

BALANCED PORTED VALVE CAPACITY TABLES

R-12 BALANCED PORTED

TXV EXTENDED CAPACITY TABLES

R-12 BALANCED PORTED VALVES (TONS) B / HF / TRAE / T SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
BA/BN	1/4	0.30	0.35	0.39	0.43	0.47	0.51	0.30	0.35	0.39	0.43	0.47	0.51	0.28	0.32	0.36	0.40	0.44	0.48
BA/BN	1/2	0.57	0.66	0.74	0.82	0.90	0.97	0.56	0.65	0.72	0.81	0.89	0.96	0.54	0.62	0.70	0.78	0.85	0.92
BA/BN	1	0.90	1.04	1.16	1.30	1.42	1.54	0.88	1.02	1.14	1.27	1.39	1.50	0.84	0.97	1.08	1.21	1.33	1.43
BA/BN	1-1/4	1.20	1.39	1.55	1.73	1.90	2.05	1.17	1.35	1.51	1.69	1.85	2.00	1.13	1.30	1.46	1.63	1.79	1.93
BA/BN	1-1/2	1.51	1.74	1.95	2.18	2.39	2.58	1.48	1.71	1.91	2.14	2.34	2.53	1.42	1.64	1.83	2.05	2.25	2.43
BA/BN	2	1.83	2.11	2.36	2.64	2.89	3.13	1.80	2.08	2.32	2.60	2.85	3.07	1.72	1.99	2.22	2.48	2.72	2.94
BA/BN	2-1/2	2.37	2.74	3.06	3.42	3.75	4.05	2.33	2.69	3.01	3.36	3.68	3.98	2.23	2.57	2.88	3.22	3.53	3.81
BA/BN	3	3.00	3.46	3.87	4.33	4.74	5.12	2.94	3.39	3.80	4.24	4.65	5.02	2.82	3.26	3.64	4.07	4.46	4.82
BA/BN	3-1/2	3.73	4.31	4.82	5.38	5.90	6.37	3.66	4.23	4.73	5.28	5.79	6.25	3.51	4.05	4.53	5.07	5.55	5.99
HF	1/8	0.17	0.20	0.22	0.25	0.27	0.29	0.17	0.20	0.22	0.25	0.27	0.29	0.16	0.18	0.21	0.23	0.25	0.27
HF	1/4	0.32	0.37	0.41	0.46	0.51	0.55	0.31	0.36	0.40	0.45	0.49	0.53	0.30	0.35	0.39	0.43	0.47	0.51
HF	1/2	0.57	0.66	0.74	0.82	0.90	0.97	0.56	0.65	0.72	0.81	0.89	0.96	0.54	0.62	0.70	0.78	0.85	0.92
HF	1	0.88	1.02	1.14	1.27	1.39	1.50	0.86	0.99	1.11	1.24	1.36	1.47	0.82	0.95	1.06	1.18	1.30	1.40
HF	1-1/4	1.18	1.36	1.52	1.70	1.87	2.02	1.16	1.34	1.50	1.67	1.83	1.98	1.11	1.28	1.43	1.60	1.76	1.90
HF	1-1/2	1.51	1.74	1.95	2.18	2.39	2.58	1.48	1.71	1.91	2.14	2.34	2.53	1.42	1.64	1.83	2.05	2.25	2.43
HF	2	2.00	2.31	2.58	2.89	3.16	3.42	1.96	2.26	2.53	2.83	3.10	3.35	1.88	2.17	2.43	2.71	2.97	3.21
HF	3-1/2	3.55	4.10	4.58	5.12	5.61	6.06	3.48	4.02	4.49	5.02	5.50	5.94	3.34	3.86	4.31	4.82	5.28	5.70
HF	5	4.94	5.70	6.38	7.13	7.81	8.44	4.85	5.60	6.26	7.00	7.67	8.28	4.65	5.37	6.00	6.71	7.35	7.94
HF	6	6.26	7.23	8.08	9.04	9.90	10.69	6.13	7.08	7.91	8.85	9.69	10.47	5.88	6.79	7.59	8.49	9.30	10.04
HF	9	9.28	10.72	11.98	13.39	14.67	15.85	9.10	10.51	11.75	13.13	14.39	15.54	8.73	10.08	11.27	12.60	13.80	14.91
HF	12	12.22	14.11	15.78	17.64	19.32	20.87	11.98	13.83	15.47	17.29	18.94	20.46	11.49	13.27	14.83	16.58	18.17	19.62
TRAE+	7-1/2	7.14	8.24	9.22	10.31	11.29	12.19	7.00	8.08	9.04	10.10	11.07	11.95	6.71	7.75	8.66	9.69	10.61	11.46
TRAE+	10	10.41	12.02	13.44	15.03	16.46	17.78	10.20	11.78	13.17	14.72	16.13	17.42	9.78	11.29	12.63	14.12	15.46	16.70
TRAE+	12	11.62	13.42	15.00	16.77	18.37	19.84	11.39	13.15	14.70	16.44	18.01	19.45	10.92	12.61	14.10	15.76	17.27	18.65
TRAE+	18	17.61	20.33	22.73	25.42	27.84	30.07	17.26	19.93	22.28	24.91	27.29	29.48	16.55	19.11	21.37	23.89	26.17	28.26
TRAE+	25	24.20	27.94	31.24	34.93	38.26	41.33	23.73	27.40	30.64	34.25	37.52	40.53	22.75	26.27	29.37	32.84	35.97	38.85
TRAE	30	32.67	37.72	42.18	47.16	51.66	55.79	32.03	36.99	41.35	46.23	50.64	54.70	30.72	35.47	39.66	44.34	48.57	52.46
TRAE	35	35.64	41.15	46.01	51.44	56.35	60.87	34.94	40.35	45.11	50.43	55.24	59.67	33.51	38.69	43.26	48.37	52.98	57.23
TRAE	40	42.41	48.97	54.75	61.21	67.06	72.43	41.58	48.01	53.68	60.02	65.74	71.01	39.88	46.05	51.48	57.56	63.06	68.11
TJR	8	8.89	10.27	11.48	12.83	14.06	15.18	8.72	10.07	11.26	12.59	13.79	14.89	8.36	9.65	10.79	12.07	13.22	14.28
TJR	11	10.65	12.30	13.75	15.37	16.84	18.19	10.44	12.06	13.48	15.07	16.51	17.83	10.01	11.56	12.92	14.45	15.83	17.10
TER	13	13.31	15.37	17.18	19.21	21.04	22.73	13.05	15.07	16.85	18.84	20.63	22.29	12.51	14.45	16.15	18.06	19.78	21.36
TER	15	15.73	18.16	20.31	22.70	24.87	26.86	15.42	17.81	19.91	22.26	24.38	26.33	14.79	17.08	19.09	21.35	23.39	25.26
TER	20	21.18	24.46	27.34	30.57	33.49	36.17	20.76	23.97	26.80	29.96	32.82	35.45	19.91	22.99	25.70	28.74	31.48	34.00
TER	25	27.23	31.44	35.15	39.30	43.05	46.50	26.69	30.82	34.46	38.52	42.20	45.58	25.60	29.56	33.05	36.95	40.48	43.72
TIR	35	31.29	36.13	40.40	45.16	49.47	53.44	23.63	27.29	30.51	34.11	37.36	40.36	31.29	36.13	40.40	45.16	49.47	53.44
THR	45	42.35	48.90	54.67	61.13	66.96	72.33	41.52	47.94	53.60	59.93	65.65	70.91	39.82	45.98	51.41	57.48	62.96	68.01
THR	55	51.43	59.39	66.40	74.23	81.32	87.83	50.42	58.22	65.09	72.78	79.72	86.11	48.35	55.83	62.42	69.79	76.45	82.57
TMR	55	60.50	69.86	78.11	87.32	95.66	103.32	59.32	68.50	76.58	85.62	93.79	101.31	56.89	65.69	73.44	82.11	89.95	97.16

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 60 PSI pressure drop across the TXV per ARI 750-2001.



Capacity
Tables (kW)

R-12 BALANCED PORTED VALVES (TONS) B / HF / TRAE / T SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
BA/BN	1/4	0.25	0.29	0.32	0.36	0.40	0.43	0.20	0.22	0.25	0.27	0.30	0.32	0.13	0.15	0.16	0.18	0.19	0.21
BA/BN	1/2	0.48	0.55	0.62	0.69	0.76	0.82	0.38	0.42	0.48	0.52	0.56	0.60	0.24	0.27	0.30	0.33	0.35	0.38
BA/BN	1	0.75	0.87	0.97	1.08	1.19	1.28	0.58	0.65	0.73	0.79	0.86	0.92	0.38	0.42	0.48	0.52	0.56	0.60
BA/BN	1-1/4	1.00	1.15	1.29	1.44	1.58	1.71	0.78	0.87	0.98	1.07	1.15	1.23	0.51	0.57	0.64	0.70	0.75	0.81
BA/BN	1-1/2	1.26	1.45	1.63	1.82	1.99	2.15	0.99	1.11	1.24	1.36	1.46	1.57	0.64	0.72	0.80	0.88	0.95	1.01
BA/BN	2	1.53	1.77	1.98	2.21	2.42	2.61	1.20	1.34	1.50	1.64	1.77	1.90	0.78	0.87	0.98	1.07	1.15	1.23
BA/BN	2-1/2	1.98	2.29	2.56	2.86	3.13	3.38	1.55	1.73	1.94	2.12	2.29	2.45	1.01	1.13	1.26	1.38	1.49	1.60
BA/BN	3	2.50	2.89	3.23	3.61	3.95	4.27	1.96	2.19	2.45	2.68	2.90	3.10	1.27	1.42	1.59	1.74	1.88	2.01
BA/BN	3-1/2	3.11	3.59	4.01	4.49	4.92	5.31	2.44	2.73	3.05	3.34	3.61	3.86	1.58	1.77	1.98	2.16	2.34	2.50
HF	1/8	0.14	0.16	0.18	0.20	0.22	0.24	0.11	0.12	0.14	0.15	0.16	0.17	0.07	0.08	0.09	0.10	0.10	0.11
HF	1/4	0.27	0.31	0.35	0.39	0.43	0.46	0.21	0.23	0.26	0.29	0.31	0.33	0.14	0.16	0.18	0.19	0.21	0.22
HF	1/2	0.48	0.55	0.62	0.69	0.76	0.82	0.38	0.42	0.48	0.52	0.56	0.60	0.24	0.27	0.30	0.33	0.35	0.38
HF	1	0.73	0.84	0.94	1.05	1.15	1.25	0.57	0.64	0.71	0.78	0.84	0.90	0.37	0.41	0.46	0.51	0.55	0.59
HF	1-1/4	0.98	1.13	1.27	1.41	1.55	1.67	0.77	0.86	0.96	1.05	1.14	1.22	0.50	0.56	0.63	0.68	0.74	0.79

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 60 PSI pressure drop across the TXV per ARI 750-2001.

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-12	1.60	1.54	1.48	1.42	1.36	1.30	1.24	1.18	1.12	1.06	1.00	0.94	0.88	0.82	0.75

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-22 BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.05	0.05	0.06	0.07	0.07	0.08	0.05	0.05	0.06	0.07	0.07	0.08	0.05	0.05	0.06	0.07	0.07	0.08
NXT-R	1/5	0.12	0.14	0.15	0.17	0.19	0.2	0.12	0.13	0.15	0.17	0.18	0.2	0.11	0.13	0.15	0.16	0.18	0.19
NXT-R	1/4	0.31	0.35	0.39	0.44	0.48	0.52	0.3	0.35	0.39	0.44	0.48	0.52	0.29	0.34	0.38	0.42	0.47	0.5
NXT-R	1/2	0.51	0.59	0.66	0.74	0.81	0.87	0.5	0.58	0.65	0.73	0.8	0.86	0.49	0.57	0.63	0.71	0.78	0.84
NXT-R	1	0.68	0.79	0.88	0.98	1.08	1.16	0.67	0.78	0.87	0.97	1.07	1.15	0.66	0.76	0.85	0.95	1.04	1.12
NXT-R	1 1/2	1.22	1.41	1.58	1.76	1.93	2.09	1.21	1.4	1.56	1.74	1.91	2.06	1.18	1.36	1.52	1.7	1.86	2.01
NXT-R	2	1.63	1.88	2.1	2.35	2.58	2.78	1.61	1.86	2.08	2.33	2.55	2.75	1.57	1.81	2.03	2.27	2.48	2.68
NXT-R	2 1/2	2.17	2.51	2.8	3.13	3.43	3.71	2.15	2.48	2.77	3.1	3.39	3.66	2.09	2.41	2.7	3.02	3.3	3.57
NXT-R	3	2.43	2.81	3.14	3.51	3.84	4.15	2.4	2.77	3.1	3.47	3.8	4.1	2.34	2.7	3.02	3.38	3.7	3.99
NXT-R	4	3.17	3.66	4.09	4.57	5.01	5.41	3.13	3.61	4.04	4.52	4.95	5.34	3.05	3.52	3.94	4.4	4.82	5.21
NXT-R	5	3.96	4.57	5.11	5.71	6.26	6.76	3.91	4.52	5.05	5.65	6.18	6.68	3.81	4.4	4.92	5.5	6.02	6.51
NXT-R	6	4.28	4.94	5.52	6.18	6.77	7.31	4.23	4.88	5.46	6.1	6.69	7.22	4.12	4.76	5.32	5.95	6.51	7.04
NXT-R	8	6.14	7.1	7.93	8.87	9.72	10.49	6.07	7.01	7.84	8.76	9.6	10.37	5.92	6.83	7.64	8.54	9.35	10.1
BA/BN	1/2	0.39	0.45	0.5	0.56	0.62	0.67	0.39	0.45	0.5	0.56	0.61	0.66	0.38	0.44	0.49	0.55	0.6	0.65
BA/BN	1	0.75	0.87	0.97	1.08	1.19	1.28	0.74	0.85	0.95	1.06	1.16	1.26	0.72	0.83	0.93	1.04	1.14	1.23
BA/BN	1-1/2	1.16	1.34	1.5	1.67	1.83	1.98	1.15	1.32	1.48	1.65	1.81	1.96	1.12	1.29	1.45	1.62	1.77	1.91
BA/BN	2	1.56	1.8	2.01	2.25	2.47	2.66	1.53	1.77	1.98	2.21	2.42	2.62	1.5	1.73	1.94	2.17	2.37	2.56
BA/BN	2-1/2	1.96	2.26	2.53	2.83	3.1	3.35	1.94	2.24	2.5	2.8	3.06	3.31	1.89	2.18	2.44	2.73	2.99	3.23
BA/BN	3	2.38	2.75	3.07	3.44	3.76	4.06	2.35	2.71	3.03	3.39	3.71	4.01	2.29	2.64	2.96	3.31	3.62	3.91
BA/BN	4	3.08	3.56	3.98	4.45	4.87	5.26	3.04	3.51	3.92	4.38	4.8	5.19	2.97	3.43	3.83	4.29	4.7	5.07
BA/BN	5	3.9	4.5	5.03	5.63	6.17	6.66	3.85	4.45	4.97	5.56	6.09	6.57	3.75	4.33	4.84	5.41	5.93	6.4
BA/BN	6	4.85	5.6	6.26	7	7.67	8.28	4.78	5.52	6.17	6.9	7.56	8.16	4.67	5.39	6.03	6.74	7.38	7.98
HF	1/4	0.22	0.25	0.28	0.32	0.35	0.38	0.22	0.25	0.28	0.31	0.34	0.37	0.21	0.24	0.27	0.3	0.33	0.36
HF	1/2	0.42	0.48	0.54	0.61	0.66	0.72	0.41	0.47	0.53	0.59	0.65	0.7	0.4	0.46	0.52	0.58	0.63	0.68
HF	1	0.75	0.87	0.97	1.08	1.19	1.28	0.74	0.85	0.95	1.06	1.16	1.26	0.72	0.83	0.93	1.04	1.14	1.23
HF	1-1/2	1.14	1.32	1.47	1.65	1.8	1.95	1.12	1.3	1.45	1.62	1.78	1.92	1.1	1.27	1.42	1.59	1.74	1.88
HF	2	1.53	1.77	1.98	2.21	2.42	2.61	1.52	1.75	1.96	2.19	2.4	2.59	1.48	1.71	1.91	2.14	2.34	2.53
HF	2-1/2	1.96	2.26	2.53	2.83	3.1	3.35	1.94	2.25	2.51	2.81	3.07	3.32	1.89	2.18	2.44	2.73	2.99	3.23
HF	3	2.59	2.99	3.34	3.74	4.1	4.42	2.56	2.96	3.31	3.7	4.05	4.38	2.5	2.89	3.23	3.61	3.95	4.27
HF	5-1/2	4.61	5.32	5.95	6.65	7.29	7.87	4.56	5.27	5.89	6.59	7.21	7.79	4.44	5.13	5.73	6.41	7.02	7.58
HF	8	6.42	7.41	8.29	9.27	10.15	10.96	6.34	7.33	8.19	9.16	10.03	10.83	6.18	7.14	7.98	8.92	9.77	10.55
HF	10	8.13	9.39	10.5	11.73	12.85	13.88	8.06	9.3	10.4	11.63	12.74	13.76	7.83	9.04	10.11	11.3	12.38	13.37
HF	15	12.05	13.91	15.56	17.39	19.05	20.58	11.91	13.77	15.4	17.22	18.86	20.37	11.61	13.41	14.99	16.76	18.36	19.83
HF	20	15.87	18.33	20.49	22.91	25.09	27.1	15.68	18.07	20.2	22.58	24.74	26.72	15.28	17.64	19.73	22.05	24.16	26.1
TFE	8	6.3	7.27	8.13	9.09	9.96	10.76	6.23	7.19	8.04	8.99	9.85	10.64	6.07	7.01	7.84	8.76	9.6	10.37
TFE	10	8.63	9.97	11.14	12.46	13.65	14.74	8.53	9.85	11.01	12.31	13.48	14.56	8.31	9.6	10.73	11.99	13.14	14.19
TFE	12	10.71	12.37	13.83	15.46	16.93	18.29	10.59	12.23	13.67	15.28	16.74	18.08	10.32	11.92	13.32	14.9	16.32	17.62
TFE	20	16.35	18.88	21.11	23.6	25.85	27.92	16.17	18.67	20.87	23.33	25.56	27.61	15.75	18.19	20.33	22.73	24.9	26.9
TRAE+	10	9.27	10.7	11.97	13.38	14.66	15.83	9.16	10.58	11.83	13.23	14.49	15.65	8.93	10.31	11.53	12.89	14.12	15.25
TRAE+	15	13.52	15.61	17.45	19.51	21.38	23.09	13.36	15.43	17.25	19.29	21.13	22.82	13.02	15.03	16.81	18.79	20.59	22.24
TRAE+	20	15.09	17.42	19.48	21.78	23.86	25.77	14.91	17.22	19.25	21.52	23.58	25.47	14.53	16.78	18.76	20.97	22.97	24.81
TRAE+	30	22.87	26.41	29.53	33.01	36.16	39.06	22.6	26.1	29.18	32.62	35.74	38.6	22.02	25.43	28.43	31.78	34.82	37.61
TRAE+	40	31.43	36.29	40.58	45.37	49.7	53.68	31.07	35.88	40.11	44.84	49.12	53.06	30.27	34.95	39.08	43.69	47.86	51.7
TRAE	50	42.43	48.99	54.78	61.24	67.09	72.46	41.94	48.42	54.14	60.53	66.31	71.62	40.87	47.19	52.76	58.99	64.62	69.8
TRAE	60	46.28	53.44	59.75	66.8	73.18	79.04	45.75	52.82	59.06	66.03	72.33	78.13	44.58	51.48	57.55	64.35	70.49	76.13
TRAE	70	55.09	63.61	71.12	79.52	87.1	94.08	54.45	62.87	70.29	78.59	86.09	92.98	53.06	61.27	68.5	76.59	83.9	90.62
TJR	14	11.55	13.34	14.91	16.67	18.26	19.73	11.42	13.18	14.74	16.48	18.05	19.5	11.13	12.85	14.37	16.06	17.6	19.01
TJR	18	13.83	15.97	17.85	19.96	21.87	23.62	13.67	15.79	17.65	19.73	21.62	23.35	13.32	15.38	17.2	19.23	21.06	22.75
TER	22	17.29	19.96	22.32	24.96	27.34	29.53	17.09	19.73	22.06	24.66	27.02	29.18	16.65	19.23	21.5	24.03	26.33	28.44
TER	26	20.43	23.59	26.38	29.49	32.3	34.89	20.19	23.32	26.07	29.15	31.93	34.49	19.68	22.72	25.41	28.41	31.12	33.61
TER	35	27.5	31.75	35.5	39.69	43.48	46.97	27.18	31.39	35.09	39.23	42.98	46.42	26.49	30.59	34.2	38.24	41.88	45.24
TER	45	35.36	40.83	45.65	51.04	55.91	60.39	34.95	40.36	45.12	50.45	55.26	59.69	34.06	39.33	43.97	49.16	53.85	58.17
TIR	55	43.22	49.91	55.8	62.38	68.34	73.81	42.72	49.33	55.15	61.66	67.54	72.96	41.63	48.07	53.74	60.09	65.82	71.1
THR	75	55.01	63.52	71.02	79.4	86.98	93.95	54.37	62.78	70.19	78.47	85.96	92.85	52.98	61.18	68.4	76.47	83.77	90.48
THR	85	66.79	77.12	86.23	96.4	105.6	114.07	66.02	76.23	85.23	95.29	104.39	112.75	64.33	74.28	83.05	92.85	101.71	109.86
TMR	100	78.58	90.74	101.45	113.42	124.25	134.2	77.67	89.68	100.27	112.11	122.81	132.64	75.69	87.4	97.72	109.25	119.68	129.27

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 60 PSI pressure drop across the TXV per ARI 750-2001.

R-22 BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES (CONT.)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/10	0.04	0.05	0.05	0.06	0.06	0.07	0.03	0.04	0.04	0.04	0.05	0.05	0.02	0.02	0.03	0.03	0.03	0.03
NXT-R	1/5	0.1	0.12	0.13	0.15	0.16	0.17	0.08	0.09	0.1	0.11	0.12	0.13	0.05	0.06	0.07	0.07	0.08	0.09
NXT-R	1/4	0.26	0.31	0.34	0.38	0.42	0.45	0.21	0.24	0.26	0.29	0.31	0.33	0.14	0.16	0.18	0.19	0.21	0.22
NXT-R	1/2	0.44	0.51	0.57	0.64	0.7	0.75	0.35	0.39	0.44	0.48	0.52	0.56	0.23	0.26	0.29	0.32	0.35	0.37
NXT-R	1	0.59	0.68	0.76	0.85	0.93	1.01	0.47	0.53	0.59	0.65	0.7	0.75	0.31	0.35	0.39	0.43	0.46	0.5
NXT-R	1 1/2	1.06	1.22	1.37	1.53	1.67	1.81	0.85	0.95	1.06	1.16	1.25	1.34	0.56	0.63	0.7	0.77	0.83	0.89
NXT-R	2	1.41	1.63	1.82	2.04	2.23	2.41	1.13	1.26	1.41	1.55	1.67	1.79	0.75	0.84	0.94	1.03	1.11	1.19
NXT-R	2 1/2	1.88	2.17	2.43	2.71	2.97	3.21	1.5	1.68	1.88	2.06	2.22	2.38	1	1.12	1.25	1.37	1.48	1.58
NXT-R	3	2.1	2.43	2.72	3.04	3.33	3.59	1.68	1.88	2.1	2.31	2.49	2.66	1.12	1.25	1.4	1.53	1.65	1.77
NXT-R	4	2.74	3.16	3.54	3.96	4.33	4.68	2.19	2.45	2.74	3	3.24	3.47	1.46	1.63	1.82	1.99	2.15	2.3
NXT-R	5	3.43	3.96	4.42	4.95	5.42	5.85	2.74	3.07	3.43	3.76	4.06	4.34	1.82	2.04	2.28	2.49	2.69	2.88
NXT-R	6	3.7	4.28	4.78	5.35	5.86	6.33	2.96	3.31	3.71	4.06	4.39	4.69	1.97	2.2	2.46	2.69	2.91	3.11
NXT-R	8	5.32	6.14	6.87	7.68	8.41	9.08	4.26	4.76	5.32	5.83	6.3	6.73	2.83	3.16	3.53	3.87	4.18	4.47
HF	2	1.34	1.55	1.73	1.93	2.12	2.29	1.07	1.20	1.34	1.47	1.58	1.69	0.70	0.78	0.88	0.96	1.04	1.11
HF	2-1/2	1.72	1.99	2.22	2.48	2.72	2.94	1.37	1.53	1.71	1.88	2.03	2.17	0.90	1.01	1.13	1.23	1.33	1.42
HF	3	2.26	2.61	2.92	3.26	3.57	3.86	1.81	2.02	2.26	2.48	2.68	2.86	1.19	1.33	1.49	1.63	1.76	1.88
HF	5-1/2	4.03	4.65	5.20	5.82	6.37	6.88	3.22	3.60	4.03	4.41	4.76	5.09	2.12	2.37	2.65	2.90	3.14	3.35
HF	8	5.61	6.48	7.24	8.10	8.87	9.58	4.48	5.01	5.60	6.13	6.63	7.08	2.95	3.30	3.69	4.04	4.36	4.66
HF	10	7.10	8.20	9.17	10.25	11.23	12.13	5.67	6.34	7.09	7.76	8.39	8.97	3.73	4.17	4.66	5.11	5.52	5.90
HF	15	10.53	12.16	13.59	15.20	16.65	17.98	8.40	9.39	10.50	11.50	12.42	13.28	5.53	6.18	6.91	7.57	8.18	8.74
HF	20	13.86	16.00	17.89	20.01	21.91	23.67	11.06	12.37	13.83	15.14	16.36	17.49	7.28	8.14	9.10	9.97	10.77	11.51
TFE	8	5.50	6.35	7.10	7.94	8.70	9.39	4.39	4.91	5.49	6.01	6.49	6.94	2.89	3.23	3.61	3.96	4.27	4.57
TFE	10	7.54	8.71	9.73	10.88	11.92	12.88	6.02	6.73	7.53	8.24	8.90	9.52	3.96	4.43	4.95	5.42	5.86	6.26
TFE	12	9.35	10.80	12.07	13.50	14.78	15.97	7.47	8.35	9.34	10.23	11.05	11.81	4.92	5.50	6.15	6.74	7.28	7.78
TFE	20	14.28	16.49	18.44	20.61	22.58	24.39	11.40	12.75	14.25	15.61	16.86	18.02	7.51	8.40	9.39	10.28	11.11	11.87
TRAE+	10	8.10	9.35	10.46	11.69	12.81	13.83	6.47	7.23	8.09	8.86	9.57	10.23	4.26	4.76	5.33	5.83	6.30	6.74
TRAE+	15	11.80	13.63	15.23	17.03	18.66	20.15	9.42	10.53	11.78	12.90	13.93	14.89	6.21	6.94	7.76	8.50	9.18	9.82
TRAE+	20	13.18	15.22	17.02	19.02	20.84	22.51	10.52	11.76	13.15	14.41	15.56	16.63	6.93	7.75	8.66	9.49	10.25	10.96
TRAE+	30	19.97	23.06	25.78	28.82	31.58	34.11	15.94	17.82	19.93	21.83	23.58	25.20	10.50	11.74	13.13	14.38	15.53	16.60
TRAE+	40	27.45	31.70	35.44	39.62	43.40	46.88	21.92	24.51	27.40	30.02	32.42	34.66	14.43	16.13	18.04	19.76	21.34	22.82
TRAE	50	37.06	42.79	47.84	53.49	58.60	63.29	29.59	33.08	36.99	40.52	43.76	46.79	19.48	21.78	24.35	26.67	28.81	30.80
TRAE	60	40.42	46.67	52.18	58.34	63.91	69.03	32.27	36.08	40.34	44.19	47.73	51.02	21.25	23.76	26.56	29.10	31.43	33.60
TRAE	70	48.11	55.55	62.11	69.44	76.07	82.16	38.41	42.94	48.01	52.60	56.81	60.73	25.29	28.28	31.61	34.63	37.40	39.99
TJR	14	10.09	11.65	13.03	14.56	15.95	17.23	8.05	9.00	10.06	11.02	11.91	12.73	5.30	5.93	6.63	7.26	7.84	8.38
TJR	18	12.08	13.95	15.60	17.44	19.10	20.63	9.64	10.78	12.05	13.20	14.26	15.24	6.35	7.10	7.94	8.70	9.39	10.04
TER	22	15.10	17.44	19.49	21.79	23.88	25.79	12.05	13.47	15.06	16.50	17.82	19.05	7.94	8.88	9.93	10.87	11.74	12.55
TER	26	17.84	20.60	23.03	25.75	28.21	30.47	14.25	15.93	17.81	19.51	21.08	22.53	9.38	10.49	11.73	12.84	13.87	14.83
TER	35	24.02	27.74	31.01	34.67	37.98	41.02	19.18	21.44	23.98	26.26	28.37	30.33	12.63	14.12	15.79	17.29	18.68	19.97
TER	45	30.88	35.66	39.87	44.57	48.83	52.74	24.66	27.57	30.83	33.77	36.47	38.99	16.24	18.16	20.30	22.24	24.02	25.68
TIR	55	37.75	43.59	48.74	54.49	59.69	64.47	30.13	33.69	37.66	41.26	44.56	47.64	19.84	22.18	24.80	27.17	29.34	31.37
THR	75	48.04	55.47	62.02	69.34	75.96	82.04	38.35	42.88	47.94	52.51	56.72	60.64	25.26	28.24	31.58	34.59	37.36	39.94
THR	85	58.33	67.35	75.30	84.19	92.23	99.62	46.57	52.07	58.21	63.77	68.88	73.63	30.67	34.29	38.34	42.00	45.36	48.49
TMR	100	68.63	79.25	88.60	99.06	108.51	117.21	54.79	61.26	68.49	75.02	81.04	86.63	36.08	40.34	45.10	49.40	53.36	57.05

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 60 PSI pressure drop across the TXV per ARI 750-2001.

