



Applications

- Refrigerant in
 - Refrigerators
 - Automobiles
 - Industrial refrigeration units
- Aerosol Propellant
- Foam Blowing Agent

Packaging (Domestic)

Specification	Unit	Value
Cans	Gms	340
Cans	Gms	450
Returnable Cylinders	Kg	5
Returnable Cylinders	Kg	10
Returnable Cylinders	Kg	62
Tonnars	Kg	825

Packaging (Exports)

Specification	Unit	Value
Cans	Gms	340
Cans	Gms	450
Disposable Cylinders	Kg	13.6
ISO	MT	17-21



ULTRA PURE SUPER COOL REFRIGERANT





ULTRA PURE SUPER COOL REFRIGERANT

SPECIFICATIONS

Specification	Unit	Value
Minimum Purity	%	99.9
Maximum water content	ppm	10
Maximum Non-condensable in vapour phase	vol%	1.5
Chloride, no visible turbidity	-	Pass
Maximum Non-volatile residue	ppm	50
Maximum Acidity (as HCl)	ppm	1

PHYSICAL PROPERTIES

Specification	Unit	Value
Description	-	1, 1, 1, 2 - Tetrafluoroethane
Chemical formula	-	CF ₃ CH ₂ F
Molecular weight	-	102.031
Odour	-	Faint Ethereal Odour
Flammability	-	Non-flammable
Toxicity	-	Practically non-toxic
Boiling point at 1 atm	°C	-26.18
Freezing point	°C	-96.6
Critical temperature	°C	101.08
Critical pressure (absolute)	Kg/cm ²	41.43
Critical density	gm/cc	0.507
Ozone Depletion Potential (ODP)	-	0

Temp [°C]	Pressure [Psig]	Density Liquid [kg/m ³]	Density Vapour [kg/m ³]	Enthalpy Liquid [kJ/kg]	Enthalpy Vapour [kJ/kg]	Entropy Liquid [kJ/kgK]	Entropy Vapour [kJ/kgK]
-80	-14.16	1529.00	0.23	99.160	348.800	0.5654	1.8580
-78	-14.07	1524.00	0.27	101.600	350.100	0.5778	1.8510
-76	-13.96	1518.00	0.32	104.000	351.300	0.5900	1.8450
-74	-13.84	1513.00	0.37	106.400	352.500	0.6022	1.8380
-72	-13.70	1507.00	0.42	108.800	353.800	0.6142	1.8320
-70	-13.54	1502.00	0.49	111.200	355.000	0.6262	1.8260
-68	-13.36	1496.00	0.56	113.600	356.300	0.6381	1.8210
-66	-13.16	1491.00	0.63	116.000	357.500	0.6498	1.8160
-64	-12.93	1485.00	0.72	118.500	358.800	0.6615	1.8100
-62	-12.67	1480.00	0.82	120.900	360.000	0.6731	1.8060
-60	-12.39	1474.00	0.93	123.400	361.300	0.6846	1.8010
-58	-12.07	1469.00	1.05	125.800	362.600	0.6961	1.7970
-56	-11.72	1463.00	1.18	128.300	363.800	0.7074	1.7920
-54	-11.33	1458.00	1.32	130.700	365.100	0.7187	1.7880
-52	-10.90	1452.00	1.48	133.200	366.400	0.7299	1.7840
-50	-10.42	1446.00	1.65	135.700	367.700	0.7410	1.7810
-48	-9.90	1441.00	1.84	138.200	368.900	0.7521	1.7770
-46	-9.33	1435.00	2.04	140.600	370.200	0.7631	1.7740
-44	-8.70	1429.00	2.27	143.100	371.500	0.7740	1.7700
-42	-8.02	1423.00	2.51	145.600	372.700	0.7848	1.7670
-40	-7.27	1418.00	2.77	148.100	374.000	0.7956	1.7640
-38	-6.45	1412.00	3.05	150.700	375.300	0.8063	1.7620
-36	-5.57	1406.00	3.36	153.200	376.500	0.8170	1.7590
-34	-4.61	1400.00	3.69	155.700	377.800	0.8276	1.7560
-32	-3.58	1394.00	4.04	158.200	379.100	0.8381	1.7540
-30	-2.46	1388.00	4.43	160.800	380.300	0.8486	1.7510
-28	-1.25	1382.00	4.84	163.300	381.600	0.8591	1.7490
-26	0.05	1376.00	5.28	165.900	382.800	0.8694	1.7470
-24	1.45	1370.00	5.75	168.500	384.100	0.8798	1.7450
-22	2.94	1364.00	6.25	171.100	385.300	0.8900	1.7430
-20	4.55	1358.00	6.78	173.600	386.600	0.9002	1.7410
-18	6.28	1352.00	7.36	176.200	387.800	0.9104	1.7400
-16	8.12	1346.00	7.97	178.800	389.000	0.9205	1.7380
-14	10.08	1340.00	8.62	181.400	390.200	0.9306	1.7360
-12	12.17	1333.00	9.31	184.100	391.500	0.9407	1.7350
-10	14.40	1327.00	10.04	186.700	392.700	0.9506	1.7330
-8	16.76	1321.00	10.82	189.300	393.900	0.9606	1.7320
-6	19.29	1314.00	11.65	192.000	395.100	0.9705	1.7310
-4	21.96	1308.00	12.52	194.500	396.300	0.9804	1.7290
-2	24.78	1301.00	13.45	197.300	397.400	0.9902	1.7280
0	27.77	1295.00	14.43	200.000	398.600	1.0000	1.7270
2	30.93	1288.00	15.46	202.700	399.800	1.0100	1.7260
4	34.28	1281.00	16.56	205.400	400.900	1.0199	1.7250
6	37.81	1275.00	17.72	208.100	402.100	1.0299	1.7240
8	41.52	1268.00	18.94	210.800	403.200	1.0399	1.7230
10	45.44	1261.00	20.23	213.600	404.300	1.0480	1.7220
12	49.56	1254.00	21.58	216.300	405.400	1.0580	1.7210
14	53.89	1247.00	23.01	219.100	406.500	1.0680	1.7200
16	58.45	1240.00	24.52	221.900	407.600	1.0770	1.7200
18	63.22	1233.00	26.11	224.700	408.700	1.0870	1.7190
20	68.22	1225.00	27.78	227.500	409.700	1.0960	1.7180
22	73.47	1218.00	29.54	230.300	410.800	1.1060	1.7170
24	78.97	1210.00	31.39	233.100	411.900	1.1150	1.7170
26	84.71	1203.00	33.34	236.000	412.800	1.1250	1.7160
28	90.73	1195.00	35.38	238.800	413.800	1.1340	1.7150
30	97.01	1187.00	37.54	241.700	414.800	1.1440	1.7140
32	103.57	1179.00	39.80	244.600	415.800	1.1530	1.7140
34	110.41	1172.00	42.18	247.500	416.700	1.1620	1.7130
36	117.55	1163.00	44.68	250.500	417.600	1.1720	1.7120
38	125.00	1155.00	47.32	253.400	418.500	1.1810	1.7120
40	132.81	1147.00	50.09	256.400	419.400	1.1900	1.7110
42	140.78	1138.00	53.00	259.400	420.300	1.2000	1.7100
44	149.20	1129.00	56.06	262.400	421.100	1.2090	1.7100
46	157.90	1121.00	59.29	265.500	421.900	1.2190	1.7090
48	167.04	1112.00	62.69	268.500	422.700	1.2280	1.7080
50	176.46	1102.00	66.27	271.600	423.400	1.2370	1.7070
52	186.18	1093.00	70.05	274.700	424.100	1.2470	1.7060
54	196.33	1083.00	74.03	277.900	424.800	1.2560	1.7050
56	206.92	1073.00	78.24	281.100	425.500	1.2660	1.7050
58	217.95	1063.00	82.68	284.300	426.100	1.2750	1.7040
60	229.26	1053.00	87.38	287.500	426.600	1.2850	1.7020
62	241.01	1042.00	92.36	290.800	427.100	1.2940	1.7010
64	253.19	1031.00	97.64	294.100	427.600	1.3040	1.7000
66	265.81	1020.00	103.20	297.400	428.000	1.3140	1.6990
68	278.86	1008.00	109.20	300.800	428.400	1.3230	1.6970
70	292.35	996.20	115.60	304.300	428.600	1.3330	1.6960
72	306.27	983.80	122.40	307.800	428.900	1.3430	1.6940
74	320.78	970.80	129.70	311.300	429.000	1.3530	1.6920
76	335.72	957.30	137.50	314.900	429.000	1.3630	1.6900
78	351.24	943.10	145.90	318.600	429.000	1.3730	1.6880
80	367.19	928.20	155.10	322.400	428.800	1.3840	1.6850

