19	21	22	23	24	24	24	24
EX7		44	52	58	61	64	66	66	66	66
EX8		118	139	153	163	170	175	177	176	177
EX4	80	1	2	2	3	3	3	3	3	3
EX5		4	6	7	8	9	9	9	10	10
EX6		10	15	18	20	21	22	23	23	23
EX7		27	40	49	54	58	60	62	62	63
EX8		72	107	130	144	154	160	165	166	167
EX4	70	—	1	2	2	3	3	3	3	3
EX5		—	3	6	7	8	8	9	9	9
EX6		—	8	13	16	18	20	21	21	22
EX7		—	22	37	45	50	54	57	59	59
EX8		—	58	98	120	134	145	152	156	158
EX4	60	—	—	1	2	2	2	3	3	3
EX5		—	—	2	5	6	7	8	8	8
EX6		—	—	5	12	15	17	18	19	20
EX7		—	—	14	32	40	46	50	52	53
EX8		—	—	38	84	107	122	133	139	143
EX4	50	—	—	—	—	1	2	2	2	2
EX5		—	—	—	—	4	5	6	7	7
EX6		—	—	—	—	9	13	15	16	17
EX7		—	—	—	—	26	36	42	45	48
EX8		—	—	—	—	69	95	111	120	128

EX4-8 SERIES CAPACITY TABLES

LIQUID

R-404A/R-507 EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)											
		60	50	40	30	20	10	0	-10	-20	-30	-40	-50
EX4	130	3	3	3	3	3	3	3	3	3	2	2	2
EX5		9	9	9	9	9	9	8	8	8	8	7	7
EX6		21	21	22	21	21	21	20	20	19	18	17	16
EX7		58	59	59	58	58	57	56	54	52	50	48	45
EX8		153	156	157	156	154	152	148	143	139	133	127	120
EX4	120	3	3	3	3	3	3	3	3	3	3	3	3
EX5		9	9	9	10	9	9	9	9	9	9	8	8
EX6		22	22	23	23	23	23	22	22	21	20	20	19
EX7		59	61	62	63	62	62	61	60	58	56	54	52
EX8		158	162	165	168	166	165	163	169	165	149	144	138
EX4	110	3	3	3	3	3	3	3	3	3	3	3	3
EX5		9	9	10	10	10	10	10	9	9	9	9	8
EX6		21	22	23	23	23	23	23	23	22	22	21	20
EX7		58	60	63	63	64	64	63	62	61	59	58	56
EX8		153	161	167	168	170	171	168	165	163	158	154	148
EX4	100	3	3	3	3	3	3	3	3	3	3	3	3
EX5		8	9	9	10	10	10	10	10	10	10	9	9
EX6		20	21	23	23	24	24	24	24	23	23	22	22
EX7		54	59	62	64	65	66	66	66	64	63	62	59
EX8		145	156	165	171	174	175	176	173	171	168	164	158
EX4	90	2	3	3	3	3	3	3	3	3	3	3	3
EX5		7	8	9	9	10	10	10	10	10	10	10	9
EX6		17	20	21	23	23	24	24	24	24	23	23	23
EX7		48	54	58	62	64	65	66	66	66	64	63	62
EX8		127	144	156	164	170	173	176	176	175	171	169	165
EX4	80	2	2	3	3	3	3	3	3	3	3	3	3
EX5		6	7	8	9	9	10	10	10	10	10	10	9
EX6		13	17	19	21	22	23	23	24	24	23	23	23
EX7		37	46	53	58	61	63	64	65	65	64	63	62
EX8		98	124	142	154	162	168	171	173	172	171	169	166
EX4	70	1	2	2	3	3	3	3	3	3	3	3	3
EX5		2	5	7	8	9	9	9	10	10	10	10	10
EX6		6	13	17	19	21	22	23	23	24	23	23	23
EX7		16	35	46	52	57	60	62	64	64	64	64	63
EX8		42	94	122	138	152	160	166	170	172	170	170	168
EX4	60	—	1	2	2	2	3	3	3	3	3	3	3
EX5		—	2	5	7	8	8	9	9	9	9	9	9
EX6		—	4	12	16	18	20	21	22	22	22	23	22
EX7		—	11	33	43	50	55	58	60	61	62	62	61
EX8		—	30	89	116	133	146	155	159	163	164	165	162
EX4	50	—	—	—	2	2	2	3	3	3	3	3	3
EX5		—	—	—	5	6	7	8	9	9	9	9	9
EX6		—	—	—	11	15	18	19	20	21	21	22	22
EX7		—	—	—	31	42	48	53	56	58	59	60	59
EX8		—	—	—	82	111	128	142	149	154	157	160	158
EX4	40	—	—	—	—	1	2	2	2	3	3	3	3
EX5		—	—	—	—	4	6	7	8	8	8	8	9
EX6		—	—	—	—	10	14	17	18	19	20	20	21
EX7		—	—	—	—	27	38	46	50	53	55	56	56
EX8		—	—	—	—	72	102	122	133	142	146	149	150

R-407C EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE BUBBLE POINT (°F)	EVAPORATING TEMPERATURE (°F)							
		60	50	40	30	20	10	0	-10
EX4	140	5	5	5	5	5	5	5	5
EX5		14	15	15	15	15	15	14	14
EX6		34	35	35	35	35	35	34	33
EX7		95	97	97	97	96	95	94	92
EX8		253	257	258	259	256	255	250	244
EX4	130	5	5	5	5	5	5	5	5
EX5		15	15	15	15	15	15	15	14
EX6		35	35	36	36	36	35	35	34
EX7		95	96	98	98	98	97	96	94
EX8		253	257	261	261	261	260	256	252
EX4	120	5	5	5	5	5	5	5	5
EX5		14	15	15	15	15	15	15	15
EX6		34	35	36	36	36	36	36	36
EX7		93	96	99	99	99	100	99	98
EX8		249	256	264	265	265	266	264	261
EX4	110	4	5	5	5	5	5	5	5
EX5		14	14	15	15	15	15	15	15
EX6		33	34	35	35	36	36	36	35
EX7		90	93	96	97	99	99	99	98
EX8		239	248	255	260	263	264	263	260
EX4	100	4	4	5	5	5	5	5	5
EX5		13	14	14	15	15	15	15	15
EX6		30	32	34	35	35	36	36	36
EX7		84	89	94	96	98	9	99	98
EX8		224	239	250	256	260	263	254	262
EX4	90	4	4	4	5	5	5	5	5
EX5		11	13	13	14	14	15	15	15
EX6		27	30	32	33	34	35	35	35
EX7		75	83	87	92	94	96	97	96
EX8		201	220	233	244	250	256	259	257
EX4	80	3	4	4	4	4	5	5	5
EX5		10	11	12	13	13	14	14	14
EX6		23	26	29	31	32	33	34	34
EX7		63	73	80	85	88	91	93	93
EX8		169	193	212	227	235	243	247	248
EX4	70	2	3	4	4	4	4	4	4
EX5		7	9	11	12	13	13	14	14
EX6		17	22	26	28	30	31	32	33
EX7		47	61	71	77	83	87	89	90
EX8		125	164	190	206	220	231	236	239
EX4	60	0	2	3	3	4	4	4	4
EX5		2	7	9	10	11	12	13	13
EX6		4	16	21	24	27	29	30	31
EX7		10	43	58	67	74	79	82	85
EX8		26	115	154	179	197	211	219	225
EX4	50	—	—	2	3	3	4	4	4
EX5		—	—	6	8	10	11	12	12
EX6		—	—	15	20	23	26	27	29
EX7		—	—	40	55	64	70	75	79
EX8		--	—	107	146	170	187	201	210