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-22	1.56	1.51	1.45	1.40	1.34	1.29	1.23	1.17	1.12	1.06	1.00	0.94	0.88	0.82	0.76

NOTE: These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an average evaporator temperature of 0°F. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-32 BALANCED PORTED VALVES (TONS) NXT SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																							
		50°F								40°F								20°F							
		PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)							
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285			
NXT Series	1/2	0.6	0.7	0.8	0.9	1.0	1.1	1.2	0.6	0.7	0.8	0.9	1.0	1.1	1.2	0.6	0.7	0.8	0.9	1.0	1.1	1.2			
	1	1.0	1.3	1.4	1.5	1.7	1.9	2.0	1.0	1.2	1.4	1.5	1.7	1.8	2.0	1.0	1.2	1.4	1.5	1.7	1.8	2.0			
	1-1/2	1.9	2.3	2.5	2.7	3.1	3.3	3.6	1.9	2.3	2.5	2.7	3.1	3.3	3.6	1.8	2.2	2.5	2.7	3.1	3.3	3.6			
	2	2.5	3.0	3.4	3.6	4.2	4.4	4.8	2.5	3.0	3.4	3.6	4.1	4.4	4.8	2.5	3.0	3.4	3.6	4.1	4.4	4.8			
	2-1/2	3.3	4.0	4.5	4.8	5.5	5.9	6.5	3.3	4.0	4.5	4.8	5.5	5.9	6.4	3.3	4.0	4.5	4.8	5.5	5.9	6.4			
	3	3.7	4.5	5.1	5.4	6.2	6.6	7.2	3.7	4.5	5.1	5.4	6.2	6.6	7.2	3.7	4.4	5.0	5.4	6.1	6.6	7.2			
	4	4.8	5.9	6.6	7.1	8.1	8.7	9.4	4.8	5.8	6.6	7.0	8.1	8.6	9.4	4.8	5.8	6.5	7.0	8.0	8.6	9.4			
	5	5.3	6.5	7.3	7.8	8.9	9.6	10.4	5.3	6.5	7.3	7.8	8.9	9.5	10.4	5.3	6.4	7.2	7.7	8.8	9.5	10.4			
	6	6.0	7.3	8.3	8.8	10.1	10.8	11.8	6.0	7.3	8.2	8.8	10.1	10.8	11.8	6.0	7.2	8.2	8.7	10.0	10.7	11.8			
	7	6.5	7.9	8.9	9.6	10.9	11.7	12.8	6.5	7.9	8.9	9.5	10.9	11.7	12.7	6.5	7.8	8.8	9.4	10.8	11.6	12.8			
	8	7.7	9.3	10.5	11.2	12.8	13.7	14.9	7.6	9.3	10.4	11.2	12.8	13.7	14.9	7.6	9.2	10.4	11.1	12.7	13.6	14.9			
	10	9.4	11.4	12.8	13.7	15.7	16.8	18.3	9.4	11.3	12.8	13.7	15.7	16.8	18.3	9.3	11.2	12.7	13.6	15.5	16.6	18.3			
	12	10.9	13.3	15.0	16.0	18.3	19.6	21.3	10.9	13.2	14.9	15.9	18.3	19.5	21.3	10.8	13.1	14.8	15.8	18.1	19.4	21.3			
	15	13.8	16.7	18.8	20.1	23.1	24.7	26.9	13.7	16.6	18.8	20.1	23.0	24.6	26.8	13.6	16.5	18.6	19.9	22.8	24.4	26.9			

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																							
		50°F								40°F								20°F							
		PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)							
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285			
NXT Series	1/2	0.6	0.7	0.8	0.9	1.0	1.1	1.2	0.6	0.7	0.8	0.9	1.0	1.0	1.1	0.4	0.5	0.6	0.6	0.7	0.8	0.9			
	1	1.0	1.2	1.4	1.5	1.7	1.8	2.0	1.0	1.2	1.4	1.4	1.7	1.8	1.9	0.7	0.9	1.0	1.1	1.2	1.3	1.4			
	1-1/2	1.8	2.2	2.5	2.7	3.0	3.3	3.5	1.8	2.2	2.4	2.6	3.0	3.2	3.5	1.3	1.6	1.8	1.9	2.2	2.3	2.4			
	2	2.4	2.9	3.3	3.5	4.1	4.3	4.7	2.4	2.9	3.3	3.5	4.0	4.3	4.6	1.7	2.1	2.4	2.6	2.9	3.1	3.3			
	2-1/2	3.2	3.9	4.4	4.7	5.4	5.8	6.3	3.2	3.9	4.3	4.6	5.3	5.7	6.2	2.3	2.8	3.2	3.4	3.9	4.2	4.4			
	3	3.6	4.4	4.9	5.3	6.1	6.5	7.1	3.6	4.3	4.9	5.2	6.0	6.4	6.9	2.6	3.2	3.6	3.8	4.4	4.7	5.0			
	4	4.7	5.7	6.4	6.9	7.9	8.4	9.2	4.6	5.6	6.3	6.8	7.8	8.3	9.0	3.4	4.1	4.7	5.0	5.7	6.1	6.6			
	5	5.2	6.3	7.1	7.6	8.7	9.3	10.2	5.1	6.2	7.0	7.5	8.6	9.2	10.0	3.8	4.6	5.1	5.5	6.3	6.7	7.3			
	6	5.9	7.1	8.1	8.6	9.9	10.6	11.5	5.8	7.0	7.9	8.5	9.7	10.4	11.3	4.3	5.2	5.8	6.2	7.1	7.6	8.3			
	7	6.4	7.7	8.7	9.3	10.7	11.4	12.4	6.3	7.6	8.6	9.2	10.5	11.2	12.2	4.6	5.6	6.3	6.7	7.7	8.2	9.0			
	8	7.5	9.1	10.2	10.9	12.5	13.4	14.6	7.4	8.9	10.1	10.7	12.3	13.2	14.3	5.4	6.5	7.4	7.9	9.0	9.7	10.6			
	10	9.2	11.1	12.5	13.4	15.3	16.4	17.9	9.0	10.9	12.3	13.2	15.1	16.1	17.6	6.6	8.0	9.0	9.7	11.1	11.8	12.8			
	12	10.7	12.9	14.6	15.6	17.9	19.1	20.8	10.5	12.7	14.3	15.3	17.6	18.8	20.5	7.7	9.3	10.5	11.2	12.9	13.8	15.0			
	15	13.4	16.3	18.4	19.6	22.5	24.1	26.2	13.2	16.0	18.1	19.3	22.1	23.7	25.8	9.7	11.7	13.3	14.2	16.2	17.4	19.0			

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evap temperature; with 160 PSI pressure drop across TXV per ARI-7.50-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F									
	50	60	70	80	90	100	110	120	130	140
R-32	1.30	1.24	1.18	1.12	1.06	1.00	0.94	0.87	0.80	0.73

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-134A BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/8	0.06	0.07	0.08	0.09	0.1	0.11	0.06	0.07	0.08	0.09	0.1	0.1	0.05	0.05	0.06	0.07	0.07	0.08
NXT-R	1/4	0.16	0.19	0.21	0.23	0.25	0.27	0.16	0.18	0.2	0.23	0.25	0.27	0.12	0.14	0.16	0.18	0.19	0.21
NXT-R	1/2	0.27	0.31	0.35	0.39	0.42	0.46	0.26	0.3	0.34	0.38	0.42	0.45	0.2	0.23	0.26	0.29	0.32	0.35
NXT-R	3/4	0.36	0.41	0.46	0.52	0.57	0.61	0.35	0.41	0.45	0.51	0.56	0.6	0.27	0.31	0.35	0.39	0.43	0.46
NXT-R	1	0.64	0.74	0.83	0.93	1.02	1.1	0.63	0.73	0.81	0.91	1	1.08	0.49	0.56	0.63	0.7	0.77	0.83
NXT-R	1 1/2	0.86	0.99	1.11	1.24	1.36	1.47	0.84	0.97	1.08	1.21	1.33	1.44	0.65	0.75	0.83	0.93	1.02	1.1
NXT-R	2	1.14	1.32	1.48	1.65	1.81	1.95	1.12	1.29	1.44	1.62	1.77	1.91	0.86	0.99	1.11	1.24	1.36	1.47
NXT-R	2 1/4	1.28	1.48	1.65	1.85	2.02	2.18	1.25	1.45	1.62	1.81	1.98	2.14	0.96	1.11	1.24	1.39	1.52	1.65
NXT-R	2 1/2	1.67	1.92	2.15	2.41	2.64	2.85	1.63	1.88	2.11	2.36	2.58	2.79	1.26	1.45	1.62	1.81	1.99	2.15
NXT-R	3	1.84	2.13	2.38	2.66	2.92	3.15	1.81	2.09	2.33	2.61	2.86	3.08	1.39	1.6	1.79	2.01	2.2	2.37
NXT-R	3 1/2	2.08	2.41	2.69	3.01	3.29	3.56	2.04	2.36	2.63	2.94	3.23	3.48	1.57	1.81	2.03	2.27	2.48	2.68
NXT-R	4	2.25	2.6	2.91	3.25	3.56	3.85	2.21	2.55	2.85	3.18	3.49	3.77	1.7	1.96	2.19	2.45	2.68	2.9
BA/BN	1/2	0.37	0.43	0.48	0.53	0.59	0.63	0.37	0.43	0.48	0.53	0.59	0.63	0.35	0.40	0.45	0.51	0.55	0.60
BA/BN	3/4	0.71	0.82	0.92	1.02	1.12	1.21	0.70	0.81	0.90	1.01	1.11	1.20	0.67	0.77	0.86	0.97	1.06	1.14
BA/BN	1	1.11	1.28	1.43	1.60	1.76	1.90	1.09	1.26	1.41	1.57	1.72	1.86	1.04	1.20	1.34	1.50	1.64	1.78
BA/BN	1-1/2	1.48	1.71	1.91	2.14	2.34	2.53	1.45	1.67	1.87	2.09	2.29	2.48	1.39	1.61	1.79	2.01	2.20	2.37
BA/BN	2	1.87	2.16	2.41	2.70	2.96	3.19	1.84	2.12	2.38	2.66	2.91	3.14	1.76	2.03	2.27	2.54	2.78	3.01
BA/BN	2-1/4	2.27	2.62	2.93	3.28	3.59	3.88	2.22	2.56	2.87	3.20	3.51	3.79	2.13	2.46	2.75	3.07	3.37	3.64
BA/BN	3	2.94	3.39	3.80	4.24	4.65	5.02	2.88	3.33	3.72	4.16	4.55	4.92	2.75	3.18	3.55	3.97	4.35	4.70
BA/BN	3-1/2	3.72	4.30	4.80	5.37	5.88	6.35	3.64	4.20	4.70	5.25	5.76	6.22	3.48	4.02	4.49	5.02	5.50	5.94
BA/BN	4-1/4	4.62	5.33	5.96	6.67	7.30	7.89	4.53	5.23	5.85	6.54	7.16	7.74	4.33	5.00	5.59	6.25	6.85	7.39
HF	1/4	0.21	0.24	0.27	0.30	0.33	0.36	0.21	0.24	0.27	0.30	0.33	0.36	0.20	0.23	0.26	0.29	0.32	0.34
HF	1/2	0.40	0.46	0.52	0.58	0.63	0.68	0.39	0.45	0.50	0.56	0.62	0.67	0.37	0.43	0.48	0.53	0.59	0.63
HF	3/4	0.71	0.82	0.92	1.02	1.12	1.21	0.70	0.81	0.90	1.01	1.11	1.20	0.67	0.77	0.86	0.97	1.06	1.14
HF	1	1.09	1.26	1.41	1.57	1.72	1.86	1.06	1.22	1.37	1.53	1.68	1.81	1.02	1.18	1.32	1.47	1.61	1.74
HF	1-1/2	1.46	1.69	1.88	2.11	2.31	2.49	1.43	1.65	1.85	2.06	2.26	2.44	1.37	1.58	1.77	1.98	2.17	2.34
HF	1-3/4	1.87	2.16	2.41	2.70	2.96	3.19	1.84	2.12	2.38	2.66	2.91	3.14	1.76	2.03	2.27	2.54	2.78	3.01
HF	2-1/2	2.47	2.85	3.19	3.57	3.91	4.22	2.42	2.79	3.12	3.49	3.83	4.13	2.32	2.68	3.00	3.35	3.67	3.96
HF	4	4.40	5.08	5.68	6.35	6.96	7.51	4.31	4.98	5.56	6.22	6.81	7.36	4.12	4.76	5.32	5.95	6.51	7.04
HF	6	6.12	7.07	7.90	8.83	9.68	10.45	6.00	6.93	7.75	8.66	9.49	10.25	5.74	6.63	7.41	8.28	9.08	9.80
HF	7-1/2	7.75	8.95	10.01	11.19	12.25	13.24	7.59	8.76	9.80	10.96	12.00	12.96	7.26	8.38	9.37	10.48	11.48	12.40
HF	11	11.50	13.28	14.85	16.60	18.18	19.64	11.26	13.00	14.54	16.25	17.80	19.23	10.77	12.44	13.90	15.55	17.03	18.39
HF	14	15.13	17.47	19.53	21.84	23.92	25.84	14.82	17.11	19.13	21.39	23.43	25.31	14.18	16.37	18.31	20.47	22.42	24.22
TFE	6	6.01	6.94	7.76	8.67	9.50	10.26	5.89	6.80	7.60	8.50	9.31	10.06	5.63	6.50	7.27	8.13	8.90	9.62
TFE	8	8.23	9.50	10.62	11.88	13.01	14.06	8.06	9.31	10.41	11.63	12.74	13.77	7.71	8.90	9.95	11.13	12.19	13.17
TFE	10	10.22	11.80	13.19	14.75	16.16	17.45	10.01	11.56	12.92	14.45	15.83	17.10	9.57	11.05	12.35	13.81	15.13	16.34
TFE	15	15.60	18.01	20.14	22.52	24.67	26.64	15.28	17.64	19.73	22.05	24.16	26.10	14.61	16.87	18.86	21.09	23.10	24.95
TRAE+	9	8.84	10.21	11.41	12.76	13.98	15.10	8.66	10.00	11.18	12.50	13.69	14.79	8.29	9.57	10.70	11.97	13.11	14.16
TRAE+	13	12.89	14.88	16.64	18.61	20.38	22.01	12.63	14.58	16.31	18.23	19.97	21.57	12.08	13.95	15.60	17.44	19.10	20.63
TRAE+	14	14.39	16.62	18.58	20.77	22.75	24.58	14.09	16.27	18.19	20.34	22.28	24.06	13.48	15.57	17.40	19.46	21.31	23.02
TRAE+	22	21.81	25.18	28.16	31.48	34.48	37.25	21.36	24.66	27.58	30.83	33.77	36.48	20.43	23.59	26.38	29.49	32.30	34.89
TRAE+	30	29.98	34.62	38.70	43.27	47.40	51.20	29.36	33.90	37.90	42.38	46.42	50.14	28.09	32.44	36.26	40.54	44.41	47.97
TRAE	40	40.48	46.74	52.26	58.43	64.00	69.13	39.64	45.77	51.18	57.22	62.68	67.70	37.92	43.79	48.95	54.73	59.96	64.76
TRAE	45	44.15	50.98	57.00	63.73	69.81	75.40	43.24	49.93	55.82	62.41	68.37	73.85	41.36	47.76	53.40	59.70	65.40	70.64
TRAE	50	52.54	60.67	67.83	75.83	83.07	89.73	51.46	59.42	66.43	74.28	81.37	87.88	49.22	56.83	63.54	71.04	77.82	84.06
TJR	11	11.02	12.72	14.23	15.91	17.42	18.82	10.79	12.46	13.93	15.57	17.06	18.43	10.32	11.92	13.32	14.90	16.32	17.62
TJR	13	13.19	15.23	17.03	19.04	20.86	22.53	12.92	14.92	16.68	18.65	20.43	22.07	12.36	14.27	15.96	17.84	19.54	21.11
TER	16	16.49	19.04	21.29	23.80	26.07	28.16	16.15	18.65	20.85	23.31	25.54	27.58	15.45	17.84	19.95	22.30	24.43	26.39
TER	19	19.49	22.51	25.16	28.13	30.82	33.29	19.09	22.04	24.65	27.55	30.18	32.60	18.26	21.08	23.57	26.36	28.87	31.18
TER	25	26.23	30.29	33.86	37.86	41.47	44.80	25.69	29.66	33.17	37.08	40.62	43.87	24.58	28.38	31.73	35.48	38.86	41.98
TER	31	33.73	38.95	43.55	48.69	53.33	57.60	33.03	38.14	42.64	47.67	52.23	56.41	31.60	36.49	40.80	45.61	49.96	53.97
TIR	45	41.23	47.61	53.23	59.51	65.19	70.41	40.37	46.62	52.12	58.27	63.83	68.94	38.62	44.59	49.86	55.74	61.06	65.96
THR	55	52.47	60.59	67.74	75.73	82.96	89.61	51.38	59.33	66.33	74.16	81.24	87.75	49.15	56.75	63.45	70.94	77.71	83.94
THR	68	63.71	73.57	82.25	91.96	100.73	108.81	62.40	72.05	80.56	90.07	98.66	106.57	59.69	68.92	77.06	86.16	94.38	101.94
TMR	68	74.95	86.54	96.76	108.18	118.51	128.00	73.41	84.77	94.77	105.96	116.07	125.37	70.22	81.08	90.65	101.35	111.03	119.92

R-134A BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES (CONT.)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/8	0.03	0.04	0.04	0.05	0.05	0.05	0.02	0.03	0.03	0.03	0.03	0.04	0.01	0.02	0.02	0.02	0.02	0.02
NXT-R	1/4	0.08	0.09	0.11	0.12	0.13	0.14	0.06	0.07	0.08	0.08	0.09	0.1	0.04	0.04	0.05	0.05	0.06	0.06
NXT-R	1/2	0.14	0.16	0.18	0.2	0.22	0.23	0.1	0.11	0.13	0.14	0.15	0.16	0.06	0.07	0.08	0.09	0.09	0.1
NXT-R	3/4	0.18	0.21	0.24	0.26	0.29	0.31	0.14	0.15	0.17	0.19	0.2	0.22	0.08	0.09	0.1	0.11	0.12	0.13
NXT-R	1	0.33	0.38	0.42	0.47	0.52	0.56	0.25	0.27	0.31	0.34	0.36	0.39	0.15	0.17	0.19	0.21	0.22	0.24
NXT-R	1 1/2	0.44	0.51	0.56	0.63	0.69	0.75	0.33	0.37	0.41	0.45	0.48	0.52	0.2	0.22	0.25	0.27	0.3	0.32
NXT-R	2	0.58	0.67	0.75	0.84	0.92	1	0.44	0.49	0.54	0.6	0.64	0.69	0.27	0.3	0.33	0.37	0.4	0.42
NXT-R	2 1/4	0.65	0.75	0.84	0.94	1.03	1.11	0.49	0.54	0.61	0.67	0.72	0.77	0.3	0.33	0.37	0.41	0.44	0.47
NXT-R	2 1/2	0.85	0.98	1.1	1.23	1.34	1.45	0.63	0.71	0.79	0.87	0.94	1	0.39	0.44	0.49	0.53	0.58	0.62
NXT-R	3	0.94	1.09	1.21	1.36	1.49	1.61	0.7	0.79	0.88	0.96	1.04	1.11	0.43	0.48	0.54	0.59	0.64	0.68
NXT-R	3 1/2	1.06	1.23	1.37	1.53	1.68	1.81	0.79	0.89	0.99	1.09	1.17	1.25	0.49	0.54	0.61	0.67	0.72	0.77
NXT-R	4	1.15	1.33	1.48	1.66	1.82	1.96	0.86	0.96	1.07	1.17	1.27	1.36	0.53	0.59	0.66	0.72	0.78	0.83
BA/BN	1/2	0.29	0.33	0.37	0.42	0.46	0.5	0.22	0.25	0.28	0.3	0.33	0.35	0.13	0.15	0.16	0.18	0.19	0.21
BA/BN	3/4	0.55	0.64	0.71	0.79	0.87	0.94	0.41	0.46	0.51	0.56	0.61	0.65	0.25	0.28	0.31	0.34	0.37	0.4
BA/BN	1	0.86	0.99	1.11	1.24	1.36	1.47	0.64	0.72	0.8	0.88	0.95	1.01	0.39	0.44	0.49	0.53	0.58	0.62
BA/BN	1-1/2	1.14	1.32	1.47	1.65	1.8	1.95	0.85	0.95	1.06	1.16	1.26	1.34	0.52	0.58	0.65	0.71	0.77	0.82
BA/BN	2	1.44	1.66	1.86	2.08	2.28	2.46	1.08	1.21	1.35	1.48	1.6	1.71	0.66	0.74	0.83	0.9	0.98	1.04
BA/BN	2-1/4	1.75	2.02	2.26	2.53	2.77	2.99	1.31	1.46	1.64	1.79	1.94	2.07	0.8	0.89	1	1.1	1.18	1.26
BA/BN	3	2.27	2.62	2.93	3.28	3.59	3.88	1.69	1.89	2.11	2.31	2.5	2.67	1.04	1.16	1.3	1.42	1.54	1.64
BA/BN	3-1/2	2.87	3.31	3.71	4.14	4.54	4.9	2.14	2.39	2.68	2.93	3.17	3.38	1.31	1.46	1.64	1.79	1.94	2.07
BA/BN	4-1/4	3.57	4.12	4.61	5.15	5.64	6.1	2.66	2.97	3.33	3.64	3.93	4.21	1.63	1.82	2.04	2.23	2.41	2.58
HF	1/4	0.16	0.18	0.21	0.23	0.25	0.27	0.12	0.13	0.15	0.16	0.18	0.19	0.07	0.08	0.09	0.1	0.1	0.11
HF	1/2	0.31	0.36	0.4	0.45	0.49	0.53	0.23	0.26	0.29	0.31	0.34	0.36	0.14	0.16	0.18	0.19	0.21	0.22
HF	3/4	0.55	0.64	0.71	0.79	0.87	0.94	0.41	0.46	0.51	0.56	0.61	0.65	0.25	0.28	0.31	0.34	0.37	0.4
HF	1	0.84	0.97	1.08	1.21	1.33	1.43	0.63	0.7	0.79	0.86	0.93	1	0.38	0.42	0.48	0.52	0.56	0.6
HF	1-1/2	1.13	1.3	1.46	1.63	1.79	1.93	0.84	0.94	1.05	1.15	1.24	1.33	0.52	0.58	0.65	0.71	0.77	0.82
HF	1-3/4	1.44	1.66	1.86	2.08	2.28	2.46	1.08	1.21	1.35	1.48	1.6	1.71	0.66	0.74	0.83	0.9	0.98	1.04
HF	2-1/2	1.91	2.21	2.47	2.76	3.02	3.26	1.42	1.59	1.78	1.94	2.1	2.25	0.87	0.97	1.09	1.19	1.29	1.38
HF	4	3.39	3.91	4.38	4.89	5.36	5.79	2.53	2.83	3.16	3.46	3.74	4	1.55	1.73	1.94	2.12	2.29	2.45
HF	6	4.72	5.45	6.09	6.81	7.46	8.06	3.52	3.94	4.4	4.82	5.21	5.57	2.16	2.41	2.7	2.96	3.19	3.42
HF	7-1/2	5.98	6.91	7.72	8.63	9.46	10.21	4.46	4.99	5.58	6.11	6.6	7.05	2.74	3.06	3.43	3.75	4.05	4.33
HF	11	8.87	10.24	11.45	12.8	14.02	15.15	6.62	7.4	8.28	9.06	9.79	10.47	4.06	4.54	5.08	5.56	6	6.42
HF	14	11.67	13.48	15.07	16.84	18.45	19.93	8.71	9.74	10.89	11.93	12.88	13.77	5.34	5.97	6.68	7.31	7.9	8.44
TFE	6	4.64	5.36	5.99	6.7	7.34	7.92	3.46	3.87	4.33	4.74	5.12	5.47	2.12	2.37	2.65	2.9	3.14	3.35
TFE	8	6.35	7.33	8.2	9.17	10.04	10.84	4.74	5.3	5.93	6.49	7.01	7.49	2.91	3.25	3.64	3.98	4.3	4.6
TFE	10	7.88	9.1	10.17	11.37	12.46	13.46	5.88	6.57	7.35	8.05	8.7	9.3	3.61	4.04	4.51	4.94	5.34	5.71
TFE	15	12.03	13.89	15.53	17.36	19.02	20.55	8.97	10.03	11.21	12.28	13.27	14.18	5.51	6.16	6.89	7.54	8.15	8.71
TRAE+	9	6.82	7.88	8.8	9.84	10.78	11.65	5.09	5.69	6.36	6.97	7.53	8.05	3.12	3.49	3.9	4.27	4.61	4.93
TRAE+	13	9.94	11.48	12.83	14.35	15.72	16.98	7.42	8.3	9.28	10.16	10.97	11.73	4.55	5.09	5.69	6.23	6.73	7.19
TRAE+	14	11.1	12.82	14.33	16.02	17.55	18.96	8.28	9.26	10.35	11.34	12.25	13.09	5.08	5.68	6.35	6.96	7.51	8.03
TRAE+	22	16.82	19.42	21.71	24.28	26.59	28.73	12.55	14.03	15.69	17.18	18.56	19.84	7.7	8.61	9.63	10.54	11.39	12.17
TRAE+	30	23.12	26.7	29.85	33.37	36.56	39.48	17.25	19.29	21.56	23.62	25.51	27.27	10.59	11.84	13.24	14.5	15.66	16.74
TRAE	40	31.21	36.04	40.29	45.05	49.35	53.3	23.29	26.04	29.11	31.89	34.45	36.82	14.29	15.98	17.86	19.57	21.14	22.59
TRAE	45	34.04	39.31	43.95	49.13	53.82	58.13	25.4	28.4	31.75	34.78	37.57	40.16	15.59	17.43	19.49	21.35	23.06	24.65
TRAE	50	40.52	46.79	52.31	58.49	64.07	69.2	30.23	33.8	37.79	41.39	44.71	47.8	18.55	20.74	23.19	25.4	27.44	29.33
TJR	11	8.5	9.81	10.97	12.27	13.44	14.52	6.34	7.09	7.93	8.68	9.38	10.02	3.89	4.35	4.86	5.33	5.75	6.15
TJR	13	10.17	11.74	13.13	14.68	16.08	17.37	7.59	8.49	9.49	10.39	11.23	12	4.66	5.21	5.83	6.38	6.89	7.37
TER	16	12.72	14.69	16.42	18.36	20.11	21.72	9.49	10.61	11.86	12.99	14.04	15.01	5.82	6.51	7.28	7.97	8.61	9.2
TER	19	15.03	17.36	19.4	21.69	23.76	25.67	11.21	12.53	14.01	15.35	16.58	17.72	6.88	7.69	8.6	9.42	10.18	10.88
TER	25	20.23	23.36	26.12	29.2	31.99	34.55	15.09	16.87	18.86	20.66	22.32	23.86	9.26	10.35	11.58	12.68	13.7	14.64
TER	31	26.01	30.03	33.58	37.54	41.13	44.42	19.41	21.7	24.26	26.58	28.71	30.69	11.91	13.32	14.89	16.31	17.62	18.83

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 60 PSI pressure drop across the TXV per ARI 750-2001.

R-134A BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES (CONT.)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
TIR	45	31.79	36.71	41.04	45.88	50.26	54.29	23.72	26.52	29.65	32.48	35.08	37.5	14.56	16.28	18.2	19.94	21.53	23.02
THR	55	40.46	46.72	52.23	58.4	63.97	69.1	30.19	33.75	37.74	41.34	44.65	47.73	18.53	20.72	23.16	25.37	27.41	29.3
THR	68	49.13	56.73	63.43	70.91	77.68	83.91	36.66	40.99	45.83	50.2	54.22	57.96	22.5	25.16	28.13	30.81	33.28	35.58
TMR	68	57.8	66.74	74.62	83.43	91.39	98.71	43.12	48.21	53.9	59.04	63.78	68.18	26.47	29.59	33.09	36.25	39.15	41.85

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-134a	1.70	1.63	1.56	1.49	1.42	1.36	1.29	1.21	1.14	1.07	1.00	0.93	0.85	0.78	0.71

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-290 BALANCE PORTED VALVES (TONS) NXT-R/ B/ H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.04	0.05	0.06	0.06	0.07	0.07	0.04	0.05	0.06	0.06	0.07	0.07	0.04	0.05	0.05	0.06	0.06	0.07
NXT-R	1/5	0.11	0.13	0.14	0.16	0.17	0.19	0.11	0.12	0.14	0.15	0.17	0.18	0.1	0.12	0.13	0.15	0.16	0.17
NXT-R	1/4	0.28	0.33	0.37	0.41	0.45	0.49	0.28	0.32	0.36	0.4	0.44	0.48	0.27	0.31	0.34	0.38	0.42	0.45
NXT-R	1/2	0.47	0.55	0.61	0.68	0.75	0.81	0.46	0.54	0.6	0.67	0.73	0.79	0.44	0.51	0.57	0.64	0.7	0.76
NXT-R	1	0.63	0.73	0.82	0.92	1	1.08	0.62	0.72	0.8	0.9	0.98	1.06	0.59	0.69	0.77	0.86	0.94	1.01
NXT-R	1 1/2	1.14	1.31	1.47	1.64	1.8	1.94	1.11	1.29	1.44	1.61	1.76	1.9	1.07	1.23	1.38	1.54	1.68	1.82
NXT-R	2 1/2	1.52	1.75	1.96	2.19	2.4	2.59	1.49	1.72	1.92	2.14	2.35	2.54	1.42	1.64	1.83	2.05	2.25	2.43
NXT-R	3	2.02	2.33	2.61	2.92	3.2	3.45	1.98	2.29	2.55	2.86	3.13	3.38	1.89	2.18	2.44	2.73	2.99	3.23
NXT-R	3 1/2	2.26	2.61	2.92	3.26	3.58	3.86	2.21	2.56	2.86	3.2	3.5	3.78	2.12	2.44	2.73	3.06	3.35	3.62
NXT-R	4 1/2	2.95	3.4	3.81	4.25	4.66	5.03	2.89	3.33	3.73	4.17	4.56	4.93	2.76	3.19	3.56	3.98	4.36	4.71
NXT-R	5	3.26	3.77	4.21	4.71	5.16	5.57	3.19	3.69	4.12	4.61	5.05	5.45	3.05	3.52	3.94	4.41	4.83	5.21
NXT-R	5 3/4	3.68	4.25	4.76	5.32	5.83	6.29	3.61	4.17	4.66	5.21	5.7	6.16	3.45	3.98	4.45	4.98	5.45	5.89
BA/BN	1/2	0.36	0.42	0.47	0.53	0.58	0.62	0.36	0.41	0.46	0.52	0.56	0.61	0.34	0.39	0.44	0.49	0.54	0.58
BA/BN	3/4	0.69	0.8	0.89	1	1.1	1.18	0.68	0.78	0.88	0.98	1.07	1.16	0.65	0.75	0.84	0.94	1.03	1.11
BA/BN	1-1/4	1.08	1.25	1.39	1.56	1.71	1.84	1.06	1.22	1.36	1.53	1.67	1.81	1.01	1.17	1.3	1.46	1.6	1.73
BA/BN	1-3/4	1.44	1.67	1.87	2.09	2.28	2.47	1.41	1.63	1.83	2.04	2.24	2.42	1.35	1.56	1.75	1.95	2.14	2.31
BA/BN	2-1/4	1.82	2.11	2.35	2.63	2.88	3.12	1.79	2.06	2.31	2.58	2.82	3.05	1.71	1.97	2.2	2.46	2.7	2.92
BA/BN	2-3/4	2.21	2.55	2.85	3.19	3.5	3.78	2.16	2.5	2.79	3.12	3.42	3.7	2.07	2.39	2.67	2.99	3.27	3.53
BA/BN	3-1/2	2.86	3.3	3.69	4.13	4.52	4.88	2.8	3.23	3.62	4.04	4.43	4.78	2.68	3.09	3.46	3.86	4.23	4.57
BA/BN	4-1/2	3.63	4.19	4.68	5.23	5.73	6.19	3.55	4.1	4.58	5.12	5.61	6.06	3.39	3.92	4.38	4.9	5.37	5.8
BA/BN	5-3/4	4.5	5.2	5.81	6.5	7.12	7.69	4.41	5.09	5.69	6.36	6.97	7.53	4.21	4.87	5.44	6.08	6.66	7.2
HF	1/4	0.2	0.24	0.26	0.29	0.32	0.35	0.2	0.23	0.26	0.29	0.32	0.34	0.19	0.22	0.25	0.28	0.3	0.33
HF	1/2	0.39	0.45	0.5	0.56	0.61	0.66	0.38	0.44	0.49	0.55	0.6	0.65	0.36	0.42	0.47	0.52	0.57	0.62
HF	3/4	0.69	0.8	0.89	1	1.1	1.18	0.68	0.78	0.88	0.98	1.07	1.16	0.65	0.75	0.84	0.94	1.03	1.11
HF	1	1.06	1.22	1.37	1.53	1.67	1.81	1.04	1.2	1.34	1.5	1.64	1.77	0.99	1.14	1.28	1.43	1.57	1.69
HF	1-1/2	1.43	1.65	1.85	2.06	2.26	2.44	1.4	1.62	1.81	2.02	2.21	2.39	1.34	1.55	1.73	1.93	2.12	2.29
HF	2	1.83	2.11	2.36	2.64	2.9	3.13	1.79	2.07	2.31	2.59	2.84	3.06	1.71	1.98	2.21	2.47	2.71	2.93
HF	2-1/2	2.42	2.79	3.12	3.49	3.82	4.12	2.36	2.73	3.05	3.41	3.74	4.04	2.26	2.61	2.92	3.26	3.57	3.86
HF	4-1/2	4.3	4.96	5.55	6.2	6.8	7.34	4.21	4.86	5.43	6.07	6.65	7.19	4.02	4.64	5.19	5.81	6.36	6.87
HF	6-1/2	5.98	6.9	7.71	8.63	9.45	10.21	5.85	6.76	7.55	8.45	9.25	9.99	5.59	6.46	7.22	8.07	8.84	9.55
HF	8	7.59	8.76	9.8	10.95	12	12.96	7.43	8.58	9.59	10.72	11.75	12.69	7.1	8.2	9.17	10.25	11.23	12.13
HF	12	11.24	12.97	14.51	16.22	17.77	19.19	11	12.7	14.2	15.88	17.4	18.79	10.52	12.14	13.58	15.18	16.63	17.96
HF	16	14.74	17.02	19.03	21.27	23.3	25.17	14.43	16.66	18.63	20.83	22.82	24.65	13.79	15.93	17.81	19.91	21.81	23.56

NOTE: Standard capacity is rated at 100F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV.