SRF LIMITED : Block C, Sector 45, Gurgaon - 122 003, Haryana, India, Ph. +91-124-4354400

Delhi : Ph. : +91-11-41709410/11 **Mumbai** : Ph. : +91-22-66922600-605. **Ahmedabad** : Ph. : +91-9898070122

Kolkata : Ph. : +91-33-24031845, 24031863. **Chennai** : Ph. : +91-44-28518020, 28518021

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Applications (New Systems)

- Residential Airconditioning Systems
- Commercial Airconditioning Systems
- Chillers
- Heat Pumps

Retrofit

FLORON 410A is not recommended for retrofit

- FLORON 410A has higher operating pressure as compared to R-22
- FLORON 410A must be used in systems specifically designed for R 410A

Packaging (Domestic)

Specification	Unit	Value
Returnable Cylinders	Kg	9
Returnable Cylinders	Kg	55
Returnable Tonners	Kg	740

Packaging (Exports)

Specification	Unit	Value
Disposable Cylinders	Kg	11.3





ULTRA PURE SUPER COOL REFRIGERANT

SPECIFICATIONS

Specification	Unit	Value
Maximum water content	ppm	10
Maximum Non-condensable in vapour phase	vol%	1.5
Chloride, no visible turbidity	-	Pass
Maximum Non-volatile residue	ppm	50
Maximum Acidity (as HCl)	ppm	1

DESCRIPTION

FLORON 410A is a near Azeotropic blend of

Component	Chemical Name	CAS No	Wt %
HFC 32	Difluoromethane	75-10-5	50+/-2
HFC 125	Pentafluoroethane	354-33-6	50+/-2

PHYSICAL PROPERTIES

Specification	Unit	Value
Description		Difluoromethane/Pentafluoroethane
Chemical Formula		CH ₂ F ₂ / CHF ₃ CF ₃
Molecular Weight, avg.	g/mol	72.6
Boiling Point @ 1 ATM	°C	-51.5
Critical Temperature	°C	70.22
Critical Pressure (absolute)	kg/cm ²	50.23
Freezing Point	°C	-155
Vapor Pressure at 25°C	bar	16.5
Critical Density	gm/cc	0.489
Flammability	-	None
Toxicity	-	Practically non-toxic
Ozone Depletion Potential (ODP)	-	0
ASHRAE Safety Group Classification		A1