EX4-8 SERIES CAPACITY TABLES

LIQUID

R-410A EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)												
		60	50	40	30	20	10	0	-10	-20	-30	-40	-50	
EX4	140	5	5	5	5	5	5	5	5	5	5	5	5	
EX5		15	15	16	16	16	16	16	16	16	15	15	15	15
EX6		36	37	38	38	38	38	38	38	38	37	37	36	35
EX7		99	102	104	105	105	105	105	105	104	103	101	99	97
EX8		265	271	277	279	281	281	280	277	274	269	264	258	
EX4	130	5	5	5	5	6	6	6	6	5	5	5	5	
EX5		15	16	16	16	17	17	17	17	17	16	16	16	16
EX6		37	38	39	40	40	40	40	40	40	40	39	39	38
EX7		101	105	107	109	110	110	111	110	109	108	106	104	
EX8		269	279	285	292	293	295	296	294	291	288	283	277	
EX4	120	5	5	6	6	6	6	6	6	6	6	6	6	
EX5		15	16	17	17	17	17	17	17	17	17	17	17	17
EX6		37	39	40	41	42	42	42	42	42	42	42	41	40
EX7		101	106	110	112	114	115	116	116	116	116	114	113	111
EX8		270	283	293	299	305	308	309	310	309	305	301	297	
EX4	110	5	5	5	6	6	6	6	6	6	6	6	6	
EX5		15	15	16	17	17	17	18	18	18	17	17	17	17
EX6		35	37	39	40	42	42	43	43	43	43	42	42	41
EX7		96	102	107	111	114	115	117	118	117	116	115	113	
EX8		257	273	286	297	305	308	313	314	313	309	308	303	
EX4	100	5	5	5	6	6	6	6	6	6	6	6	6	
EX5		14	15	16	17	17	17	18	18	18	18	18	18	18
EX6		33	36	38	40	41	42	43	43	43	43	43	43	42
EX7		90	98	105	110	113	116	118	119	119	118	118	116	
EX8		240	261	281	294	301	308	315	316	316	315	316	311	
EX4	90	4	4	5	5	5	6	6	6	6	6	6	6	
EX5		12	13	15	16	16	17	17	18	18	18	18	18	18
EX6		28	33	36	38	40	41	42	42	42	43	43	43	43
EX7		78	89	98	104	109	112	116	116	118	118	118	117	
EX8		207	239	260	277	290	300	308	311	314	314	315	313	
EX4	80	3	4	4	5	5	5	6	6	6	6	6	6	
EX5		9	12	13	15	15	16	17	17	17	17	17	17	17
EX6		22	28	32	35	37	39	40	41	42	42	42	42	42
EX7		61	77	87	97	103	107	111	113	114	116	115	114	
EX8		163	204	233	257	274	286	297	300	305	309	308	305	
EX4	70	2	3	4	4	5	5	5	5	6	6	6	6	
EX5		5	9	11	13	14	15	16	16	17	17	17	17	17
EX6		11	21	27	31	34	37	39	39	40	41	41	41	41
EX7		31	59	75	86	94	101	106	108	111	112	114	113	
EX8		84	157	201	230	251	270	284	289	295	300	303	301	
EX4	60	—	1	3	4	4	5	5	5	5	5	5	5	
EX5		—	4	8	11	13	14	15	15	16	16	16	16	16
EX6		—	10	20	26	30	33	36	37	38	39	40	39	
EX7		—	27	56	72	84	92	98	102	105	108	109	109	
EX8		—	72	150	192	224	245	262	273	281	287	291	290	
EX4	50	—	—	1	3	3	4	4	5	5	5	5	5	
EX5		—	—	3	8	10	12	14	14	15	15	16	16	16
EX6		—	—	8	19	25	29	33	35	36	37	38	38	
EX7		—	—	21	53	69	80	90	95	99	102	104	104	
EX8		—	—	57	143	185	214	239	254	265	272	278	277	