R-290 BALANCE PORTED VALVES (TONS) NXT-R SERIES, B SERIES AND H SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/10	0.03	0.04	0.04	0.05	0.05	0.06	0.03	0.03	0.03	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.03	0.03
NXT-R	1/5	0.08	0.1	0.11	0.12	0.13	0.14	0.07	0.08	0.08	0.09	0.1	0.11	0.04	0.05	0.06	0.06	0.07	0.07
NXT-R	1/4	0.22	0.25	0.28	0.31	0.34	0.37	0.17	0.2	0.22	0.24	0.26	0.28	0.12	0.13	0.15	0.16	0.17	0.18
NXT-R	1/2	0.36	0.42	0.47	0.52	0.57	0.62	0.29	0.33	0.36	0.4	0.43	0.46	0.19	0.22	0.24	0.27	0.29	0.31
NXT-R	1	0.48	0.56	0.62	0.7	0.76	0.83	0.39	0.44	0.49	0.53	0.58	0.62	0.26	0.29	0.33	0.36	0.39	0.41
NXT-R	1 1/2	0.87	1	1.12	1.25	1.37	1.48	0.7	0.78	0.87	0.96	1.03	1.1	0.47	0.52	0.58	0.64	0.69	0.74
NXT-R	2 1/2	1.16	1.33	1.49	1.67	1.83	1.97	0.93	1.04	1.16	1.27	1.38	1.47	0.62	0.7	0.78	0.85	0.92	0.98
NXT-R	3	1.54	1.78	1.99	2.22	2.43	2.63	1.24	1.39	1.55	1.7	1.83	1.96	0.83	0.93	1.04	1.14	1.23	1.31
NXT-R	3 1/2	1.72	1.99	2.22	2.49	2.72	2.94	1.39	1.55	1.73	1.9	2.05	2.19	0.93	1.04	1.16	1.27	1.37	1.47
NXT-R	4 1/2	2.24	2.59	2.9	3.24	3.55	3.83	1.81	2.02	2.26	2.47	2.67	2.86	1.21	1.35	1.51	1.66	1.79	1.91
NXT-R	5	2.48	2.87	3.21	3.58	3.93	4.24	2	2.24	2.5	2.74	2.96	3.16	1.34	1.5	1.67	1.83	1.98	2.12
NXT-R	5 3/4	2.81	3.24	3.62	4.05	4.44	4.79	2.26	2.53	2.82	3.09	3.34	3.57	1.51	1.69	1.89	2.07	2.24	2.39
BA/BN	1/2	0.28	0.32	0.36	0.4	0.44	0.47	0.22	0.25	0.28	0.31	0.33	0.35	0.15	0.17	0.19	0.2	0.22	0.24
BA/BN	3/4	0.53	0.61	0.68	0.76	0.83	0.9	0.42	0.48	0.53	0.58	0.63	0.67	0.28	0.32	0.36	0.39	0.42	0.45
BA/BN	1-1/4	0.82	0.95	1.06	1.19	1.3	1.4	0.66	0.74	0.83	0.91	0.98	1.05	0.44	0.5	0.55	0.61	0.66	0.7
BA/BN	1-3/4	1.1	1.27	1.42	1.59	1.74	1.88	0.89	0.99	1.11	1.21	1.31	1.4	0.59	0.66	0.74	0.81	0.88	0.94
BA/BN	2-1/4	1.39	1.6	1.79	2	2.2	2.37	1.12	1.25	1.4	1.53	1.65	1.77	0.75	0.84	0.94	1.02	1.11	1.18
BA/BN	2-3/4	1.68	1.94	2.17	2.43	2.66	2.87	1.36	1.52	1.69	1.86	2	2.14	0.91	1.01	1.13	1.24	1.34	1.43
BA/BN	3-1/2	2.18	2.51	2.81	3.14	3.44	3.72	1.75	1.96	2.19	2.4	2.59	2.77	1.17	1.31	1.47	1.61	1.74	1.86
BA/BN	4-1/2	2.76	3.19	3.56	3.98	4.37	4.72	2.22	2.49	2.78	3.04	3.29	3.52	1.49	1.66	1.86	2.04	2.2	2.35
BA/BN	5-3/4	3.43	3.96	4.42	4.95	5.42	5.85	2.76	3.09	3.45	3.78	4.08	4.36	1.85	2.07	2.31	2.53	2.73	2.92
HF	1/4	0.16	0.18	0.2	0.22	0.25	0.27	0.13	0.14	0.16	0.17	0.19	0.2	0.08	0.09	0.1	0.11	0.12	0.13
HF	1/2	0.29	0.34	0.38	0.42	0.47	0.5	0.24	0.27	0.3	0.32	0.35	0.37	0.16	0.18	0.2	0.22	0.23	0.25
HF	3/4	0.53	0.61	0.68	0.76	0.83	0.9	0.42	0.48	0.53	0.58	0.63	0.67	0.28	0.32	0.36	0.39	0.42	0.45
HF	1	0.81	0.93	1.04	1.16	1.27	1.38	0.65	0.73	0.81	0.89	0.96	1.03	0.43	0.49	0.54	0.59	0.64	0.69
HF	1-1/2	1.09	1.26	1.41	1.57	1.72	1.86	0.88	0.98	1.1	1.2	1.3	1.39	0.59	0.66	0.73	0.8	0.87	0.93
HF	2	1.39	1.61	1.8	2.01	2.2	2.38	1.12	1.26	1.4	1.54	1.66	1.78	0.75	0.84	0.94	1.03	1.11	1.19
HF	2-1/2	1.84	2.12	2.37	2.65	2.91	3.14	1.48	1.66	1.85	2.03	2.19	2.34	0.99	1.11	1.24	1.36	1.47	1.57
HF	4-1/2	3.27	3.78	4.22	4.72	5.17	5.59	2.63	2.95	3.29	3.61	3.9	4.17	1.76	1.97	2.2	2.41	2.61	2.79
HF	6-1/2	4.55	5.25	5.87	6.57	7.19	7.77	3.66	4.1	4.58	5.02	5.42	5.79	2.45	2.74	3.07	3.36	3.63	3.88
HF	8	5.78	6.67	7.46	8.34	9.13	9.87	4.65	5.2	5.82	6.37	6.88	7.36	3.11	3.48	3.89	4.26	4.61	4.92
HF	12	8.55	9.88	11.04	12.35	13.53	14.61	6.89	7.7	8.61	9.43	10.19	10.89	4.61	5.16	5.76	6.31	6.82	7.29
HF	16	11.22	12.96	14.49	16.2	17.74	19.16	9.04	10.1	11.29	12.37	13.36	14.29	6.05	6.76	7.56	8.28	8.95	9.56

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-290	1.70	1.63	1.56	1.49	1.42	1.36	1.29	1.22	1.14	1.07	1.00	0.93	0.85	0.78	0.70

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-404A / R-507 BALANCED PORTED

TXV EXTENDED CAPACITY TABLES

R-404A/R-507 BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F					-20°F					-40°F							
		PRESSURE DROP ACROSS VALVE (PSI)					PRESSURE DROP ACROSS VALVE (PSI)					PRESSURE DROP ACROSS VALVE (PSI)							
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/8	0.08	0.1	0.11	0.12	0.13	0.14	0.08	0.09	0.11	0.12	0.13	0.14	0.08	0.09	0.1	0.11	0.12	0.13
NXT-R	1/4	0.22	0.25	0.28	0.31	0.34	0.37	0.21	0.25	0.27	0.31	0.34	0.36	0.2	0.23	0.26	0.29	0.32	0.35
NXT-R	1/2	0.36	0.42	0.47	0.52	0.57	0.62	0.35	0.41	0.46	0.51	0.56	0.61	0.34	0.39	0.43	0.49	0.53	0.58
NXT-R	3/4	0.49	0.56	0.63	0.7	0.77	0.83	0.47	0.55	0.61	0.69	0.75	0.81	0.45	0.52	0.58	0.65	0.71	0.77
NXT-R	1	0.87	1.01	1.12	1.26	1.38	1.49	0.85	0.98	1.1	1.23	1.35	1.45	0.81	0.93	1.04	1.17	1.28	1.38
NXT-R	1 1/4	1.16	1.34	1.5	1.68	1.84	1.98	1.13	1.31	1.46	1.64	1.79	1.94	1.08	1.24	1.39	1.56	1.7	1.84
NXT-R	1 1/2	1.55	1.79	2	2.23	2.44	2.64	1.51	1.74	1.95	2.18	2.39	2.58	1.44	1.66	1.85	2.07	2.27	2.45
NXT-R	2	1.73	2	2.23	2.5	2.74	2.95	1.69	1.95	2.18	2.44	2.67	2.89	1.61	1.85	2.07	2.32	2.54	2.74
NXT-R	2 1/2	2.25	2.6	2.91	3.25	3.57	3.85	2.2	2.54	2.85	3.18	3.48	3.76	2.09	2.42	2.7	3.02	3.31	3.58
NXT-R	3	2.49	2.88	3.22	3.6	3.94	4.26	2.44	2.82	3.15	3.52	3.86	4.16	2.32	2.67	2.99	3.34	3.66	3.96
NXT-R	3 1/2	3.05	3.52	3.93	4.4	4.82	5.2	2.98	3.44	3.85	4.3	4.71	5.09	2.83	3.27	3.65	4.08	4.47	4.83
NXT-R	4	3.57	4.12	4.61	5.16	5.65	6.1	3.49	4.03	4.51	5.04	5.52	5.96	3.32	3.83	4.28	4.79	5.24	5.66
NXT-R	5 1/2	4.38	5.05	5.65	6.32	6.92	7.47	4.28	4.94	5.52	6.17	6.76	7.3	4.06	4.69	5.25	5.86	6.42	6.94
BA/BN	1/4	0.29	0.33	0.37	0.42	0.46	0.5	0.28	0.32	0.36	0.4	0.44	0.48	0.27	0.31	0.35	0.39	0.43	0.46
BA/BN	1/2	0.55	0.64	0.71	0.79	0.87	0.94	0.53	0.61	0.68	0.76	0.84	0.91	0.51	0.59	0.66	0.74	0.81	0.87
BA/BN	1	0.85	0.98	1.1	1.23	1.34	1.45	0.83	0.96	1.07	1.2	1.31	1.42	0.79	0.91	1.02	1.14	1.25	1.35
BA/BN	1-1/4	1.14	1.32	1.47	1.65	1.8	1.95	1.11	1.28	1.43	1.6	1.76	1.9	1.06	1.22	1.37	1.53	1.68	1.81
BA/BN	1-1/2	1.44	1.66	1.86	2.08	2.28	2.46	1.41	1.63	1.82	2.04	2.23	2.41	1.34	1.55	1.73	1.93	2.12	2.29
BA/BN	2	1.74	2.01	2.25	2.51	2.75	2.97	1.7	1.96	2.19	2.45	2.69	2.9	1.62	1.87	2.09	2.34	2.56	2.77
BA/BN	2-1/2	2.26	2.61	2.92	3.26	3.57	3.86	2.2	2.54	2.84	3.18	3.48	3.76	2.09	2.41	2.7	3.02	3.3	3.57
BA/BN	3	2.85	3.29	3.68	4.11	4.51	4.87	2.79	3.22	3.6	4.03	4.41	4.76	2.65	3.06	3.42	3.82	4.19	4.53
BA/BN	4	3.55	4.1	4.58	5.12	5.61	6.06	3.47	4.01	4.48	5.01	5.49	5.93	3.29	3.8	4.25	4.75	5.2	5.62
HF	1/8	0.16	0.18	0.21	0.23	0.25	0.27	0.16	0.18	0.21	0.23	0.25	0.27	0.15	0.17	0.19	0.22	0.24	0.26
HF	1/4	0.31	0.36	0.4	0.45	0.49	0.53	0.3	0.35	0.39	0.43	0.47	0.51	0.28	0.32	0.36	0.4	0.44	0.48
HF	1/2	0.55	0.64	0.71	0.79	0.87	0.94	0.53	0.61	0.68	0.76	0.84	0.91	0.51	0.59	0.66	0.74	0.81	0.87
HF	1	0.83	0.96	1.07	1.2	1.31	1.42	0.82	0.95	1.06	1.18	1.3	1.4	0.77	0.89	0.99	1.11	1.22	1.32
HF	1-1/4	1.12	1.29	1.45	1.62	1.77	1.91	1.1	1.27	1.42	1.59	1.74	1.88	1.04	1.2	1.34	1.5	1.64	1.78
HF	1-1/2	1.44	1.66	1.86	2.08	2.28	2.46	1.41	1.63	1.82	2.04	2.23	2.41	1.34	1.55	1.73	1.93	2.12	2.29
HF	2	1.9	2.19	2.45	2.74	3	3.24	1.86	2.15	2.4	2.68	2.94	3.18	1.76	2.03	2.27	2.54	2.78	3.01
HF	3-1/2	3.38	3.9	4.36	4.88	5.34	5.77	3.3	3.81	4.26	4.76	5.22	5.64	3.13	3.61	4.04	4.52	4.95	5.35
HF	5	4.7	5.43	6.07	6.78	7.43	8.03	4.59	5.3	5.93	6.63	7.26	7.84	4.36	5.03	5.63	6.29	6.89	7.45
HF	7	5.95	6.87	7.68	8.59	9.41	10.16	5.81	6.71	7.5	8.39	9.19	9.92	5.52	6.37	7.13	7.97	8.73	9.43
HF	10	8.83	10.2	11.4	12.75	13.96	15.08	8.62	9.95	11.13	12.44	13.63	14.72	8.19	9.46	10.57	11.82	12.95	13.99
HF	13	11.62	13.42	15	16.77	18.37	19.84	11.35	13.11	14.65	16.38	17.95	19.38	10.78	12.45	13.92	15.56	17.04	18.41
TFE	5	4.62	5.33	5.96	6.67	7.3	7.89	4.51	5.21	5.82	6.51	7.13	7.7	4.28	4.94	5.53	6.18	6.77	7.31
TFE	7	6.32	7.3	8.16	9.12	9.99	10.79	6.17	7.12	7.97	8.91	9.76	10.54	5.86	6.77	7.57	8.46	9.27	10.01
TFE	9	7.84	9.05	10.12	11.32	12.4	13.39	7.66	8.85	9.89	11.06	12.11	13.08	7.28	8.41	9.4	10.51	11.51	12.43
TFE	14	11.98	13.83	15.47	17.29	18.94	20.46	11.7	13.51	15.1	16.89	18.5	19.98	11.11	12.83	14.34	16.04	17.57	18.97
TRAE+	8	6.79	7.84	8.77	9.8	10.74	11.6	6.63	7.66	8.56	9.57	10.48	11.32	6.3	7.27	8.13	9.09	9.96	10.76
TRAE+	12	9.9	11.43	12.78	14.29	15.65	16.91	9.67	11.17	12.48	13.96	15.29	16.51	9.19	10.61	11.86	13.26	14.53	15.69
TRAE+	14	11.05	12.76	14.27	15.95	17.47	18.87	10.79	12.46	13.93	15.57	17.06	18.43	10.25	11.84	13.23	14.79	16.21	17.51
TRAE+	20	16.75	19.34	21.62	24.18	26.48	28.61	16.36	18.89	21.12	23.61	25.87	27.94	15.54	17.94	20.06	22.43	24.57	26.54
TRAE+	30	23.02	26.58	29.72	33.23	36.4	39.31	22.49	25.97	29.03	32.46	35.56	38.41	21.36	24.66	27.58	30.83	33.77	36.48
TRAE	35	31.08	35.89	40.12	44.86	49.14	53.08	30.36	35.06	39.19	43.82	48	51.85	28.84	33.3	37.23	41.63	45.6	49.25
TRAE	40	33.9	39.14	43.76	48.93	53.6	57.9	33.11	38.23	42.74	47.79	52.35	56.55	31.45	36.32	40.6	45.39	49.73	53.71
TRAE	50	40.34	46.58	52.08	58.23	63.78	68.89	39.41	45.51	50.88	56.88	62.31	67.31	37.44	43.23	48.33	54.04	59.2	63.94
TJR	9	8.46	9.77	10.92	12.21	13.38	14.45	8.26	9.54	10.66	11.92	13.06	14.11	7.85	9.06	10.13	11.33	12.41	13.41
TJR	12	10.13	11.7	13.08	14.62	16.02	17.3	9.89	11.42	12.77	14.27	15.64	16.89	9.4	10.85	12.14	13.57	14.86	16.05
TER	14	12.66	14.62	16.34	18.27	20.02	21.62	12.37	14.28	15.97	17.85	19.56	21.13	11.75	13.57	15.17	16.96	18.58	20.07
TER	16	14.96	17.27	19.31	21.59	23.65	25.55	14.62	16.88	18.87	21.1	23.12	24.97	13.88	16.03	17.92	20.03	21.95	23.7
TER	21	20.14	23.26	26	29.07	31.84	34.4	19.68	22.72	25.41	28.41	31.12	33.61	18.69	21.58	24.13	26.98	29.55	31.92
TER	27	25.9	29.91	33.44	37.38	40.95	44.23	25.3	29.21	32.66	36.52	40	43.21	24.03	27.75	31.02	34.68	37.99	41.04
TIR	37	31.65	36.55	40.86	45.68	50.04	54.05	30.92	35.7	39.92	44.63	48.89	52.81	29.37	33.91	37.92	42.39	46.44	50.16
THR	48	40.29	46.52	52.01	58.15	63.7	68.81	39.35	45.44	50.8	56.8	62.22	67.2	37.38	43.16	48.26	53.95	59.1	63.84
THR	60	48.92	56.49	63.16	70.61	77.35	83.55	47.78	55.17	61.68	68.96	75.55	81.6	45.39	52.41	58.6	65.51	71.77	77.52
TMR	60	57.55	66.45	74.3	83.07	90.99	98.29	56.22	64.92	72.58	81.15	88.89	96.01	53.4	61.66	68.94	77.08	84.43	91.2

Note: Standard capacity is rated at 100F liquid inlet and 40F evaporator temperature; with 100 Psi pressure drop across the TXV per ARI 750-2001.

R-404A / R-507 BALANCED PORTED VALVES (TONS) B / HF / TFE / TRAE / T SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/8	0.07	0.08	0.09	0.11	0.12	0.13	0.06	0.07	0.08	0.09	0.09	0.1	0.04	0.05	0.05	0.06	0.06	0.06
NXT-R	1/4	0.19	0.22	0.25	0.28	0.3	0.33	0.16	0.18	0.21	0.23	0.24	0.26	0.11	0.12	0.13	0.15	0.16	0.17
NXT-R	1/2	0.32	0.37	0.41	0.46	0.5	0.54	0.27	0.31	0.34	0.38	0.41	0.43	0.18	0.2	0.22	0.24	0.26	0.28
NXT-R	3/4	0.43	0.49	0.55	0.61	0.67	0.73	0.37	0.41	0.46	0.5	0.54	0.58	0.24	0.27	0.3	0.33	0.35	0.38
NXT-R	1	0.76	0.88	0.98	1.1	1.21	1.3	0.66	0.74	0.82	0.9	0.98	1.04	0.43	0.48	0.53	0.58	0.63	0.67
NXT-R	1 1/4	1.02	1.17	1.31	1.47	1.61	1.74	0.88	0.98	1.1	1.2	1.3	1.39	0.57	0.64	0.71	0.78	0.84	0.9
NXT-R	1 1/2	1.35	1.56	1.75	1.95	2.14	2.31	1.17	1.31	1.46	1.6	1.73	1.85	0.76	0.85	0.95	1.04	1.12	1.2
NXT-R	2	1.52	1.75	1.96	2.19	2.4	2.59	1.31	1.46	1.64	1.79	1.94	2.07	0.85	0.95	1.06	1.16	1.25	1.34
NXT-R	2 1/2	1.98	2.28	2.55	2.85	3.12	3.37	1.71	1.91	2.13	2.34	2.53	2.7	1.1	1.23	1.38	1.51	1.63	1.75
NXT-R	3	2.19	2.52	2.82	3.15	3.46	3.73	1.89	2.11	2.36	2.59	2.79	2.99	1.22	1.37	1.53	1.67	1.81	1.93
NXT-R	3 1/2	2.67	3.08	3.45	3.85	4.22	4.56	2.31	2.58	2.88	3.16	3.41	3.65	1.49	1.67	1.86	2.04	2.21	2.36
NXT-R	4	3.13	3.61	4.04	4.52	4.95	5.34	2.7	3.02	3.38	3.7	4	4.28	1.75	1.95	2.19	2.39	2.59	2.76
NXT-R	5 1/2	3.83	4.43	4.95	5.53	6.06	6.55	3.31	3.7	4.14	4.54	4.9	5.24	2.14	2.39	2.68	2.93	3.17	3.39
BA/BN	1/4	0.24	0.28	0.31	0.35	0.38	0.41	0.19	0.21	0.24	0.26	0.28	0.3	0.12	0.13	0.15	0.16	0.18	0.19
BA/BN	1/2	0.45	0.52	0.58	0.65	0.71	0.77	0.36	0.4	0.45	0.49	0.53	0.57	0.23	0.26	0.29	0.31	0.34	0.36
BA/BN	1	0.71	0.82	0.92	1.02	1.12	1.21	0.55	0.61	0.69	0.75	0.81	0.87	0.36	0.4	0.45	0.49	0.53	0.57
BA/BN	1-1/4	0.94	1.09	1.21	1.36	1.49	1.61	0.74	0.83	0.93	1.01	1.09	1.17	0.48	0.54	0.6	0.66	0.71	0.76
BA/BN	1-1/2	1.19	1.37	1.54	1.72	1.88	2.03	0.93	1.04	1.16	1.27	1.38	1.47	0.61	0.68	0.76	0.84	0.9	0.96
BA/BN	2	1.44	1.66	1.86	2.08	2.28	2.46	1.13	1.26	1.41	1.55	1.67	1.79	0.74	0.83	0.93	1.01	1.09	1.17
BA/BN	2-1/2	1.87	2.16	2.41	2.7	2.96	3.19	1.47	1.64	1.84	2.01	2.17	2.32	0.96	1.07	1.2	1.31	1.42	1.52
BA/BN	3	2.36	2.73	3.05	3.41	3.73	4.03	1.85	2.07	2.31	2.53	2.74	2.93	1.21	1.35	1.51	1.66	1.79	1.91
BA/BN	4	2.94	3.39	3.8	4.24	4.65	5.02	2.31	2.58	2.89	3.16	3.42	3.65	1.51	1.69	1.89	2.07	2.23	2.39
HF	1/8	0.13	0.15	0.17	0.19	0.21	0.22	0.1	0.11	0.13	0.14	0.15	0.16	0.07	0.08	0.09	0.1	0.1	0.11
HF	1/4	0.25	0.29	0.32	0.36	0.4	0.43	0.2	0.22	0.25	0.27	0.3	0.32	0.13	0.15	0.16	0.18	0.19	0.21
HF	1/2	0.45	0.52	0.58	0.65	0.71	0.77	0.36	0.4	0.45	0.49	0.53	0.57	0.23	0.26	0.29	0.31	0.34	0.36
HF	1	0.69	0.8	0.89	1	1.09	1.18	0.54	0.6	0.68	0.74	0.8	0.85	0.35	0.39	0.44	0.48	0.52	0.55
HF	1-1/4	0.93	1.07	1.2	1.34	1.47	1.59	0.73	0.82	0.91	1	1.08	1.15	0.48	0.54	0.6	0.66	0.71	0.76
HF	1-1/2	1.19	1.37	1.54	1.72	1.88	2.03	0.93	1.04	1.16	1.27	1.38	1.47	0.61	0.68	0.76	0.84	0.9	0.96
HF	2	1.57	1.81	2.03	2.27	2.48	2.68	1.23	1.38	1.54	1.68	1.82	1.94	0.81	0.91	1.01	1.11	1.2	1.28
HF	3-1/2	2.8	3.23	3.61	4.04	4.43	4.78	2.19	2.45	2.74	3	3.24	3.46	1.43	1.6	1.79	1.96	2.11	2.26
HF	5	3.89	4.49	5.02	5.61	6.15	6.64	3.05	3.41	3.81	4.18	4.51	4.82	2	2.24	2.5	2.74	2.96	3.16
HF	7	4.93	5.69	6.36	7.12	7.8	8.42	3.87	4.33	4.84	5.3	5.72	6.12	2.53	2.83	3.16	3.46	3.74	4
HF	10	7.31	8.44	9.44	10.55	11.56	12.48	5.73	6.41	7.16	7.85	8.47	9.06	3.75	4.19	4.69	5.13	5.55	5.93
HF	13	9.62	11.11	12.42	13.89	15.21	16.43	7.55	8.44	9.44	10.34	11.17	11.94	4.93	5.51	6.16	6.75	7.29	7.8
TFE	5	3.82	4.41	4.93	5.51	6.04	6.52	3	3.35	3.75	4.11	4.44	4.74	1.96	2.19	2.45	2.68	2.9	3.1
TFE	7	5.23	6.04	6.75	7.55	8.27	8.93	4.1	4.58	5.13	5.61	6.06	6.48	2.68	3	3.35	3.67	3.96	4.24
TFE	9	6.5	7.51	8.39	9.38	10.28	11.1	5.1	5.7	6.38	6.98	7.54	8.06	3.33	3.72	4.16	4.56	4.93	5.27
TFE	14	9.92	11.45	12.81	14.32	15.68	16.94	7.78	8.7	9.73	10.65	11.51	12.3	5.08	5.68	6.35	6.96	7.51	8.03
TMR	60	47.66	55.03	61.53	68.79	75.36	81.39	37.38	41.79	46.73	51.18	55.29	59.1	24.43	27.31	30.54	33.45	36.13	38.63

R-404A / R-507 BALANCED PORTED VALVES (TONS) B / HF / TFE / TRAE / T SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
TRAE+	8	5.62	6.49	7.26	8.11	8.89	9.6	4.41	4.93	5.51	6.04	6.52	6.97	2.88	3.22	3.6	3.94	4.26	4.55
TRAE+	12	8.2	9.47	10.59	11.84	12.97	14	6.43	7.19	8.04	8.8	9.51	10.17	4.2	4.7	5.25	5.75	6.21	6.64
TRAE+	14	9.15	10.57	11.81	13.21	14.47	15.63	7.18	8.03	8.98	9.83	10.62	11.35	4.69	5.24	5.86	6.42	6.94	7.42
TRAE+	20	13.87	16.02	17.91	20.02	21.93	23.69	10.88	12.16	13.6	14.9	16.09	17.2	7.11	7.95	8.89	9.74	10.52	11.24
TRAE+	30	19.06	22.01	24.61	27.51	30.14	32.55	14.95	16.71	18.69	20.47	22.11	23.64	9.77	10.92	12.21	13.38	14.45	15.45
TRAE	35	25.73	29.71	33.22	37.14	40.68	43.94	20.19	22.57	25.24	27.65	29.86	31.92	13.19	14.75	16.49	18.06	19.51	20.86
TRAE	40	28.07	32.41	36.24	40.52	44.38	47.94	22.02	24.62	27.53	30.15	32.57	34.82	14.39	16.09	17.99	19.7	21.28	22.75
TRAE	50	33.41	38.58	43.13	48.22	52.83	57.06	26.2	29.29	32.75	35.88	38.75	41.43	17.13	19.15	21.41	23.46	25.34	27.08
TJR	9	7.01	8.09	9.05	10.12	11.08	11.97	5.5	6.15	6.88	7.53	8.13	8.7	3.59	4.01	4.49	4.92	5.31	5.68
TJR	12	8.39	9.69	10.83	12.11	13.27	14.33	6.58	7.36	8.23	9.01	9.73	10.4	4.3	4.81	5.38	5.89	6.36	6.8
TER	14	10.48	12.1	13.53	15.13	16.57	17.9	8.22	9.19	10.28	11.26	12.16	13	5.3	5.93	6.63	7.26	7.84	8.38
TER	16	12.39	14.31	16	17.88	19.59	21.16	9.72	10.87	12.15	13.31	14.38	15.37	6.35	7.1	7.94	8.7	9.39	10.04
TER	21	16.68	19.26	21.53	24.08	26.37	28.49	13.08	14.62	16.35	17.91	19.35	20.68	8.55	9.56	10.69	11.71	12.65	13.52
TER	27	21.45	24.77	27.69	30.96	33.92	36.63	16.82	18.81	21.03	23.03	24.88	26.59	11	12.3	13.75	15.06	16.27	17.39
TIR	37	26.21	30.26	33.84	37.83	41.44	44.76	20.56	22.99	25.7	28.15	30.41	32.51	13.44	15.03	16.8	18.4	19.88	21.25
THR	48	33.36	38.52	43.07	48.15	52.75	56.97	26.17	29.26	32.71	35.83	38.71	41.38	17.1	19.12	21.38	23.42	25.29	27.04
THR	60	40.51	46.78	52.3	58.47	64.05	69.18	31.77	35.52	39.71	43.5	46.99	50.23	20.77	23.22	25.96	28.44	30.72	32.84

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-404A/R-507	2.00	1.90	1.80	1.70	1.60	1.50	1.40	1.30	1.20	1.10	1.00	0.90	0.80	0.70	0.50

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-407A BALANCE PORTED VALVES (TONS) NXT-R, B AND H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.04	0.05	0.05	0.06	0.06	0.07	0.03	0.03	0.04	0.04	0.05	0.05	0.02	0.02	0.02	0.03	0.03	0.03
NXT-R	1/5	0.1	0.12	0.13	0.15	0.16	0.17	0.08	0.09	0.1	0.11	0.12	0.12	0.05	0.06	0.06	0.07	0.07	0.08
NXT-R	1/4	0.26	0.31	0.34	0.38	0.42	0.45	0.2	0.23	0.25	0.28	0.3	0.32	0.13	0.14	0.16	0.18	0.19	0.2
NXT-R	1/2	0.44	0.51	0.57	0.64	0.7	0.75	0.34	0.38	0.42	0.46	0.5	0.54	0.21	0.24	0.27	0.29	0.32	0.34
NXT-R	1	0.59	0.68	0.76	0.85	0.93	1.01	0.45	0.51	0.57	0.62	0.67	0.72	0.29	0.32	0.36	0.39	0.42	0.45
NXT-R	1 1/2	1.06	1.22	1.37	1.53	1.67	1.81	0.81	0.91	1.02	1.11	1.2	1.29	0.51	0.58	0.64	0.7	0.76	0.81
NXT-R	2	1.41	1.63	1.82	2.04	2.23	2.41	1.08	1.21	1.36	1.49	1.6	1.72	0.69	0.77	0.86	0.94	1.01	1.08
NXT-R	2 1/2	1.88	2.17	2.43	2.72	2.97	3.21	1.44	1.62	1.81	1.98	2.14	2.28	0.91	1.02	1.14	1.25	1.35	1.44
NXT-R	3	2.11	2.43	2.72	3.04	3.33	3.6	1.62	1.81	2.02	2.21	2.39	2.56	1.02	1.14	1.28	1.4	1.51	1.62
NXT-R	4	2.74	3.17	3.54	3.96	4.34	4.69	2.11	2.36	2.63	2.89	3.12	3.33	1.33	1.49	1.67	1.82	1.97	2.11
NXT-R	5	3.43	3.96	4.43	4.95	5.42	5.86	2.63	2.94	3.29	3.61	3.9	4.16	1.67	1.86	2.08	2.28	2.46	2.63
NXT-R	5 1/2	3.71	4.28	4.79	5.35	5.86	6.33	2.85	3.18	3.56	3.9	4.21	4.5	1.8	2.01	2.25	2.47	2.66	2.85
NXT-R	8	5.32	6.15	6.87	7.68	8.42	9.09	4.09	4.57	5.11	5.6	6.05	6.47	2.59	2.89	3.23	3.54	3.83	4.09
BA/BN	1/2	0.34	0.39	0.44	0.49	0.54	0.58	0.26	0.29	0.33	0.36	0.39	0.41	0.17	0.19	0.21	0.23	0.25	0.27
BA/BN	1	0.65	0.74	0.83	0.93	1.02	1.1	0.5	0.55	0.62	0.68	0.73	0.78	0.32	0.36	0.4	0.44	0.47	0.51
BA/BN	1-1/2	1.01	1.16	1.3	1.45	1.59	1.72	0.77	0.86	0.96	1.06	1.14	1.22	0.5	0.56	0.63	0.68	0.74	0.79
BA/BN	2	1.34	1.55	1.74	1.94	2.13	2.3	1.03	1.15	1.29	1.41	1.53	1.63	0.67	0.75	0.84	0.92	0.99	1.06
BA/BN	2-1/2	1.7	1.96	2.19	2.45	2.68	2.9	1.3	1.46	1.63	1.79	1.93	2.06	0.84	0.94	1.06	1.16	1.25	1.34
BA/BN	3	2.06	2.38	2.66	2.97	3.25	3.51	1.58	1.77	1.98	2.16	2.34	2.5	1.02	1.14	1.28	1.4	1.51	1.62
BA/BN	4	2.66	3.07	3.44	3.84	4.21	4.55	2.04	2.29	2.56	2.8	3.02	3.23	1.32	1.48	1.66	1.81	1.96	2.09
BA/BN	5	3.37	3.9	4.36	4.87	5.34	5.76	2.59	2.9	3.24	3.55	3.83	4.1	1.68	1.88	2.1	2.3	2.48	2.66
BA/BN	6	4.19	4.84	5.41	6.05	6.62	7.16	3.22	3.6	4.02	4.41	4.76	5.09	2.08	2.33	2.61	2.85	3.08	3.3
HF	1/4	0.19	0.22	0.25	0.27	0.3	0.32	0.15	0.16	0.18	0.2	0.22	0.23	0.09	0.1	0.12	0.13	0.14	0.15
HF	1/2	0.36	0.42	0.46	0.52	0.57	0.61	0.28	0.31	0.35	0.38	0.41	0.44	0.17	0.2	0.22	0.24	0.26	0.28
HF	1	0.65	0.74	0.83	0.93	1.02	1.1	0.5	0.55	0.62	0.68	0.73	0.78	0.31	0.35	0.39	0.43	0.46	0.5
HF	1-1/2	0.98	1.14	1.27	1.42	1.56	1.68	0.76	0.85	0.95	1.04	1.12	1.2	0.48	0.53	0.6	0.65	0.71	0.76
HF	2	1.33	1.54	1.72	1.92	2.1	2.27	1.02	1.14	1.28	1.4	1.51	1.62	0.65	0.72	0.81	0.89	0.96	1.02
HF	2-1/2	1.7	1.97	2.2	2.46	2.7	2.91	1.31	1.46	1.64	1.79	1.94	2.07	0.83	0.93	1.03	1.13	1.22	1.31
HF	3-1/2	2.25	2.6	2.9	3.24	3.55	3.84	1.73	1.93	2.16	2.36	2.55	2.73	1.09	1.22	1.36	1.5	1.61	1.73
HF	6	4	4.62	5.16	5.77	6.32	6.83	3.07	3.43	3.84	4.21	4.54	4.86	1.94	2.17	2.43	2.66	2.87	3.07
HF	8-1/2	5.56	6.42	7.18	8.03	8.79	9.5	4.27	4.78	5.34	5.85	6.32	6.75	2.7	3.02	3.38	3.7	4	4.27
HF	10-1/2	7.06	8.15	9.12	10.19	11.17	12.06	5.42	6.06	6.78	7.43	8.02	8.58	3.43	3.84	4.29	4.7	5.07	5.42
HF	16	10.46	12.08	13.5	15.09	16.54	17.86	8.03	8.98	10.04	11	11.88	12.7	5.08	5.68	6.35	6.96	7.51	8.03
HF	10	13.72	15.84	17.71	19.8	21.69	23.43	10.54	11.78	13.17	14.43	15.58	16.66	6.66	7.45	8.33	9.12	9.86	10.54

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV.