Temp [°C]	Pressure Liquid [Psig]	Pressure Vapour [Psig]	Density Liquid [kg/m ³]	Density Vapour [kg/m ³]	Enthalpy Liquid [kJ/kg]	Enthalpy Vapour [kJ/kg]	Entropy Liquid [kJ/kgK]	Entropy Vapour [kJ/kgK]
-70	-9.45	-9.47	1407.00	1.59	102.200	388.200	0.5901	1.9980
-68	-8.77	-8.79	1401.00	1.78	104.900	389.300	0.6031	1.9900
-66	-8.02	-8.03	1395.00	1.99	107.500	390.500	0.6160	1.9820
-64	-7.19	-7.21	1389.00	2.22	110.200	391.600	0.6287	1.9740
-62	-6.28	-6.30	1383.00	2.47	112.900	392.700	0.6414	1.9670
-60	-5.28	-5.30	1377.00	2.74	115.500	393.800	0.6540	1.9600
-58	-4.19	-4.21	1371.00	3.04	118.200	394.900	0.6665	1.9530
-56	-3.00	-3.03	1365.00	3.36	120.900	396.000	0.6789	1.9460
-54	-1.70	-1.74	1358.00	3.71	123.600	397.000	0.6912	1.9390
-52	-0.30	-0.33	1352.00	4.09	126.300	398.100	0.7035	1.9330
-50	1.23	1.19	1346.00	4.49	129.000	399.200	0.7156	1.9260
-48	2.88	2.84	1340.00	4.93	131.700	400.200	0.7277	1.9200
-46	4.67	4.61	1333.00	5.40	134.400	401.200	0.7397	1.9140
-44	6.58	6.52	1327.00	5.90	137.200	402.300	0.7516	1.9090
-42	8.66	8.60	1320.00	6.44	139.900	403.300	0.7635	1.9030
-40	10.87	10.82	1314.00	7.02	142.700	404.300	0.7752	1.8970
-38	13.27	13.19	1307.00	7.64	145.400	405.200	0.7870	1.8920
-36	15.82	15.75	1301.00	8.31	148.200	406.200	0.7986	1.8870
-34	18.56	18.47	1294.00	9.01	151.000	407.200	0.8102	1.8820
-32	21.48	21.39	1287.00	9.77	153.700	408.100	0.8217	1.8770
-30	24.59	24.49	1281.00	10.57	156.500	409.100	0.8332	1.8720
-28	27.93	27.81	1274.00	11.43	159.300	410.000	0.8446	1.8670
-26	31.47	31.34	1267.00	12.34	162.200	410.900	0.8560	1.8630
-24	35.23	35.10	1260.00	13.30	165.000	411.800	0.8673	1.8580
-22	39.21	39.07	1253.00	14.33	167.800	412.600	0.8786	1.8540
-20	43.45	43.29	1246.00	15.42	170.700	413.500	0.8898	1.8490
-18	47.93	47.76	1239.00	16.57	173.500	414.300	0.9010	1.8450
-16	52.67	52.49	1232.00	17.79	176.400	415.100	0.9121	1.8410
-14	57.69	57.49	1224.00	19.09	179.300	415.900	0.9232	1.8360
-12	62.99	62.75	1217.00	20.46	182.200	416.700	0.9343	1.8320
-10	68.57	68.32	1210.00	21.91	185.100	417.500	0.9453	1.8280
-8	74.44	74.20	1202.00	23.44	188.100	418.200	0.9563	1.8240
-6	80.65	80.36	1194.00	25.06	191.000	418.900	0.9673	1.8200
-4	87.16	86.86	1187.00	26.77	194.000	419.600	0.9782	1.8170
-2	94.01	93.69	1179.00	28.57	197.000	420.300	0.9891	1.8130
0	101.20	100.86	1171.00	30.48	200.000	420.900	1.0000	1.8090
2	108.75	108.38	1163.00	32.50	203.000	421.500	1.0110	1.8050
4	116.67	116.26	1155.00	34.63	206.100	422.100	1.0220	1.8010
6	124.95	124.53	1147.00	36.87	209.100	422.700	1.0330	1.7980
8	133.68	133.24	1138.00	39.24	212.200	423.200	1.0430	1.7940
10	142.67	142.24	1130.00	41.75	215.300	423.700	1.0540	1.7900
12	152.24	151.66	1121.00	44.39	218.500	424.100	1.0650	1.7860
14	162.11	161.53	1112.00	47.18	221.600	424.600	1.0760	1.7830
16	172.40	171.97	1103.00	50.13	224.800	424.900	1.0870	1.7790
18	183.28	182.70	1094.00	53.24	228.000	425.300	1.0980	1.7750
20	194.59	193.87	1085.00	56.53	231.300	425.600	1.1080	1.7710
22	206.34	205.62	1076.00	60.01	234.500	425.800	1.1190	1.7680
24	218.53	217.80	1066.00	63.70	237.800	426.000	1.1300	1.7640
26	231.29	230.56	1056.00	67.60	241.200	426.200	1.1410	1.7600
28	244.49	243.76	1046.00	71.73	244.600	426.300	1.1520	1.7560
30	258.41	257.54	1035.00	76.11	248.000	426.300	1.1630	1.7520
32	272.62	271.90	1025.00	80.77	251.400	426.300	1.1740	1.7470
34	287.56	286.69	1014.00	85.71	254.900	426.200	1.1850	1.7430
36	303.08	302.21	1003.00	90.98	258.500	426.100	1.1960	1.7390
38	319.18	318.17	991.00	96.59	262.100	425.800	1.2080	1.7340
40	335.86	334.85	979.00	102.60	265.700	425.500	1.2190	1.7290
42	353.27	352.25	966.60	109.00	269.500	425.100	1.2300	1.7240
44	371.25	370.09	953.70	115.90	273.200	424.600	1.2420	1.7190
46	389.82	388.80	940.30	123.30	277.100	424.000	1.2540	1.7140
48	409.25	408.09	926.30	131.30	281.000	423.200	1.2660	1.7080
50	429.27	428.11	911.60	140.00	285.100	422.300	1.2780	1.7020
52	450.01	448.99	896.10	149.50	289.200	421.200	1.2900	1.6960
54	471.62	470.46	879.70	159.90	293.500	419.900	1.3020	1.6890
56	493.95	492.94	862.20	171.30	297.900	418.400	1.3150	1.6820
58	517.16	516.00	843.40	184.10	302.500	416.600	1.3290	1.6730
60	541.24	540.08	823.00	198.60	307.300	414.500	1.3430	1.6640
62	566.04	565.02	800.30	215.20	312.400	411.900	1.3570	1.6540
64	592.00	590.98	774.80	234.80	317.900	408.700	1.3730	1.6420
66	618.83	617.96	744.70	258.90	323.900	404.600	1.3900	1.6280