R-448A EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)														
		50	40	32	25	15	0	-10	-20	-30	-40	-50	-60	-70	-80	-95
EX4	140	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.0	3.9	3.7	3.6	3.5	3.3	3.2	2.9
EX5		13.1	13.1	13.1	13.1	12.8	12.7	12.3	12.0	11.7	11.4	11.0	10.4	10.2	9.8	9.0
EX6		31.3	31.6	31.6	31.3	31.0	30.3	29.6	28.9	28.0	27.3	26.3	25.1	24.2	23.2	21.5
EX7		86.4	86.7	86.7	86.3	85.4	83.4	81.6	79.5	77.3	74.8	72.2	69.4	66.5	63.7	59.1
EX8		230.3	231.2	230.9	229.9	227.5	222.1	217.4	211.9	205.9	199.3	192.4	185.0	177.4	169.4	157.6
EX4	120	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.6
EX5		13.3	13.7	14.0	14.0	14.0	13.9	13.5	13.5	13.2	12.9	12.6	12.2	11.7	11.4	10.9
EX6		32.4	33.1	33.3	33.4	33.4	33.0	32.8	32.2	31.6	31.0	30.0	29.1	28.2	27.3	25.8
EX7		88.9	90.6	91.4	91.8	92.0	91.1	90.0	88.6	86.8	84.9	82.7	80.2	77.8	75.2	71.2
EX8		237.1	241.9	244.2	245.2	245.4	243.0	240.2	236.1	231.6	226.1	220.5	214.1	207.3	200.7	189.7
EX4	100	4.2	4.4	4.5	4.5	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.3	4.2	4.1	3.9
EX5		12.6	13.2	13.5	13.8	13.9	13.9	13.9	13.9	13.7	13.4	13.1	12.8	12.5	12.2	11.7
EX6		30.5	31.8	32.4	32.9	33.3	33.5	33.6	33.1	32.8	32.3	31.7	31.0	30.2	29.6	28.2
EX7		83.7	87.3	89.3	90.6	91.8	92.3	92.0	91.3	90.2	88.7	87.2	85.3	83.3	80.9	77.6
EX8		223.3	232.7	238.1	241.6	244.6	246.2	245.4	243.6	240.6	236.9	232.4	227.4	221.9	216.1	207.1
EX4	85	3.7	4.0	4.1	4.3	4.4	4.5	4.5	4.5	4.5	4.4	4.4	4.3	4.2	4.1	4.0
EX5		11.2	11.9	12.7	13.0	13.3	13.6	13.6	13.6	13.7	13.4	13.3	13.0	12.7	12.4	11.9
EX6		26.6	28.9	30.2	31.2	32.0	32.8	33.0	32.7	32.7	32.4	31.8	31.1	30.5	29.9	28.9
EX7		73.4	79.3	83.0	85.4	87.9	89.9	90.3	90.4	89.9	88.7	87.4	86.1	84.1	82.2	79.4
EX8		195.7	211.9	221.3	227.6	234.3	239.7	241.0	240.8	239.2	236.7	233.3	229.4	224.6	219.7	211.4
EX4	70	2.8	3.3	3.6	3.8	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.1	3.9
EX5		8.4	10.0	11.0	11.5	12.1	12.9	13.0	13.2	13.2	13.2	12.9	12.8	12.5	12.5	11.8
EX6		20.3	24.1	26.3	27.7	29.4	30.7	31.3	31.6	31.6	31.3	31.2	30.7	30.1	29.7	28.5
EX7		55.6	66.1	72.1	76.2	80.6	84.6	86.2	86.9	86.8	86.3	85.5	84.3	82.8	81.0	78.3
EX8		148.6	176.5	192.5	203.3	214.7	225.5	229.5	231.3	231.4	230.4	228.0	224.8	221.0	216.4	208.8
EX4	60	2.8	3.1	3.3	3.5	3.7	3.8	3.9	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1
EX5		8.4	9.5	10.1	10.5	11.0	11.7	11.8	12.1	12.3	12.4	12.3	12.4	12.4	12.5	12.4
EX6		20.3	22.8	24.4	25.3	26.6	27.8	28.5	29.1	29.4	29.4	29.8	29.8	29.8	29.9	29.7
EX7		55.6	62.6	66.7	69.7	73.1	76.7	78.5	79.8	80.6	81.3	81.7	81.9	81.9	81.8	81.6
EX8		148.4	167.0	178.2	186.1	194.9	204.6	209.2	212.5	214.9	216.7	217.7	218.3	218.5	218.3	217.5
EX4	50	2.9	3.0	3.1	3.2	3.2	3.4	3.5	3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.2
EX5		8.9	9.1	9.4	9.6	9.8	10.2	10.5	10.8	11.0	11.3	11.6	11.9	12.1	12.4	12.8
EX6		21.4	22.0	22.6	23.0	23.6	24.6	25.3	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.7
EX7		58.8	60.5	62.0	63.2	65.0	67.7	69.4	71.2	73.0	74.8	76.6	78.3	80.1	81.9	84.6
EX8		156.9	161.6	165.4	168.7	173.4	180.4	185.1	189.8	194.6	199.3	204.0	208.7	213.4	218.1	225.2
EX4	32	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.8
EX5		6.7	7.0	7.3	7.5	7.9	8.4	8.7	9.0	9.4	9.7	10.0	10.4	10.7	11.0	11.5
EX6		15.8	16.7	17.3	17.9	18.7	20.0	20.8	21.7	22.5	23.3	24.2	25.0	25.9	26.7	27.9
EX7		43.4	45.7	47.6	49.2	51.5	55.0	57.3	59.6	61.9	64.2	66.5	68.8	71.1	73.4	76.9
EX8		115.9	122.0	126.9	131.2	137.3	146.5	152.6	158.7	164.9	171.0	177.1	183.2	189.3	195.5	204.6
EX4	15	—	1.3	1.4	1.6	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.1	3.4
EX5		—	4.0	4.3	4.6	5.1	5.8	6.2	6.7	7.2	7.6	8.1	8.5	9.0	9.5	10.1
EX6		—	9.6	10.5	11.2	12.3	14.0	15.1	16.2	17.3	18.3	19.4	20.5	21.6	22.7	24.3
EX7		—	26.3	28.7	30.8	33.9	38.4	41.4	44.5	47.5	50.5	53.5	56.6	59.6	62.6	67.1
EX8		—	69.9	76.4	82.1	90.2	102.3	110.4	118.5	126.6	134.7	142.7	150.8	158.9	166.9	179.0
EX4	-5	—	—	—	—	—	—	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.2	2.5
EX5		—	—	—	—	—	—	3.1	3.7	4.2	4.7	5.2	5.7	6.3	6.8	7.6
EX6		—	—	—	—	—	—	7.4	8.7	9.9	11.1	12.4	13.6	14.9	16.1	17.9
EX7		—	—	—	—	—	—	20.6	24.0	27.4	30.8	34.2	37.5	40.9	44.3	49.4
EX8		—	—	—	—	—	—	55.2	64.2	73.2	82.2	91.2	100.3	109.3	118.3	131.8