R-407A BALANCE PORTED VALVES (TONS) NXT-R, B AND H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/10	0.04	0.05	0.05	0.06	0.06	0.07	0.03	0.03	0.04	0.04	0.05	0.05	0.02	0.02	0.02	0.03	0.03	0.03
NXT-R	1/5	0.1	0.12	0.13	0.15	0.16	0.17	0.08	0.09	0.1	0.11	0.12	0.12	0.05	0.06	0.06	0.07	0.07	0.08
NXT-R	1/4	0.26	0.31	0.34	0.38	0.42	0.45	0.2	0.23	0.25	0.28	0.3	0.32	0.13	0.14	0.16	0.18	0.19	0.2
NXT-R	1/2	0.44	0.51	0.57	0.64	0.7	0.75	0.34	0.38	0.42	0.46	0.5	0.54	0.21	0.24	0.27	0.29	0.32	0.34
NXT-R	1	0.59	0.68	0.76	0.85	0.93	1.01	0.45	0.51	0.57	0.62	0.67	0.72	0.29	0.32	0.36	0.39	0.42	0.45
NXT-R	1 1/2	1.06	1.22	1.37	1.53	1.67	1.81	0.81	0.91	1.02	1.11	1.2	1.29	0.51	0.58	0.64	0.7	0.76	0.81
NXT-R	2	1.41	1.63	1.82	2.04	2.23	2.41	1.08	1.21	1.36	1.49	1.6	1.72	0.69	0.77	0.86	0.94	1.01	1.08
NXT-R	2 1/2	1.88	2.17	2.43	2.72	2.97	3.21	1.44	1.62	1.81	1.98	2.14	2.28	0.91	1.02	1.14	1.25	1.35	1.44
NXT-R	3	2.11	2.43	2.72	3.04	3.33	3.6	1.62	1.81	2.02	2.21	2.39	2.56	1.02	1.14	1.28	1.4	1.51	1.62
NXT-R	4	2.74	3.17	3.54	3.96	4.34	4.69	2.11	2.36	2.63	2.89	3.12	3.33	1.33	1.49	1.67	1.82	1.97	2.11
NXT-R	5	3.43	3.96	4.43	4.95	5.42	5.86	2.63	2.94	3.29	3.61	3.9	4.16	1.67	1.86	2.08	2.28	2.46	2.63
NXT-R	5 1/2	3.71	4.28	4.79	5.35	5.86	6.33	2.85	3.18	3.56	3.9	4.21	4.5	1.8	2.01	2.25	2.47	2.66	2.85
NXT-R	8	5.32	6.15	6.87	7.68	8.42	9.09	4.09	4.57	5.11	5.6	6.05	6.47	2.59	2.89	3.23	3.54	3.83	4.09
BA/BN	1/2	0.34	0.39	0.44	0.49	0.54	0.58	0.26	0.29	0.33	0.36	0.39	0.41	0.17	0.19	0.21	0.23	0.25	0.27
BA/BN	1	0.65	0.74	0.83	0.93	1.02	1.1	0.5	0.55	0.62	0.68	0.73	0.78	0.32	0.36	0.4	0.44	0.47	0.51
BA/BN	1-1/2	1.01	1.16	1.3	1.45	1.59	1.72	0.77	0.86	0.96	1.06	1.14	1.22	0.5	0.56	0.63	0.68	0.74	0.79
BA/BN	2	1.34	1.55	1.74	1.94	2.13	2.3	1.03	1.15	1.29	1.41	1.53	1.63	0.67	0.75	0.84	0.92	0.99	1.06
BA/BN	2-1/2	1.7	1.96	2.19	2.45	2.68	2.9	1.3	1.46	1.63	1.79	1.93	2.06	0.84	0.94	1.06	1.16	1.25	1.34
BA/BN	3	2.06	2.38	2.66	2.97	3.25	3.51	1.58	1.77	1.98	2.16	2.34	2.5	1.02	1.14	1.28	1.4	1.51	1.62
BA/BN	4	2.66	3.07	3.44	3.84	4.21	4.55	2.04	2.29	2.56	2.8	3.02	3.23	1.32	1.48	1.66	1.81	1.96	2.09
BA/BN	5	3.37	3.9	4.36	4.87	5.34	5.76	2.59	2.9	3.24	3.55	3.83	4.1	1.68	1.88	2.1	2.3	2.48	2.66
BA/BN	6	4.19	4.84	5.41	6.05	6.62	7.16	3.22	3.6	4.02	4.41	4.76	5.09	2.08	2.33	2.61	2.85	3.08	3.3
HF	1/4	0.19	0.22	0.25	0.27	0.3	0.32	0.15	0.16	0.18	0.2	0.22	0.23	0.09	0.1	0.12	0.13	0.14	0.15
HF	1/2	0.36	0.42	0.46	0.52	0.57	0.61	0.28	0.31	0.35	0.38	0.41	0.44	0.17	0.2	0.22	0.24	0.26	0.28
HF	1	0.65	0.74	0.83	0.93	1.02	1.1	0.5	0.55	0.62	0.68	0.73	0.78	0.31	0.35	0.39	0.43	0.46	0.5
HF	1-1/2	0.98	1.14	1.27	1.42	1.56	1.68	0.76	0.85	0.95	1.04	1.12	1.2	0.48	0.53	0.6	0.65	0.71	0.76
HF	2	1.33	1.54	1.72	1.92	2.1	2.27	1.02	1.14	1.28	1.4	1.51	1.62	0.65	0.72	0.81	0.89	0.96	1.02
HF	2-1/2	1.7	1.97	2.2	2.46	2.7	2.91	1.31	1.46	1.64	1.79	1.94	2.07	0.83	0.93	1.03	1.13	1.22	1.31
HF	3-1/2	2.25	2.6	2.9	3.24	3.55	3.84	1.73	1.93	2.16	2.36	2.55	2.73	1.09	1.22	1.36	1.5	1.61	1.73
HF	6	4	4.62	5.16	5.77	6.32	6.83	3.07	3.43	3.84	4.21	4.54	4.86	1.94	2.17	2.43	2.66	2.87	3.07
HF	8-1/2	5.56	6.42	7.18	8.03	8.79	9.5	4.27	4.78	5.34	5.85	6.32	6.75	2.7	3.02	3.38	3.7	4	4.27
HF	10-1/2	7.06	8.15	9.12	10.19	11.17	12.06	5.42	6.06	6.78	7.43	8.02	8.58	3.43	3.84	4.29	4.7	5.07	5.42
HF	16	10.46	12.08	13.5	15.09	16.54	17.86	8.03	8.98	10.04	11	11.88	12.7	5.08	5.68	6.35	6.96	7.51	8.03
HF	10	13.72	15.84	17.71	19.8	21.69	23.43	10.54	11.78	13.17	14.43	15.58	16.66	6.66	7.45	8.33	9.12	9.86	10.54

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-407A	1.78	1.70	1.63	1.55	1.47	1.40	1.32	1.24	1.16	1.08	1.00	0.92	0.83	0.75	0.66

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

TXV EXTENDED CAPACITY TABLES

R-407C BALANCED PORTED

R-407C BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.05	0.06	0.06	0.07	0.08	0.09	0.05	0.06	0.06	0.07	0.08	0.08	0.05	0.06	0.06	0.07	0.08	0.08
NXT-R	1/5	0.13	0.15	0.16	0.18	0.2	0.21	0.12	0.14	0.16	0.18	0.2	0.21	0.12	0.14	0.15	0.17	0.19	0.2
NXT-R	1/4	0.33	0.38	0.42	0.47	0.52	0.56	0.32	0.37	0.41	0.46	0.51	0.55	0.31	0.36	0.4	0.45	0.49	0.53
NXT-R	1/2	0.54	0.63	0.7	0.79	0.86	0.93	0.54	0.62	0.69	0.77	0.85	0.91	0.52	0.6	0.67	0.75	0.82	0.88
NXT-R	1	0.73	0.84	0.94	1.05	1.15	1.24	0.72	0.83	0.93	1.03	1.13	1.22	0.69	0.8	0.89	1	1.09	1.18
NXT-R	1 1/4	1.31	1.51	1.69	1.89	2.07	2.23	1.29	1.48	1.66	1.86	2.03	2.2	1.24	1.43	1.6	1.79	1.96	2.12
NXT-R	2	1.74	2.01	2.25	2.51	2.75	2.98	1.71	1.98	2.21	2.47	2.71	2.93	1.65	1.91	2.14	2.39	2.62	2.82
NXT-R	2 1/2	2.32	2.68	2.99	3.35	3.67	3.96	2.28	2.64	2.95	3.29	3.61	3.9	2.2	2.54	2.84	3.18	3.48	3.76
NXT-R	3	2.6	3	3.35	3.75	4.11	4.43	2.55	2.95	3.3	3.69	4.04	4.36	2.47	2.85	3.18	3.56	3.9	4.21
NXT-R	3 1/4	3.38	3.91	4.37	4.88	5.35	5.78	3.33	3.84	4.3	4.81	5.26	5.69	3.21	3.71	4.15	4.64	5.08	5.49
NXT-R	4	3.74	4.32	4.83	5.4	5.92	6.39	3.68	4.25	4.76	5.32	5.82	6.29	3.55	4.1	4.59	5.13	5.62	6.07
NXT-R	5	4.23	4.88	5.46	6.1	6.69	7.22	4.16	4.81	5.37	6.01	6.58	7.11	4.02	4.64	5.18	5.8	6.35	6.86
NXT-R	5 1/4	4.57	5.28	5.9	6.6	7.23	7.81	4.5	5.2	5.81	6.49	7.11	7.68	4.34	5.01	5.61	6.27	6.86	7.42
NXT-R	6	5.36	6.19	6.92	7.74	8.48	9.15	5.27	6.09	6.81	7.61	8.34	9.01	5.09	5.88	6.57	7.35	8.05	8.69
BA/BN	1/2	0.38	0.44	0.49	0.55	0.6	0.65	0.37	0.43	0.48	0.53	0.59	0.63	0.36	0.42	0.46	0.52	0.57	0.61
BA/BN	1	0.72	0.83	0.93	1.04	1.14	1.23	0.7	0.81	0.9	1.01	1.11	1.2	0.68	0.79	0.88	0.98	1.08	1.16
BA/BN	1-1/2	1.12	1.29	1.45	1.62	1.77	1.91	1.1	1.27	1.42	1.59	1.74	1.88	1.05	1.21	1.36	1.52	1.66	1.79
BA/BN	2	1.49	1.72	1.92	2.15	2.36	2.54	1.47	1.7	1.9	2.12	2.32	2.51	1.41	1.63	1.82	2.04	2.23	2.41
BA/BN	2-1/2	1.88	2.17	2.43	2.71	2.97	3.21	1.85	2.14	2.39	2.67	2.93	3.16	1.78	2.06	2.3	2.57	2.81	3.04
BA/BN	3	2.28	2.63	2.94	3.29	3.6	3.89	2.24	2.59	2.89	3.23	3.54	3.83	2.15	2.48	2.78	3.1	3.4	3.67
BA/BN	4	2.96	3.42	3.82	4.27	4.68	5.06	2.9	3.35	3.74	4.19	4.59	4.95	2.79	3.22	3.6	4.03	4.41	4.76
BA/BN	5	3.74	4.32	4.83	5.4	5.91	6.39	3.67	4.24	4.74	5.3	5.8	6.27	3.52	4.06	4.54	5.08	5.57	6.01
BA/BN	6	4.65	5.37	6	6.71	7.35	7.94	4.57	5.28	5.9	6.6	7.23	7.8	4.38	5.06	5.65	6.32	6.93	7.48
HF	1/4	0.21	0.24	0.27	0.3	0.33	0.36	0.21	0.24	0.27	0.3	0.33	0.36	0.2	0.23	0.26	0.29	0.32	0.34
HF	1/2	0.4	0.46	0.52	0.58	0.63	0.68	0.39	0.45	0.5	0.56	0.62	0.67	0.38	0.44	0.49	0.55	0.6	0.65
HF	1	0.72	0.83	0.93	1.04	1.14	1.23	0.7	0.81	0.9	1.01	1.11	1.2	0.68	0.79	0.88	0.98	1.08	1.16
HF	1-1/2	1.09	1.26	1.41	1.57	1.72	1.86	1.07	1.24	1.38	1.54	1.69	1.83	1.03	1.19	1.33	1.49	1.63	1.76
HF	2	1.47	1.7	1.9	2.12	2.32	2.51	1.44	1.66	1.86	2.08	2.28	2.46	1.39	1.61	1.79	2.01	2.2	2.37
HF	2-1/2	1.88	2.17	2.43	2.71	2.97	3.21	1.85	2.14	2.39	2.67	2.93	3.16	1.78	2.06	2.3	2.57	2.81	3.04
HF	3	2.49	2.88	3.21	3.59	3.94	4.25	2.44	2.82	3.15	3.52	3.86	4.17	2.35	2.71	3.03	3.39	3.72	4.01
HF	5-1/2	4.43	5.12	5.72	6.39	7	7.57	4.34	5.01	5.6	6.26	6.86	7.41	4.17	4.82	5.38	6.02	6.59	7.12
HF	8	6.16	7.11	7.95	8.89	9.74	10.52	6.05	6.99	7.81	8.73	9.57	10.33	5.81	6.71	7.5	8.39	9.19	9.92
HF	10	7.8	9.01	10.07	11.26	12.33	13.32	7.65	8.83	9.88	11.04	12.1	13.06	7.35	8.49	9.49	10.61	11.62	12.55
HF	15	11.57	13.36	14.94	16.7	18.29	19.76	11.35	13.11	14.65	16.38	17.95	19.38	10.9	12.59	14.07	15.73	17.23	18.62
HF	20	15.22	17.57	19.65	21.97	24.06	25.99	14.94	17.25	19.29	21.56	23.62	25.51	14.35	16.57	18.53	20.71	22.69	24.51
TFE	8	6.05	6.99	7.81	8.73	9.57	10.33	5.94	6.86	7.67	8.57	9.39	10.14	5.7	6.58	7.36	8.23	9.01	9.73
TFE	10	8.28	9.56	10.69	11.95	13.09	14.14	8.13	9.39	10.5	11.73	12.85	13.88	7.8	9.01	10.07	11.26	12.33	13.32
TFE	12	10.28	11.87	13.27	14.84	16.25	17.56	10.09	11.65	13.03	14.56	15.95	17.23	9.69	11.19	12.51	13.99	15.32	16.55
TFE	20	15.69	18.12	20.26	22.65	24.81	26.8	15.4	17.78	19.88	22.23	24.35	26.3	14.79	17.08	19.09	21.35	23.39	25.26
TRAE+	10	8.9	10.28	11.49	12.85	14.07	15.2	8.73	10.08	11.27	12.6	13.8	14.91	8.39	9.69	10.83	12.11	13.27	14.33
TRAE+	15	12.97	14.98	16.74	18.72	20.51	22.15	12.73	14.7	16.43	18.37	20.13	21.74	12.22	14.11	15.78	17.64	19.32	20.87
TRAE+	20	14.48	16.72	18.69	20.9	22.89	24.73	14.21	16.41	18.35	20.51	22.47	24.27	13.64	15.75	17.61	19.69	21.57	23.29
TRAE+	30	21.94	25.33	28.32	31.67	34.69	37.47	21.45	24.77	27.69	30.96	33.92	36.63	20.68	23.88	26.7	29.85	32.7	35.32
TRAE+	40	30.16	34.83	38.94	43.53	47.69	51.51	29.6	34.18	38.21	42.72	46.8	50.55	28.43	32.83	36.7	41.04	44.95	48.55
TRAE	50	40.71	47.01	52.56	58.76	64.37	69.53	39.97	46.15	51.6	57.69	63.2	68.26	38.37	44.31	49.54	55.38	60.67	65.53
TRAE	60	44.41	51.28	57.33	64.1	70.22	75.84	43.59	50.33	56.27	62.92	68.92	74.44	41.86	48.34	54.04	60.42	66.19	71.49
TRAE	70	52.85	61.03	68.23	76.28	83.56	90.26	51.88	59.91	66.98	74.88	82.03	88.6	49.82	57.53	64.32	71.91	78.77	85.08
TJR	14	11.08	12.79	14.3	15.99	17.52	18.92	10.88	12.56	14.05	15.7	17.2	18.58	10.45	12.07	13.49	15.08	16.52	17.85
TJR	18	13.27	15.32	17.13	19.15	20.98	22.66	13.03	15.05	16.82	18.81	20.6	22.25	12.51	14.45	16.15	18.06	19.78	21.36
TER	22	16.59	19.16	21.42	23.95	26.23	28.33	16.28	18.8	21.02	23.5	25.74	27.8	15.63	18.05	20.18	22.56	24.71	26.69
TER	26	19.6	22.63	25.3	28.29	30.99	33.47	19.24	22.22	24.84	27.77	30.42	32.86	18.48	21.34	23.86	26.67	29.22	31.56
TER	35	26.39	30.47	34.07	38.09	41.73	45.07	25.9	29.91	33.44	37.38	40.95	44.23	24.87	28.72	32.11	35.9	39.32	42.47
TER	45	33.93	39.18	43.8	48.97	53.65	57.95	33.3	38.45	42.99	48.06	52.65	56.87	31.98	36.93	41.29	46.16	50.56	54.62
TIR	55	41.47	47.89	53.54	59.86	65.57	70.82	40.71	47.01	52.56	58.76	64.37	69.53	39.08	45.13	50.45	56.41	61.79	66.74
THR	75	52.78	60.95	68.14	76.18	83.45	90.14	51.81	59.83	66.89	74.78	81.92	88.48	49.74	57.43	64.21	71.79	78.65	84.95
THR	100	64.08	73.99	82.73	92.49	101.32	109.44	62.91	72.64	81.22	90.8	99.47	107.44	60.4	69.74	77.98	87.18	95.5	103.15
TMR	100	75.39	87.05	97.33	108.82	119.2	128.75	74.01	85.46	95.55	106.82	117.02	126.4	71.06	82.05	91.74	102.57	112.36	121.36

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV per ARI 750-2001.

R-407C BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/10	0.04	0.05	0.05	0.06	0.06	0.07	0.03	0.03	0.04	0.04	0.05	0.05	0.02	0.02	0.02	0.03	0.03	0.03
NXT-R	1/5	0.10	0.12	0.13	0.15	0.16	0.17	0.08	0.09	0.10	0.11	0.12	0.12	0.05	0.05	0.06	0.07	0.07	0.08
NXT-R	1/4	0.26	0.31	0.34	0.38	0.42	0.45	0.20	0.23	0.25	0.28	0.30	0.32	0.13	0.14	0.16	0.18	0.19	0.20
NXT-R	1/2	0.44	0.51	0.57	0.64	0.70	0.75	0.34	0.38	0.42	0.46	0.50	0.53	0.21	0.24	0.27	0.29	0.32	0.34
NXT-R	1	0.59	0.68	0.76	0.85	0.93	1.01	0.45	0.51	0.56	0.62	0.67	0.71	0.29	0.32	0.36	0.39	0.42	0.45
NXT-R	1 1/4	1.06	1.22	1.36	1.53	1.67	1.81	0.81	0.91	1.01	1.11	1.20	1.28	0.51	0.57	0.64	0.70	0.76	0.81
NXT-R	2	1.41	1.63	1.82	2.03	2.23	2.41	1.08	1.21	1.35	1.48	1.60	1.71	0.68	0.76	0.85	0.93	1.01	1.08
NXT-R	2 1/2	1.88	2.17	2.42	2.71	2.97	3.21	1.44	1.61	1.80	1.97	2.13	2.27	0.91	1.02	1.14	1.24	1.34	1.44
NXT-R	3	2.10	2.43	2.71	3.03	3.32	3.59	1.61	1.80	2.01	2.20	2.38	2.55	1.02	1.14	1.27	1.39	1.50	1.61
NXT-R	3 1/4	2.74	3.16	3.53	3.95	4.33	4.67	2.10	2.35	2.62	2.87	3.10	3.32	1.32	1.48	1.66	1.81	1.96	2.09
NXT-R	4	3.03	3.50	3.91	4.37	4.79	5.17	2.32	2.60	2.90	3.18	3.43	3.67	1.47	1.64	1.83	2.01	2.17	2.32
NXT-R	5	3.42	3.95	4.42	4.94	5.41	5.84	2.62	2.93	3.28	3.59	3.88	4.15	1.66	1.85	2.07	2.27	2.45	2.62
NXT-R	5 1/4	3.70	4.27	4.78	5.34	5.85	6.32	2.84	3.17	3.54	3.88	4.19	4.48	1.79	2.00	2.24	2.45	2.65	2.83
NXT-R	6	4.34	5.01	5.60	6.26	6.86	7.41	3.32	3.72	4.15	4.55	4.92	5.25	2.10	2.35	2.62	2.87	3.10	3.32
BA/BN	1/2	0.30	0.35	0.39	0.43	0.47	0.51	0.23	0.26	0.29	0.31	0.34	0.36	0.14	0.16	0.18	0.19	0.21	0.22
BA/BN	1	0.57	0.66	0.74	0.82	0.90	0.97	0.43	0.48	0.54	0.59	0.64	0.68	0.27	0.30	0.34	0.37	0.40	0.43
BA/BN	1-1/2	0.89	1.03	1.15	1.28	1.41	1.52	0.68	0.76	0.85	0.93	1.01	1.08	0.43	0.48	0.54	0.59	0.64	0.68
BA/BN	2	1.19	1.37	1.54	1.72	1.88	2.03	0.90	1.01	1.13	1.23	1.33	1.42	0.57	0.64	0.71	0.78	0.84	0.90
BA/BN	2-1/2	1.50	1.73	1.94	2.17	2.37	2.56	1.14	1.27	1.43	1.56	1.69	1.80	0.72	0.80	0.90	0.99	1.06	1.14
BA/BN	3	1.82	2.10	2.35	2.63	2.88	3.11	1.38	1.54	1.73	1.89	2.04	2.18	0.87	0.97	1.09	1.19	1.29	1.38
BA/BN	4	2.35	2.71	3.03	3.39	3.72	4.01	1.79	2.00	2.24	2.45	2.65	2.83	1.13	1.26	1.41	1.55	1.67	1.79
BA/BN	5	2.98	3.44	3.85	4.30	4.71	5.09	2.27	2.54	2.84	3.11	3.36	3.59	1.43	1.60	1.79	1.96	2.11	2.26
BA/BN	6	3.70	4.27	4.78	5.34	5.85	6.32	2.82	3.15	3.53	3.86	4.17	4.46	1.77	1.98	2.21	2.42	2.62	2.80
HF	1/4	0.17	0.20	0.22	0.25	0.27	0.29	0.13	0.15	0.16	0.18	0.19	0.21	0.08	0.09	0.10	0.11	0.12	0.13
HF	1/2	0.32	0.37	0.41	0.46	0.51	0.55	0.24	0.27	0.30	0.33	0.35	0.38	0.15	0.17	0.19	0.21	0.22	0.24
HF	1	0.57	0.66	0.74	0.82	0.90	0.97	0.43	0.48	0.54	0.59	0.64	0.68	0.27	0.30	0.34	0.37	0.40	0.43
HF	1-1/2	0.87	1.00	1.12	1.26	1.38	1.49	0.66	0.74	0.83	0.90	0.98	1.04	0.42	0.47	0.53	0.58	0.62	0.66
HF	2	1.17	1.35	1.51	1.69	1.85	2.00	0.89	1.00	1.11	1.22	1.32	1.41	0.56	0.63	0.70	0.77	0.83	0.89
HF	2-1/2	1.50	1.73	1.94	2.17	2.37	2.56	1.14	1.27	1.43	1.56	1.69	1.80	0.72	0.80	0.90	0.99	1.06	1.14
HF	3	1.98	2.29	2.56	2.86	3.13	3.38	1.51	1.69	1.89	2.07	2.23	2.39	0.95	1.06	1.19	1.30	1.41	1.50
HF	5-1/2	3.52	4.06	4.54	5.08	5.57	6.01	2.68	3.00	3.35	3.67	3.96	4.24	1.69	1.89	2.11	2.31	2.50	2.67
HF	8	4.90	5.66	6.33	7.07	7.75	8.37	3.73	4.17	4.66	5.11	5.52	5.90	2.35	2.63	2.94	3.22	3.48	3.72
HF	10	6.20	7.16	8.00	8.95	9.80	10.59	4.72	5.28	5.90	6.46	6.98	7.46	2.97	3.32	3.71	4.07	4.39	4.70
HF	15	9.20	10.62	11.88	13.28	14.55	15.71	7.01	7.84	8.76	9.60	10.37	11.08	4.41	4.93	5.51	6.04	6.52	6.97
HF	20	12.11	13.98	15.63	17.48	19.15	20.68	9.22	10.31	11.53	12.63	13.64	14.58	5.81	6.50	7.26	7.96	8.59	9.19
TFE	8	4.81	5.55	6.21	6.94	7.61	8.21	3.66	4.09	4.58	5.01	5.41	5.79	2.31	2.58	2.89	3.16	3.42	3.65
TFE	10	6.59	7.61	8.51	9.51	10.42	11.25	5.02	5.61	6.28	6.87	7.42	7.94	3.16	3.53	3.95	4.33	4.67	5.00
TFE	12	8.18	9.45	10.56	11.81	12.93	13.97	6.23	6.97	7.79	8.53	9.21	9.85	3.92	4.38	4.90	5.37	5.80	6.20
TFE	20	12.49	14.42	16.12	18.03	19.75	21.33	9.51	10.63	11.89	13.02	14.07	15.04	5.98	6.69	7.48	8.19	8.84	9.46
TRAE+	10	7.08	8.18	9.14	10.22	11.19	12.09	5.39	6.03	6.74	7.38	7.97	8.52	3.39	3.79	4.24	4.64	5.01	5.36
TRAE+	15	10.32	11.92	13.32	14.90	16.32	17.62	7.86	8.79	9.83	10.76	11.63	12.43	4.95	5.53	6.19	6.78	7.32	7.83
TRAE+	20	11.52	13.30	14.87	16.63	18.21	19.67	8.77	9.81	10.96	12.01	12.97	13.87	5.52	6.17	6.90	7.56	8.16	8.73
TRAE+	30	17.46	20.16	22.54	25.20	27.61	29.82	13.30	14.87	16.63	18.21	19.67	21.03	8.37	9.36	10.46	11.46	12.38	13.23
TRAE+	40	24.00	27.71	30.98	34.64	37.95	40.99	18.28	20.44	22.85	25.03	27.04	28.90	11.50	12.86	14.38	15.75	17.01	18.18
TRAE	50	32.40	37.41	41.83	46.77	51.23	55.33	24.67	27.58	30.84	33.78	36.49	39.01	15.53	17.36	19.41	21.27	22.97	24.56
TRAE	60	35.34	40.81	45.62	51.01	55.88	60.35	26.91	30.09	33.64	36.85	39.80	42.55	16.94	18.94	21.18	23.20	25.05	26.78
TRAE	70	42.06	48.57	54.30	60.71	66.50	71.83	32.03	35.81	40.04	43.86	47.37	50.64	20.16	22.54	25.20	27.61	29.82	31.88

R-407C BALANCED PORTED VALVES (TONS) NXT-R / B / HF/ TFE / TRAE / T SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
TJR	14	8.82	10.18	11.39	12.73	13.95	15.06	6.72	7.51	8.40	9.20	9.94	10.63	4.23	4.73	5.29	5.79	6.26	6.69
TJR	18	10.56	12.19	13.63	15.24	16.70	18.03	8.04	8.99	10.05	11.01	11.89	12.71	5.06	5.66	6.33	6.93	7.48	8.00
TER	22	13.20	15.24	17.04	19.05	20.87	22.54	10.05	11.24	12.56	13.76	14.86	15.89	6.33	7.08	7.91	8.67	9.36	10.01
TER	26	15.60	18.01	20.14	22.52	24.67	26.64	11.88	13.28	14.85	16.27	17.57	18.78	7.48	8.36	9.35	10.24	11.06	11.83
TER	35	21.00	24.25	27.11	30.31	33.20	35.86	15.99	17.88	19.99	21.90	23.65	25.28	10.06	11.25	12.58	13.78	14.88	15.91
TER	45	27.00	31.18	34.86	38.97	42.69	46.11	20.56	22.99	25.70	28.15	30.41	32.51	12.94	14.47	16.18	17.72	19.14	20.46
TIR	55	33.00	38.11	42.60	47.63	52.18	56.36	25.13	28.10	31.41	34.41	37.17	39.73	15.82	17.69	19.78	21.66	23.40	25.01
THR	75	42.00	48.50	54.22	60.62	66.41	71.73	31.98	35.75	39.98	43.79	47.30	50.56	20.13	22.51	25.16	27.56	29.77	31.83
THR	100	51.00	58.89	65.84	73.61	80.64	87.10	38.84	43.42	48.55	53.18	57.45	61.41	24.44	27.32	30.55	33.47	36.15	38.64
TMR	100	60.00	69.28	77.46	86.60	94.87	102.47	45.69	51.08	57.11	62.56	67.58	72.24	28.76	32.15	35.95	39.38	42.54	45.47

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-407C	1.72	1.65	1.58	1.51	1.44	1.37	1.29	1.22	1.15	1.07	1.00	0.92	0.85	0.77	0.69	

NOTE: These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an average evaporator temperature of 0°F. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-407H (TONS) BALANCE PORTED VALVES - NXT-R / B-SERIES / H-SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/8	0.14	0.16	0.18	0.2	0.22	0.24	0.14	0.16	0.18	0.2	0.22	0.23	0.13	0.15	0.17	0.19	0.21	0.23
NXT-R	1/4	0.36	0.42	0.47	0.52	0.57	0.62	0.36	0.41	0.46	0.51	0.56	0.61	0.35	0.4	0.45	0.5	0.55	0.59
NXT-R	1/2	0.6	0.7	0.78	0.87	0.95	1.03	0.59	0.69	0.77	0.86	0.94	1.02	0.58	0.67	0.74	0.83	0.91	0.98
NXT-R	3/4	0.81	0.93	1.04	1.16	1.28	1.38	0.8	0.92	1.03	1.15	1.26	1.36	0.77	0.89	1	1.11	1.22	1.32
NXT-R	1	1.45	1.67	1.87	2.09	2.29	2.47	1.43	1.65	1.84	2.06	2.26	2.44	1.38	1.6	1.79	2	2.19	2.36
NXT-R	1 1/4	1.93	2.23	2.49	2.78	3.05	3.29	1.9	2.2	2.46	2.75	3.01	3.25	1.84	2.13	2.38	2.66	2.92	3.15
NXT-R	1 1/2	2.57	2.97	3.32	3.71	4.06	4.39	2.53	2.93	3.27	3.66	4.01	4.33	2.46	2.84	3.17	3.55	3.88	4.2
NXT-R	2	2.87	3.32	3.71	4.15	4.54	4.91	2.83	3.27	3.66	4.09	4.48	4.84	2.75	3.17	3.55	3.97	4.35	4.69
NXT-R	2 1/2	3.75	4.33	4.84	5.41	5.92	6.4	3.69	4.27	4.77	5.33	5.84	6.31	3.58	4.14	4.63	5.17	5.66	6.12
NXT-R	3	4.14	4.79	5.35	5.98	6.55	7.08	4.09	4.72	5.28	5.9	6.46	6.98	3.96	4.58	5.12	5.72	6.27	6.77
NXT-R	3 1/2	5.06	5.85	6.54	7.31	8	8.65	4.99	5.77	6.45	7.21	7.89	8.53	4.84	5.59	6.25	6.99	7.66	8.27
NXT-R	4	5.93	6.85	7.66	8.57	9.38	10.13	5.85	6.76	7.56	8.45	9.25	10	5.68	6.55	7.33	8.19	8.97	9.69
NXT-R	5 1/2	7.27	8.39	9.38	10.49	11.49	12.41	7.17	8.28	9.26	10.35	11.34	12.24	6.95	8.03	8.98	10.04	10.99	11.87
BA/BN	1/2	0.46	0.54	0.6	0.67	0.73	0.79	0.46	0.53	0.59	0.66	0.72	0.78	0.44	0.51	0.57	0.64	0.7	0.76
BA/BN	1	0.88	1.02	1.14	1.27	1.39	1.5	0.87	1	1.12	1.25	1.37	1.48	0.84	0.97	1.09	1.22	1.33	1.44
BA/BN	1-3/4	1.37	1.58	1.77	1.98	2.17	2.34	1.35	1.56	1.75	1.95	2.14	2.31	1.31	1.52	1.69	1.89	2.08	2.24
BA/BN	2	1.84	2.12	2.37	2.65	2.9	3.14	1.81	2.09	2.34	2.61	2.86	3.09	1.76	2.03	2.27	2.53	2.78	3
BA/BN	3	2.32	2.68	2.99	3.35	3.67	3.96	2.29	2.64	2.95	3.3	3.61	3.9	2.22	2.56	2.86	3.2	3.51	3.79
BA/BN	3-1/2	2.81	3.24	3.63	4.06	4.44	4.8	2.77	3.2	3.58	4	4.38	4.73	2.69	3.1	3.47	3.88	4.25	4.59
BA/BN	4-1/2	3.63	4.2	4.69	5.25	5.75	6.21	3.58	4.14	4.63	5.17	5.67	6.12	3.48	4.01	4.49	5.02	5.5	5.94
BA/BN	6	4.61	5.32	5.95	6.65	7.29	7.87	4.55	5.25	5.87	6.56	7.19	7.76	4.41	5.09	5.69	6.36	6.97	7.53
BA/BN	7-1/2	5.72	6.61	7.39	8.26	9.05	9.77	5.64	6.52	7.28	8.14	8.92	9.64	5.47	6.32	7.06	7.9	8.65	9.34
HF	1/4	0.24	0.28	0.31	0.35	0.38	0.41	0.24	0.27	0.31	0.34	0.38	0.41	0.23	0.27	0.3	0.33	0.36	0.39
HF	1/2	0.46	0.53	0.59	0.66	0.72	0.78	0.45	0.52	0.58	0.65	0.71	0.77	0.44	0.5	0.56	0.63	0.69	0.75
HF	1	0.82	0.94	1.06	1.18	1.29	1.4	0.81	0.93	1.04	1.16	1.28	1.38	0.78	0.9	1.01	1.13	1.24	1.34
HF	1-1/2	1.25	1.44	1.61	1.8	1.97	2.13	1.23	1.42	1.59	1.78	1.95	2.1	1.19	1.38	1.54	1.72	1.89	2.04
HF	2	1.69	1.95	2.18	2.44	2.67	2.88	1.67	1.92	2.15	2.4	2.63	2.84	1.62	1.87	2.09	2.33	2.55	2.76
HF	2-3/4	2.16	2.5	2.79	3.12	3.42	3.69	2.13	2.46	2.75	3.08	3.37	3.64	2.07	2.39	2.67	2.99	3.27	3.53
HF	3-1/2	2.85	3.29	3.68	4.11	4.51	4.87	2.81	3.25	3.63	4.06	4.45	4.8	2.73	3.15	3.52	3.94	4.31	4.66
HF	6-1/2	5.07	5.86	6.55	7.32	8.02	8.66	5	5.78	6.46	7.22	7.91	8.55	4.85	5.6	6.27	7.01	7.67	8.29
HF	9	7.05	8.14	9.11	10.18	11.15	12.05	6.96	8.03	8.98	10.04	11	11.88	6.75	7.79	8.71	9.74	10.67	11.53
HF	11-1/2	8.96	10.34	11.56	12.93	14.16	15.3	8.83	10.2	11.41	12.75	13.97	15.09	8.57	9.9	11.06	12.37	13.55	14.64
HF	17	13.26	15.31	17.12	19.14	20.97	22.65	13.08	15.11	16.89	18.88	20.69	22.34	12.69	14.65	16.38	18.32	20.07	21.67
HF	22	17.4	20.09	22.46	25.11	27.51	29.71	17.16	19.81	22.15	24.77	27.13	29.31	16.65	19.22	21.49	24.03	26.32	28.43

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV.