SRF LIMITED : Block C, Sector 45, Gurgaon - 122 003, Haryana, India, Ph. +91-124-4354400

Delhi : Ph. : +91-11-41709410/11 Mumbai : Ph. : +91-22-66922600-605. Ahmedabad : Ph. : +91-9898070122

Kolkata : Ph. : +91-33-24031845, 24031863. Chennai : Ph. : +91-44-28518020, 28518021

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Applications

- Refrigerant in
 - Air conditioners
 - Central Chillers
 - Packaged Air conditioners
 - Commercial and industrial refrigeration units
- Low Temperature Solvent
- Raw material in the manufacturing of Fluoropolymer resins

Packaging (Domestic)

Specification	Unit	Value
Returnable Cylinders	Kg	5
Returnable Cylinders	Kg	10
Returnable Cylinders	Kg	61
Tonnors	Kg	825

Packaging (Exports)

Specification	Unit	Value
Disposable Cylinders	Kg	13.6
Disposable Cylinders	Kg	22.7
ISO	MT	17-21



ULTRA PURE SUPER COOL REFRIGERANT





ULTRA PURE SUPER COOL REFRIGERANT

SPECIFICATIONS

Specification	Unit	Value
Minimum Purity	%	99.9
Maximum water content	ppm	10
Maximum Non-condensable in vapour phase	vol%	1.5
Chloride, no visible turbidity	-	Pass
Maximum Non-volatile residue	ppm	50
Maximum Acidity (as HCl)	ppm	1

PHYSICAL PROPERTIES

Specification	Unit	Value
Description	-	Monochlorodifluoro Methane
Chemical formula	-	CHClF ₂
Molecular weight	-	86.48
Odour	-	Nearly odourless
Flammability	-	Non-flammable
Toxicity	-	Practically non-toxic
Boiling point I at atm	°C	-40.8
Freezing point	°C	-160
Critical temperature	°C	96
Critical pressure (absolute)	Kg/cm ²	50.3
Critical volume	cc/mol	164
Critical density	gm/cc	0.525
Relative dielectric strength at I amt and 23 °C	-	1.3
Dielectric constant of liquid at 24 °C	-	6.11
Dielectric constant of vapour (0.5 atm) at 25.4 °C	-	1.0035