EX4-8 SERIES CAPACITY TABLES

LIQUID

R-449A EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)											
		50	40	30	20	10	0	-10	-20	-30	-40	-80	-100
EX4	140	4.3	4.3	4.3	4.3	4.1	3.9	4.0	3.8	3.7	3.7	3.1	2.7
EX5		12.8	12.8	12.7	12.5	12.4	12.2	12.1	11.7	11.4	10.8	9.2	8.2
EX6		30.4	30.7	30.4	30.4	29.9	29.2	28.7	27.8	27.1	26.2	22.0	19.9
EX7		83.9	84.2	83.8	83.1	82.0	80.6	78.8	76.6	74.4	71.9	60.8	54.8
EX8		223.5	224.4	223.8	221.7	218.8	214.8	210.0	204.5	198.3	191.6	162.1	145.8
EX4	120	4.3	4.3	4.6	4.6	4.6	4.4	4.3	4.3	4.3	4.0	3.7	3.3
EX5		13.1	13.4	13.4	13.4	13.4	13.5	13.3	13.0	12.7	12.4	11.1	10.1
EX6		31.5	32.2	32.5	32.5	32.5	32.2	31.7	31.1	30.5	29.9	26.4	24.5
EX7		86.6	88.3	89.0	89.4	89.3	88.6	87.3	85.7	83.9	82.1	72.4	67.0
EX8		231.0	235.4	237.8	238.6	237.9	235.9	232.8	228.8	224.2	218.8	192.9	178.5
EX4	100	4.2	4.2	4.3	4.5	4.5	4.6	4.6	4.5	4.3	4.3	4.0	3.7
EX5		12.3	13.0	13.3	13.6	13.6	13.6	13.7	13.4	13.4	13.1	11.9	11.3
EX6		29.7	31.0	31.9	32.3	32.6	32.7	32.5	32.3	32.0	31.4	28.7	26.8
EX7		81.8	85.1	87.7	89.1	89.8	89.9	89.8	88.8	87.7	86.3	78.3	74.0
EX8		218.4	227.5	233.5	237.6	239.7	240.2	239.2	237.0	234.0	230.3	209.5	197.3
EX4	85	3.6	3.9	4.0	4.3	4.2	4.4	4.6	4.3	4.3	4.3	3.9	4.1
EX5		10.9	11.9	12.5	12.8	13.2	13.4	13.3	13.3	13.4	13.1	12.1	11.5
EX6		26.0	28.3	29.9	30.9	31.6	31.9	32.1	32.1	31.9	31.6	28.9	27.8
EX7		72.0	77.6	82.0	84.8	86.8	87.7	88.3	88.2	87.6	86.7	80.0	76.2
EX8		191.5	207.4	218.4	226.3	231.3	234.4	235.4	235.2	233.6	230.8	213.7	202.3
EX4	70	2.6	3.2	3.5	3.9	4.1	4.0	4.3	4.3	4.3	4.3	4.0	4.0
EX5		8.4	9.7	10.9	11.8	12.3	12.6	12.7	12.9	12.9	12.9	12.2	11.3
EX6		19.7	23.5	26.2	28.0	29.4	30.0	30.7	30.8	30.7	30.7	28.7	27.4
EX7		54.5	64.9	71.8	76.9	80.5	82.7	84.1	84.8	84.8	84.3	79.3	75.2
EX8		145.4	172.9	191.7	205.2	214.6	220.9	224.6	226.3	226.5	225.1	211.0	200.7
EX4	50	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	4.0	4.2
EX5		8.7	9.0	9.2	9.5	9.8	10.0	10.3	10.5	10.8	11.1	12.1	12.6
EX6		20.9	21.6	22.2	22.8	23.5	24.1	24.7	25.4	26.0	26.6	29.2	30.5
EX7		57.7	59.4	61.1	62.8	64.6	66.3	68.0	69.7	71.5	73.2	80.1	83.5
EX8		153.8	158.4	163.0	167.6	172.2	176.8	181.4	186.0	190.5	195.1	213.5	222.6
EX4	32	2.2	2.3	2.4	2.5	2.6	2.7	2.8	3.0	3.1	3.2	3.6	3.8
EX5		6.4	6.7	7.1	7.4	7.8	8.1	8.5	8.8	9.2	9.5	10.9	11.6
EX6		15.4	16.2	17.0	17.8	18.7	19.5	20.3	21.1	22.0	22.8	26.1	27.7
EX7		42.7	44.9	47.2	49.4	51.6	53.9	56.1	58.4	60.6	62.9	71.8	76.3
EX8		113.6	119.6	125.6	131.6	137.6	143.6	149.6	155.6	161.6	167.5	191.5	203.5
EX4	15	—	—	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.5	3.0	3.3
EX5		—	—	4.3	4.8	5.2	5.7	6.1	6.6	7.1	7.5	9.3	10.2
EX6		—	—	10.4	11.5	12.6	13.7	14.8	15.8	16.9	18.0	22.3	24.5
EX7		—	—	28.5	31.5	34.5	37.5	40.4	43.4	46.4	49.4	61.3	67.3
EX8		—	—	76.0	84.0	92.0	100.0	108.0	116.0	123.9	131.9	163.7	179.6
EX4	-5	—	—	—	—	—	—	1.0	1.2	1.3	1.5	2.2	2.5
EX5		—	—	—	—	—	—	3.1	3.6	4.1	4.6	6.6	7.6
EX6		—	—	—	—	—	—	7.1	8.4	9.6	10.9	15.8	18.3
EX7		—	—	—	—	—	—	20.1	23.5	26.8	30.1	43.5	50.1
EX8		—	—	—	—	—	—	53.4	62.3	71.3	80.2	115.8	133.6

R-450A EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)											
		130	120	100	80	60	50	40	30	20	0	-10	-20
EX4	175	2.6	2.8	3.0	3.0	2.9	2.9	2.8	2.7	2.6	2.3	2.2	2.1
EX5		7.9	8.6	8.9	9.2	8.9	8.6	8.6	8.2	8.0	7.0	6.7	6.4
EX6		19.0	20.3	21.8	22.0	21.5	21.0	20.3	19.7	19.0	17.0	16.1	15.1
EX7		52.1	55.8	59.7	60.4	59.1	57.7	56.1	54.1	51.9	47.0	44.2	41.5
EX8		139.0	148.8	159.2	161.2	157.3	153.8	149.4	144.2	138.4	125.1	118.1	110.6
EX4	160	2.2	2.6	3.0	3.2	3.2	3.1	3.1	3.0	2.9	2.7	2.6	2.4
EX5		6.8	8.0	9.1	9.6	9.6	9.4	9.4	9.1	9.0	8.2	7.9	7.5
EX6		16.4	18.9	21.7	23.0	23.1	22.8	22.4	22.0	21.3	19.5	18.6	17.7
EX7		45.0	52.2	59.8	63.2	63.4	62.7	61.6	60.0	58.2	53.9	51.5	48.8
EX8		120.3	138.8	159.9	168.6	169.3	167.4	164.3	160.4	155.5	143.6	137.0	130.0
EX4	140	2.4	2.5	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.1	3.1	3.2
EX5		7.4	7.6	7.9	8.1	8.4	8.6	8.7	8.9	9.0	9.3	9.5	9.6
EX6		17.8	18.2	18.9	19.6	20.3	20.6	21.0	21.4	21.7	22.4	22.8	23.1
EX7		49.0	49.9	51.9	53.8	55.8	56.7	57.7	58.7	59.6	61.6	62.6	63.5
EX8		130.6	133.2	138.3	143.5	148.7	151.3	153.9	156.4	159.0	164.2	166.8	169.4
EX4	120	2.5	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.2
EX5		7.8	7.9	8.1	8.4	8.6	8.7	8.9	9.0	9.1	9.3	9.5	9.6
EX6		18.5	18.8	19.4	20.0	20.6	20.9	21.2	21.5	21.8	22.4	22.7	23.0
EX7		50.6	51.5	53.2	54.9	56.6	57.4	58.2	59.1	59.9	61.6	62.4	63.2
EX8		135.0	137.4	141.9	146.4	150.9	153.1	155.3	157.6	159.8	164.2	166.4	168.6
EX4	110	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	2.9	3.1	3.2	3.3
EX5		6.3	6.5	7.0	7.5	7.9	8.2	8.4	8.7	8.9	9.4	9.6	9.9
EX6		15.1	15.7	16.8	18.0	19.1	19.7	20.2	20.8	21.4	22.5	23.1	23.7
EX7		41.5	43.1	46.2	49.3	52.5	54.1	55.6	57.2	58.8	61.9	63.5	65.1
EX8		110.9	115.0	123.3	131.7	140.0	144.2	148.4	152.6	156.8	165.2	169.4	173.6
EX4	105	1.9	2.0	2.2	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2
EX5		5.9	6.2	6.7	7.2	7.7	7.9	8.2	8.4	8.6	9.1	9.4	9.6
EX6		14.2	14.8	16.0	17.2	18.4	19.0	19.6	20.2	20.8	21.9	22.5	23.1
EX7		39.3	40.9	44.1	47.3	50.6	52.2	53.8	55.4	57.0	60.2	61.8	63.4
EX8		104.6	109.0	117.6	126.2	134.8	139.1	143.4	147.8	152.1	160.7	165.0	169.3
EX4	95	1.5	1.6	1.8	2.1	2.3	2.4	2.5	2.6	2.8	3.0	3.1	3.2
EX5		4.6	5.0	5.7	6.3	7.0	7.4	7.7	8.1	8.4	9.1	9.4	9.8
EX6		11.2	12.0	13.7	15.3	16.9	17.7	18.5	19.3	20.1	21.7	22.5	23.4
EX7		30.4	32.6	37.2	41.7	46.2	48.4	50.7	52.9	55.2	59.7	62.0	64.2
EX8		81.2	87.3	99.3	111.3	123.3	129.3	135.3	141.3	147.3	159.3	165.3	171.3
EX4	85	1.6	1.7	1.8	2.0	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0
EX5		4.7	5.0	5.6	6.2	6.8	7.1	7.4	7.7	7.9	8.5	8.8	9.1
EX6		11.3	12.0	13.4	14.8	16.3	17.0	17.7	18.4	19.2	20.6	21.3	22.0
EX7		31.0	33.0	36.9	40.8	44.8	46.7	48.7	50.7	52.6	56.6	58.5	60.5
EX8		83.3	88.5	98.9	109.2	119.6	124.8	129.9	135.1	140.3	150.7	155.8	161.0
EX4	75	—	—	—	1.3	1.7	1.8	2.0	2.2	2.3	2.7	2.8	3.0
EX5		—	—	—	4.0	5.0	5.5	6.0	6.5	7.1	8.1	8.6	9.1
EX6		—	—	—	9.7	12.1	13.3	14.5	15.7	17.0	19.4	20.6	21.8
EX7		—	—	—	26.8	33.4	36.7	40.1	43.4	46.7	53.3	56.6	59.9
EX8		—	—	—	71.3	89.0	97.8	106.7	115.5	124.4	142.0	150.9	159.7