R-407H (TONS) BALANCE PORTED VALVES - NXT-R / B-SERIES / H-SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/8	0.12	0.14	0.15	0.17	0.19	0.20	0.09	0.10	0.11	0.13	0.14	0.14	0.06	0.07	0.07	0.08	0.09	0.09
NXT-R	1/4	0.31	0.36	0.40	0.44	0.49	0.53	0.24	0.27	0.30	0.33	0.35	0.38	0.15	0.17	0.19	0.21	0.22	0.24
NXT-R	1/2	0.51	0.59	0.66	0.74	0.81	0.88	0.40	0.44	0.50	0.54	0.59	0.63	0.25	0.28	0.32	0.35	0.37	0.40
NXT-R	3/4	0.69	0.79	0.89	0.99	1.09	1.17	0.53	0.59	0.66	0.73	0.78	0.84	0.34	0.38	0.42	0.46	0.50	0.53
NXT-R	1	1.23	1.42	1.59	1.78	1.95	2.11	0.95	1.06	1.19	1.30	1.41	1.50	0.61	0.68	0.76	0.83	0.90	0.96
NXT-R	1 1/4	1.64	1.90	2.12	2.37	2.60	2.81	1.27	1.42	1.59	1.74	1.88	2.01	0.81	0.90	1.01	1.11	1.19	1.28
NXT-R	1 1/2	2.19	2.53	2.83	3.16	3.46	3.74	1.69	1.89	2.11	2.31	2.50	2.67	1.07	1.20	1.34	1.47	1.59	1.70
NXT-R	2	2.45	2.83	3.16	3.54	3.87	4.18	1.89	2.11	2.36	2.59	2.80	2.99	1.20	1.34	1.50	1.65	1.78	1.90
NXT-R	2 1/2	3.19	3.69	4.12	4.61	5.05	5.45	2.46	2.76	3.08	3.37	3.64	3.90	1.57	1.75	1.96	2.15	2.32	2.48
NXT-R	3	3.53	4.08	4.56	5.10	5.59	6.03	2.73	3.05	3.41	3.73	4.03	4.31	1.73	1.94	2.17	2.37	2.57	2.74
NXT-R	3 1/2	4.32	4.98	5.57	6.23	6.82	7.37	3.33	3.72	4.16	4.56	4.93	5.27	2.12	2.37	2.65	2.90	3.13	3.35
NXT-R	4	5.06	5.84	6.53	7.30	8.00	8.64	3.90	4.36	4.88	5.35	5.77	6.17	2.48	2.78	3.10	3.40	3.67	3.93
NXT-R	5 1/2	6.20	7.15	8.00	8.94	9.80	10.58	4.78	5.35	5.98	6.55	7.07	7.56	3.04	3.40	3.80	4.17	4.50	4.81
BA/BN	1/2	0.40	0.46	0.51	0.57	0.62	0.67	0.31	0.34	0.38	0.42	0.45	0.48	0.19	0.22	0.24	0.27	0.29	0.31
BA/BN	1	0.75	0.87	0.97	1.08	1.19	1.28	0.58	0.65	0.72	0.79	0.86	0.92	0.37	0.41	0.46	0.50	0.55	0.58
BA/BN	1-3/4	1.17	1.35	1.51	1.69	1.85	2.00	0.90	1.01	1.13	1.24	1.34	1.43	0.57	0.64	0.72	0.79	0.85	0.91
BA/BN	2	1.56	1.81	2.02	2.26	2.47	2.67	1.21	1.35	1.51	1.65	1.79	1.91	0.77	0.86	0.96	1.05	1.14	1.21
BA/BN	3	1.98	2.28	2.55	2.85	3.12	3.37	1.53	1.71	1.91	2.09	2.26	2.41	0.97	1.08	1.21	1.33	1.43	1.53
BA/BN	3-1/2	2.39	2.77	3.09	3.46	3.79	4.09	1.85	2.07	2.31	2.53	2.73	2.92	1.18	1.31	1.47	1.61	1.74	1.86
BA/BN	4-1/2	3.10	3.58	4.00	4.47	4.90	5.29	2.39	2.67	2.99	3.27	3.54	3.78	1.52	1.70	1.90	2.08	2.25	2.40
BA/BN	6	3.93	4.54	5.07	5.67	6.21	6.71	3.03	3.39	3.79	4.15	4.48	4.79	1.93	2.16	2.41	2.64	2.85	3.05
BA/BN	7-1/2	4.88	5.63	6.30	7.04	7.71	8.33	3.76	4.21	4.70	5.15	5.57	5.95	2.39	2.68	2.99	3.28	3.54	3.79
HF	1/4	0.21	0.24	0.27	0.30	0.33	0.35	0.16	0.18	0.20	0.22	0.23	0.25	0.10	0.11	0.13	0.14	0.15	0.16
HF	1/2	0.39	0.45	0.50	0.56	0.62	0.67	0.30	0.34	0.38	0.41	0.44	0.48	0.19	0.21	0.24	0.26	0.28	0.30
HF	1	0.70	0.81	0.90	1.01	1.10	1.19	0.54	0.60	0.67	0.74	0.80	0.85	0.34	0.38	0.43	0.47	0.51	0.54
HF	1-1/2	1.07	1.23	1.38	1.54	1.68	1.82	0.82	0.92	1.03	1.13	1.22	1.30	0.52	0.59	0.65	0.72	0.77	0.83
HF	2	1.44	1.66	1.86	2.08	2.28	2.46	1.11	1.24	1.39	1.52	1.64	1.76	0.71	0.79	0.88	0.97	1.05	1.12
HF	2-3/4	1.84	2.13	2.38	2.66	2.92	3.15	1.42	1.59	1.78	1.95	2.11	2.25	0.91	1.01	1.13	1.24	1.34	1.43
HF	3-1/2	2.43	2.81	3.14	3.51	3.85	4.15	1.88	2.10	2.35	2.57	2.78	2.97	1.20	1.34	1.49	1.64	1.77	1.89
HF	6-1/2	4.33	5.00	5.59	6.25	6.84	7.39	3.34	3.74	4.18	4.58	4.94	5.28	2.13	2.38	2.66	2.91	3.15	3.36
HF	9	6.02	6.95	7.77	8.69	9.51	10.28	4.65	5.20	5.81	6.36	6.87	7.35	2.96	3.31	3.70	4.05	4.37	4.68
HF	11-1/2	7.64	8.82	9.87	11.03	12.08	13.05	5.90	6.60	7.38	8.08	8.73	9.33	3.76	4.20	4.69	5.14	5.55	5.94
HF	17	11.32	13.07	14.61	16.33	17.89	19.32	8.74	9.77	10.92	11.96	12.92	13.82	5.56	6.22	6.95	7.62	8.23	8.79
HF	22	14.84	17.14	19.16	21.42	23.47	25.35	11.46	12.81	14.33	15.69	16.95	18.12	7.29	8.16	9.12	9.99	10.79	11.53

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-407H	1.65	1.59	1.52	1.46	1.40	1.33	1.27	1.20	1.13	1.07	1.00	0.93	0.86	0.79	0.71	

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-410A BALANCED PORTED VALVES (TONS) B SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																							
		50 °F								40 °F								20 °F							
		PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)							
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285			
BA/BN	1	0.8	1.0	1.1	1.2	1.3	1.4	1.6	0.8	1.0	1.1	1.2	1.3	1.4	1.5	0.8	0.9	1.1	1.1	1.1	1.3	1.4	1.5		
	1-1/2	1.3	1.6	1.8	1.9	2.2	1.4	1.6	1.3	1.6	1.7	1.9	2.1	2.3	2.5	1.3	1.5	1.7	1.8	2.1	2.2	2.4			
	2	1.8	2.2	2.5	2.6	3.0	3.2	3.5	1.8	2.2	2.4	2.6	3.0	3.2	3.5	1.7	2.1	2.4	2.6	2.9	3.1	3.4			
	3	2.3	2.8	3.1	3.3	3.8	4.1	4.5	2.3	2.8	3.1	3.3	3.8	4.1	4.4	2.2	2.7	3.0	3.2	3.7	4.0	4.3			
	3-1/2	3.0	3.6	4.0	4.3	5.0	5.3	5.8	2.9	3.6	4.0	4.3	4.9	5.3	5.7	2.9	3.5	3.9	4.2	4.8	5.1	5.6			
	4-1/2	4.1	5.0	5.6	6.0	6.9	7.4	8.0	4.1	5.0	5.6	6.0	6.9	7.3	8.0	4.0	4.9	5.5	5.9	6.7	7.2	7.8			
	6	5.1	6.1	6.9	7.4	8.5	9.0	9.9	5.0	6.1	6.8	7.3	8.4	9.0	9.8	4.9	5.9	6.7	7.2	8.2	8.8	9.6			
7-1/2	6.2	7.5	8.5	9.1	10.4	11.1	12.1	6.2	7.5	8.4	9.0	10.3	11.0	12.0	6.0	7.3	8.2	8.8	10.1	10.8	11.8				

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																					
		0 °F							-20 °F							-40 °F							
		PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285	
BA/BN	1	0.8	0.9	1.0	1.1	1.3	1.4	1.5	0.7	0.9	1.0	1.1	1.2	1.3	1.4	0.7	0.9	1.0	1.0	1.2	1.3	1.4	
	1-1/2	1.2	1.5	1.7	1.8	2.0	2.2	2.4	1.2	1.4	1.6	1.7	2.0	2.1	2.3	1.1	1.4	1.6	1.7	1.9	2.0	2.2	
	2	1.7	2.1	2.3	2.5	2.8	3.0	3.3	1.6	2.0	2.3	2.4	2.8	3.0	3.2	1.6	1.9	2.2	2.3	2.7	2.8	3.1	
	3	2.2	2.6	3.0	3.2	3.6	3.9	4.2	2.1	2.5	2.9	3.1	3.5	3.8	4.1	2.0	2.5	2.8	3.0	3.4	3.6	3.9	
	3-1/2	2.8	3.4	3.8	4.1	4.7	5.0	5.5	2.7	3.3	3.7	4.0	4.5	4.8	5.3	2.6	3.2	3.6	3.8	4.4	4.7	5.1	
	4-1/2	3.9	4.7	5.3	5.7	6.5	7.0	7.6	3.8	4.6	5.2	5.5	6.3	6.8	7.4	3.6	4.4	5.0	5.3	6.1	6.5	7.1	
	6	4.8	5.8	6.5	7.0	8.0	8.5	9.3	4.6	5.6	6.3	6.8	7.7	8.3	9.0	4.5	5.4	6.1	6.5	7.5	8.0	8.7	
7-1/2	5.9	7.1	8.0	8.6	9.8	10.5	11.4	5.7	6.9	7.8	8.3	9.5	10.2	11.1	5.5	6.6	7.5	8.0	9.2	9.8	10.7		

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evap temperature; with 160 PSI pressure drop across TXV per ARI-750-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

R-410A BALANCED PORTED VALVES (TONS) NXT SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																					
		50 °F								40 °F								20 °F					
		PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)								PRESSURE DROP ACROSS VALVE (PSI)					
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285	
NXT Series	1/2	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.4	0.5	0.5	0.5	0.6	0.7	0.7	
	1	0.7	0.8	0.9	1.0	1.2	1.2	1.3	0.7	0.8	0.9	1.0	1.1	1.2	1.3	0.7	0.8	0.9	1.0	1.1	1.2	1.3	
	1-1/2	1.0	1.3	1.4	1.5	1.7	1.9	2.0	1.0	1.2	1.4	1.5	1.7	1.8	2.0	1.0	1.2	1.4	1.5	1.7	1.8	2.0	
	2	1.4	1.7	1.9	2.0	2.3	2.5	2.7	1.4	1.7	1.9	2.0	2.3	2.4	2.7	1.3	1.6	1.8	2.0	2.2	2.4	2.6	
	3	2.1	2.5	2.8	3.0	3.5	3.7	4.0	2.1	2.5	2.8	3.0	3.4	3.7	4.0	2.0	2.4	2.7	2.9	3.4	3.6	3.9	
	4	2.8	3.3	3.8	4.0	4.6	4.9	5.4	2.7	3.3	3.7	4.0	4.6	4.9	5.3	2.7	3.2	3.7	3.9	4.5	4.8	5.2	
	5	3.5	4.2	4.7	5.0	5.8	6.2	6.7	3.4	4.1	4.7	5.0	5.7	6.1	6.7	3.3	4.1	4.6	4.9	5.6	6.0	6.5	
	6	4.1	5.0	5.7	6.1	6.9	7.4	8.1	4.1	5.0	5.6	6.0	6.9	7.3	8.0	4.0	4.9	5.5	5.9	6.7	7.2	7.8	
	7	4.8	5.9	6.6	7.1	8.1	8.6	9.4	4.8	5.8	6.5	7.0	8.0	8.6	9.3	4.7	5.7	6.4	6.8	7.8	8.4	9.1	
	8	5.8	7.0	7.9	8.5	9.7	10.4	11.3	5.7	7.0	7.8	8.4	9.6	10.3	11.2	5.6	6.8	7.7	8.2	9.4	10.1	11.0	
	10	7.1	8.6	9.7	10.4	11.9	12.7	13.9	7.1	8.5	9.6	10.3	11.8	12.6	13.8	6.9	8.4	9.4	10.1	11.6	12.4	13.5	
	12	8.7	10.6	11.9	12.7	14.6	15.6	17.0	8.6	10.5	11.8	12.6	14.5	15.5	16.9	8.5	10.2	11.6	12.4	14.2	15.1	16.5	
	15	10.2	12.4	14.0	14.9	17.1	18.3	19.9	10.1	12.3	13.8	14.8	16.9	18.1	19.7	9.9	12.0	13.5	14.5	16.6	17.7	19.3	

R-410A BALANCED PORTED VALVES (TONS) NXT SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																				
		0 °F							-20 °F							-40 °F						
		PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)						
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285
NXT Series	1/2	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.3	0.4	0.5	0.6	0.6	0.6	0.7
	1	0.7	0.8	0.9	1.0	1.1	1.2	1.3	0.6	0.6	0.9	0.9	1.1	1.1	1.2	0.6	0.7	0.8	0.9	1.0	1.1	1.2
	1-1/2	1.0	1.2	1.3	1.4	1.6	1.8	1.9	0.9	1.1	1.3	1.4	1.6	1.7	1.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8
	2	1.3	1.6	1.8	1.9	2.2	2.3	2.5	1.3	1.5	1.7	1.8	2.1	2.3	2.5	1.2	1.5	1.7	1.8	2.0	2.2	2.4
	3	2.0	2.4	2.7	2.9	3.3	3.5	3.8	1.9	2.3	2.6	2.8	3.2	3.4	3.7	1.8	2.2	2.5	2.7	3.1	3.3	3.6
	4	2.6	3.2	3.6	3.8	4.4	4.7	5.1	2.5	3.1	3.5	3.7	4.2	4.5	4.9	2.4	3.0	3.3	3.6	4.1	4.4	4.8
	5	3.3	3.9	4.5	4.8	5.5	5.8	6.4	3.2	3.8	4.3	4.6	5.3	5.7	6.2	3.0	3.7	4.2	4.5	5.1	5.5	5.9
	6	3.9	4.7	5.3	5.7	6.5	7.0	7.6	3.8	4.6	5.2	5.5	6.3	6.8	7.4	3.7	4.4	5.0	5.3	6.1	6.5	7.1
	7	4.8	5.9	6.6	6.7	8.1	8.6	9.4	4.4	5.4	6.0	6.5	7.4	7.9	8.6	4.3	5.2	5.8	6.2	7.1	7.6	8.3
	8	5.5	6.6	7.5	8.0	9.2	9.8	10.7	5.3	6.4	7.2	7.7	8.9	9.5	10.3	5.1	6.2	7.0	7.5	8.6	9.2	10.0
	10	6.7	8.1	9.2	9.8	11.3	12.0	13.1	6.5	7.9	8.9	9.5	10.9	11.7	12.7	6.3	7.6	8.6	9.2	10.5	11.2	12.3
	12	8.2	10.0	11.3	12.0	13.8	14.7	16.1	8.0	9.7	10.9	11.7	13.4	14.3	15.6	7.7	9.3	10.5	11.2	12.9	13.8	15.0
15	9.6	11.7	13.2	14.1	16.1	17.3	18.8	9.3	11.3	12.8	13.7	15.6	16.7	18.2	9.0	10.3	12.3	13.2	15.1	15.1	17.6	

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evap temperature; with 160 PSI pressure drop across TXV per ARI-750-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

R-410A BALANCE PORTED VALVES (TONS) TFE SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																				
		50 °F							40 °F							20 °F						
		PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)						
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285
TFES	12	8.1	9.9	11.1	11.9	13.6	14.6	15.9	8.1	9.8	11.0	11.8	13.5	14.5	15.7	7.9	9.6	10.8	11.5	13.2	14.1	15.4
	16	12.4	15.0	16.9	18.1	20.7	22.1	24.1	12.3	14.8	16.7	17.9	20.5	21.9	23.9	12.0	14.5	16.4	17.5	20.1	21.5	23.4
	20	13.3	16.1	18.2	19.5	22.3	23.8	26.0	13.2	16.0	18.1	19.3	22.1	23.6	25.8	12.9	15.7	17.7	18.9	21.6	23.1	25.2

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																				
		0 °F							-20 °F							-40 °F						
		PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)						
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285
TFES	12	7.7	9.3	10.5	11.2	12.9	13.8	15.0	7.5	9.0	10.2	10.9	12.5	13.3	14.5	7.2	8.7	9.8	10.5	12.0	12.9	14.0
	16	11.7	14.1	16.0	17.1	19.5	20.9	22.8	11.3	13.7	15.5	16.5	18.9	20.2	22.1	10.9	13.2	14.9	15.9	18.3	19.5	21.3
	20	12.6	15.2	17.2	18.4	21.1	22.5	24.5	12.2	14.8	16.7	17.8	20.4	21.8	23.8	11.8	14.3	16.1	17.2	19.7	21.1	22.9

NOTE: Standard capacity is rated at 100 °F liquid inlet and 40 °F evap temperature; with 160 PSI pressure drop across TXV per ARI 750-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	50	60	70	80	90	100	110	120	130	140	100	110	120	130	140
R-410A	1.37	1.30	1.23	1.15	1.08	1.00	0.92	0.84	0.75	0.65	1.00	0.93	0.86	0.79	0.71

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-448A / R-449A (TONS) BALANCE PORTED VALVES - NXT-R, B SERIES AND H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/5	0.12	0.14	0.15	0.17	0.19	0.20	0.12	0.14	0.15	0.17	0.19	0.20	0.11	0.13	0.15	0.16	0.18	0.19
NXT-R	1/4	0.31	0.36	0.40	0.45	0.49	0.53	0.30	0.35	0.39	0.44	0.48	0.52	0.29	0.34	0.38	0.42	0.46	0.50
NXT-R	1/2	0.52	0.60	0.67	0.74	0.82	0.88	0.51	0.59	0.66	0.73	0.80	0.87	0.49	0.56	0.63	0.71	0.77	0.83
NXT-R	1	0.69	0.80	0.89	1.00	1.09	1.18	0.68	0.78	0.88	0.98	1.07	1.16	0.65	0.75	0.84	0.94	1.03	1.12
NXT-R	1 1/2	1.24	1.43	1.60	1.79	1.96	2.12	1.22	1.41	1.57	1.76	1.93	2.08	1.17	1.35	1.51	1.69	1.85	2.00
NXT-R	2	1.65	1.91	2.13	2.38	2.61	2.82	1.62	1.87	2.10	2.34	2.57	2.77	1.56	1.81	2.02	2.26	2.47	2.67
NXT-R	2 1/2	2.20	2.54	2.84	3.17	3.48	3.76	2.16	2.50	2.79	3.12	3.42	3.69	2.08	2.40	2.69	3.00	3.29	3.56
NXT-R	3	2.46	2.84	3.18	3.55	3.89	4.20	2.42	2.79	3.12	3.49	3.83	4.13	2.33	2.69	3.01	3.36	3.68	3.98
NXT-R	3 1/2	3.21	3.70	4.14	4.63	5.07	5.48	3.15	3.64	4.07	4.55	4.99	5.39	3.04	3.51	3.92	4.38	4.80	5.19
NXT-R	4	3.55	4.10	4.58	5.12	5.61	6.06	3.49	4.03	4.50	5.04	5.52	5.96	3.36	3.88	4.34	4.85	5.31	5.74
NXT-R	5	4.01	4.63	5.18	5.79	6.34	6.85	3.94	4.55	5.09	5.69	6.23	6.73	3.80	4.38	4.90	5.48	6.00	6.48
NXT-R	5 1/2	4.34	5.01	5.60	6.26	6.86	7.40	4.26	4.92	5.50	6.15	6.74	7.28	4.10	4.74	5.30	5.92	6.49	7.01
NXT-R	6	5.08	5.87	6.56	7.34	8.04	8.68	5.00	5.77	6.45	7.21	7.90	8.53	4.81	5.55	6.21	6.94	7.61	8.21
BA/BN	1/2	0.40	0.46	0.52	0.58	0.64	0.69	0.40	0.46	0.51	0.57	0.63	0.68	0.39	0.45	0.50	0.56	0.61	0.66
BA/BN	1	0.76	0.88	0.99	1.10	1.21	1.30	0.76	0.87	0.97	1.09	1.19	1.29	0.74	0.85	0.95	1.06	1.17	1.26
BA/BN	1-1/2	1.19	1.37	1.53	1.72	1.88	2.03	1.18	1.36	1.52	1.70	1.86	2.01	1.15	1.33	1.48	1.66	1.82	1.96
BA/BN	2	1.59	1.84	2.05	2.30	2.51	2.72	1.57	1.82	2.03	2.27	2.49	2.69	1.54	1.77	1.98	2.22	2.43	2.62
BA/BN	2-1/2	2.01	2.32	2.59	2.90	3.18	3.43	1.99	2.29	2.57	2.87	3.14	3.39	1.94	2.24	2.50	2.80	3.07	3.31
BA/BN	3	2.43	2.81	3.14	3.51	3.85	4.16	2.41	2.78	3.11	3.48	3.81	4.11	2.35	2.71	3.04	3.39	3.72	4.02
BA/BN	4	3.15	3.64	4.06	4.54	4.98	5.38	3.12	3.60	4.02	4.50	4.93	5.32	3.04	3.51	3.93	4.39	4.81	5.19
BA/BN	5	3.99	4.61	5.15	5.76	6.31	6.82	3.95	4.56	5.10	5.70	6.25	6.75	3.86	4.45	4.98	5.57	6.10	6.59
BA/BN	6	4.96	5.72	6.40	7.15	7.84	8.46	4.90	5.66	6.33	7.08	7.75	8.38	4.79	5.53	6.18	6.91	7.57	8.18
HF	1/4	0.22	0.26	0.29	0.32	0.36	0.38	0.22	0.26	0.29	0.32	0.35	0.38	0.22	0.25	0.28	0.31	0.34	0.37
HF	1/2	0.43	0.49	0.55	0.61	0.67	0.73	0.42	0.49	0.54	0.61	0.67	0.72	0.41	0.47	0.53	0.59	0.65	0.70
HF	1	0.76	0.88	0.99	1.10	1.21	1.30	0.76	0.87	0.97	1.09	1.19	1.29	0.74	0.85	0.95	1.06	1.17	1.26
HF	1-1/2	1.16	1.34	1.50	1.68	1.84	1.99	1.15	1.33	1.49	1.66	1.82	1.97	1.13	1.30	1.45	1.62	1.78	1.92
HF	2	1.57	1.82	2.03	2.27	2.49	2.69	1.56	1.80	2.01	2.25	2.46	2.66	1.52	1.76	1.96	2.20	2.40	2.60
HF	2-1/2	2.02	2.33	2.60	2.91	3.19	3.44	2.00	2.30	2.58	2.88	3.15	3.41	1.95	2.25	2.51	2.81	3.08	3.33
HF	3-1/2	2.66	3.07	3.43	3.84	4.20	4.54	2.63	3.04	3.40	3.80	4.16	4.49	2.57	2.97	3.32	3.71	4.06	4.39
HF	6	4.73	5.46	6.11	6.83	7.48	8.08	4.68	5.41	6.04	6.76	7.40	8.00	4.57	5.28	5.90	6.60	7.23	7.81
HF	8-1/2	6.58	7.60	8.49	9.50	10.40	11.23	6.51	7.52	8.40	9.40	10.29	11.12	6.36	7.34	8.20	9.17	10.05	10.85
HF	10-1/2	8.35	9.65	10.78	12.06	13.21	14.27	8.27	9.55	10.67	11.93	13.07	14.12	8.07	9.32	10.42	11.65	12.76	13.78
HF	16	12.37	14.28	15.97	17.85	19.56	21.13	12.24	14.14	15.80	17.67	19.36	20.91	11.95	13.80	15.43	17.25	18.89	20.41
HF	20-1/2	16.23	18.74	20.95	23.42	25.65	27.71	16.06	18.54	20.73	23.18	25.39	27.42	15.67	18.10	20.24	22.62	24.78	26.77

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evap temperature; with 160 PSI pressure drop across TXV per ARI-750-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

R-448A / R-449A (TONS) BALANCE PORTED VALVES - NXT-R, B SERIES AND H SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/5	0.11	0.12	0.14	0.15	0.17	0.18	0.08	0.09	0.10	0.11	0.12	0.13	0.05	0.06	0.07	0.07	0.08	0.08
NXT-R	1/4	0.28	0.32	0.36	0.40	0.43	0.47	0.21	0.24	0.27	0.29	0.31	0.34	0.14	0.15	0.17	0.19	0.20	0.22
NXT-R	1/2	0.46	0.53	0.59	0.66	0.72	0.78	0.35	0.40	0.44	0.49	0.52	0.56	0.23	0.25	0.28	0.31	0.34	0.36
NXT-R	1	0.61	0.71	0.79	0.89	0.97	1.05	0.48	0.53	0.59	0.65	0.70	0.75	0.30	0.34	0.38	0.42	0.45	0.48
NXT-R	1 1/2	1.10	1.27	1.42	1.59	1.74	1.88	0.85	0.95	1.06	1.17	1.26	1.35	0.54	0.61	0.68	0.75	0.81	0.86
NXT-R	2	1.47	1.69	1.89	2.12	2.32	2.51	1.14	1.27	1.42	1.56	1.68	1.80	0.73	0.81	0.91	0.99	1.07	1.15
NXT-R	2 1/2	1.95	2.26	2.52	2.82	3.09	3.34	1.51	1.69	1.89	2.07	2.24	2.39	0.97	1.08	1.21	1.32	1.43	1.53
NXT-R	3	2.19	2.52	2.82	3.16	3.46	3.73	1.69	1.89	2.12	2.32	2.50	2.68	1.08	1.21	1.35	1.48	1.60	1.71
NXT-R	3 1/2	2.85	3.29	3.68	4.11	4.51	4.87	2.21	2.47	2.76	3.02	3.26	3.49	1.41	1.58	1.76	1.93	2.09	2.23
NXT-R	4	3.15	3.64	4.07	4.55	4.98	5.38	2.44	2.73	3.05	3.34	3.61	3.86	1.56	1.74	1.95	2.14	2.31	2.47
NXT-R	5	3.56	4.11	4.60	5.14	5.63	6.08	2.76	3.08	3.45	3.78	4.08	4.36	1.76	1.97	2.20	2.41	2.61	2.79
NXT-R	5 1/2	3.85	4.45	4.97	5.56	6.09	6.58	2.98	3.33	3.73	4.08	4.41	4.71	1.91	2.13	2.38	2.61	2.82	3.01
NXT-R	6	4.51	5.21	5.83	6.51	7.14	7.71	3.49	3.91	4.37	4.79	5.17	5.53	2.23	2.50	2.79	3.06	3.30	3.53
BA/BN	1/2	0.38	0.44	0.49	0.54	0.60	0.64	0.34	0.39	0.43	0.47	0.51	0.54	0.23	0.26	0.29	0.32	0.34	0.37
BA/BN	1	0.72	0.83	0.93	1.03	1.13	1.22	0.65	0.73	0.82	0.90	0.97	1.04	0.44	0.49	0.55	0.61	0.65	0.70
BA/BN	1-1/2	1.12	1.29	1.44	1.61	1.77	1.91	1.02	1.14	1.27	1.40	1.51	1.61	0.69	0.77	0.86	0.94	1.02	1.09
BA/BN	2	1.49	1.73	1.93	2.16	2.36	2.55	1.36	1.53	1.71	1.87	2.02	2.16	0.92	1.03	1.15	1.26	1.36	1.46
BA/BN	2-1/2	1.89	2.18	2.44	2.72	2.98	3.22	1.72	1.93	2.15	2.36	2.55	2.72	1.16	1.30	1.45	1.59	1.72	1.84
BA/BN	3	2.29	2.64	2.95	3.30	3.62	3.91	2.09	2.33	2.61	2.86	3.09	3.30	1.41	1.58	1.76	1.93	2.09	2.23
BA/BN	4	2.96	3.42	3.82	4.27	4.68	5.05	2.70	3.02	3.38	3.70	4.00	4.27	1.82	2.04	2.28	2.50	2.70	2.88
BA/BN	5	3.75	4.33	4.84	5.41	5.93	6.41	3.43	3.83	4.28	4.69	5.07	5.42	2.31	2.59	2.89	3.17	3.42	3.66
BA/BN	6	4.66	5.38	6.01	6.72	7.36	7.95	4.25	4.75	5.32	5.82	6.29	6.72	2.87	3.21	3.59	3.93	4.25	4.54
HF	1/4	0.21	0.24	0.27	0.31	0.33	0.36	0.19	0.22	0.24	0.26	0.29	0.31	0.13	0.15	0.16	0.18	0.19	0.21
HF	1/2	0.40	0.46	0.52	0.58	0.63	0.68	0.37	0.41	0.46	0.50	0.54	0.58	0.25	0.28	0.31	0.34	0.36	0.39
HF	1	0.72	0.83	0.93	1.03	1.13	1.22	0.65	0.73	0.82	0.90	0.97	1.04	0.44	0.49	0.55	0.61	0.65	0.70
HF	1-1/2	1.09	1.26	1.41	1.58	1.73	1.87	1.00	1.12	1.25	1.37	1.48	1.58	0.67	0.75	0.84	0.92	1.00	1.07
HF	2	1.48	1.71	1.91	2.14	2.34	2.53	1.35	1.51	1.69	1.85	2.00	2.14	0.91	1.02	1.14	1.25	1.35	1.44
HF	2-1/2	1.89	2.19	2.45	2.73	3.00	3.24	1.73	1.93	2.16	2.37	2.56	2.74	1.17	1.31	1.46	1.60	1.73	1.85
HF	3-1/2	2.50	2.88	3.23	3.61	3.95	4.27	2.28	2.55	2.85	3.12	3.37	3.61	1.54	1.72	1.93	2.11	2.28	2.44
HF	6	4.45	5.13	5.74	6.42	7.03	7.59	4.06	4.54	5.07	5.56	6.00	6.42	2.74	3.06	3.43	3.75	4.05	4.33
HF	8-1/2	6.18	7.14	7.98	8.92	9.77	10.56	5.64	6.31	7.06	7.73	8.35	8.92	3.81	4.26	4.76	5.22	5.64	6.03
HF	10-1/2	7.85	9.06	10.13	11.33	12.41	13.41	7.17	8.01	8.96	9.81	10.60	11.33	4.84	5.41	6.05	6.63	7.16	7.65
HF	16	11.62	13.42	15.01	16.78	18.38	19.85	10.61	11.87	13.27	14.53	15.70	16.78	7.17	8.01	8.96	9.81	10.60	11.33
HF	20-1/2	15.25	17.61	19.68	22.01	24.11	26.04	13.92	15.56	17.40	19.06	20.59	22.01	9.40	10.51	11.75	12.87	13.90	14.86

