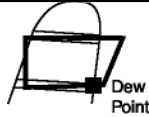


# DuPont™ ISCEON® Fluidos Refrigerantes

## Guia de Pressão – Temperatura -Eng

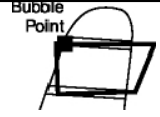
### Superaquecimento – Pressões de Vapor Saturado

Superaquecimento de Diagrama de PH Típico – Ponto de Referência



### Sub-resfriamento – Pressões de Vapor Saturado

Sub-resfriamento de Diagrama de PH Típico – Ponto de Referência



### Ponto de Orvalho – Vapor Saturado (psig)

Temp. °F	ISCEON® 29	ISCEON® 39TC R-423A	ISCEON® 49 R-413A	ISCEON® 59 R-417A	ISCEON® 69 R-403B	ISCEON® 79 R-422A	ISCEON® 89	Temp °C
-40	2.3	16.5"	13.3"	7.5"	5.5	3.1	9.2	-40
-38	0.8	15.7"	12.3"	6.2"	6.5	4.1	10.4	-39
-36	0.4	14.9"	11.3"	4.9"	7.6	5.1	11.7	-38
-34	1.2	14.0"	10.2"	3.5"	8.7	6.1	13.0	-37
-32	2.1	13.1"	9.1"	2.0"	9.9	7.2	14.3	-36
-30	3.0	12.1"	7.9"	0.5"	11.1	8.3	15.7	-34
-28	3.9	11.1"	6.6"	0.6	12.3	9.5	17.2	-33
-26	4.9	10.1"	5.3"	1.4	13.6	10.7	18.7	-32
-24	5.9	9.0"	4.0"	2.2	15.0	11.9	20.3	-31
-22	7.0	7.8"	2.6"	3.1	16.3	13.2	21.9	-30
-20	8.1	6.6"	1.1"	4.1	17.8	14.6	23.5	-29
-18	9.2	5.4"	0.2	5.0	19.3	16.0	25.3	-28
-16	10.4	4.0"	1.0	6.0	20.8	17.4	27.1	-27
-14	11.7	2.7"	1.8	7.1	22.4	18.9	28.9	-26
-12	12.9	1.3"	2.6	8.2	24.0	20.5	30.8	-24
-10	14.3	0.1	3.5	9.3	25.7	22.1	32.8	-23
-8	15.6	0.8	4.4	10.4	27.5	23.7	34.8	-22
-6	17.1	1.6	5.4	11.7	29.3	25.4	36.9	-21
-4	18.5	2.4	6.4	12.9	31.1	27.2	39.1	-20
-2	20.1	3.3	7.4	14.2	33.0	29.1	41.4	-19
0	21.7	4.2	8.5	15.6	35.0	30.9	43.7	-18
2	23.3	5.1	9.6	17.0	37.1	32.9	46.0	-17
4	25.0	6.0	10.7	18.4	39.2	34.9	48.5	-16
6	26.7	7.0	11.9	19.9	41.3	37.0	51.0	-14
8	28.5	8.0	13.1	21.4	43.6	39.1	53.6	-13
10	30.4	9.0	14.4	23.0	45.9	41.4	56.3	-12
12	32.3	10.1	15.7	24.7	48.2	43.6	59.1	-11
14	34.3	11.3	17.1	26.4	50.7	46.0	61.9	-10
16	36.4	12.4	18.5	28.2	53.2	48.4	64.8	-9
18	38.5	13.6	19.9	30.0	55.8	50.9	67.8	-8
20	40.7	14.9	21.4	31.9	58.4	53.5	70.9	-7
22	42.9	16.2	23.0	33.8	61.1	56.1	74.1	-6
24	45.2	17.5	24.6	35.8	63.9	58.8	77.3	-4
26	47.6	18.9	26.2	37.9	66.8	61.6	80.6	-3
28	50.1	20.3	28.0	40.0	69.8	64.5	84.1	-2
30	52.6	21.7	29.7	42.2	72.8	67.5	87.6	-1
32	55.2	23.3	31.5	44.4	75.9	70.5	91.2	0
34	57.9	24.8	33.4	46.8	79.1	73.6	94.9	1
36	60.6	26.4	35.4	49.2	82.4	76.8	98.7	2
38	63.5	28.1	37.3	51.6	85.7	80.1	102.7	3
40	66.4	29.8	39.4	54.2	89.2	83.5	106.7	4
42	69.4	31.6	41.5	56.8	92.7	87.0	110.8	6
44	72.5	33.4	43.7	59.5	96.3	90.5	115.0	7
46	75.6	35.2	45.9	62.2	100.0	94.2	119.3	8
48	78.9	37.2	48.2	65.1	103.8	97.9	123.7	9
50	82.2	39.1	50.6	68.0	107.7	101.8	128.2	10