EX4-8 SERIES CAPACITY TABLES

LIQUID

R-513A EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)											
		130	120	100	80	60	50	40	30	20	0	-10	-20
EX4	175	2.4	2.6	2.7	2.7	2.6	2.4	2.3	2.1	1.9	1.7	1.6	1.5
EX5		7.1	7.8	8.1	8.3	7.8	7.2	6.9	6.6	5.6	5.1	4.8	4.6
EX6		17.3	18.4	19.6	19.7	18.9	17.3	16.6	15.6	13.4	12.5	11.9	10.6
EX7		47.7	50.8	53.9	54.0	51.7	47.8	45.5	42.9	37.1	34.1	32.4	29.2
EX8		126.9	135.8	143.9	144.0	137.9	127.8	121.4	114.5	99.0	90.9	86.8	78.0
EX4	160	2.2	2.5	2.9	3.0	3.0	2.9	2.8	2.7	2.4	2.3	2.2	2.0
EX5		6.7	7.6	8.7	9.2	8.9	8.7	8.4	8.0	7.3	6.7	6.4	6.2
EX6		15.7	18.2	21.0	21.9	21.7	20.8	20.1	19.3	17.5	16.4	15.9	14.9
EX7		43.2	50.1	57.4	60.1	59.6	57.1	55.3	53.0	47.9	45.1	43.7	40.5
EX8		115.4	133.2	153.0	160.4	159.4	152.5	147.4	141.5	127.7	120.1	116.2	108.1
EX4	140	—	2.5	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.1
EX5		—	7.7	7.9	8.1	8.3	8.6	8.7	8.8	9.0	9.1	9.2	9.3
EX6		—	18.3	18.8	19.4	19.9	20.5	20.8	21.0	21.6	21.9	22.0	22.3
EX7		—	50.5	51.9	53.4	54.9	56.4	57.2	57.9	59.4	60.2	60.6	61.3
EX8		—	134.6	138.5	142.5	146.5	150.5	152.5	154.5	158.5	160.4	161.4	163.4
EX4	120	—	—	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.2	3.3
EX5		—	—	7.3	7.8	8.2	8.6	8.8	9.0	9.5	9.7	9.8	10.0
EX6		—	—	17.4	18.5	19.5	20.6	21.1	21.6	22.7	23.2	23.4	24.0
EX7		—	—	48.0	50.8	53.7	56.6	58.1	59.5	62.4	63.8	64.6	66.0
EX8		—	—	128.1	135.7	143.4	151.0	154.9	158.7	166.4	170.2	172.1	176.0
EX4	110	—	—	2.3	2.5	2.6	2.8	2.9	2.9	3.1	3.2	3.2	3.3
EX5		—	—	7.1	7.5	8.0	8.4	8.6	8.9	9.3	9.6	9.7	9.9
EX6		—	—	16.9	18.0	19.1	20.2	20.8	21.3	22.4	23.0	23.3	23.8
EX7		—	—	46.6	49.6	52.6	55.7	57.2	58.7	61.7	63.2	63.9	65.4
EX8		—	—	124.2	132.3	140.3	148.3	152.3	156.4	164.4	168.4	170.4	174.4
EX4	105	—	—	2.0	2.2	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
EX5		—	—	5.9	6.6	7.2	7.9	8.2	8.5	9.2	9.5	9.7	10.0
EX6		—	—	14.6	16.1	17.6	19.1	19.8	20.5	22.0	22.8	23.1	23.9
EX7		—	—	39.8	44.0	48.1	52.3	54.3	56.4	60.5	62.6	63.6	65.7
EX8		—	—	106.0	117.1	128.2	139.3	144.9	150.4	161.5	167.1	169.9	175.4
EX4	95	—	—	—	1.9	2.1	2.4	2.5	2.6	2.9	3.0	3.1	3.2
EX5		—	—	—	5.6	6.4	7.2	7.6	8.0	8.8	9.2	9.4	9.8
EX6		—	—	—	13.6	15.5	17.3	18.3	19.2	21.1	22.1	22.5	23.5
EX7		—	—	—	37.4	42.5	47.7	50.2	52.8	57.9	60.4	61.7	64.3
EX8		—	—	—	99.7	113.4	127.0	133.9	140.7	154.4	161.2	164.6	171.5
EX4	85	—	—	—	—	1.8	2.1	2.2	2.4	2.7	2.9	2.9	3.1
EX5		—	—	—	—	5.4	6.3	6.8	7.3	8.2	8.7	8.9	9.4
EX6		—	—	—	—	12.9	15.2	16.3	17.5	19.7	20.9	21.4	22.6
EX7		—	—	—	—	35.5	41.8	44.9	48.0	54.2	57.3	58.9	62.0
EX8		—	—	—	—	94.4	111.2	119.6	128.0	144.7	153.1	157.3	165.6
EX4	75	—	—	—	1.5	1.7	2.0	2.1	2.2	2.5	2.6	2.7	2.8
EX5		—	—	—	4.5	5.2	6.0	6.3	6.7	7.4	7.8	8.0	8.4
EX6		—	—	—	11.1	12.8	14.5	15.3	16.2	17.9	18.7	19.1	20.0
EX7		—	—	—	30.1	34.9	39.7	42.1	44.5	49.3	51.7	52.9	55.3
EX8		—	—	—	79.7	92.7	105.7	112.3	118.8	131.8	138.3	141.6	148.1