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-448A/R-449A	1.71	1.64	1.57	1.50	1.43	1.36	1.29	1.22	1.15	1.07	1.00	0.92	0.85	0.77	0.69	

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-450A/R-513A BALANCE PORTED VALVES (TONS) NXT-R / B / HF SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/8	0.02	0.03	0.03	0.03	0.03	0.04	0.02	0.02	0.03	0.03	0.03	0.04	0.02	0.02	0.02	0.03	0.03	0.03
NXT-R	1/5	0.05	0.06	0.07	0.08	0.09	0.09	0.05	0.06	0.07	0.08	0.08	0.09	0.04	0.05	0.06	0.06	0.07	0.07
NXT-R	1/4	0.14	0.16	0.18	0.21	0.23	0.24	0.14	0.16	0.18	0.20	0.22	0.24	0.11	0.13	0.15	0.16	0.18	0.19
NXT-R	3/4	0.24	0.27	0.31	0.34	0.38	0.41	0.23	0.27	0.30	0.33	0.37	0.40	0.19	0.22	0.24	0.27	0.30	0.32
NXT-R	1	0.32	0.37	0.41	0.46	0.50	0.54	0.31	0.36	0.40	0.45	0.49	0.53	0.25	0.29	0.33	0.36	0.40	0.43
NXT-R	1 1/2	0.57	0.66	0.74	0.82	0.90	0.97	0.56	0.64	0.72	0.80	0.88	0.95	0.45	0.52	0.58	0.65	0.72	0.77
NXT-R	2	0.76	0.88	0.98	1.10	1.20	1.30	0.74	0.86	0.96	1.07	1.17	1.27	0.60	0.70	0.78	0.87	0.95	1.03
NXT-R	2 1/2	1.01	1.17	1.31	1.46	1.60	1.73	0.99	1.14	1.27	1.42	1.56	1.69	0.80	0.93	1.04	1.16	1.27	1.37
NXT-R	3	1.13	1.31	1.46	1.64	1.79	1.94	1.10	1.28	1.43	1.59	1.75	1.89	0.90	1.04	1.16	1.30	1.42	1.54
NXT-R	3 1/2	1.48	1.71	1.91	2.13	2.34	2.52	1.44	1.66	1.86	2.08	2.28	2.46	1.17	1.35	1.51	1.69	1.85	2.00
BA/BN	1/4	0.30	0.34	0.38	0.43	0.47	0.51	0.29	0.33	0.37	0.42	0.46	0.50	0.28	0.32	0.36	0.40	0.44	0.47
BA/BN	1/2	0.56	0.65	0.73	0.81	0.89	0.96	0.55	0.63	0.71	0.79	0.87	0.94	0.52	0.60	0.67	0.75	0.82	0.89
BA/BN	3/4	0.88	1.01	1.13	1.26	1.38	1.49	0.85	0.99	1.10	1.23	1.35	1.46	0.81	0.94	1.05	1.17	1.28	1.39
BA/BN	1	1.16	1.34	1.50	1.68	1.84	1.99	1.14	1.31	1.47	1.64	1.80	1.94	1.08	1.25	1.39	1.56	1.71	1.84
BA/BN	1-1/2	1.48	1.71	1.91	2.13	2.34	2.52	1.44	1.67	1.86	2.08	2.28	2.46	1.37	1.58	1.77	1.98	2.17	2.34
BA/BN	1-3/4	1.78	2.06	2.30	2.57	2.82	3.04	1.74	2.01	2.25	2.51	2.75	2.97	1.65	1.91	2.13	2.39	2.61	2.82
BA/BN	2-1/4	2.31	2.67	2.99	3.34	3.66	3.95	2.26	2.61	2.91	3.26	3.57	3.85	2.14	2.48	2.77	3.10	3.39	3.66
BA/BN	3	2.92	3.37	3.77	4.22	4.62	4.99	2.85	3.29	3.68	4.12	4.51	4.87	2.71	3.13	3.50	3.91	4.29	4.63
BA/BN	3-1/2	3.64	4.20	4.70	5.25	5.75	6.21	3.55	4.10	4.58	5.12	5.61	6.06	3.37	3.89	4.35	4.87	5.33	5.76
HF	1/5	0.17	0.19	0.22	0.24	0.27	0.29	0.16	0.19	0.21	0.24	0.26	0.28	0.16	0.18	0.20	0.23	0.25	0.27
HF	1/4	0.31	0.36	0.40	0.45	0.50	0.53	0.31	0.35	0.39	0.44	0.48	0.52	0.29	0.34	0.37	0.42	0.46	0.50
HF	1/2	0.56	0.65	0.73	0.81	0.89	0.96	0.55	0.63	0.71	0.79	0.87	0.94	0.52	0.60	0.67	0.75	0.82	0.89
HF	3/4	0.85	0.98	1.10	1.23	1.35	1.45	0.83	0.96	1.07	1.20	1.31	1.42	0.79	0.91	1.02	1.14	1.25	1.35
HF	1	1.15	1.33	1.48	1.66	1.82	1.96	1.12	1.29	1.45	1.62	1.77	1.91	1.06	1.23	1.37	1.54	1.68	1.82
HF	1-1/2	1.48	1.71	1.91	2.13	2.34	2.52	1.44	1.67	1.86	2.08	2.28	2.46	1.37	1.58	1.77	1.98	2.17	2.34
HF	2	1.94	2.24	2.51	2.80	3.07	3.32	1.90	2.19	2.45	2.74	3.00	3.24	1.80	2.08	2.33	2.60	2.85	3.08
HF	3-1/2	3.46	4.00	4.47	4.99	5.47	5.91	3.38	3.90	4.36	4.88	5.34	5.77	3.21	3.71	4.14	4.63	5.07	5.48
HF	4-1/2	4.82	5.56	6.22	6.95	7.62	8.23	4.70	5.43	6.07	6.79	7.44	8.03	4.47	5.16	5.77	6.45	7.06	7.63
HF	6	6.09	7.04	7.87	8.80	9.63	10.41	5.95	6.87	7.68	8.59	9.41	10.16	5.65	6.53	7.30	8.16	8.94	9.65
HF	9	9.04	10.44	11.67	13.05	14.29	15.44	8.82	10.19	11.39	12.74	13.95	15.07	8.38	9.68	10.82	12.10	13.26	14.32
HF	11-1/2	11.90	13.74	15.36	17.17	18.81	20.32	11.61	13.41	14.99	16.76	18.36	19.84	11.03	12.74	14.25	15.93	17.45	18.84

NOTE: Standard capacity is rate at 100F liquid inlet and 40°F evaporator temperature; with 60 PSI pressure drop across the TXV.

R-450A/R-513A BALANCE PORTED VALVES (TONS) NXT-R / B / HF SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/8	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NXT-R	1/5	0.03	0.03	0.04	0.04	0.05	0.05	0.02	0.02	0.03	0.03	0.03	0.04	0.01	0.02	0.02	0.02	0.02	0.02
NXT-R	1/4	0.08	0.09	0.10	0.11	0.12	0.13	0.06	0.06	0.07	0.08	0.09	0.09	0.04	0.04	0.04	0.05	0.05	0.06
NXT-R	3/4	0.13	0.15	0.17	0.19	0.20	0.22	0.10	0.11	0.12	0.13	0.14	0.15	0.06	0.07	0.07	0.08	0.09	0.09
NXT-R	1	0.17	0.20	0.22	0.25	0.27	0.29	0.13	0.14	0.16	0.18	0.19	0.20	0.08	0.09	0.10	0.11	0.12	0.13
NXT-R	1 1/2	0.31	0.36	0.40	0.44	0.49	0.53	0.23	0.26	0.29	0.32	0.34	0.37	0.14	0.16	0.18	0.20	0.21	0.23
NXT-R	2	0.41	0.47	0.53	0.59	0.65	0.70	0.31	0.35	0.39	0.42	0.46	0.49	0.19	0.21	0.24	0.26	0.28	0.30
NXT-R	2 1/2	0.55	0.63	0.71	0.79	0.86	0.93	0.41	0.46	0.51	0.56	0.61	0.65	0.26	0.29	0.32	0.35	0.38	0.40
NXT-R	3	0.61	0.71	0.79	0.88	0.97	1.05	0.46	0.52	0.58	0.63	0.68	0.73	0.29	0.32	0.36	0.39	0.42	0.45
NXT-R	3 1/2	0.80	0.92	1.03	1.15	1.26	1.36	0.60	0.67	0.75	0.82	0.89	0.95	0.37	0.42	0.47	0.51	0.55	0.59
BA/BN	1/4	0.20	0.23	0.26	0.29	0.32	0.34	0.15	0.17	0.19	0.21	0.22	0.24	0.09	0.10	0.11	0.12	0.13	0.14
BA/BN	1/2	0.38	0.44	0.49	0.55	0.60	0.65	0.29	0.32	0.36	0.39	0.42	0.45	0.16	0.18	0.20	0.22	0.24	0.26
BA/BN	3/4	0.59	0.68	0.76	0.85	0.93	1.01	0.45	0.50	0.56	0.61	0.66	0.71	0.25	0.28	0.32	0.35	0.38	0.40
BA/BN	1	0.78	0.90	1.01	1.13	1.24	1.34	0.59	0.66	0.74	0.81	0.88	0.94	0.34	0.38	0.42	0.46	0.50	0.54
BA/BN	1-1/2	0.99	1.15	1.28	1.44	1.57	1.70	0.75	0.84	0.94	1.03	1.11	1.19	0.43	0.48	0.54	0.59	0.64	0.68
BA/BN	1-3/4	1.20	1.39	1.55	1.73	1.90	2.05	0.91	1.02	1.14	1.25	1.35	1.44	0.52	0.58	0.65	0.71	0.77	0.82
BA/BN	2-1/4	1.56	1.80	2.01	2.25	2.46	2.66	1.18	1.32	1.47	1.62	1.74	1.87	0.67	0.75	0.84	0.92	1.00	1.06
BA/BN	3	1.97	2.27	2.54	2.84	3.11	3.36	1.49	1.67	1.86	2.04	2.21	2.36	0.85	0.95	1.06	1.17	1.26	1.35
BA/BN	3-1/2	2.45	2.83	3.16	3.53	3.87	4.18	1.86	2.07	2.32	2.54	2.74	2.93	1.06	1.18	1.32	1.45	1.57	1.67
HF	1/5	0.11	0.13	0.15	0.16	0.18	0.19	0.09	0.10	0.11	0.12	0.13	0.14	0.05	0.05	0.06	0.07	0.07	0.08
HF	1/4	0.21	0.24	0.27	0.30	0.33	0.36	0.16	0.18	0.20	0.22	0.24	0.25	0.09	0.10	0.11	0.12	0.13	0.14
HF	1/2	0.38	0.44	0.49	0.55	0.60	0.65	0.29	0.32	0.36	0.39	0.42	0.45	0.16	0.18	0.20	0.22	0.24	0.26
HF	3/4	0.57	0.66	0.74	0.83	0.91	0.98	0.43	0.49	0.54	0.59	0.64	0.69	0.25	0.28	0.31	0.34	0.37	0.39
HF	1	0.77	0.89	1.00	1.12	1.22	1.32	0.59	0.65	0.73	0.80	0.87	0.93	0.33	0.37	0.42	0.46	0.49	0.53
HF	1-1/2	0.99	1.15	1.28	1.44	1.57	1.70	0.75	0.84	0.94	1.03	1.11	1.19	0.43	0.48	0.54	0.59	0.64	0.68
HF	2	1.31	1.51	1.69	1.89	2.07	2.23	0.99	1.11	1.24	1.36	1.47	1.57	0.57	0.63	0.71	0.77	0.84	0.89
HF	3-1/2	2.33	2.69	3.01	3.36	3.68	3.98	1.77	1.97	2.21	2.42	2.61	2.79	1.01	1.13	1.26	1.38	1.49	1.59
HF	4-1/2	3.24	3.74	4.19	4.68	5.13	5.54	2.46	2.75	3.07	3.37	3.64	3.89	1.40	1.57	1.75	1.92	2.07	2.22
HF	6	4.10	4.74	5.30	5.92	6.49	7.01	3.11	3.48	3.89	4.26	4.60	4.92	1.77	1.98	2.22	2.43	2.62	2.81
HF	9	6.09	7.03	7.86	8.78	9.62	10.39	4.61	5.16	5.77	6.32	6.82	7.29	2.63	2.94	3.29	3.60	3.89	4.16
HF	11-1/2	8.01	9.25	10.34	11.56	12.66	13.68	6.07	6.79	7.59	8.31	8.98	9.60	3.46	3.87	4.33	4.74	5.12	5.48

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-450A/R-513A	1.73	1.65	1.58	1.51	1.44	1.36	1.29	1.22	1.15	1.07	1.00	0.93	0.85	0.78	0.70

NOTE: These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an average evaporator temperature of 0°F. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-452A (TONS) BALANCE PORTED VALVES - B SERIES AND H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/5	0.09	0.10	0.12	0.13	0.14	0.15	0.09	0.10	0.11	0.13	0.14	0.15	0.08	0.10	0.11	0.12	0.13	0.14
NXT-R	1/4	0.23	0.27	0.30	0.34	0.37	0.40	0.23	0.26	0.29	0.33	0.36	0.39	0.22	0.25	0.28	0.31	0.34	0.37
NXT-R	1/2	0.39	0.45	0.50	0.56	0.62	0.67	0.38	0.44	0.49	0.55	0.60	0.65	0.36	0.42	0.47	0.52	0.57	0.62
NXT-R	1	0.52	0.60	0.67	0.75	0.82	0.89	0.51	0.59	0.66	0.73	0.80	0.87	0.48	0.56	0.62	0.70	0.76	0.82
NXT-R	1 1/2	0.93	1.08	1.21	1.35	1.48	1.60	0.91	1.05	1.18	1.32	1.44	1.56	0.87	1.00	1.12	1.25	1.37	1.48
NXT-R	2	1.25	1.44	1.61	1.80	1.97	2.13	1.22	1.41	1.57	1.76	1.92	2.08	1.15	1.33	1.49	1.67	1.82	1.97
NXT-R	2 1/2	1.66	1.92	2.14	2.40	2.62	2.83	1.62	1.87	2.09	2.34	2.56	2.77	1.54	1.77	1.98	2.22	2.43	2.62
NXT-R	3	1.86	2.14	2.40	2.68	2.94	3.17	1.81	2.09	2.34	2.62	2.87	3.10	1.72	1.99	2.22	2.48	2.72	2.94
NXT-R	3 1/2	2.42	2.80	3.12	3.49	3.83	4.13	2.36	2.73	3.05	3.41	3.74	4.04	2.24	2.59	2.89	3.24	3.54	3.83
NXT-R	4	2.68	3.09	3.46	3.87	4.23	4.57	2.62	3.02	3.38	3.77	4.14	4.47	2.48	2.86	3.20	3.58	3.92	4.24
NXT-R	5	3.03	3.49	3.91	4.37	4.78	5.17	2.95	3.41	3.81	4.26	4.67	5.05	2.80	3.24	3.62	4.04	4.43	4.78
NXT-R	5 1/2	3.27	3.78	4.22	4.72	5.17	5.59	3.19	3.69	4.12	4.61	5.05	5.46	3.03	3.50	3.91	4.37	4.79	5.17
NXT-R	6	3.83	4.43	4.95	5.53	6.06	6.55	3.74	4.32	4.83	5.40	5.92	6.39	3.55	4.10	4.58	5.13	5.61	6.06
BA/BN	1/2	0.30	0.35	0.39	0.43	0.47	0.51	0.29	0.34	0.38	0.42	0.46	0.50	0.28	0.32	0.36	0.40	0.44	0.47
BA/BN	1	0.57	0.66	0.73	0.82	0.90	0.97	0.56	0.64	0.72	0.80	0.88	0.95	0.53	0.61	0.68	0.76	0.83	0.90
BA/BN	1-1/2	0.89	1.02	1.14	1.28	1.40	1.51	0.87	1.00	1.12	1.25	1.37	1.48	0.82	0.95	1.06	1.19	1.30	1.40
BA/BN	2	1.19	1.37	1.53	1.71	1.88	2.03	1.16	1.34	1.50	1.67	1.83	1.98	1.10	1.27	1.42	1.59	1.74	1.88
BA/BN	2-1/2	1.50	1.73	1.93	2.16	2.37	2.56	1.46	1.69	1.89	2.11	2.31	2.50	1.39	1.60	1.79	2.00	2.19	2.37
BA/BN	3	1.82	2.10	2.34	2.62	2.87	3.10	1.77	2.05	2.29	2.56	2.80	3.03	1.68	1.94	2.17	2.43	2.66	2.87
BA/BN	4	2.35	2.71	3.03	3.39	3.71	4.01	2.29	2.65	2.96	3.31	3.63	3.92	2.17	2.51	2.81	3.14	3.44	3.71
BA/BN	5	2.98	3.44	3.84	4.30	4.71	5.09	2.91	3.36	3.75	4.20	4.60	4.97	2.76	3.18	3.56	3.98	4.36	4.71
BA/BN	6	3.70	4.27	4.77	5.34	5.85	6.31	3.61	4.17	4.66	5.21	5.71	6.17	3.42	3.95	4.42	4.94	5.41	5.85
HF	1/4	0.17	0.19	0.22	0.24	0.27	0.29	0.16	0.19	0.21	0.24	0.26	0.28	0.16	0.18	0.20	0.22	0.25	0.27
HF	1/2	0.32	0.37	0.41	0.46	0.50	0.54	0.31	0.36	0.40	0.45	0.49	0.53	0.29	0.34	0.38	0.42	0.46	0.50
HF	1	0.57	0.66	0.73	0.82	0.90	0.97	0.56	0.64	0.72	0.80	0.88	0.95	0.53	0.61	0.68	0.76	0.83	0.90
HF	1-1/2	0.87	1.00	1.12	1.25	1.37	1.48	0.85	0.98	1.10	1.22	1.34	1.45	0.80	0.93	1.04	1.16	1.27	1.37
HF	2	1.17	1.36	1.52	1.70	1.86	2.01	1.15	1.32	1.48	1.66	1.81	1.96	1.09	1.26	1.40	1.57	1.72	1.86
HF	2-1/2	1.50	1.74	1.94	2.17	2.38	2.57	1.47	1.70	1.90	2.12	2.32	2.51	1.39	1.61	1.80	2.01	2.20	2.38
HF	3-1/2	1.98	2.29	2.56	2.86	3.14	3.39	1.94	2.24	2.50	2.80	3.06	3.31	1.84	2.12	2.37	2.65	2.90	3.14
HF	6	3.53	4.08	4.56	5.09	5.58	6.03	3.45	3.98	4.45	4.97	5.45	5.89	3.27	3.77	4.22	4.72	5.17	5.58
HF	8-1/2	4.91	5.67	6.34	7.08	7.76	8.38	4.79	5.53	6.19	6.92	7.58	8.18	4.54	5.25	5.87	6.56	7.18	7.76
HF	10-1/2	6.23	7.20	8.04	8.99	9.85	10.64	6.08	7.03	7.86	8.78	9.62	10.39	5.77	6.66	7.45	8.33	9.12	9.85
HF	16	9.23	10.65	11.91	13.32	14.59	15.76	9.01	10.40	11.63	13.01	14.25	15.39	8.54	9.87	11.03	12.33	13.51	14.59
HF	20-1/2	12.10	13.98	15.62	17.47	19.14	20.67	11.82	13.65	15.26	17.06	18.69	20.18	11.21	12.94	14.47	16.18	17.72	19.14

NOTE: Standard capacity is rated at 100F liquid inlet and 40F evaporator temperature; with 100 PSI pressure drop across the TXV.

R-452A (TONS) BALANCE PORTED VALVES - B SERIES AND H SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/5	0.08	0.09	0.10	0.11	0.12	0.13	0.06	0.07	0.08	0.09	0.09	0.10	0.04	0.05	0.05	0.06	0.06	0.06
NXT-R	1/4	0.20	0.24	0.26	0.29	0.32	0.35	0.16	0.18	0.21	0.23	0.24	0.26	0.11	0.12	0.13	0.14	0.16	0.17
NXT-R	1/2	0.34	0.39	0.44	0.49	0.54	0.58	0.27	0.31	0.34	0.38	0.41	0.43	0.18	0.20	0.22	0.24	0.26	0.28
NXT-R	1	0.45	0.52	0.59	0.66	0.72	0.78	0.37	0.41	0.46	0.50	0.54	0.58	0.23	0.26	0.29	0.32	0.35	0.37
NXT-R	1 1/2	0.82	0.94	1.05	1.18	1.29	1.39	0.66	0.74	0.82	0.90	0.98	1.04	0.42	0.47	0.53	0.58	0.62	0.66
NXT-R	2	1.09	1.25	1.40	1.57	1.72	1.86	0.88	0.98	1.10	1.20	1.30	1.39	0.56	0.63	0.70	0.77	0.83	0.89
NXT-R	2 1/2	1.45	1.67	1.87	2.09	2.29	2.47	1.17	1.31	1.46	1.60	1.73	1.85	0.75	0.83	0.93	1.02	1.10	1.18
NXT-R	3	1.62	1.87	2.09	2.34	2.56	2.77	1.31	1.47	1.64	1.79	1.94	2.07	0.83	0.93	1.04	1.14	1.23	1.32
NXT-R	3 1/2	2.11	2.44	2.73	3.05	3.34	3.61	1.71	1.91	2.13	2.34	2.53	2.70	1.09	1.22	1.36	1.49	1.61	1.72
NXT-R	4	2.34	2.70	3.02	3.37	3.69	3.99	1.89	2.11	2.36	2.59	2.80	2.99	1.20	1.35	1.50	1.65	1.78	1.90
NXT-R	5	2.64	3.05	3.41	3.81	4.17	4.51	2.13	2.39	2.67	2.92	3.16	3.38	1.36	1.52	1.70	1.86	2.01	2.15
NXT-R	5 1/2	2.85	3.29	3.68	4.12	4.51	4.87	2.31	2.58	2.89	3.16	3.41	3.65	1.47	1.64	1.84	2.01	2.17	2.32
NXT-R	6	3.34	3.86	4.32	4.83	5.29	5.71	2.71	3.03	3.38	3.70	4.00	4.28	1.72	1.93	2.15	2.36	2.55	2.72
BA/BN	1/2	0.26	0.30	0.34	0.38	0.41	0.45	0.21	0.24	0.26	0.29	0.31	0.33	0.13	0.15	0.17	0.18	0.20	0.21
BA/BN	1	0.50	0.57	0.64	0.72	0.78	0.85	0.40	0.45	0.50	0.55	0.59	0.64	0.26	0.29	0.32	0.35	0.38	0.40
BA/BN	1-1/2	0.77	0.89	1.00	1.12	1.22	1.32	0.63	0.70	0.78	0.86	0.93	0.99	0.40	0.45	0.50	0.55	0.59	0.63
BA/BN	2	1.03	1.19	1.34	1.49	1.64	1.77	0.84	0.94	1.05	1.15	1.24	1.32	0.53	0.60	0.67	0.73	0.79	0.84
BA/BN	2-1/2	1.31	1.51	1.69	1.89	2.07	2.23	1.06	1.18	1.32	1.45	1.56	1.67	0.67	0.75	0.84	0.92	1.00	1.06
BA/BN	3	1.58	1.83	2.04	2.29	2.50	2.70	1.28	1.43	1.60	1.75	1.89	2.03	0.82	0.91	1.02	1.12	1.21	1.29
BA/BN	4	2.05	2.37	2.64	2.96	3.24	3.50	1.66	1.85	2.07	2.27	2.45	2.62	1.06	1.18	1.32	1.45	1.56	1.67
BA/BN	5	2.60	3.00	3.35	3.75	4.11	4.44	2.10	2.35	2.63	2.88	3.11	3.32	1.34	1.50	1.67	1.83	1.98	2.12
BA/BN	6	3.22	3.72	4.16	4.65	5.10	5.51	2.61	2.92	3.26	3.57	3.86	4.12	1.66	1.86	2.08	2.27	2.46	2.63
HF	1/4	0.15	0.17	0.19	0.21	0.23	0.25	0.12	0.13	0.15	0.16	0.18	0.19	0.08	0.08	0.09	0.10	0.11	0.12
HF	1/2	0.28	0.32	0.36	0.40	0.44	0.47	0.22	0.25	0.28	0.31	0.33	0.35	0.14	0.16	0.18	0.20	0.21	0.23
HF	1	0.50	0.57	0.64	0.72	0.78	0.85	0.40	0.45	0.50	0.55	0.59	0.64	0.26	0.29	0.32	0.35	0.38	0.40
HF	1-1/2	0.76	0.87	0.98	1.09	1.20	1.29	0.61	0.69	0.77	0.84	0.91	0.97	0.39	0.44	0.49	0.53	0.58	0.62
HF	2	1.02	1.18	1.32	1.48	1.62	1.75	0.83	0.93	1.04	1.13	1.23	1.31	0.53	0.59	0.66	0.72	0.78	0.83
HF	2-1/2	1.31	1.51	1.69	1.89	2.07	2.24	1.06	1.19	1.33	1.45	1.57	1.68	0.68	0.76	0.84	0.93	1.00	1.07
HF	3-1/2	1.73	2.00	2.23	2.50	2.73	2.95	1.40	1.56	1.75	1.92	2.07	2.21	0.89	1.00	1.11	1.22	1.32	1.41
HF	6	3.08	3.55	3.97	4.44	4.87	5.26	2.49	2.78	3.11	3.41	3.68	3.94	1.59	1.77	1.98	2.17	2.35	2.51
HF	8-1/2	4.28	4.94	5.52	6.18	6.77	7.31	3.46	3.87	4.33	4.74	5.12	5.47	2.21	2.47	2.76	3.02	3.26	3.49
HF	10-1/2	5.43	6.27	7.02	7.84	8.59	9.28	4.40	4.92	5.50	6.02	6.50	6.95	2.80	3.13	3.50	3.83	4.14	4.43
HF	16	8.05	9.29	10.39	11.61	12.72	13.74	6.51	7.28	8.14	8.92	9.63	10.29	4.15	4.64	5.18	5.68	6.13	6.56
HF	20-1/2	10.55	12.19	13.63	15.23	16.69	18.03	8.54	9.55	10.67	11.69	12.63	13.50	5.44	6.08	6.80	7.45	8.04	8.60

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-452A	1.99	1.89	1.80	1.70	1.60	1.50	1.41	1.31	1.21	1.10	1.00	0.89	0.79	0.68	0.56

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-452B BALANCED PORTED VALVES (TONS) NXT SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																				
		50 °F						40 °F						20 °F								
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)								
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285
NXT Series	1/2	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.4	0.5	0.6	0.6	0.7	0.8	0.8
	1	0.8	0.9	1.0	1.1	1.3	1.3	1.5	0.7	0.9	1.0	1.1	1.3	1.3	1.5	0.7	0.9	1.0	1.1	1.2	1.3	1.4
	1-1/2	1.4	1.6	1.9	2.0	2.3	2.4	2.7	1.4	1.6	1.8	2.0	2.3	2.4	2.6	1.3	1.6	1.8	1.9	2.2	2.4	2.6
	2	1.8	2.2	2.5	2.6	3.0	3.2	3.5	1.8	2.2	2.5	2.6	3.0	3.2	3.5	1.8	2.1	2.4	2.6	3.0	3.2	3.4
	2-1/2	2.4	2.9	3.3	3.5	4.0	4.3	4.7	2.4	2.9	3.3	3.5	4.0	4.3	4.7	2.4	2.9	3.2	3.4	3.9	4.2	4.6
	3	2.7	3.3	3.7	4.0	4.5	4.8	5.3	2.7	3.3	3.7	3.9	4.5	4.8	5.2	2.6	3.2	3.6	3.9	4.4	4.7	5.1
	4	3.5	4.3	4.8	5.2	5.9	6.3	6.9	3.5	4.2	4.8	5.1	5.9	6.3	6.8	3.4	4.2	4.7	5.0	5.8	6.2	6.7
	5	3.9	4.7	5.3	5.7	6.5	7.0	7.6	3.9	4.7	5.3	5.7	6.5	6.9	7.5	3.8	4.6	5.2	5.5	6.4	6.8	7.4
	6	4.4	5.3	6.0	6.4	7.4	7.9	8.6	4.4	5.3	6.0	6.4	7.3	7.8	8.5	4.3	5.2	5.9	6.3	7.2	7.7	8.4
	7	4.8	5.8	6.5	7.0	8.0	8.5	9.3	4.7	5.7	6.5	6.9	7.9	8.5	9.2	4.6	5.6	6.4	6.8	7.8	8.3	9.1
	8	5.6	6.8	7.6	8.2	9.4	10.0	10.9	5.6	6.7	7.6	8.1	9.3	9.9	10.8	5.4	6.6	7.4	8.0	9.1	9.7	10.6
	10	6.9	8.3	9.4	10.0	11.5	12.3	13.4	6.8	8.2	9.3	9.9	11.4	12.2	13.3	6.7	8.1	9.1	9.7	11.2	11.9	13.0
	12	8.0	9.7	10.9	11.7	13.4	14.3	15.6	7.9	9.6	10.8	11.6	13.3	14.2	15.4	7.8	9.4	10.6	11.4	13.0	13.9	15.2
	15	10.1	12.2	13.7	14.7	16.8	18.0	19.6	10.0	12.1	13.6	14.6	16.7	17.9	19.5	9.8	11.9	13.4	14.3	16.4	17.5	19.1

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																				
		50 °F						40 °F						20 °F								
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)								
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285
NXT Series	1/2	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.3	0.3	0.4	0.4	0.5	0.5	0.5
	1	0.7	0.9	1.0	1.0	1.2	1.3	1.4	0.7	0.8	0.9	1.0	1.1	1.2	1.3	0.5	0.6	0.6	0.7	0.8	0.8	0.9
	1-1/2	1.3	1.6	1.8	1.9	2.2	2.3	2.5	1.2	1.5	1.7	1.8	2.1	2.2	2.4	0.8	1.0	1.1	1.2	1.4	1.5	1.6
	2	1.7	2.1	2.4	2.5	2.9	3.1	3.4	1.6	2.0	2.3	2.4	2.8	3.0	3.2	1.1	1.3	1.5	1.6	1.9	2.0	2.2
	2-1/2	2.3	2.8	3.1	3.4	3.9	4.1	4.5	2.2	2.7	3.0	3.2	3.7	3.9	4.3	1.5	1.8	2.0	2.2	2.5	2.7	2.9
	3	2.6	3.1	3.5	3.8	4.3	4.6	5.0	2.5	3.0	3.4	3.6	4.1	4.4	4.8	1.7	2.0	2.3	2.4	2.8	3.0	3.2
	4	3.4	4.1	4.6	4.9	5.6	6.0	6.5	3.2	3.9	4.4	4.7	5.4	5.7	6.3	2.2	2.6	3.0	3.2	3.6	3.9	4.2
	5	3.7	4.5	5.1	5.4	6.2	6.6	7.2	3.5	4.3	4.8	5.2	5.9	6.3	6.9	2.4	2.9	3.3	3.5	4.0	4.3	4.7
	6	4.2	5.1	5.7	6.1	7.0	7.5	8.2	4.0	4.9	5.5	5.9	6.7	7.2	7.8	2.7	3.3	3.7	3.9	4.5	4.8	5.3
	7	4.5	5.5	6.2	6.6	7.6	8.1	8.9	4.3	5.3	5.9	6.3	7.3	7.8	8.5	2.9	3.5	4.0	4.3	4.9	5.2	5.7
	8	5.3	6.4	7.3	7.8	8.9	9.5	10.4	5.1	6.2	7.0	7.4	8.5	9.1	9.9	3.4	4.1	4.7	5.0	5.7	6.1	6.7
	10	6.5	7.9	8.9	9.5	10.9	11.7	12.7	6.2	7.6	8.5	9.1	10.4	11.2	12.2	4.2	5.1	5.7	6.1	7.0	7.5	8.2
	12	7.6	9.2	10.4	11.1	12.7	13.6	14.8	7.3	8.8	9.9	10.6	12.2	13.0	14.2	4.9	5.9	6.7	7.1	8.2	8.7	9.5
	15	9.6	11.6	13.1	14.0	16.0	17.1	18.7	9.2	11.1	12.5	13.4	15.3	16.4	17.8	6.2	7.5	8.4	9.0	10.3	11.0	12.0

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evap temperature; with 160 PSI pressure drop across TXV per ARI-7.50-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F									
	50	60	70	80	90	100	110	120	130	140
R-452B	1.35	1.28	1.21	1.14	1.07	1.00	0.93	0.85	0.77	0.69

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-454A (TONS) BALANCE PORTED VALVES - NXT-R

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																		
		50°F						40°F						20°F						
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175	200
NXT-R	1/10	0.05	0.06	0.06	0.07	0.08	0.08	0.05	0.05	0.05	0.06	0.07	0.07	0.05	0.05	0.05	0.06	0.07	0.07	0.08
NXT-R	1/5	0.12	0.14	0.16	0.17	0.19	0.21	0.12	0.12	0.14	0.15	0.17	0.19	0.11	0.11	0.13	0.15	0.16	0.18	0.19
NXT-R	1/2	0.31	0.36	0.40	0.45	0.49	0.53	0.31	0.31	0.36	0.40	0.44	0.49	0.30	0.30	0.34	0.38	0.43	0.47	0.51
NXT-R	3/4	0.52	0.60	0.67	0.75	0.82	0.89	0.51	0.51	0.59	0.66	0.74	0.81	0.49	0.49	0.57	0.64	0.71	0.78	0.84
NXT-R	1	0.70	0.81	0.90	1.01	1.10	1.19	0.69	0.69	0.79	0.89	0.99	1.09	0.66	0.66	0.76	0.85	0.95	1.05	1.13
NXT-R	1 1/2	1.25	1.45	1.62	1.81	1.98	2.14	1.23	1.23	1.42	1.59	1.78	1.95	1.19	1.19	1.37	1.53	1.71	1.88	2.03
NXT-R	2	1.67	1.93	2.15	2.41	2.64	2.85	1.64	1.64	1.90	2.12	2.37	2.60	1.58	1.58	1.83	2.04	2.28	2.50	2.70
NXT-R	2 1/2	2.22	2.57	2.87	3.21	3.51	3.80	2.19	2.19	2.52	2.82	3.16	3.46	2.11	2.11	2.43	2.72	3.04	3.33	3.60
NXT-R	3	2.49	2.87	3.21	3.59	3.93	4.25	2.45	2.45	2.82	3.16	3.53	3.87	2.36	2.36	2.72	3.04	3.40	3.73	4.03
NXT-R	4	3.24	3.74	4.19	4.68	5.13	5.54	3.19	3.19	3.68	4.12	4.60	5.04	3.07	3.07	3.55	3.97	4.43	4.86	5.25

NOTE: Standard capacity is rated at 100F liquid inlet and 40F evaporator temperature; with 100 Psi pressure drop across the TXV.

