Opteon® XP40

Opteon® XP40 (R-449A) Pressure-Temperature Data for Stationary Refrigeration Systems

Pressure (bar.g)	Saturated Temperature (°C)			
	Opteon® XP40		Suva® R-404A	
	Liquid	Vapour	Liquid	Vapour
0.00	-46.0	-39.9	-46.2	-45.5
0.05	-45.0	-38.9	-45.2	-44.5
0.10	-44.0	-38.0	-44.2	-43.5
0.15	-43.1	-37.1	-43.3	-42.6
0.20	-42.2	-36.2	-42.4	-41.7
0.25	-41.3	-35.3	-41.5	-40.8
0.30	-40.5	-34.5	-40.7	-39.9
0.35	-39.7	-33.7	-39.8	-39.1
0.40	-38.9	-32.9	-39.0	-38.3
0.45	-38.1	-32.1	-38.2	-37.5
0.50	-37.3	-31.4	-37.5	-36.8
0.55	-36.6	-30.6	-36.7	-36.0
0.60	-35.9	-29.9	-36.0	-35.3
0.65	-35.2	-29.2	-35.3	-34.6
0.70	-34.5	-28.5	-34.6	-33.9
0.75	-33.8	-27.9	-33.9	-33.3
0.80	-33.2	-27.2	-33.3	-32.6
0.85	-32.5	-26.6	-32.6	-32.0
0.90	-31.9	-26.0	-32.0	-31.3
0.95	-31.3	-25.4	-31.4	-30.7
1.00	-30.7	-24.8	-30.8	-30.1
1.05	-30.1	-24.2	-30.2	-29.5
1.10	-29.5	-23.6	-29.6	-28.9
1.15	-28.9	-23.1	-29.0	-28.4
1.20	-28.4	-22.5	-28.4	-27.8
1.25	-27.8	-22.0	-27.9	-27.2
1.30	-27.3	-21.4	-27.3	-26.7
1.35	-26.8	-20.9	-26.8	-26.2
1.40	-26.2	-20.4	-26.3	-25.6
1.45	-25.7	-19.9	-25.8	-25.1
1.50	-25.2	-19.4	-25.2	-24.6
1.55	-24.7	-18.9	-24.7	-24.1
1.60	-24.2	-18.4	-24.2	-23.6
1.65	-23.7	-17.9	-23.8	-23.1
1.70	-23.3	-17.4	-23.3	-22.7
1.75	-22.8	-17.0	-22.8	-22.2
1.80	-22.3	-16.5	-22.3	-21.7
1.85	-21.9	-16.1	-21.9	-21.2

Pressure (bar.g)	Saturated Temperature (°C)			
	Opteon® XP40		Suva® R-404A	
	Liquid	Vapour	Liquid	Vapour
1.90	-21.4	-15.6	-21.4	-20.8
1.95	-21.0	-15.2	-21.0	-20.3
2.00	-20.5	-14.7	-20.5	-19.9
2.05	-20.1	-14.3	-20.1	-19.5
2.10	-19.7	-13.9	-19.6	-19.0
2.15	-19.3	-13.5	-19.2	-18.6
2.20	-18.8	-13.1	-18.8	-18.2
2.25	-18.4	-12.7	-18.4	-17.8
2.30	-18.0	-12.2	-18.0	-17.4
2.35	-17.6	-11.9	-17.5	-16.9
2.40	-17.2	-11.5	-17.1	-16.5
2.45	-16.8	-11.1	-16.7	-16.1
2.50	-16.4	-10.7	-16.3	-15.8
2.55	-16.0	-10.3	-15.9	-15.4
2.60	-15.7	-9.9	-15.6	-15.0
2.65	-15.3	-9.5	-15.2	-14.6
2.70	-14.9	-9.2	-14.8	-14.2
2.75	-14.5	-8.8	-14.4	-13.8
2.80	-14.2	-8.4	-14.1	-13.5
2.85	-13.8	-8.1	-13.7	-13.1
2.90	-13.4	-7.7	-13.3	-12.7
2.95	-13.1	-7.4	-13.0	-12.4
3.00	-12.7	-7.0	-12.6	-12.0
3.05	-12.4	-6.7	-12.2	-11.7
3.10	-12.0	-6.3	-11.9	-11.3
3.15	-11.7	-6.0	-11.5	-11.0
3.20	-11.3	-5.7	-11.2	-10.6
3.25	-11.0	-5.3	-10.9	-10.3
3.30	-10.7	-5.0	-10.5	-10.0
3.35	-10.3	-4.7	-10.2	-9.6
3.40	-10.0	-4.4	-9.9	-9.3
3.45	-9.7	-4.0	-9.5	-9.0
3.50	-9.4	-3.7	-9.2	-8.6
3.55	-9.1	-3.4	-8.9	-8.3
3.60	-8.7	-3.1	-8.6	-8.0
3.65	-8.4	-2.8	-8.2	-7.7
3.70	-8.1	-2.5	-7.9	-7.4
3.75	-7.8	-2.2	-7.6	-7.1