Temp [C]	Pressure [bar]	Density(L) [kg/m ^ 3]	Density(V) [kg/m ^ 3]	Enthalpy(L) [kJ/kg]	Enthalpy(V) [kJ/kg]	Entropy (L) [KJ/K-kg]	Entropy (V) [kJ/K-kg]
-60.00	0.375	1464	1.863	133.3	378.6	0.7260	1.877
-58.00	0.420	1458	2.070	135.4	379.6	0.7360	1.871
-56.00	0.469	1453	2.295	137.6	380.5	0.7459	1.865
-54.00	0.523	1447	2.539	139.7	381.5	0.7558	1.859
-52.00	0.582	1441	2.803	141.9	382.5	0.7655	1.853
-50.00	0.645	1436	3.088	144.0	383.4	0.7752	1.848
-48.00	0.715	1430	3.395	146.2	384.4	0.7849	1.843
-46.00	0.789	1424	3.726	148.4	385.3	0.7944	1.838
-44.00	0.871	1418	4.082	150.5	386.3	0.8039	1.833
-42.00	0.958	1413	4.464	152.7	387.2	0.8134	1.828
-40.00	1.052	1407	4.873	154.9	388.1	0.8227	1.823
-38.00	1.154	1401	5.311	157.1	389.1	0.8320	1.819
-36.00	1.263	1395	5.779	159.3	390.0	0.8413	1.814
-34.00	1.380	1389	6.279	161.5	390.9	0.8505	1.810
-32.00	1.505	1383	6.811	163.7	391.8	0.8596	1.806
-30.00	1.639	1377	7.379	165.9	392.7	0.8687	1.802
-28.00	1.782	1371	7.982	168.1	393.6	0.8778	1.798
-26.00	1.934	1365	8.623	170.3	394.5	0.8868	1.794
-24.00	2.097	1359	9.304	172.6	395.3	0.8957	1.790
-22.00	2.270	1353	10.03	174.8	396.2	0.9046	1.786
-20.00	2.453	1347	10.79	177.0	397.1	0.9135	1.783
-18.00	2.648	1340	11.60	179.3	397.9	0.9223	1.779
-16.00	2.854	1334	12.45	181.6	398.7	0.9311	1.776
-14.00	3.073	1328	13.36	183.8	399.6	0.9398	1.772
-12.00	3.304	1321	14.31	186.1	400.4	0.9485	1.769
-10.00	3.548	1315	15.32	188.4	401.2	0.9572	1.766
-8.000	3.805	1308	16.38	190.7	402.0	0.9658	1.763
-6.000	4.077	1302	17.50	193.0	402.8	0.9744	1.760
-4.000	4.363	1295	18.68	195.3	403.5	0.9830	1.757
-2.000	4.664	1288	19.92	197.7	404.3	0.9915	1.754
0.0	4.980	1282	21.23	200.0	405.0	1.000	1.751
2.000	5.312	1275	22.60	202.4	405.8	1.008	1.748
4.000	5.661	1268	24.04	204.7	406.5	1.017	1.745
6.000	6.026	1261	25.56	207.1	407.2	1.025	1.742
8.000	6.409	1254	27.15	209.5	407.9	1.034	1.739
10.00	6.809	1247	28.82	211.9	408.6	1.042	1.737
12.00	7.229	1239	30.57	214.3	409.2	1.051	1.734
14.00	7.667	1232	32.41	216.7	409.9	1.059	1.732
16.00	8.124	1225	34.34	219.1	410.5	1.067	1.729
18.00	8.602	1217	36.36	221.6	411.1	1.076	1.726
20.00	9.100	1210	38.48	224.1	411.7	1.084	1.724
22.00	9.619	1202	40.70	226.5	412.2	1.092	1.721
24.00	10.160	1195	43.03	229.0	412.8	1.100	1.719
26.00	10.720	1187	45.47	231.5	413.3	1.109	1.716
28.00	11.310	1179	48.02	234.1	413.8	1.117	1.714
30.00	11.920	1171	50.70	236.6	414.3	1.125	1.711
32.00	12.550	1163	53.52	239.2	414.7	1.133	1.709
34.00	13.210	1154	56.46	241.8	415.1	1.142	1.706
36.00	13.890	1146	59.55	244.4	415.5	1.150	1.704
38.00	14.600	1137	62.79	247.0	415.9	1.158	1.701
40.00	15.340	1129	66.19	249.6	416.2	1.166	1.698
42.00	16.100	1120	69.76	252.3	416.6	1.175	1.696
44.00	16.890	1111	73.51	255.0	416.8	1.183	1.693
46.00	17.700	1101	77.45	257.7	417.1	1.191	1.691
48.00	18.550	1092	81.59	260.5	417.3	1.200	1.688
50.00	19.430	1082	85.95	263.2	417.4	1.208	1.685
52.00	20.330	1072	90.54	266.0	417.6	1.216	1.682
54.00	21.270	1062	95.38	268.9	417.6	1.225	1.680
56.00	22.240	1052	100.5	271.8	417.7	1.233	1.677
58.00	23.240	1041	105.9	274.7	417.6	1.242	1.674
60.00	24.270	1030	111.6	277.6	417.5	1.250	1.670

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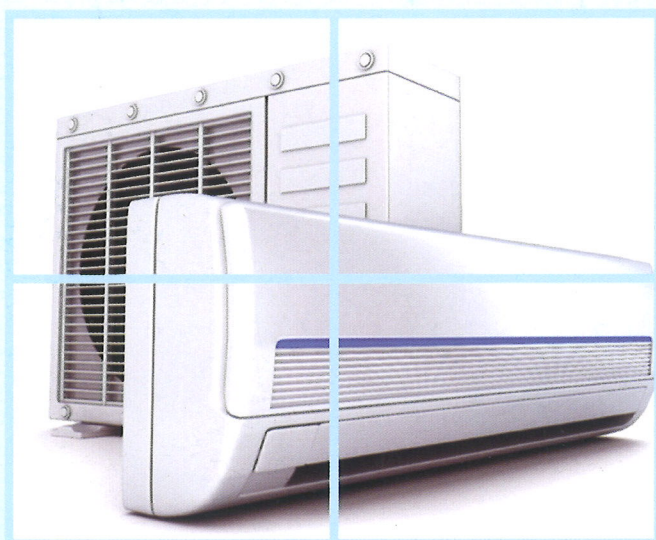
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Applications

- Residential Air Conditioners

PACKAGING

Specification	Unit	Value
ReturnableCylinders	Kg	8
ReturnableCylinders	Kg	50
ReturnableTonners	Kg	700
Isotank	MT	16-18



PHYSICAL PROPERTIES

Description	Unit	Difluoromethane
Chemical Formula		CH ₂ F ₂
Molecular Weight	g/mol	52
Boiling Point	DegC	-51.7
Critical Temperature	DegC	78.4
Critical Pressure (Abs)	Kg/cm ²	53.8
Freezing Point	DegC	-136
Vapor Pressure at 25 °C	bar	16.3
Gas Density at 25 °C	gm/cc	2.155
Flammability Range	Vol% in air	14-31
Toxicity		Practically non-toxic
Ozone depletion Potential (ODP)		0
ASHRAE Safety Group Classification		A2



ULTRA PURE SUPER COOL REFRIGERANT





ULTRA PURE SUPER COOL REFRIGERANT

SPECIFICATIONS

Specification	Unit	Value
Maximum water content	ppm	10
Maximum Non-condensable in vapour phase	Vol %	1.5
Chloride, no visible turbidity	-	Pass
Maximum Non-volatile residue	ppm	50
Maximum Acidity (as HCL)	ppm	1