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																		
		0°F						-20°F						-40°F						
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200	200
NXT-R	1/5	0.04	0.05	0.06	0.06	0.07	0.07	0.04	0.04	0.04	0.05	0.05	0.06	0.02	0.03	0.03	0.03	0.03	0.04	0.08
NXT-R	1/4	0.11	0.13	0.14	0.16	0.17	0.19	0.09	0.10	0.11	0.12	0.13	0.14	0.06	0.06	0.07	0.08	0.08	0.09	0.19
NXT-R	1/2	0.28	0.33	0.37	0.41	0.45	0.49	0.23	0.26	0.29	0.31	0.34	0.36	0.15	0.17	0.18	0.20	0.22	0.23	0.51
NXT-R	1	0.47	0.55	0.61	0.68	0.75	0.81	0.38	0.43	0.48	0.52	0.56	0.60	0.25	0.28	0.31	0.34	0.36	0.39	0.84
NXT-R	1 1/2	0.63	0.73	0.82	0.92	1.00	1.08	0.51	0.57	0.64	0.70	0.75	0.81	0.33	0.37	0.41	0.45	0.49	0.52	1.13
NXT-R	2	1.14	1.31	1.47	1.64	1.80	1.94	0.91	1.02	1.14	1.25	1.35	1.44	0.59	0.66	0.74	0.81	0.88	0.94	2.03
NXT-R	2 1/2	1.52	1.75	1.96	2.19	2.40	2.59	1.22	1.36	1.52	1.67	1.80	1.93	0.79	0.88	0.99	1.08	1.17	1.25	2.70
NXT-R	3	2.02	2.33	2.61	2.92	3.19	3.45	1.62	1.81	2.03	2.22	2.40	2.56	1.05	1.17	1.31	1.44	1.55	1.66	3.60
NXT-R	3 1/2	2.26	2.61	2.92	3.26	3.57	3.86	1.81	2.03	2.27	2.48	2.68	2.87	1.18	1.31	1.47	1.61	1.74	1.86	4.03
NXT-R	4	2.95	3.40	3.80	4.25	4.66	5.03	2.36	2.64	2.96	3.24	3.50	3.74	1.53	1.71	1.92	2.10	2.27	2.42	5.25

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-454A	1.78	1.71	1.63	1.56	1.48	1.40	1.32	1.24	1.16	1.08	1.00	0.92	0.83	0.74	0.65

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-454B BALANCED PORTED VALVES (TONS) NXT SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																					
		50 °F							40 °F							20 °F							
		PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285	
NXT Series	1/2	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.4	0.5	0.6	0.6	0.7	0.8	0.8	
	1	0.8	0.9	1.0	1.1	1.3	1.3	1.5	0.7	0.9	1.0	1.1	1.3	1.3	1.5	0.7	0.9	1.0	1.1	1.2	1.3	1.4	
	1-1/2	1.4	1.6	1.9	2.0	2.3	2.4	2.6	1.3	1.6	1.8	2.0	2.3	2.4	2.6	1.3	1.6	1.8	1.9	2.2	2.4	2.6	
	2	1.8	2.2	2.5	2.6	3.0	3.2	3.5	1.8	2.2	2.5	2.6	3.0	3.2	3.5	1.8	2.1	2.4	2.6	3.0	3.2	3.4	
	2-1/2	2.4	2.9	3.3	3.5	4.0	4.3	4.7	2.4	2.9	3.3	3.5	4.0	4.3	4.7	2.4	2.9	3.2	3.4	3.9	4.2	4.6	
	3	2.7	3.3	3.7	3.9	4.5	4.8	5.3	2.7	3.3	3.7	3.9	4.5	4.8	5.2	2.6	3.2	3.6	3.8	4.4	4.7	5.1	
	4	3.5	4.3	4.8	5.1	5.9	6.3	6.9	3.5	4.2	4.8	5.1	5.9	6.3	6.8	3.4	4.2	4.7	5.0	5.7	6.1	6.7	
	5	3.9	4.7	5.3	5.7	6.5	7.0	7.6	3.9	4.7	5.3	5.6	6.5	6.9	7.5	3.8	4.6	5.2	5.5	6.3	6.8	7.4	
	6	4.4	5.3	6.0	6.4	7.4	7.9	8.6	4.4	5.3	6.0	6.4	7.3	7.8	8.5	4.3	5.2	5.9	6.3	7.2	7.7	8.4	
	7	4.8	5.8	6.5	7.0	8.0	8.5	9.3	4.7	5.7	6.5	6.9	7.9	8.5	9.2	4.6	5.6	6.3	6.8	7.8	8.3	9.1	
	8	5.6	6.8	7.6	8.2	9.3	10.0	10.9	5.5	6.7	7.6	8.1	9.3	9.9	10.8	5.4	6.6	7.4	7.9	9.1	9.7	10.6	
	10	6.8	8.3	9.3	10.0	11.4	12.2	13.3	6.8	8.2	9.3	9.9	11.4	12.1	13.2	6.7	8.1	9.1	9.7	11.2	11.9	13.0	
	12	8.0	9.7	10.9	11.6	13.3	14.3	15.5	7.9	9.6	10.8	11.6	13.2	14.2	15.4	7.8	9.4	10.6	11.3	13.0	13.9	15.1	
	15	10.0	12.2	13.7	14.7	16.8	18.0	19.6	10.0	12.1	13.6	14.6	16.7	17.8	19.4	9.8	11.8	13.4	14.3	16.4	17.5	19.1	

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																					
		50 °F							40 °F							20 °F							
		PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							PRESSURE DROP ACROSS VALVE (PSI)							
		75	110	140	160	210	240	285	75	110	140	160	210	240	285	75	110	140	160	210	240	285	
NXT Series	1/2	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.3	0.3	0.4	0.4	0.4	0.5	0.5	
	1	0.7	0.9	1.0	1.0	1.2	1.3	1.4	0.7	0.8	0.9	1.0	1.1	1.2	1.3	0.5	0.6	0.6	0.7	0.8	0.8	0.9	
	1-1/2	1.3	1.6	1.8	1.9	2.2	2.3	2.5	1.2	1.5	1.7	1.8	2.0	2.2	2.4	0.8	1.0	1.1	1.2	1.4	1.5	1.6	
	2	1.7	2.1	2.4	2.5	2.9	3.1	3.4	1.6	2.0	2.2	2.4	2.7	2.9	3.2	1.1	1.3	1.5	1.6	1.8	2.0	2.1	
	2-1/2	2.3	2.8	3.1	3.4	3.8	4.1	4.5	2.2	2.6	3.0	3.2	3.6	3.9	4.2	1.5	1.8	2.0	2.1	2.4	2.6	2.8	
	3	2.6	3.1	3.5	3.8	4.3	4.6	5.0	2.4	2.9	3.3	3.5	4.1	4.3	4.7	1.6	2.0	2.2	2.4	2.7	2.9	3.2	
	4	3.4	4.1	4.6	4.9	5.6	6.0	6.5	3.2	3.8	4.3	4.6	5.3	5.7	6.2	2.1	2.6	2.9	3.1	3.6	3.8	4.1	
	5	3.7	4.5	5.1	5.4	6.2	6.6	7.2	3.5	4.2	4.8	5.1	5.8	6.3	6.8	2.4	2.8	3.2	3.4	3.9	4.2	4.6	
	6	4.2	5.1	5.7	6.1	7.0	7.5	8.2	4.0	4.8	5.4	5.8	6.6	7.1	7.7	2.7	3.2	3.6	3.9	4.5	4.8	5.2	
	7	4.5	5.5	6.2	6.6	7.6	8.1	8.8	4.3	5.2	5.8	6.2	7.2	7.6	8.3	2.9	3.5	3.9	4.2	4.8	5.1	5.6	
	8	5.3	6.4	7.3	7.8	8.9	9.5	10.4	5.0	6.1	6.8	7.3	8.4	9.0	9.8	3.4	4.1	4.6	4.9	5.6	6.0	6.6	
	10	6.5	7.9	8.9	9.5	10.9	11.7	12.7	6.1	7.4	8.4	9.0	10.3	11.0	12.0	4.1	5.0	5.6	6.0	6.9	7.4	8.1	
	12	7.6	9.2	10.4	11.1	12.7	13.6	14.8	7.2	8.7	9.8	10.4	12.0	12.8	13.9	4.8	5.8	6.6	7.0	8.1	8.6	9.4	
	15	9.6	11.6	13.1	14.0	16.0	17.1	18.6	9.0	10.9	12.3	13.2	15.1	16.1	17.6	6.1	7.3	8.3	8.9	10.1	10.8	11.8	

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evap temperature; with 160 PSI pressure drop across TXV per ARI-7.50-2001. These ratings assume vapor free liquid entering the thermal expansion valve.

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F									
	50	60	70	80	90	100	110	120	130	140
R-454B	1.34	1.28	1.21	1.14	1.07	1.00	0.93	0.85	0.78	0.69

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-454C (TONS) BALANCE PORTED VALVES - NXT-R

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.04	0.05	0.05	0.06	0.06	0.07	0.04	0.04	0.05	0.06	0.06	0.07	0.04	0.04	0.05	0.05	0.06	0.06
NXT-R	1/5	0.10	0.11	0.13	0.14	0.16	0.17	0.10	0.11	0.13	0.14	0.15	0.17	0.09	0.11	0.12	0.13	0.15	0.16
NXT-R	1/2	0.26	0.30	0.33	0.37	0.41	0.44	0.25	0.29	0.33	0.37	0.40	0.43	0.24	0.28	0.31	0.35	0.38	0.41
NXT-R	3/4	0.43	0.50	0.56	0.62	0.68	0.74	0.42	0.49	0.54	0.61	0.67	0.72	0.40	0.46	0.52	0.58	0.64	0.69
NXT-R	1	0.58	0.67	0.74	0.83	0.91	0.99	0.56	0.65	0.73	0.81	0.89	0.96	0.54	0.62	0.69	0.78	0.85	0.92
NXT-R	1 1/2	1.03	1.19	1.34	1.49	1.64	1.77	1.01	1.17	1.31	1.46	1.60	1.73	0.97	1.11	1.25	1.39	1.53	1.65
NXT-R	2	1.38	1.59	1.78	1.99	2.18	2.36	1.35	1.56	1.74	1.95	2.13	2.30	1.29	1.49	1.66	1.86	2.03	2.20
NXT-R	2 1/2	1.84	2.12	2.37	2.65	2.90	3.14	1.80	2.07	2.32	2.59	2.84	3.07	1.71	1.98	2.21	2.47	2.71	2.93
NXT-R	3	2.06	2.37	2.65	2.97	3.25	3.51	2.01	2.32	2.60	2.90	3.18	3.43	1.92	2.21	2.48	2.77	3.03	3.28
NXT-R	4	2.68	3.09	3.46	3.87	4.24	4.57	2.62	3.03	3.38	3.78	4.14	4.48	2.50	2.89	3.23	3.61	3.95	4.27

NOTE: Standard capacity is rated at 100F liquid inlet and 40F evaporator temperature; with 100 Psi pressure drop across the TXV.

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/5	0.03	0.03	0.04	0.04	0.05	0.05	0.02	0.03	0.03	0.03	0.03	0.04	0.01	0.02	0.02	0.02	0.02	0.02
NXT-R	1/4	0.08	0.09	0.10	0.11	0.12	0.13	0.06	0.06	0.07	0.08	0.09	0.09	0.04	0.04	0.05	0.05	0.05	0.06
NXT-R	1/2	0.20	0.23	0.25	0.28	0.31	0.33	0.15	0.17	0.19	0.21	0.22	0.24	0.10	0.11	0.12	0.13	0.14	0.15
NXT-R	1	0.33	0.38	0.42	0.47	0.52	0.56	0.25	0.28	0.31	0.34	0.37	0.40	0.16	0.18	0.20	0.22	0.24	0.25
NXT-R	1 1/2	0.44	0.50	0.56	0.63	0.69	0.75	0.34	0.38	0.42	0.46	0.50	0.53	0.21	0.24	0.27	0.29	0.32	0.34
NXT-R	2	0.78	0.90	1.01	1.13	1.24	1.34	0.60	0.67	0.75	0.83	0.89	0.95	0.38	0.43	0.48	0.53	0.57	0.61
NXT-R	2 1/2	1.04	1.21	1.35	1.51	1.65	1.78	0.80	0.90	1.01	1.10	1.19	1.27	0.51	0.57	0.64	0.70	0.76	0.81
NXT-R	3	1.39	1.61	1.80	2.01	2.20	2.38	1.07	1.20	1.34	1.47	1.58	1.69	0.68	0.76	0.85	0.93	1.01	1.08
NXT-R	3 1/2	1.56	1.80	2.01	2.25	2.46	2.66	1.20	1.34	1.50	1.64	1.77	1.89	0.76	0.85	0.95	1.04	1.13	1.20
NXT-R	4	2.03	2.34	2.62	2.93	3.21	3.47	1.56	1.75	1.95	2.14	2.31	2.47	0.99	1.11	1.24	1.36	1.47	1.57

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-454C	1.83	1.75	1.67	1.59	1.51	1.42	1.34	1.26	1.17	1.09	1.00	0.91	0.82	0.73	0.64	

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-455A (TONS) BALANCE PORTED VALVES - NXT-R

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.05	0.05	0.06	0.07	0.07	0.08	0.05	0.05	0.06	0.07	0.07	0.08	0.04	0.05	0.06	0.06	0.07	0.07
	1/5	0.12	0.13	0.15	0.17	0.18	0.20	0.11	0.13	0.15	0.16	0.18	0.19	0.11	0.12	0.14	0.16	0.17	0.18
	1/2	0.30	0.35	0.39	0.43	0.47	0.51	0.29	0.34	0.38	0.42	0.46	0.50	0.28	0.32	0.36	0.40	0.44	0.48
	3/4	0.50	0.58	0.65	0.72	0.79	0.85	0.49	0.57	0.63	0.71	0.77	0.84	0.47	0.54	0.60	0.67	0.74	0.80
	1	0.67	0.77	0.86	0.97	1.06	1.14	0.66	0.76	0.85	0.95	1.04	1.12	0.63	0.72	0.81	0.90	0.99	1.07
	1 1/2	1.20	1.39	1.55	1.73	1.90	2.05	1.17	1.36	1.52	1.70	1.86	2.01	1.12	1.30	1.45	1.62	1.77	1.92
	2	1.60	1.85	2.07	2.31	2.53	2.73	1.57	1.81	2.02	2.26	2.48	2.68	1.50	1.73	1.93	2.16	2.37	2.56
	2 1/2	2.13	2.46	2.75	3.08	3.37	3.64	2.09	2.41	2.69	3.01	3.30	3.56	1.99	2.30	2.57	2.88	3.15	3.40
	3	2.38	2.75	3.08	3.44	3.77	4.07	2.33	2.70	3.01	3.37	3.69	3.99	2.23	2.58	2.88	3.22	3.53	3.81
	4	3.11	3.59	4.01	4.49	4.91	5.31	3.04	3.51	3.93	4.39	4.81	5.20	2.91	3.36	3.75	4.19	4.60	4.96

NOTE: Standard capacity is rated at 100F liquid inlet and 40F evaporator temperature; with 100 PSI pressure drop across the TXV.

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/5	0.04	0.04	0.05	0.05	0.06	0.06	0.03	0.03	0.04	0.04	0.04	0.05	0.02	0.02	0.02	0.03	0.03	0.03
	1/4	0.09	0.11	0.12	0.14	0.15	0.16	0.07	0.08	0.09	0.10	0.11	0.11	0.05	0.05	0.06	0.06	0.07	0.07
	1/2	0.24	0.28	0.31	0.35	0.38	0.42	0.19	0.21	0.23	0.26	0.28	0.30	0.12	0.13	0.15	0.16	0.18	0.19
	1	0.41	0.47	0.52	0.59	0.64	0.69	0.31	0.35	0.39	0.43	0.46	0.49	0.20	0.22	0.25	0.27	0.29	0.32
	1 1/2	0.54	0.63	0.70	0.78	0.86	0.93	0.42	0.47	0.52	0.57	0.62	0.66	0.27	0.30	0.33	0.37	0.39	0.42
	2	0.97	1.12	1.26	1.40	1.54	1.66	0.75	0.84	0.94	1.03	1.11	1.19	0.48	0.53	0.60	0.65	0.71	0.76
	2 1/2	1.30	1.50	1.68	1.87	2.05	2.22	1.00	1.12	1.25	1.37	1.48	1.58	0.64	0.71	0.80	0.87	0.94	1.01
	3	1.73	2.00	2.23	2.49	2.73	2.95	1.33	1.49	1.67	1.82	1.97	2.11	0.85	0.95	1.06	1.16	1.26	1.34
	3 1/2	1.93	2.23	2.50	2.79	3.06	3.30	1.49	1.67	1.86	2.04	2.21	2.36	0.95	1.06	1.19	1.30	1.41	1.50
	4	2.52	2.91	3.25	3.64	3.99	4.30	1.94	2.17	2.43	2.66	2.87	3.07	1.24	1.38	1.55	1.70	1.83	1.96

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-455A	1.83	1.75	1.67	1.59	1.51	1.42	1.34	1.26	1.17	1.09	1.00	0.91	0.82	0.73	0.64	

NOTE: These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an average evaporator temperature of 0°F. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-455A (TONS) BALANCE PORTED VALVES - NXT-R

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.05	0.05	0.06	0.07	0.07	0.08	0.05	0.05	0.06	0.07	0.07	0.08	0.04	0.05	0.06	0.06	0.07	0.07
NXT-R	1/5	0.12	0.13	0.15	0.17	0.18	0.20	0.11	0.13	0.15	0.16	0.18	0.19	0.11	0.12	0.14	0.16	0.17	0.18
NXT-R	1/2	0.30	0.35	0.39	0.43	0.47	0.51	0.29	0.34	0.38	0.42	0.46	0.50	0.28	0.32	0.36	0.40	0.44	0.48
NXT-R	3/4	0.50	0.58	0.65	0.72	0.79	0.85	0.49	0.57	0.63	0.71	0.77	0.84	0.47	0.54	0.60	0.67	0.74	0.80
NXT-R	1	0.67	0.77	0.86	0.97	1.06	1.14	0.66	0.76	0.85	0.95	1.04	1.12	0.63	0.72	0.81	0.90	0.99	1.07
NXT-R	1 1/2	1.20	1.39	1.55	1.73	1.90	2.05	1.17	1.36	1.52	1.70	1.86	2.01	1.12	1.30	1.45	1.62	1.77	1.92
NXT-R	2	1.60	1.85	2.07	2.31	2.53	2.73	1.57	1.81	2.02	2.26	2.48	2.68	1.50	1.73	1.93	2.16	2.37	2.56
NXT-R	2 1/2	2.13	2.46	2.75	3.08	3.37	3.64	2.09	2.41	2.69	3.01	3.30	3.56	1.99	2.30	2.57	2.88	3.15	3.40
NXT-R	3	2.38	2.75	3.08	3.44	3.77	4.07	2.33	2.70	3.01	3.37	3.69	3.99	2.23	2.58	2.88	3.22	3.53	3.81
NXT-R	4	3.11	3.59	4.01	4.49	4.91	5.31	3.04	3.51	3.93	4.39	4.81	5.20	2.91	3.36	3.75	4.19	4.60	4.96

NOTE: Standard capacity is rated at 100F liquid inlet and 40F evaporator temperature; with 100 Psi pressure drop across the TXV.

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/5	0.04	0.04	0.05	0.05	0.06	0.06	0.03	0.03	0.04	0.04	0.04	0.05	0.02	0.02	0.02	0.03	0.03	0.03
NXT-R	1/4	0.09	0.11	0.12	0.14	0.15	0.16	0.07	0.08	0.09	0.10	0.11	0.11	0.05	0.05	0.06	0.06	0.07	0.07
NXT-R	1/2	0.24	0.28	0.31	0.35	0.38	0.42	0.19	0.21	0.23	0.26	0.28	0.30	0.12	0.13	0.15	0.16	0.18	0.19
NXT-R	1	0.41	0.47	0.52	0.59	0.64	0.69	0.31	0.35	0.39	0.43	0.46	0.49	0.20	0.22	0.25	0.27	0.29	0.32
NXT-R	1 1/2	0.54	0.63	0.70	0.78	0.86	0.93	0.42	0.47	0.52	0.57	0.62	0.66	0.27	0.30	0.33	0.37	0.39	0.42
NXT-R	2	0.97	1.12	1.26	1.40	1.54	1.66	0.75	0.84	0.94	1.03	1.11	1.19	0.48	0.53	0.60	0.65	0.71	0.76
NXT-R	2 1/2	1.30	1.50	1.68	1.87	2.05	2.22	1.00	1.12	1.25	1.37	1.48	1.58	0.64	0.71	0.80	0.87	0.94	1.01
NXT-R	3	1.73	2.00	2.23	2.49	2.73	2.95	1.33	1.49	1.67	1.82	1.97	2.11	0.85	0.95	1.06	1.16	1.26	1.34
NXT-R	3 1/2	1.93	2.23	2.50	2.79	3.06	3.30	1.49	1.67	1.86	2.04	2.21	2.36	0.95	1.06	1.19	1.30	1.41	1.50
NXT-R	4	2.52	2.91	3.25	3.64	3.99	4.30	1.94	2.17	2.43	2.66	2.87	3.07	1.24	1.38	1.55	1.70	1.83	1.96

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-455A	1.83	1.75	1.67	1.59	1.51	1.42	1.34	1.26	1.17	1.09	1.00	0.91	0.82	0.73	0.64	

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-502 BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/8	0.21	0.24	0.27	0.30	0.33	0.36	0.20	0.24	0.26	0.30	0.32	0.35	0.20	0.23	0.25	0.28	0.31	0.33
NXT-R	1/4	0.35	0.40	0.45	0.50	0.55	0.59	0.34	0.39	0.44	0.49	0.54	0.58	0.33	0.38	0.42	0.47	0.51	0.56
NXT-R	1/2	0.47	0.54	0.60	0.67	0.74	0.80	0.46	0.53	0.59	0.66	0.72	0.78	0.44	0.50	0.56	0.63	0.69	0.74
NXT-R	1	0.84	0.96	1.08	1.21	1.32	1.43	0.82	0.94	1.06	1.18	1.29	1.40	0.78	0.90	1.01	1.13	1.23	1.33
NXT-R	1 1/4	1.11	1.29	1.44	1.61	1.76	1.90	1.09	1.26	1.41	1.57	1.72	1.86	1.04	1.20	1.34	1.50	1.65	1.78
NXT-R	1 1/2	1.48	1.71	1.91	2.14	2.34	2.53	1.45	1.68	1.87	2.10	2.30	2.48	1.39	1.60	1.79	2.00	2.19	2.37
NXT-R	2	1.66	1.92	2.14	2.40	2.62	2.83	1.62	1.88	2.10	2.35	2.57	2.77	1.55	1.79	2.00	2.24	2.45	2.65
NXT-R	2 1/2	2.16	2.50	2.79	3.12	3.42	3.69	2.12	2.45	2.73	3.06	3.35	3.62	2.02	2.33	2.61	2.92	3.20	3.45
NXT-R	3	2.39	2.76	3.09	3.45	3.78	4.09	2.34	2.71	3.02	3.38	3.70	4.00	2.24	2.58	2.89	3.23	3.54	3.82
NXT-R	4	3.43	3.96	4.42	4.95	5.42	5.85	3.35	3.87	4.33	4.84	5.30	5.73	3.20	3.70	4.14	4.62	5.06	5.47
BA/BN	1/4	0.26	0.30	0.34	0.38	0.41	0.44	0.25	0.29	0.32	0.36	0.40	0.43	0.24	0.28	0.31	0.35	0.38	0.41
BA/BN	1/2	0.49	0.57	0.63	0.71	0.77	0.84	0.48	0.55	0.62	0.69	0.76	0.82	0.46	0.53	0.59	0.66	0.73	0.79
BA/BN	1	0.76	0.88	0.98	1.10	1.20	1.30	0.74	0.85	0.96	1.07	1.17	1.26	0.71	0.82	0.92	1.02	1.12	1.21
BA/BN	1-1/4	1.02	1.18	1.32	1.47	1.61	1.74	0.99	1.14	1.28	1.43	1.57	1.69	0.95	1.10	1.23	1.37	1.50	1.62
BA/BN	1-1/2	1.28	1.48	1.65	1.85	2.02	2.19	1.26	1.45	1.63	1.82	1.99	2.15	1.20	1.39	1.55	1.73	1.90	2.05
BA/BN	2	1.55	1.79	2.00	2.24	2.45	2.65	1.52	1.76	1.96	2.19	2.40	2.60	1.45	1.67	1.87	2.09	2.29	2.48
BA/BN	2-1/2	2.01	2.32	2.59	2.90	3.18	3.43	1.97	2.27	2.54	2.84	3.11	3.36	1.88	2.17	2.43	2.71	2.97	3.21
BA/BN	3	2.54	2.93	3.28	3.67	4.02	4.34	2.49	2.88	3.21	3.59	3.94	4.25	2.38	2.75	3.07	3.44	3.76	4.06
BA/BN	4	3.17	3.66	4.09	4.58	5.01	5.41	3.10	3.58	4.00	4.47	4.90	5.29	2.96	3.42	3.82	4.27	4.68	5.06
HF	1/8	0.14	0.16	0.18	0.20	0.22	0.24	0.14	0.16	0.18	0.20	0.22	0.24	0.13	0.15	0.17	0.19	0.21	0.22
HF	1/4	0.27	0.31	0.35	0.39	0.43	0.46	0.27	0.31	0.35	0.39	0.43	0.46	0.25	0.29	0.32	0.36	0.40	0.43
HF	1/2	0.49	0.57	0.63	0.71	0.77	0.84	0.48	0.55	0.62	0.69	0.76	0.82	0.46	0.53	0.59	0.66	0.73	0.79
HF	1	0.74	0.85	0.96	1.07	1.17	1.26	0.73	0.84	0.94	1.05	1.15	1.25	0.70	0.81	0.90	1.01	1.11	1.20
HF	1-1/4	1.00	1.15	1.29	1.44	1.58	1.71	0.98	1.13	1.27	1.41	1.55	1.67	0.93	1.07	1.20	1.34	1.47	1.59
HF	1-1/2	1.28	1.48	1.65	1.85	2.02	2.19	1.26	1.45	1.63	1.82	1.99	2.15	1.20	1.39	1.55	1.73	1.90	2.05
HF	2	1.69	1.95	2.18	2.44	2.67	2.89	1.66	1.92	2.14	2.40	2.62	2.83	1.58	1.82	2.04	2.28	2.50	2.70
HF	3-1/2	3.01	3.48	3.89	4.34	4.76	5.14	2.95	3.41	3.81	4.26	4.66	5.04	2.81	3.24	3.63	4.06	4.44	4.80
HF	5	4.19	4.84	5.41	6.05	6.62	7.16	4.10	4.73	5.29	5.92	6.48	7.00	3.92	4.53	5.06	5.66	6.20	6.69
HF	7	5.30	6.12	6.84	7.65	8.38	9.05	5.19	5.99	6.70	7.49	8.21	8.86	4.96	5.73	6.40	7.16	7.84	8.47
HF	10	7.87	9.09	10.16	11.36	12.44	13.44	7.70	8.89	9.94	11.11	12.17	13.15	7.35	8.49	9.49	10.61	11.62	12.55
HF	13	10.36	11.96	13.37	14.95	16.38	17.69	10.14	11.71	13.09	14.64	16.03	17.32	9.68	11.18	12.50	13.97	15.31	16.53
TFE	5	4.11	4.75	5.31	5.93	6.50	7.02	4.03	4.65	5.20	5.82	6.37	6.88	3.84	4.43	4.96	5.54	6.07	6.56
TFE	7	5.63	6.50	7.27	8.13	8.90	9.62	5.51	6.36	7.11	7.95	8.71	9.41	5.26	6.07	6.79	7.59	8.32	8.98
TFE	9	6.99	8.07	9.02	10.09	11.05	11.94	6.85	7.91	8.84	9.89	10.83	11.70	6.53	7.54	8.43	9.43	10.32	11.15
TFE	14	10.68	12.33	13.79	15.42	16.89	18.24	10.45	12.07	13.49	15.08	16.52	17.85	9.97	11.51	12.87	14.39	15.76	17.03
TRAE+	8	6.05	6.99	7.81	8.73	9.57	10.33	5.93	6.85	7.66	8.56	9.38	10.13	5.66	6.54	7.31	8.17	8.95	9.67
TRAE+	12	8.82	10.18	11.39	12.73	13.95	15.06	8.64	9.98	11.15	12.47	13.66	14.76	8.24	9.51	10.64	11.89	13.03	14.07
TRAE+	14	9.85	11.37	12.72	14.22	15.57	16.82	9.64	11.13	12.45	13.91	15.24	16.46	9.20	10.62	11.88	13.28	14.55	15.71
TRAE+	20	14.93	17.24	19.27	21.55	23.61	25.50	14.61	16.87	18.86	21.09	23.10	24.95	13.95	16.11	18.01	20.14	22.06	23.82
TRAE+	30	20.52	23.69	26.49	29.62	32.44	35.04	20.09	23.20	25.94	29.00	31.77	34.31	19.17	22.14	24.75	27.67	30.31	32.74
TRAE	35	27.70	31.99	35.76	39.98	43.80	47.31	27.12	31.32	35.01	39.14	42.88	46.32	25.88	29.88	33.41	37.35	40.92	44.20
TRAE	40	30.22	34.90	39.01	43.62	47.78	51.61	29.58	34.16	38.19	42.70	46.77	50.52	28.23	32.60	36.44	40.75	44.64	48.21
TRAE	50	35.96	41.52	46.42	51.90	56.86	61.41	35.21	40.66	45.46	50.82	55.67	60.13	35.21	40.66	45.46	50.82	55.67	60.13
TJR	9	7.54	8.71	9.73	10.88	11.92	12.88	7.38	8.52	9.53	10.65	11.67	12.60	7.05	8.14	9.10	10.18	11.15	12.04
TJR	12	9.03	10.43	11.66	13.03	14.28	15.42	8.84	10.21	11.41	12.76	13.98	15.10	8.44	9.75	10.90	12.19	13.35	14.42
TER	14	11.29	13.04	14.58	16.30	17.85	19.28	11.05	12.76	14.27	15.95	17.47	18.87	10.56	12.19	13.63	15.24	16.70	18.03
TER	16	13.34	15.40	17.22	19.25	21.09	22.78	13.06	15.08	16.86	18.85	20.65	22.30	12.48	14.41	16.11	18.01	19.73	21.31
TER	21	17.96	20.74	23.19	25.92	28.40	30.67	17.58	20.30	22.70	25.37	27.80	30.02	16.80	19.39	21.68	24.24	26.56	28.69
TER	27	23.09	26.66	29.81	33.33	36.51	39.43	22.60	26.10	29.18	32.62	35.73	38.60	21.59	24.93	27.87	31.16	34.14	36.87
TIR	37	28.22	32.59	36.43	40.73	44.62	48.19	27.62	31.89	35.66	39.87	43.67	47.17	26.39	30.47	34.06	38.08	41.72	45.06
THR	48	35.91	41.47	46.36	51.83	56.78	61.33	35.15	40.59	45.38	50.73	55.58	60.03	33.58	38.77	43.35	48.47	53.09	57.35
THR	60	43.61	50.36	56.30	62.95	68.95	74.48	42.69	49.29	55.11	61.62	67.50	72.91	40.78	47.09	52.64	58.86	64.48	69.64
TMR	60	51.30	59.24	66.23	74.05	81.11	87.61	50.22	57.99	64.83	72.49	79.40	85.77	47.97	55.39	61.93	69.24	75.85	81.92

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV per ARI 750-2001.