R-744 EXTENDED CAPACITIES (TONS) - EX4-8 SERIES, AS EXPANSION AND LIQUID INJECTION VALVES

The following tables provide the capacity of valves at different conditions considering 20 psi pressure drop through liquid line:

VALVE TYPE	CONDENSING TEMPERATURE (°F)	EVAPORATING TEMPERATURE (°F)						
		10	0	-10	-20	-30	-40	-50
EX4	30	6	7	8	9	10	10	10
EX5		18	22	25	27	29	30	31
EX6		43	53	60	65	70	73	75
EX7		117	145	165	179	191	200	206
EX8		312	388	439	479	510	534	549
EX4	20	—	6	7	8	9	9	10
EX5		—	18	22	25	27	29	30
EX6		—	43	53	60	65	69	72
EX7		—	119	145	164	178	189	197
EX8		—	319	387	437	476	506	526
EX4	10	—	—	6	7	8	9	9
EX5		—	—	18	22	25	27	29
EX6		—	—	43	53	60	65	68
EX7		—	—	119	145	163	178	187
EX8		—	—	318	386	436	474	500
EX4	0	—	—	—	6	7	8	9
EX5		—	—	—	17	21	24	26
EX6		—	—	—	41	51	58	63
EX7		—	—	—	114	140	159	172
EX8		—	—	—	303	373	423	458
EX4	-10	—	—	—	—	5	7	8
EX5		—	—	—	—	17	20	23
EX6		—	—	—	—	40	49	55
EX7		—	—	—	—	109	134	152
EX8		—	—	—	—	290	359	405
EX4	-20	—	—	—	—	3	5	6
EX5		—	—	—	—	19	16	20
EX6		—	—	—	—	22	38	47
EX7		—	—	—	—	61	104	129
EX8		—	—	—	—	163	278	344
EX4	-30	—	—	—	—	—	3	5
EX5		—	—	—	—	—	8	15
EX6		—	—	—	—	—	19	35
EX7		—	—	—	—	—	53	96
EX8		—	—	—	—	—	142	257

EX5-8 NOMINAL CAPACITIES (TONS) - AS CONDENSING PRESSURE REGULATOR AND LIQUID DUTY

VALVE TYPE	R-407C	R-22	R-134a	R-404A
EX5	5	6	5	4
EX6	12	13	12	9
EX7	44	46	43	31
EX8	133	140	131	93

The nominal capacity is based on the following conditions:

REFRIGERANT	EVAPORATING TEMPERATURE	CONDENSING TEMPERATURE	SUBCOOLING	PRESSURE DROP
R-22, R-134a, R-404A	+40°F	+100°F	2°F	5 Psid
R-407C	+40°F dew point	+100°F bubble	2°F	5 Psid

Note 1: Bi-flow versions are not released for use below -40°F.

Note 2: EX6, EX7 and EX8 must be installed with motor downward in suction line applications. This insures the valve life expectancy.

Multiply above nominal capacities by following factors to obtain capacities at different pressure drops:

ΔP, Psid	2.0	3.0	5.0
Correction factor	0.65	0.76	1.00

R-22 EXTENDED CAPACITIES (TONS) - EX5-8 SERIES, CONDENSING PRESSURE REGULATOR AND LIQUID DUTY

VALVE TYPE	CONDENSING TEMPERATURE °F	EVAPORATING TEMPERATURE °F									
		50	40	30	20	10	0	-10	-20	-30	-40
EX5	140	4	4	4	4	4	4	4	4	4	4
EX6		10	10	10	10	10	9	9	9	9	9
EX7		36	36	35	35	34	33	33	32	31	31
EX8		111	109	107	105	104	102	100	98	96	94
EX5	130	5	5	5	4	4	4	4	4	4	4
EX6		11	11	11	10	10	10	10	10	10	9
EX7		39	38	38	37	37	36	35	35	34	33
EX8		118	116	115	113	111	109	107	105	103	101
EX5	120	5	5	5	5	5	5	5	5	4	4
EX6		12	12	11	11	11	11	11	10	10	10
EX7		42	41	41	40	39	39	38	37	37	36
EX8		126	125	123	121	119	117	115	113	111	109
EX5	110	5	5	5	5	5	5	5	5	5	5
EX6		12	12	12	12	12	12	11	11	11	11
EX7		44	43	43	42	42	41	40	40	39	38
EX8		133	132	130	128	126	124	122	120	118	116
EX5	100	6	6	6	5	5	5	5	5	5	5
EX6		13	13	13	13	12	12	12	12	12	11
EX7		47	46	46	45	44	44	43	42	41	41
EX8		142	140	138	136	134	132	130	128	126	124

R-134A EXTENDED CAPACITIES (TONS) - EX5-8 SERIES, CONDENSING PRESSURE REGULATOR AND LIQUID DUTY

VALVE TYPE	CONDENSING TEMPERATURE °F	EVAPORATING TEMPERATURE °F			
		50	40	30	20
EX5	140	4	4	4	4
EX6		9	9	9	8
EX7		33	32	31	30
EX8		100	98	95	92
EX5	130	4	4	4	4
EX6		10	10	9	9
EX7		36	35	34	33
EX8		108	105	102	99
EX5	120	5	5	4	4
EX6		11	11	10	10
EX7		39	38	37	36
EX8		117	115	112	108
EX5	110	5	5	5	5
EX6		12	11	11	11
EX7		41	40	39	38
EX8		125	122	119	116
EX5	100	5	5	5	5
EX6		12	12	12	12
EX7		44	43	42	41
EX8		134	131	128	125

R-407C EXTENDED CAPACITIES (TONS) - EX5-8 SERIES, CONDENSING PRESSURE REGULATOR AND LIQUID DUTY

VALVE TYPE	CONDENSING TEMPERATURE DEW POINT °F	EVAPORATING TEMPERATURE °F			
		50	40	30	20
EX5	140	4	4	4	4
EX6		9	9	9	8
EX7		32	32	31	30
EX8		98	96	94	91
EX5	130	4	4	4	4
EX6		10	10	9	9
EX7		35	34	34	33
EX8		106	105	102	100
EX5	120	5	5	4	4
EX6		11	11	10	10
EX7		38	38	37	36
EX8		117	115	112	110
EX5	110	5	5	5	5
EX6		12	11	11	11
EX7		41	40	40	39
EX8		125	123	120	118
EX5	100	5	5	5	5
EX6		12	12	12	12
EX7		44	44	43	42
EX8		135	133	130	128