TEMP °C	PressureLiquid psig	DensityLiquid kg/m ³	Density Vapour kg/m ³	Enthalpy Liquid kJ/kg	Enthalpy Vapour kJ/kg	Entropy Liquid kJ/kg-K	EntropyVapour kJ/kg-K
-70	-9.44	1262.45	3.36	85.66	486.57	0.52	2.49
-68	-8.76	1257.16	3.31	88.80	487.68	0.54	2.48
-66	-8.00	1251.86	3.26	91.95	488.79	0.55	2.47
-64	-7.17	1246.52	3.22	95.09	489.89	0.57	2.45
-62	-6.25	1241.16	3.17	98.24	491.00	0.58	2.44
-60	-5.25	1235.77	3.14	101.38	492.11	0.60	2.43
-58	-4.15	1230.35	3.10	104.54	493.14	0.61	2.42
-56	-2.95	1224.90	3.06	107.71	494.17	0.62	2.41
-54	-1.65	1219.41	3.03	110.87	495.21	0.64	2.39
-52	-0.23	1213.89	2.99	114.04	496.24	0.65	2.38
-50	1.31	1208.34	2.96	117.20	497.27	0.67	2.37
-48	2.97	1202.75	2.93	120.41	498.22	0.68	2.36
-46	4.77	1197.12	2.90	123.61	499.17	0.70	2.35
-44	6.71	1191.45	2.87	126.82	500.12	0.71	2.34
-42	8.81	1185.74	2.84	130.02	501.07	0.72	2.33
-40	11.06	1179.99	2.81	133.23	502.02	0.74	2.32
-38	13.47	1174.20	2.78	136.45	502.91	0.75	2.31
-36	16.06	1168.35	2.76	139.69	503.78	0.77	2.30
-34	18.83	1162.46	2.73	142.93	504.63	0.78	2.29
-32	21.80	1156.53	2.71	146.18	505.47	0.79	2.28
-30	24.96	1150.53	2.68	149.45	506.27	0.81	2.27
-28	28.34	1144.49	2.66	152.72	507.06	0.82	2.26
-26	31.93	1138.39	2.63	156.01	507.83	0.83	2.26
-24	35.75	1132.23	2.61	159.31	508.57	0.85	2.25
-22	39.81	1126.00	2.59	162.62	509.28	0.86	2.24
-20	44.12	1119.72	2.56	165.94	509.97	0.87	2.23
-18	48.69	1113.36	2.54	169.28	510.64	0.89	2.22
-16	53.52	1106.94	2.52	172.63	511.28	0.90	2.21
-14	58.63	1100.44	2.50	175.99	511.89	0.91	2.21
-12	64.03	1093.86	2.48	179.37	512.47	0.92	2.20
-10	69.73	1087.20	2.46	182.76	513.02	0.94	2.19
-8	75.74	1080.45	2.44	186.18	513.54	0.95	2.18
-6	82.07	1073.61	2.42	189.60	514.03	0.96	2.18
-4	88.73	1066.68	2.40	193.05	514.49	0.97	2.17
-2	95.74	1059.64	2.38	196.52	514.91	0.99	2.16
0	103.10	1052.49	2.36	200.00	515.30	1.00	2.15
2	110.84	1045.23	2.34	203.50	515.65	1.01	2.15
4	118.95	1037.85	2.33	207.03	515.96	1.03	2.14
6	127.45	1030.33	2.31	210.58	516.24	1.04	2.13
8	136.35	1022.67	2.29	214.15	516.47	1.05	2.13
10	145.68	1014.86	2.27	217.74	516.66	1.06	2.12
12	155.43	1006.89	2.26	221.36	516.80	1.08	2.11
14	165.62	998.74	2.24	225.01	516.90	1.09	2.10
16	176.27	990.40	2.22	228.68	516.95	1.10	2.10
18	187.39	981.84	2.21	232.39	516.95	1.11	2.09
20	199.00	973.06	2.19	236.12	516.90	1.13	2.08
22	211.10	964.02	2.18	239.89	516.79	1.14	2.08
24	223.71	954.71	2.16	243.69	516.62	1.15	2.07
26	236.85	945.07	2.15	247.53	516.39	1.16	2.06
28	250.53	935.08	2.13	251.40	516.09	1.18	2.05
30	264.76	924.68	2.12	255.32	515.72	1.19	2.05
32	279.57	913.81	2.10	259.28	515.29	1.20	2.04
34	294.96	902.38	2.09	263.28	514.77	1.21	2.03
36	310.96	890.30	2.07	267.34	514.17	1.23	2.02
38	327.58	877.41	2.06	271.45	513.49	1.24	2.02
40	344.83	863.50	2.05	275.61	512.71	1.25	2.01
42	362.74	848.25	2.03	279.84	511.82	1.27	2.00
44	381.32	831.10	2.02	284.13	510.83	1.28	1.99
46	400.58	810.95	2.01	288.50	509.72	1.29	1.98
48	420.56	784.92	1.99	292.95	508.48	1.30	1.98
50	441.26	759.25	1.98	297.49	507.10	1.32	1.97
52	462.70	727.28	1.97	302.12	505.57	1.33	1.96
54	484.91	694.78	1.96	306.87	503.86	1.35	1.95
56	507.91	661.68	1.94	311.74	501.95	1.36	1.94
58	531.71	627.89	1.93	316.75	499.82	1.37	1.93
60	556.34	593.31	1.92	321.93	497.44	1.39	1.92
62	581.81	557.77	1.91	327.30	494.76	1.41	1.90
64	608.16	521.10	1.90	332.90	491.73	1.42	1.89
66	635.40	483.02	1.88	338.78	488.26	1.44	1.88

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Applications

- Commercial Refrigeration
- Transport Refrigeration
- Industrial Refrigeration
- Refrigeration application from -45°C to $+15^{\circ}\text{C}$

General Guidelines

- FLORON 404A is recommended to be charged in liquid phase
- Consult the original equipment manufacturer before retrofitting with FLORON 404A
- Do not mix FLORON 404A with other refrigerants
- Polyolester (POE) oil should be used as a lubricant.