R-502 BALANCED PORTED VALVES (TONS) NXT-R / B / HF / TFE / TRAE / T SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/8	0.19	0.21	0.24	0.27	0.29	0.32	0.15	0.17	0.19	0.21	0.22	0.24	0.10	0.11	0.12	0.14	0.15	0.16
NXT-R	1/4	0.31	0.36	0.40	0.45	0.49	0.53	0.25	0.28	0.32	0.35	0.37	0.40	0.17	0.19	0.21	0.23	0.25	0.26
NXT-R	1/2	0.41	0.48	0.53	0.60	0.65	0.71	0.34	0.38	0.42	0.46	0.50	0.54	0.22	0.25	0.28	0.31	0.33	0.35
NXT-R	1	0.74	0.86	0.96	1.07	1.17	1.27	0.61	0.68	0.76	0.83	0.90	0.96	0.40	0.45	0.50	0.55	0.59	0.63
NXT-R	1 1/4	0.99	1.14	1.28	1.43	1.56	1.69	0.81	0.90	1.01	1.11	1.20	1.28	0.53	0.60	0.67	0.73	0.79	0.84
NXT-R	1 1/2	1.32	1.52	1.70	1.90	2.08	2.25	1.08	1.20	1.35	1.48	1.59	1.70	0.71	0.79	0.89	0.97	1.05	1.12
NXT-R	2	1.47	1.70	1.90	2.13	2.33	2.52	1.21	1.35	1.51	1.65	1.78	1.91	0.79	0.89	0.99	1.09	1.18	1.26
NXT-R	2 1/2	1.92	2.22	2.48	2.77	3.04	3.28	1.57	1.76	1.96	2.15	2.32	2.48	1.04	1.16	1.29	1.42	1.53	1.64
NXT-R	3	2.12	2.45	2.74	3.07	3.36	3.63	1.74	1.94	2.17	2.38	2.57	2.75	1.15	1.28	1.43	1.57	1.69	1.81
NXT-R	4	3.04	3.51	3.93	4.39	4.81	5.19	2.49	2.78	3.11	3.41	3.68	3.94	1.64	1.83	2.05	2.25	2.43	2.59
BA/BN	1/4	0.22	0.25	0.28	0.32	0.35	0.38	0.17	0.19	0.21	0.23	0.25	0.27	0.11	0.12	0.14	0.15	0.16	0.17
BA/BN	1/2	0.42	0.48	0.54	0.61	0.66	0.72	0.33	0.37	0.41	0.45	0.49	0.52	0.21	0.23	0.26	0.29	0.31	0.33
BA/BN	1	0.65	0.75	0.84	0.94	1.03	1.11	0.52	0.58	0.65	0.71	0.77	0.82	0.33	0.37	0.41	0.45	0.49	0.52
BA/BN	1-1/4	0.87	1.00	1.12	1.26	1.38	1.49	0.69	0.77	0.86	0.94	1.02	1.09	0.44	0.49	0.55	0.60	0.65	0.70
BA/BN	1-1/2	1.10	1.27	1.42	1.59	1.74	1.88	0.87	0.97	1.09	1.19	1.29	1.38	0.55	0.61	0.69	0.75	0.81	0.87
BA/BN	2	1.34	1.55	1.73	1.93	2.12	2.29	1.05	1.17	1.31	1.44	1.55	1.66	0.67	0.75	0.84	0.92	0.99	1.06
BA/BN	2-1/2	1.73	2.00	2.23	2.50	2.74	2.95	1.36	1.52	1.70	1.86	2.01	2.15	0.87	0.97	1.09	1.19	1.29	1.38
BA/BN	3	2.19	2.53	2.83	3.16	3.46	3.74	1.73	1.93	2.16	2.37	2.56	2.74	1.10	1.23	1.38	1.51	1.63	1.74
BA/BN	4	2.72	3.14	3.51	3.93	4.30	4.65	2.15	2.40	2.69	2.94	3.18	3.40	1.37	1.53	1.71	1.88	2.03	2.17
HF	1/8	0.12	0.14	0.15	0.17	0.19	0.20	0.10	0.11	0.13	0.14	0.15	0.16	0.06	0.07	0.08	0.08	0.09	0.09
HF	1/4	0.23	0.27	0.30	0.33	0.36	0.39	0.18	0.20	0.23	0.25	0.27	0.28	0.12	0.13	0.15	0.16	0.18	0.19
HF	1/2	0.42	0.48	0.54	0.61	0.66	0.72	0.33	0.37	0.41	0.45	0.49	0.52	0.21	0.23	0.26	0.29	0.31	0.33
HF	1	0.64	0.74	0.83	0.92	1.01	1.09	0.50	0.56	0.63	0.68	0.74	0.79	0.32	0.36	0.40	0.44	0.47	0.51
HF	1-1/4	0.86	0.99	1.11	1.24	1.36	1.47	0.68	0.76	0.85	0.93	1.01	1.08	0.43	0.48	0.54	0.59	0.64	0.68
HF	1-1/2	1.10	1.27	1.42	1.59	1.74	1.88	0.87	0.97	1.09	1.19	1.29	1.38	0.55	0.61	0.69	0.75	0.81	0.87
HF	2	1.46	1.69	1.88	2.11	2.31	2.49	1.15	1.29	1.44	1.57	1.70	1.82	0.73	0.82	0.91	1.00	1.08	1.15
HF	3-1/2	2.59	2.99	3.34	3.74	4.10	4.42	1.65	1.84	2.06	2.26	2.44	2.61	1.30	1.45	1.63	1.78	1.92	2.06
HF	5	3.60	4.16	4.65	5.20	5.69	6.15	2.84	3.18	3.55	3.89	4.20	4.49	1.81	2.02	2.26	2.48	2.68	2.86
HF	7	4.56	5.27	5.89	6.58	7.21	7.79	3.60	4.02	4.50	4.93	5.32	5.69	2.29	2.56	2.86	3.14	3.39	3.62
HF	10	6.76	7.81	8.73	9.76	10.69	11.54	5.34	5.97	6.68	7.31	7.90	8.44	3.40	3.80	4.25	4.66	5.03	5.38
HF	13	8.90	10.28	11.49	12.85	14.07	15.20	7.03	7.86	8.79	9.63	10.40	11.12	4.48	5.01	5.60	6.13	6.63	7.08
TFE	5	3.54	4.09	4.57	5.11	5.60	6.05	2.79	3.12	3.49	3.82	4.13	4.41	1.78	1.99	2.23	2.44	2.63	2.81
TFE	7	4.84	5.59	6.25	6.99	7.65	8.27	3.82	4.27	4.78	5.23	5.65	6.04	2.43	2.72	3.04	3.33	3.59	3.84
TFE	9	6.01	6.94	7.76	8.67	9.50	10.26	4.75	5.31	5.94	6.50	7.03	7.51	3.02	3.38	3.78	4.14	4.47	4.78
TFE	14	9.18	10.60	11.85	13.25	14.51	15.68	7.25	8.11	9.06	9.93	10.72	11.46	4.61	5.15	5.76	6.31	6.82	7.29
TRAE+	8	5.20	6.00	6.71	7.51	8.22	8.88	4.11	4.60	5.14	5.63	6.08	6.50	2.62	2.93	3.28	3.59	3.88	4.14
TRAE+	12	7.58	8.75	9.79	10.94	11.99	12.95	5.99	6.70	7.49	8.20	8.86	9.47	3.81	4.26	4.76	5.22	5.64	6.02
TRAE+	14	8.47	9.78	10.93	12.23	13.39	14.47	6.69	7.48	8.36	9.16	9.89	10.58	4.26	4.76	5.33	5.83	6.30	6.74
TRAE+	20	12.83	14.81	16.56	18.52	20.29	21.91	10.13	11.33	12.66	13.87	14.98	16.02	6.45	7.21	8.06	8.83	9.54	10.20
TRAE+	30	17.64	20.37	22.77	25.46	27.89	30.13	13.93	15.57	17.41	19.07	20.60	22.03	8.87	9.92	11.09	12.15	13.12	14.02
TRAE	35	23.81	27.49	30.74	34.37	37.65	40.66	18.80	21.02	23.50	25.74	27.81	29.73	11.97	13.38	14.96	16.39	17.70	18.93
TRAE	40	25.97	29.99	33.53	37.48	41.06	44.35	20.51	22.93	25.64	28.08	30.33	32.43	13.06	14.60	16.33	17.88	19.32	20.65
TRAE	50	30.91	35.69	39.90	44.61	48.87	52.79	24.41	27.29	30.51	33.42	36.10	38.60	15.54	17.37	19.43	21.28	22.98	24.57
TJR	9	6.70	7.74	8.65	9.67	10.59	11.44	7.31	8.17	9.14	10.01	10.81	11.56	6.89	7.70	8.61	9.43	10.19	11.56
TJR	12	8.02	9.26	10.36	11.58	12.68	13.70	8.75	9.78	10.94	11.98	12.94	13.84	8.25	9.22	10.31	11.29	12.20	13.84
TER	14	10.03	11.58	12.95	14.48	15.86	17.13	10.95	12.24	13.68	14.99	16.19	17.31	10.31	11.53	12.89	14.12	15.26	17.31
TER	16	11.85	13.59	15.30	17.11	18.74	20.24	12.93	14.46	16.16	17.71	19.13	20.45	12.19	13.63	15.23	16.69	18.02	20.45
TER	21	15.96	18.43	20.60	23.03	25.23	27.26	17.14	19.47	21.76	23.84	25.75	27.53	16.41	18.35	20.51	22.47	24.27	27.53
TER	27	20.51	23.69	26.48	29.61	32.44	35.04	22.38	25.02	27.98	30.65	33.10	35.39	21.09	23.58	26.37	28.88	31.20	35.39
TIR	37	25.07	28.95	32.37	36.19	39.64	42.82	27.35	30.58	34.19	37.45	40.45	43.25	25.78	28.82	32.22	35.30	38.12	43.25
THR	48	31.90	36.84	41.19	46.05	50.44	54.49	34.81	38.92	43.51	47.66	51.48	55.04	32.80	36.67	41.00	44.92	48.52	55.04
THR	60	38.74	44.74	50.02	55.92	61.26	66.71	42.27	47.26	52.84	57.88	62.52	66.84	39.84	44.54	49.79	54.55	58.92	66.84
TMR	60	45.58	52.63	58.84	65.79	72.07	77.84	49.73	55.60	62.84	68.09	73.55	78.62	46.86	52.39	58.58	64.17	69.31	78.62

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-502	1.83	1.75	1.67	1.59	1.50	1.42	1.34	1.26	1.17	1.09	1.00	0.91	0.82	0.73	0.64

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-1234YF BALANCE PORTED VALVES (TONS) NXT-R / B / H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.05	0.05	0.06	0.07	0.07	0.08	0.04	0.05	0.06	0.06	0.07	0.07	0.03	0.04	0.04	0.05	0.05	0.06
NXT-R	1/5	0.12	0.14	0.15	0.17	0.19	0.20	0.11	0.13	0.15	0.16	0.18	0.19	0.09	0.10	0.11	0.13	0.14	0.15
NXT-R	1/4	0.20	0.23	0.25	0.28	0.31	0.33	0.19	0.22	0.24	0.27	0.30	0.32	0.15	0.17	0.19	0.21	0.23	0.25
NXT-R	1/2	0.47	0.54	0.60	0.68	0.74	0.80	0.45	0.52	0.59	0.66	0.72	0.78	0.35	0.40	0.45	0.50	0.55	0.60
NXT-R	3/4	0.62	0.72	0.81	0.90	0.99	1.07	0.61	0.70	0.78	0.87	0.96	1.03	0.47	0.54	0.60	0.67	0.74	0.80
NXT-R	1	0.93	1.07	1.20	1.34	1.47	1.59	0.90	1.04	1.17	1.30	1.43	1.54	0.69	0.80	0.90	1.00	1.10	1.19
NXT-R	1 1/2	1.34	1.55	1.73	1.94	2.12	2.29	1.30	1.50	1.68	1.88	2.06	2.22	1.00	1.16	1.29	1.44	1.58	1.71
BA/BN	1/4	0.15	0.17	0.19	0.22	0.24	0.26	0.15	0.17	0.19	0.21	0.23	0.25	0.11	0.13	0.14	0.16	0.18	0.19
BA/BN	1/2	0.29	0.33	0.37	0.41	0.45	0.49	0.28	0.32	0.36	0.40	0.44	0.47	0.21	0.25	0.27	0.31	0.34	0.36
BA/BN	3/4	0.44	0.51	0.57	0.64	0.70	0.76	0.43	0.50	0.56	0.62	0.68	0.74	0.33	0.38	0.43	0.48	0.52	0.57
BA/BN	1	0.59	0.69	0.77	0.86	0.94	1.02	0.58	0.67	0.74	0.83	0.91	0.99	0.44	0.51	0.57	0.64	0.70	0.76
BA/BN	1-1/4	0.75	0.87	0.97	1.08	1.19	1.28	0.73	0.84	0.94	1.05	1.15	1.24	0.56	0.65	0.72	0.81	0.89	0.96
BA/BN	1-1/2	0.91	1.05	1.17	1.31	1.44	1.55	0.88	1.02	1.14	1.27	1.40	1.51	0.68	0.78	0.88	0.98	1.07	1.16
BA/BN	2	1.18	1.36	1.52	1.70	1.86	2.01	1.14	1.32	1.47	1.65	1.81	1.95	0.88	1.01	1.13	1.27	1.39	1.50
BA/BN	2-1/2	1.49	1.72	1.93	2.15	2.36	2.55	1.45	1.67	1.87	2.09	2.29	2.47	1.11	1.29	1.44	1.61	1.76	1.90
BA/BN	3-1/4	1.85	2.14	2.39	2.67	2.93	3.16	1.80	2.08	2.32	2.59	2.84	3.07	1.38	1.60	1.78	1.99	2.18	2.36
HF	1/8	0.08	0.10	0.11	0.12	0.13	0.14	0.08	0.09	0.11	0.12	0.13	0.14	0.06	0.07	0.08	0.09	0.10	0.11
HF	1/4	0.16	0.18	0.21	0.23	0.25	0.27	0.15	0.18	0.20	0.22	0.24	0.26	0.12	0.14	0.15	0.17	0.19	0.20
HF	1/2	0.29	0.33	0.37	0.41	0.45	0.49	0.28	0.32	0.36	0.40	0.44	0.47	0.21	0.25	0.27	0.31	0.34	0.36
HF	3/4	0.44	0.50	0.56	0.63	0.69	0.74	0.42	0.49	0.55	0.61	0.67	0.72	0.32	0.37	0.42	0.47	0.51	0.55
HF	1	0.59	0.68	0.76	0.85	0.93	1.01	0.57	0.66	0.74	0.82	0.90	0.98	0.44	0.51	0.57	0.63	0.69	0.75
HF	1-1/4	0.75	0.87	0.97	1.09	1.19	1.29	0.73	0.84	0.94	1.06	1.16	1.25	0.56	0.65	0.73	0.81	0.89	0.96
HF	1-3/4	0.99	1.15	1.28	1.43	1.57	1.70	0.96	1.11	1.24	1.39	1.52	1.65	0.74	0.86	0.96	1.07	1.17	1.27
HF	3	1.77	2.04	2.28	2.55	2.80	3.02	1.72	1.98	2.22	2.48	2.71	2.93	1.32	1.52	1.70	1.90	2.09	2.25

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV.

R-1234YF BALANCE PORTED VALVES (TONS) NXT-R / B / H SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/10	0.02	0.03	0.03	0.03	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01
NXT-R	1/5	0.06	0.07	0.08	0.09	0.09	0.10	0.02	0.02	0.02	0.02	0.03	0.03	0.01	0.01	0.01	0.01	0.02	0.02
NXT-R	1/4	0.10	0.11	0.13	0.14	0.16	0.17	0.04	0.05	0.06	0.06	0.07	0.07	0.03	0.03	0.03	0.04	0.04	0.04
NXT-R	1/2	0.24	0.27	0.31	0.34	0.38	0.41	0.07	0.08	0.09	0.10	0.11	0.12	0.05	0.05	0.06	0.06	0.07	0.07
NXT-R	3/4	0.32	0.37	0.41	0.46	0.50	0.54	0.10	0.11	0.12	0.14	0.15	0.16	0.06	0.07	0.08	0.08	0.09	0.10
NXT-R	1	0.47	0.54	0.61	0.68	0.75	0.81	0.18	0.20	0.22	0.24	0.26	0.28	0.11	0.12	0.14	0.15	0.16	0.17
NXT-R	1 1/2	0.68	0.79	0.88	0.98	1.08	1.16	0.24	0.27	0.30	0.33	0.35	0.38	0.15	0.16	0.18	0.20	0.22	0.23
BA/BN	1/4	0.08	0.09	0.10	0.11	0.12	0.13	0.06	0.06	0.07	0.08	0.08	0.09	0.04	0.04	0.04	0.05	0.05	0.06
BA/BN	1/2	0.14	0.17	0.19	0.21	0.23	0.25	0.11	0.12	0.14	0.15	0.16	0.17	0.07	0.08	0.08	0.09	0.10	0.11
BA/BN	3/4	0.23	0.26	0.29	0.32	0.36	0.38	0.17	0.19	0.21	0.23	0.25	0.27	0.10	0.12	0.13	0.14	0.15	0.17
BA/BN	1	0.30	0.35	0.39	0.43	0.48	0.51	0.23	0.25	0.28	0.31	0.33	0.36	0.14	0.16	0.17	0.19	0.21	0.22
BA/BN	1-1/4	0.38	0.44	0.49	0.55	0.60	0.65	0.29	0.32	0.36	0.39	0.42	0.45	0.18	0.20	0.22	0.24	0.26	0.28
BA/BN	1-1/2	0.46	0.53	0.60	0.67	0.73	0.79	0.35	0.39	0.43	0.47	0.51	0.55	0.21	0.24	0.27	0.29	0.32	0.34
BA/BN	2	0.60	0.69	0.77	0.86	0.94	1.02	0.45	0.50	0.56	0.61	0.66	0.71	0.28	0.31	0.35	0.38	0.41	0.44
BA/BN	2-1/2	0.76	0.87	0.98	1.09	1.20	1.29	0.57	0.63	0.71	0.78	0.84	0.90	0.35	0.39	0.44	0.48	0.52	0.56
BA/BN	3-1/4	0.94	1.08	1.21	1.35	1.48	1.60	0.70	0.79	0.88	0.97	1.04	1.11	0.44	0.49	0.54	0.60	0.64	0.69
HF	1/8	0.04	0.05	0.05	0.06	0.07	0.07	0.03	0.04	0.04	0.04	0.05	0.05	0.02	0.02	0.02	0.03	0.03	0.03
HF	1/4	0.08	0.09	0.10	0.12	0.13	0.14	0.06	0.07	0.08	0.08	0.09	0.10	0.04	0.04	0.05	0.05	0.06	0.06
HF	1/2	0.14	0.17	0.19	0.21	0.23	0.25	0.11	0.12	0.14	0.15	0.16	0.17	0.07	0.08	0.08	0.09	0.10	0.11
HF	3/4	0.22	0.25	0.28	0.32	0.35	0.38	0.17	0.19	0.21	0.23	0.25	0.26	0.10	0.11	0.13	0.14	0.15	0.16
HF	1	0.30	0.34	0.38	0.43	0.47	0.51	0.22	0.25	0.28	0.31	0.33	0.35	0.14	0.15	0.17	0.19	0.20	0.22
HF	1-1/4	0.38	0.44	0.49	0.55	0.60	0.65	0.29	0.32	0.36	0.39	0.42	0.45	0.18	0.20	0.22	0.24	0.26	0.28
HF	1-3/4	0.50	0.58	0.65	0.73	0.80	0.86	0.38	0.42	0.47	0.52	0.56	0.60	0.23	0.26	0.29	0.32	0.35	0.37
HF	3	0.90	1.03	1.16	1.29	1.42	1.53	0.67	0.75	0.84	0.92	1.00	1.06	0.42	0.47	0.52	0.57	0.62	0.66

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F															
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
R-1234yf	1.89	1.80	1.72	1.63	1.54	1.45	1.36	1.27	1.18	1.09	1.00	0.91	0.82	0.72	0.63	

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.

R-1234ZE BALANCE PORTED VALVES (TONS) NXT-R / B / H SERIES

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		50°F						40°F						20°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	60	80	100	125	150	175	60	80	100	125	150	175
NXT-R	1/10	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.04	0.05	0.05	0.06	0.06	0.02	0.02	0.03	0.03	0.03	0.03
NXT-R	1/5	0.09	0.11	0.12	0.13	0.14	0.16	0.09	0.11	0.12	0.13	0.15	0.16	0.05	0.06	0.07	0.08	0.08	0.09
NXT-R	1/4	0.15	0.18	0.20	0.22	0.24	0.26	0.16	0.18	0.20	0.22	0.25	0.27	0.09	0.10	0.11	0.13	0.14	0.15
NXT-R	1/2	0.37	0.42	0.47	0.53	0.58	0.62	0.37	0.43	0.48	0.54	0.59	0.64	0.21	0.25	0.27	0.31	0.34	0.36
NXT-R	3/4	0.49	0.56	0.63	0.70	0.77	0.83	0.50	0.57	0.64	0.72	0.79	0.85	0.28	0.33	0.37	0.41	0.45	0.48
NXT-R	1	0.73	0.84	0.94	1.05	1.15	1.24	0.74	0.86	0.96	1.07	1.17	1.27	0.42	0.49	0.54	0.61	0.67	0.72
NXT-R	1 1/2	1.05	1.21	1.35	1.51	1.66	1.79	1.07	1.23	1.38	1.54	1.69	1.82	0.61	0.70	0.79	0.88	0.96	1.04
NXT-R	2	0.73	0.84	0.94	1.05	1.15	1.24	0.74	0.86	0.96	1.07	1.17	1.27	0.42	0.49	0.54	0.61	0.67	0.72
NXT-R	3 1/4	1.05	1.21	1.35	1.51	1.66	1.79	1.07	1.23	1.38	1.54	1.69	1.82	0.61	0.70	0.79	0.88	0.96	1.04
BA/BN	1/4	0.15	0.17	0.19	0.22	0.24	0.26	0.15	0.17	0.19	0.21	0.23	0.25	0.11	0.13	0.14	0.16	0.18	0.19
BA/BN	1/2	0.29	0.33	0.37	0.41	0.45	0.49	0.28	0.32	0.36	0.40	0.44	0.47	0.21	0.25	0.27	0.31	0.34	0.36
BA/BN	3/4	0.44	0.51	0.57	0.64	0.70	0.76	0.43	0.50	0.56	0.62	0.68	0.74	0.33	0.38	0.43	0.48	0.52	0.57
BA/BN	1	0.59	0.69	0.77	0.86	0.94	1.02	0.58	0.67	0.74	0.83	0.91	0.99	0.44	0.51	0.57	0.64	0.70	0.76
BA/BN	1-1/4	0.75	0.87	0.97	1.08	1.19	1.28	0.73	0.84	0.94	1.05	1.15	1.24	0.56	0.65	0.72	0.81	0.89	0.96
BA/BN	1-1/2	0.91	1.05	1.17	1.31	1.44	1.55	0.88	1.02	1.14	1.27	1.40	1.51	0.68	0.78	0.88	0.98	1.07	1.16
BA/BN	2	1.18	1.36	1.52	1.70	1.86	2.01	1.14	1.32	1.47	1.65	1.81	1.95	0.88	1.01	1.13	1.27	1.39	1.50
BA/BN	2-1/2	1.49	1.72	1.93	2.15	2.36	2.55	1.45	1.67	1.87	2.09	2.29	2.47	1.11	1.29	1.44	1.61	1.76	1.90
BA/BN	3-1/4	1.85	2.14	2.39	2.67	2.93	3.16	1.80	2.08	2.32	2.59	2.84	3.07	1.38	1.60	1.78	1.99	2.18	2.36
HF	1/8	0.08	0.10	0.11	0.12	0.13	0.14	0.08	0.09	0.11	0.12	0.13	0.14	0.06	0.07	0.08	0.09	0.10	0.11
HF	1/4	0.16	0.18	0.21	0.23	0.25	0.27	0.15	0.18	0.20	0.22	0.24	0.26	0.12	0.14	0.15	0.17	0.19	0.20
HF	1/2	0.29	0.33	0.37	0.41	0.45	0.49	0.28	0.32	0.36	0.40	0.44	0.47	0.21	0.25	0.27	0.31	0.34	0.36
HF	3/4	0.44	0.50	0.56	0.63	0.69	0.74	0.42	0.49	0.55	0.61	0.67	0.72	0.32	0.37	0.42	0.47	0.51	0.55
HF	1	0.59	0.68	0.76	0.85	0.93	1.01	0.57	0.66	0.74	0.82	0.90	0.98	0.44	0.51	0.57	0.63	0.69	0.75
HF	1-1/4	0.75	0.87	0.97	1.09	1.19	1.29	0.73	0.84	0.94	1.06	1.16	1.25	0.56	0.65	0.73	0.81	0.89	0.96
HF	1-3/4	0.99	1.15	1.28	1.43	1.57	1.70	0.96	1.11	1.24	1.39	1.52	1.65	0.74	0.86	0.96	1.07	1.17	1.27
HF	3	1.77	2.04	2.28	2.55	2.80	3.02	1.72	1.98	2.22	2.48	2.71	2.93	1.32	1.52	1.70	1.90	2.09	2.25

NOTE: Standard capacity is rated at 100°F liquid inlet and 40°F evaporator temperature; with 100 PSI pressure drop across the TXV.

R-1234ZE BALANCE PORTED VALVES (TONS) NXT-R / B / H SERIES (CONT'D)

VALVE TYPE	NOM. RATING	EVAPORATOR TEMPERATURE																	
		0°F						-20°F						-40°F					
		PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)						PRESSURE DROP ACROSS VALVE (PSI)					
		60	80	100	125	150	175	80	100	125	150	175	200	80	100	125	150	175	200
NXT-R	1/10	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
NXT-R	1/5	0.04	0.04	0.05	0.05	0.06	0.06	0.03	0.03	0.03	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02
NXT-R	1/4	0.06	0.07	0.08	0.08	0.09	0.10	0.04	0.05	0.05	0.06	0.06	0.07	0.03	0.03	0.03	0.04	0.04	0.04
NXT-R	1/2	0.14	0.16	0.18	0.20	0.22	0.24	0.10	0.11	0.13	0.14	0.15	0.16	0.06	0.07	0.08	0.08	0.09	0.10
NXT-R	3/4	0.19	0.22	0.24	0.27	0.30	0.32	0.14	0.15	0.17	0.19	0.20	0.22	0.08	0.09	0.10	0.11	0.12	0.13
NXT-R	1	0.28	0.32	0.36	0.40	0.44	0.48	0.20	0.23	0.25	0.28	0.30	0.32	0.12	0.14	0.15	0.17	0.18	0.19
NXT-R	1 1/2	0.40	0.47	0.52	0.58	0.64	0.69	0.29	0.33	0.37	0.40	0.43	0.46	0.18	0.20	0.22	0.24	0.26	0.28
NXT-R	2	0.28	0.32	0.36	0.40	0.44	0.48	0.20	0.23	0.25	0.28	0.30	0.32	0.12	0.14	0.15	0.17	0.18	0.19
NXT-R	3 1/4	0.40	0.47	0.52	0.58	0.64	0.69	0.29	0.33	0.37	0.40	0.43	0.46	0.18	0.20	0.22	0.24	0.26	0.28
BA/BN	1/4	0.08	0.09	0.10	0.11	0.12	0.13	0.06	0.06	0.07	0.08	0.08	0.09	0.04	0.04	0.04	0.05	0.05	0.06
BA/BN	1/2	0.14	0.17	0.19	0.21	0.23	0.25	0.11	0.12	0.14	0.15	0.16	0.17	0.07	0.08	0.08	0.09	0.10	0.11
BA/BN	3/4	0.23	0.26	0.29	0.32	0.36	0.38	0.17	0.19	0.21	0.23	0.25	0.27	0.10	0.12	0.13	0.14	0.15	0.17
BA/BN	1	0.30	0.35	0.39	0.43	0.48	0.51	0.23	0.25	0.28	0.31	0.33	0.36	0.14	0.16	0.17	0.19	0.21	0.22
BA/BN	1-1/4	0.38	0.44	0.49	0.55	0.60	0.65	0.29	0.32	0.36	0.39	0.42	0.45	0.18	0.20	0.22	0.24	0.26	0.28
BA/BN	1-1/2	0.46	0.53	0.60	0.67	0.73	0.79	0.35	0.39	0.43	0.47	0.51	0.55	0.21	0.24	0.27	0.29	0.32	0.34
BA/BN	2	0.60	0.69	0.77	0.86	0.94	1.02	0.45	0.50	0.56	0.61	0.66	0.71	0.28	0.31	0.35	0.38	0.41	0.44
BA/BN	2-1/2	0.76	0.87	0.98	1.09	1.20	1.29	0.57	0.63	0.71	0.78	0.84	0.90	0.35	0.39	0.44	0.48	0.52	0.56
BA/BN	3-1/4	0.94	1.08	1.21	1.35	1.48	1.60	0.70	0.79	0.88	0.97	1.04	1.11	0.44	0.49	0.54	0.60	0.64	0.69
HF	1/8	0.04	0.05	0.05	0.06	0.07	0.07	0.03	0.04	0.04	0.04	0.05	0.05	0.02	0.02	0.02	0.03	0.03	0.03
HF	1/4	0.08	0.09	0.10	0.12	0.13	0.14	0.06	0.07	0.08	0.08	0.09	0.10	0.04	0.04	0.05	0.05	0.06	0.06
HF	1/2	0.14	0.17	0.19	0.21	0.23	0.25	0.11	0.12	0.14	0.15	0.16	0.17	0.07	0.08	0.08	0.09	0.10	0.11
HF	3/4	0.22	0.25	0.28	0.32	0.35	0.38	0.17	0.19	0.21	0.23	0.25	0.26	0.10	0.11	0.13	0.14	0.15	0.16
HF	1	0.30	0.34	0.38	0.43	0.47	0.51	0.22	0.25	0.28	0.31	0.33	0.35	0.14	0.15	0.17	0.19	0.20	0.22
HF	1-1/4	0.38	0.44	0.49	0.55	0.60	0.65	0.29	0.32	0.36	0.39	0.42	0.45	0.18	0.20	0.22	0.24	0.26	0.28
HF	1-3/4	0.50	0.58	0.65	0.73	0.80	0.86	0.38	0.42	0.47	0.52	0.56	0.60	0.23	0.26	0.29	0.32	0.35	0.37
HF	3	0.90	1.03	1.16	1.29	1.42	1.53	0.67	0.75	0.84	0.92	1.00	1.06	0.42	0.47	0.52	0.57	0.62	0.66

REFRIGERANT LIQUID TEMPERATURE CORRECTION FACTORS

	REFRIGERANT LIQUID TEMPERATURE °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-1234ze	1.74	1.67	1.60	1.52	1.45	1.37	1.30	1.22	1.15	1.08	1.00	0.92	0.85	0.77	0.70

NOTE: These factors include corrections for liquid refrigerant density and net refrigeration effect, and are based on an average evaporator temperature of 0°F with a maximum 7°F Change in Superheat. However, they may be used for any evaporator temperature from -40°F to +40°F since the variation in the actual factors across this range is insignificant.