EX4-8 NOMINAL CAPACITIES (TONS) - AS HOT GAS BYPASS REGULATOR

VALVE TYPE	R-22 / R-407C	R-134a	R-404A / R-507
EX4	1.4	1.0	1.3
EX5	4.5	3.1	4.3
EX6	10.5	7.3	10.1
EX7	37.3	26.0	35.7
EX8	113.0	79.0	108.5

The nominal capacity is based on the following conditions:

REFRIGERANT	EVAPORATING TEMPERATURE	CONDENSING TEMPERATURE	SUBCOOLING
R-22, R-134a, R-404A, R-507	+40°F	+100°F	2°F
R-407C	+40°F bubble point	+100°F dew point	2°F

NOTE 1: Bi-flow versions are not released for hot gas bypass applications.

NOTE 2: EX4, EX5, EX6, EX7 and EX8 must be installed with motor downward in hot gas line applications.

EXTENDED CAPACITIES (TONS) - EX4-8 SERIES

VALVE TYPE	LIQUID / CONDENSING TEMPERATURE°F	R-22 / R-407C	R-134a	R-404A / R-507
EX4	140 Bubble point for all refrigerants (147 dew point for R-407C)	2	1	2
EX5		7	5	6
EX6		15	11	13
EX7		54	38	46
EX8		165	117	139
EX4	130 bubble point for all refrigerants (138 dew point for R-407C)	2	1	2
EX5		6	4	5
EX6		14	10	12
EX7		49	35	44
EX8		150	106	132
EX4	120 bubble point for all refrigerants (128 dew point for R-407C)	2	1	2
EX5		6	4	5
EX6		13	9	12
EX7		45	32	41
EX8		138	97	126
EX4	110 bubble point for all refrigerants (119 dew point for R-407C)	2	1	1
EX5		5	3	5
EX6		12	8	11
EX7		41	29	38
EX8		124	87	117

EX6-8 NOMINAL CAPACITIES (TONS) - AS FOR HOT GAS FLOW SUCH AS HEAT RECLAIM APPLICATION

VALVE TYPE	R-22 / R-407C	R-404A / R-507
EX6	3.1	2.8
EX7	11.1	10.2
EX8	33.8	30.7

The nominal capacity is based on the following conditions:

REFRIGERANT	EVAPORATING TEMPERATURE	CONDENSING TEMPERATURE	SUBCOOLING	PRESSURE DROP	ISENTROPIC EFFICIENCY
R-22, R-404A, R-507	+40°F	+100°F	2°F	2 psid	80%
R-407C	+40°F bubble point	+100°F dew point	2°F	2 psid	80%

NOTE: Bi-flow versions are not released for hot gas bypass applications.

NOTE: EX6, EX7 and EX8 must be installed with motor downward in suction line applications. This insures the valve life expectancy.

R-22 / R-407C EXTENDED CAPACITIES (TONS) - EX6-8 EERIES, AS FOR HOT GAS FLOW SUCH AS HEAT RECLAIM APPLICATION

VALVE TYPE	CONDENSING TEMPERATURE °F	PRESSURE DROP PSI	EVAPORATING TEMPERATURE °F												
			60	50	40	30	20	10	0	-10	-20	-30	-40	-50	
EX6	140	1.5	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.1	
EX7			5.6	5.5	5.3	5.2	5.0	4.9	4.7	4.6	4.4	4.3	4.1	4.0	
EX8			17.0	16.6	16.2	15.7	15.3	14.8	14.4	13.9	13.4	13.0	12.5	12.0	
EX6		7.0	3.4	3.3	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	
EX7			12.2	11.9	11.6	11.3	10.9	10.6	10.3	10.0	9.6	9.3	9.0	8.6	
EX8			37.0	36.1	35.2	34.2	33.3	32.3	31.3	30.3	29.3	28.2	27.2	26.2	
EX6		14.0	4.8	4.7	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.5	3.4	
EX7			17.3	16.9	16.4	16.0	15.6	15.1	14.6	14.2	13.7	13.2	12.7	12.3	
EX8			52.5	51.3	49.9	48.6	47.3	45.9	44.5	43.0	41.6	40.2	38.7	37.3	
EX6		120	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.1
EX7				5.5	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.3	4.1	4.0
EX8				16.6	16.2	15.8	15.4	15.0	14.6	14.2	13.8	13.4	12.9	12.5	12.1
EX6	7.0		3.3	3.3	3.2	3.1	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.4	
EX7			11.8	11.6	11.3	11.0	10.7	10.4	10.1	9.9	9.6	9.3	8.9	8.6	
EX8			35.9	35.1	34.3	33.5	32.6	31.7	30.8	29.9	29.0	28.1	27.2	26.2	
EX6	14.0		4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.6	3.5	3.4	
EX7			16.8	16.4	16.0	15.6	15.2	14.8	14.4	14.0	13.5	13.1	12.7	12.3	
EX8			50.9	49.7	48.6	47.4	46.2	44.9	43.7	42.4	41.1	39.8	38.5	37.2	
EX6	100		1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1
EX7				5.2	5.1	5.0	4.9	4.7	4.6	4.5	4.4	4.3	4.1	4.0	3.9
EX8				15.8	15.4	15.1	14.7	14.4	14.0	13.7	13.3	12.9	12.5	12.2	11.8
EX6		7.0	3.2	3.1	3.0	3.0	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.4	
EX7			11.2	11.0	10.7	10.5	10.2	10.0	9.7	9.5	9.2	8.9	8.7	8.4	
EX8			34.1	33.4	32.6	31.9	31.1	30.4	29.6	28.8	28.0	27.1	26.3	25.5	
EX6		14.0	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	
EX7			15.8	15.5	15.2	14.8	14.5	14.1	13.7	13.4	13.0	12.6	12.2	11.8	
EX8			48.0	47.0	46.0	45.0	43.9	42.8	41.7	40.6	39.5	38.3	37.2	36.0	
EX6		80	1.5	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.0
EX7				4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7
EX8				14.7	14.4	14.1	13.8	13.5	13.2	12.8	12.5	12.2	11.9	11.5	11.2
EX6	7.0		2.9	2.9	2.8	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	
EX7			10.4	10.2	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.2	7.9	
EX8			31.6	31.0	30.4	29.7	29.0	28.4	27.7	27.0	26.3	25.6	24.8	24.1	
EX6	14.0		4.0	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.4	3.3	3.2	3.1	
EX7			14.6	14.3	14.0	13.7	13.4	13.1	12.8	12.5	12.1	11.8	11.5	11.1	
EX8			44.3	43.4	42.6	41.7	40.7	39.8	38.8	37.9	36.9	35.9	34.8	33.8	