Packaging (Domestic)

Specification	Unit	Value
Returnable Cylinders	Kg	7
Returnable Cylinders	Kg	45

Packaging (Exports)

Specification	Unit	Value
Disposable Cylinders	Kg	10.9



ULTRA PURE SUPER COOL REFRIGERANT





ULTRA PURE SUPER COOL REFRIGERANT

DESCRIPTION

FLORON 404A is a near Azeotropic blend of

Component	Chemical Name	CAS NO	Wt %
HFC 125	Pentafluoroethane	354-33-6	44 + / - 2
HFC 143a	1,1,1-Trifluoroethane	420-46-2	52 + / - 2
HFC 134a	1,1,1,2-Tetrafluoroethane	811-97-2	4 + / - 2

PHYSICAL PROPERTIES

Specification	Unit	Value
Chemical Name		Pentafluoroethane / 1,1,1-Trifluoroethane / 1,1,1,2 Tetrafluoroethane
Chemical Formula		CHF ₂ CF ₃ / CH ₃ CF ₃ / CH ₂ FCF ₃
Molecular Weight, avg.	g/mol	97.6
Boiling Point @ 1 ATM	°C	-46.5
Critical Temperature	°C	72.1
Critical Pressure (absolute)	kg/cm ²	38.05
Vapor Pressure at 25°C	bar	12.42
Critical Density	kg / m ³	484.5
Flammability	-	None
Toxicity	-	Practically non-toxic
Ozone Depletion Potential (ODP)	-	0
ASHRAE Safety Group Classification		A1

SPECIFICATIONS

Specification	Unit	Value
Maximum water content	ppm	10
Maximum Non-condensable in vapour phase	Vol%	1.5
Chloride, no visible turbidity	-	Pass
Maximum Non-volatile residue	ppm	50
Maximum Acidity (as HCL)	ppm	1

Temp [°C]	Pressure Liquid [Psig]	Pressure Vapour [Psig]	Density Liquid [kg/m ³]	Density Vapour [kg/m ³]	Enthalpy Liquid [kJ/kg]	Enthalpy Vapour [kJ/kg]	Entropy Liquid [kJ/kgK]	Entropy Vapour [kJ/kgK]
-80	-12.56	-12.71	1406.00	0.84	99.340	318.500	0.5680	1.7070
-78	-12.24	-12.41	1400.00	0.96	101.700	319.700	0.5800	1.7010
-76	-11.89	-12.07	1394.00	1.09	104.000	320.900	0.5919	1.6960
-74	-11.50	-11.70	1389.00	1.24	106.400	322.200	0.6038	1.6910
-72	-11.06	-11.28	1383.00	1.40	108.700	323.400	0.6155	1.6860
-70	-10.58	-10.82	1377.00	1.57	111.100	324.600	0.6272	1.6820
-68	-10.05	-10.30	1372.00	1.77	113.400	325.900	0.6388	1.6780
-66	-9.46	-9.74	1366.00	1.98	115.800	327.100	0.6503	1.6730
-64	-8.81	-9.11	1360.00	2.21	118.200	328.300	0.6618	1.6690
-62	-8.10	-8.43	1354.00	2.47	120.600	329.600	0.6732	1.6660
-60	-7.32	-7.67	1348.00	2.74	123.000	330.800	0.6845	1.6620
-58	-6.47	-6.85	1343.00	3.04	125.400	332.000	0.6957	1.6590
-56	-5.55	-5.95	1337.00	3.37	127.800	333.300	0.7069	1.6550
-54	-4.54	-4.97	1331.00	3.72	130.300	334.500	0.7180	1.6520
-52	-3.45	-3.91	1325.00	4.10	132.700	335.700	0.7290	1.6490
-50	-2.26	-2.76	1319.00	4.51	135.200	336.900	0.7400	1.6460
-48	-0.98	-1.50	1313.00	4.95	137.600	338.200	0.7510	1.6440
-46	0.40	-0.15	1306.00	5.43	140.100	339.400	0.7618	1.6410
-44	1.90	1.30	1300.00	5.94	142.600	340.600	0.7727	1.6390
-42	3.49	2.87	1294.00	6.49	145.000	341.800	0.7834	1.6360
-40	5.22	4.55	1288.00	7.07	147.500	343.000	0.7941	1.6340
-38	7.06	6.36	1282.00	7.70	150.000	344.200	0.8048	1.6320
-36	9.03	8.31	1275.00	8.37	152.600	345.400	0.8154	1.6300
-34	11.15	10.38	1269.00	9.08	155.100	346.500	0.8260	1.6280
-32	13.41	12.60	1263.00	9.84	157.600	347.700	0.8365	1.6260
-30	15.81	14.96	1256.00	10.66	160.200	348.900	0.8470	1.6240
-28	18.37	17.49	1250.00	11.52	162.700	350.000	0.8574	1.6230
-26	21.10	20.17	1243.00	12.44	165.300	351.200	0.8678	1.6210
-24	23.99	23.01	1236.00	13.41	167.900	352.400	0.8782	1.6200
-22	27.06	26.05	1230.00	14.44	170.500	353.500	0.8885	1.6180
-20	30.31	29.25	1223.00	15.54	173.100	354.600	0.8988	1.6170
-18	33.75	32.64	1216.00	16.70	175.700	355.700	0.9090	1.6160
-16	37.39	36.24	1209.00	17.93	178.400	356.800	0.9192	1.6140
-14	41.23	40.04	1202.00	19.23	181.000	357.900	0.9294	1.6130
-12	45.28	44.04	1195.00	20.60	183.700	359.000	0.9396	1.6120
-10	49.56	48.27	1188.00	22.05	186.400	360.100	0.9497	1.6110
-8	54.05	52.72	1181.00	23.59	189.100	361.200	0.9598	1.6100
-6	58.78	57.40	1174.00	25.21	191.800	362.200	0.9699	1.6090
-4	63.74	62.33	1166.00	26.92	194.500	363.300	0.9799	1.6080
-2	68.96	67.51	1159.00	28.72	197.200	364.300	0.9900	1.6070
0	74.44	72.94	1151.00	30.62	200.000	365.300	1.0000	1.6060
2	80.19	78.64	1143.00	32.63	202.800	366.300	1.0100	1.6050
4	86.21	84.61	1136.00	34.75	205.600	367.300	1.0200	1.6040
6	92.50	90.86	1128.00	36.98	208.400	368.200	1.0300	1.6030
8	99.09	97.40	1120.00	39.33	211.200	369.200	1.0400	1.6020
10	105.98	104.24	1112.00	41.81	214.100	370.100	1.0500	1.6010
12	113.16	111.39	1103.00	44.43	216.900	371.000	1.0600	1.6010
14	120.67	118.86	1095.00	47.19	219.800	371.900	1.0700	1.6000
16	128.50	126.64	1086.00	50.10	222.800	372.700	1.0800	1.5990
18	136.72	134.69	1077.00	53.17	225.700	373.500	1.0900	1.5980
20	145.14	143.25	1068.00	56.40	228.700	374.300	1.1000	1.5970
22	153.98	152.10	1059.00	59.82	231.700	375.100	1.1100	1.5960
24	163.27	161.24	1050.00	63.44	234.700	375.900	1.1200	1.5950
26	172.84	170.81	1040.00	67.26	237.700	376.600	1.1300	1.5940
28	182.85	180.67	1031.00	71.30	240.800	377.300	1.1400	1.5930
30	193.14	191.11	1021.00	75.57	243.900	377.900	1.1500	1.5920
32	203.88	201.85	1010.00	80.11	247.100	378.500	1.1600	1.5910
34	215.04	213.01	999.70	84.92	250.200	379.000	1.1700	1.5900
36	226.65	224.47	988.80	90.03	253.500	379.500	1.1800	1.5880
38	238.69	236.51	977.50	95.46	256.700	380.000	1.1900	1.5870
40	251.30	248.98	965.90	101.30	260.000	380.400	1.2010	1.5850
42	264.21	261.89	953.90	107.50	263.400	380.700	1.2110	1.5840
44	277.56	275.38	941.40	114.10	266.800	381.000	1.2220	1.5820
46	291.48	289.30	928.40	121.20	270.200	381.200	1.2320	1.5800
48	305.84	303.66	914.90	128.90	273.800	381.300	1.2430	1.5780
50	320.78	318.60	900.70	137.20	277.400	381.300	1.2540	1.5750
52	336.30	334.12	885.80	146.20	281.100	381.100	1.2650	1.5730
54	352.25	350.08	870.00	156.00	284.800	380.900	1.2760	1.5700
56	368.93	366.75	853.20	166.90	288.700	380.500	1.2870	1.5660
58	386.04	383.87	835.10	178.90	292.700	379.900	1.2990	1.5620
60	403.88	401.71	815.60	192.50	296.900	379.100	1.3110	1.5580
62	422.30	420.27	794.10	207.90	301.300	377.900	1.3240	1.5530
64	441.30	439.42	769.90	225.90	305.900	376.400	1.3370	1.5460
66	461.17	459.43	741.80	247.70	311.000	374.300	1.3510	1.5380
68	481.77	480.17	707.40	275.50	316.700	371.300	1.3680	1.5280