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Pressure (bar.g)	Saturated Temperature (°C)			
	Opteon® XP40		Suva® R-404A	
	Liquid	Vapour	Liquid	Vapour
3.80	-7.5	-1.9	-7.3	-6.7
3.85	-7.2	-1.6	-7.0	-6.4
3.90	-6.9	-1.3	-6.7	-6.1
3.95	-6.6	-1.0	-6.4	-5.8
4.00	-6.3	-0.7	-6.1	-5.5
4.05	-6.0	-0.4	-5.8	-5.2
4.10	-5.7	-0.1	-5.5	-4.9
4.15	-5.4	0.2	-5.2	-4.6
4.20	-5.1	0.5	-4.9	-4.4
4.25	-4.8	0.8	-4.6	-4.1
4.30	-4.5	1.0	-4.3	-3.8
4.35	-4.3	1.3	-4.0	-3.5
4.40	-4.0	1.6	-3.7	-3.2
4.45	-3.7	1.9	-3.5	-2.9
4.50	-3.4	2.1	-3.2	-2.6
4.55	-3.1	2.4	-2.9	-2.4
4.60	-2.9	2.7	-2.6	-2.1
4.65	-2.6	3.0	-2.3	-1.8
4.70	-2.3	3.2	-2.1	-1.5
4.75	-2.1	3.5	-1.8	-1.3
4.80	-1.8	3.7	-1.5	-1.0
4.85	-1.5	4.0	-1.3	-0.7
4.90	-1.3	4.3	-1.0	-0.5
4.95	-1.0	4.5	-0.7	-0.2
5.00	-0.8	4.8	-0.5	0.1
5.20	0.3	5.8	0.6	1.1
5.40	1.3	6.8	1.6	2.1
5.60	2.2	7.7	2.6	3.1
5.80	3.2	8.7	3.5	4.0
6.00	4.1	9.6	4.5	5.0
6.20	5.0	10.5	5.4	5.9
6.40	5.9	11.4	6.3	6.8
6.60	6.8	12.2	7.2	7.7
6.80	7.7	13.1	8.1	8.5
7.00	8.5	13.9	8.9	9.4
7.20	9.3	14.7	9.8	10.2
7.40	10.2	15.5	10.6	11.0
8.00	12.5	17.8	13.0	13.4

Pressure (bar.g)	Saturated Temperature (°C)			
	Opteon® XP40		Suva® R-404A	
	Liquid	Vapour	Liquid	Vapour
8.50	14.4	19.6	14.9	15.3
9.00	16.2	21.4	16.7	17.1
9.50	17.9	23.1	18.4	18.9
10.00	19.6	24.7	20.1	20.6
10.50	21.2	26.3	21.8	22.2
11.00	22.8	27.8	23.4	23.8
11.50	24.3	29.3	24.9	25.3
12.00	25.8	30.8	26.4	26.8
12.50	27.2	32.2	27.8	28.2
13.00	28.6	33.5	29.3	29.6
13.50	30.0	34.8	30.6	31.0
14.00	31.3	36.1	32.0	32.3
14.50	32.6	37.4	33.3	33.6
15.00	33.9	38.6	34.5	34.9
15.50	35.1	39.8	35.8	36.1
16.00	36.3	41.0	37.0	37.4
16.50	37.5	42.1	38.2	38.5
17.00	38.6	43.2	39.4	39.7
17.50	39.8	44.3	40.5	40.8
18.00	40.9	45.4	41.6	41.9
18.50	42.0	46.5	42.7	43.0
19.00	43.0	47.5	43.8	44.1
19.50	44.1	48.5	44.8	45.1
20.00	45.1	49.5	45.9	46.2
20.50	46.1	50.4	46.9	47.2
21.00	47.1	51.4	47.9	48.2
21.50	48.1	52.3	48.9	49.1
22.00	49.1	53.3	49.8	50.1
22.50	50.0	54.2	50.8	51.0
23.00	51.0	55.1	51.7	52.0
23.50	51.9	55.9	52.6	52.9
24.00	52.8	56.8	53.5	53.8
24.50	53.7	57.6	54.4	54.7
25.00	54.6	58.5	55.3	55.5
25.50	55.4	59.3	56.1	56.4
26.00	56.3	60.1	57.0	57.2
26.50	57.1	60.9	57.8	58.1
27.00	58.0	61.7	58.6	58.9

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