### Ponto de Ebulição – Líquido Saturado (psig)

Temp. °F	ISCEON® 29	ISCEON® 39TC R-423A	ISCEON® 49 R-413A	ISCEON® 59 R-417A	ISCEON® 69 R-403B	ISCEON® 79 R-422A	ISCEON® 89	Temp °C
50	92.6	40.4	58.2	78.1	111.5	107.3	134.0	10
52	96.1	42.5	60.7	81.3	115.5	111.3	138.7	11
54	99.8	44.6	63.4	84.5	119.6	115.4	143.5	12
56	103.6	46.8	66.0	87.9	123.8	119.7	148.4	13
58	107.4	49.0	68.8	91.3	128.1	124.0	153.4	14
60	111.4	51.4	71.6	94.8	132.5	128.4	158.5	16
62	115.4	53.7	74.5	98.4	137.0	132.9	163.8	17
64	119.6	56.2	77.5	102.1	141.5	137.5	169.1	18
66	123.8	58.7	80.5	105.8	146.2	142.3	174.6	19
68	128.1	61.2	83.7	109.7	151.0	147.1	180.2	20
70	132.6	63.9	86.9	113.6	155.9	152.1	185.9	21
72	137.1	66.6	90.2	117.7	160.9	157.2	191.7	22
74	141.7	69.4	93.5	121.8	166.0	162.3	197.7	23
76	146.5	72.2	96.9	126.0	171.3	167.6	203.8	24
78	151.3	75.1	100.5	130.4	176.6	173.1	210.0	26
80	156.3	78.1	104.1	134.8	182.0	178.6	216.4	27
82	161.4	81.2	107.8	139.3	187.6	184.2	222.9	28
84	166.5	84.4	111.6	144.0	193.3	190.0	229.5	29
86	171.8	87.6	115.4	148.7	199.0	195.9	236.3	30
88	177.2	90.9	119.4	153.5	205.0	201.9	243.2	31
90	182.8	94.3	123.4	158.5	211.0	208.1	250.2	32
92	188.4	97.7	127.6	163.5	217.1	214.4	257.4	33
94	194.2	101.3	131.8	168.7	223.4	220.8	264.8	34
96	200.0	104.9	136.1	173.9	229.8	227.4	272.3	36
98	206.0	108.6	140.5	179.3	236.3	234.0	279.9	37
100	212.2	112.4	145.0	184.8	243.0	240.9	287.7	38
102	218.4	116.3	149.7	190.4	249.8	247.8	295.6	39
104	224.8	120.2	154.4	196.1	256.7	254.9	303.8	40
106	231.3	124.3	159.2	202.0	263.8	262.2	312.0	41
108	237.9	128.4	164.1	207.9	271.0	269.6	320.5	42
110	244.7	132.7	169.1	214.0	278.3	277.1	329.1	43
112	251.6	137.0	174.3	220.2	285.8	284.8	337.9	44
114	258.7	141.5	179.5	226.6	293.4	292.6	346.8	46
116	265.9	146.0	184.9	233.0	301.1	300.6	355.9	47
118	273.2	150.6	190.3	239.6	309.0	308.8	365.3	48
120	280.7	155.3	195.9	246.3	317.1	317.1	374.7	49
122	288.3	160.2	201.6	253.2	325.3	325.6	384.4	50
124	296.0	165.1	207.4	260.2	333.7	334.2	394.3	51
126	304.0	170.1	213.3	267.3	342.2	343.1	404.4	52
128	312.0	175.2	219.3	274.6	350.9	352.0	414.7	53
130	320.2	180.5	225.5	282.0	359.7	361.2	425.2	54
132	328.6	185.8	231.8	289.5	368.7	370.5	435.9	56
134	337.1	191.3	238.2	297.2	377.9	380.1	446.8	57
136	345.8	196.9	244.7	305.0	387.2	389.8	458.0	58
138	354.7	202.5	251.4	313.0	396.8	399.6	469.4	59
140	363.7	208.3	258.1	321.1	406.5	409.7	481.0	60
142	372.9	214.2	265.1	329.4	416.3	420.0	492.8	61
144	382.3	220.3	272.1	337.8	426.4	430.5	504.8	62
146	391.8	226.4	279.3	346.4	436.7	441.2	517.0	63
148	401.5	232.7	286.6	355.2	447.1	452.1	529.4	64
150	411.4	239.1	294.1	364.1	457.7	463.2	542.0	66



**Para Mais Informações: 0800 17-17-15**  
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