EX6-8 SERIES CAPACITY TABLES

GAS

R-404A / R-507 EXTENDED CAPACITIES (TONS) - EX6-8 SERIES, HOT GAS FLOW SUCH A HEAT RECLAIM APPLICATIONS

VALVE TYPE	CONDENSING TEMPERATURE °F	PRESSURE DROP PSI	EVAPORATING TEMPERATURE °F											
			60	50	40	30	20	10	0	-10	-20	-30	-40	-50
EX6	140	1.5	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6
EX7			4.2	4.1	3.9	3.7	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2
EX8			12.8	12.3	11.8	11.3	10.7	10.1	9.6	9.0	8.4	7.8	7.2	6.6
EX6		7	2.6	2.5	2.4	2.3	2.2	2.0	1.9	1.8	1.7	1.6	1.4	1.3
EX7			9.2	8.8	8.4	8.1	7.7	7.3	6.8	6.4	6.0	5.6	5.2	4.7
EX8			27.8	26.7	25.6	24.5	23.3	22.0	20.8	19.5	18.2	16.9	15.6	14.4
EX6		14	3.6	3.4	3.3	3.2	3.0	2.8	2.7	2.5	2.4	2.2	2.0	1.9
EX7			13.0	12.5	12.0	11.4	10.9	10.3	9.7	9.1	8.5	7.9	7.3	6.7
EX8			39.4	37.9	36.3	34.7	33.0	31.3	29.5	27.7	25.9	24.1	22.2	20.4
EX6	120	1.5	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8
EX7			4.6	4.5	4.3	4.2	4.0	3.8	3.7	3.5	3.3	3.2	3.0	2.8
EX8			14.0	13.6	13.1	12.7	12.2	11.7	11.2	10.7	10.1	9.6	9.1	8.5
EX6		7	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7
EX7			10.0	9.7	9.4	9.0	8.7	8.3	8.0	7.6	7.2	6.9	6.5	6.1
EX8			30.4	29.5	28.5	27.5	26.4	25.4	24.3	23.1	22.0	20.9	19.7	18.6
EX6		14	3.9	3.8	3.7	3.5	3.4	3.3	3.1	3.0	2.8	2.7	2.5	2.4
EX7			14.1	13.7	13.3	12.8	12.3	11.8	11.3	10.8	10.3	9.7	9.2	8.7
EX8			43.0	41.7	40.3	38.9	37.4	35.9	34.4	32.8	31.2	29.6	28.0	26.3
EX6	100	1.5	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.9	0.9
EX7			4.7	4.6	4.4	4.3	4.2	4.0	3.9	3.7	3.6	3.4	3.3	3.1
EX8			14.2	13.9	13.5	13.1	12.7	12.2	11.8	11.4	10.9	10.4	10.0	9.5
EX6		7	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2.0	1.9
EX7			10.1	9.9	9.6	9.3	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.8
EX8			30.8	30.0	29.2	28.3	27.4	26.5	25.5	24.6	23.6	22.6	21.6	20.6
EX6		14	4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.2	3.0	2.9	2.8	2.6
EX7			14.3	13.9	13.5	13.1	12.7	12.3	11.9	11.4	11.0	10.5	10.0	9.6
EX8			43.5	42.3	41.2	39.9	38.7	37.4	36.1	34.7	33.3	31.9	30.5	29.1
EX6	80	1.5	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.9	0.9
EX7			4.6	4.5	4.4	4.2	4.1	4.0	3.9	3.8	3.6	3.5	3.4	3.2
EX8			13.9	13.6	13.3	12.9	12.6	12.2	11.8	11.4	11.0	10.6	10.2	9.8
EX6		7	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.0	2.0
EX7			9.9	9.6	9.4	9.2	8.9	8.7	8.4	8.1	7.8	7.6	7.3	7.0
EX8			30.0	29.3	28.6	27.8	27.1	26.3	25.5	24.7	23.8	22.9	22.1	21.2
EX6		14	3.8	3.7	3.7	3.6	3.5	3.4	3.3	3.2	3.0	2.9	2.8	2.7
EX7			13.9	13.5	13.2	12.9	12.5	12.2	11.8	11.4	11.0	10.6	10.2	9.8
EX8			42.1	41.1	40.1	39.1	38.0	36.9	35.8	34.7	33.5	32.3	31.1	29.8

SUCTION

EX6-8 SERIES CAPACITY TABLES

EX6-8 NOMINAL CAPACITIES (TONS) - AS SUCTION PRESSURE REGULATOR (EVAPORATOR OR CRANKCASE)

VALVE TYPE	R-407C	R-22	R-134a	R-404A
EX6	1.1	1.1	0.9	1.0
EX7	3.8	4.0	3.0	3.5
EX8	11.5	12.2	9.2	10.5

The nominal capacity is based on the following conditions:

REFRIGERANT	EVAPORATING TEMPERATURE	CONDENSING TEMPERATURE	SUBCOOLING	PRESSURE DROP
R-22, R-134a, R-404A	+40°F	+100°F	2°F	2 psid
R-407C	+40°F bubble point	+100°F dew point	2°F	2 psid

NOTE 1: Bi-flow versions are not released for use below -40°F.

NOTE 2: EX6, EX7 and EX8 must be installed with motor downward in suction line applications. This insures the valve life expectancy.

Multiply above nominal capacities by following factors to obtain capacities at different pressure drops:

ΔP, psid	1.5	2.0	3.0	4.5
CORRECTION FACTOR	0.82	1.00	1.15	1.41

Example: EX6 provides 1 ton at 2.0 psid pressure drop with R-404A: 4 psi pressure drop.

R-404A / R-507 EXTENDED CAPACITIES (TONS) - EX6-8 SERIES, SUCTION PRESSURE REGULATOR DUTY

VALVE TYPE	CONDENSING TEMPERATURE °F	EVAPORATING TEMPERATURE °F									
		50	40	30	20	10	0	-10	-20	-30	-40
EX6	140	1	1	1	0	0	0	0	0	0	0
EX7		3	2	2	2	2	1	1	1	1	1
EX8		8	7	6	5	5	4	3	3	2	2
EX6	130	1	1	1	1	1	0	0	0	0	0
EX7		3	3	2	2	2	2	1	1	1	1
EX8		9	8	7	6	5	5	4	3	3	2
EX6	120	1	1	1	1	1	0	0	0	0	0
EX7		3	3	3	2	2	2	1	1	1	1
EX8		10	9	8	7	6	5	4	4	3	3
EX6	110	1	1	1	1	1	1	0	0	0	0
EX7		4	3	3	2	2	2	2	1	1	1
EX8		11	10	9	8	7	6	5	4	4	3
EX6	100	1	1	1	1	1	1	1	0	0	0
EX7		4	3	3	3	2	2	2	2	1	1
EX8		12	11	9	8	7	6	5	5	4	3