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Delhi : Ph. : +91-11-41709410/11 Mumbai : Ph. : +91-22-66922600-605. Ahmedabad : Ph. : +91-9898070122

Kolkata : Ph. : +91-33-24031845, 24031863. Chennai : Ph. : +91-44-28518020, 28518021

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Applications

- Residential Air Conditioners
- Light Commercial air conditioners
- Medium Temperature commercial refrigeration system

General Guidelines

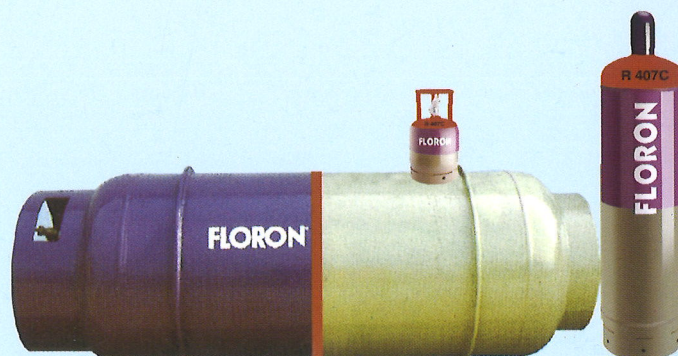
- FLORON 407C is recommended to be charged in liquid phase
- Consult the Original Equipment Manufacturer before retrofitting with FLORON 407C
- Do not Mix FLORON 407C with other refrigerants
- Polyol ester (POE) oil should be used as a lubricant.

Packaging (Domestic)

Specification	Unit	Value
Returnable Cylinders	Kg	7
Returnable Cylinders	Kg	45
Returnable Tonners	Kg	800

Packaging (Exports)

Specification	Unit	Value
Disposable Cylinders	Kg	10.9





ULTRA PURE SUPER COOL REFRIGERANT

DESCRIPTION

FLORON 407C is a zeotropic blend of

Component	Chemical Name	CAS NO	Wt %
HFC 32	Difluoromethane	75-10-5	23 + / - 2
HFC 125	Pentafluoroethane	354-33-6	25 + / - 2
HFC 134a	1,1,1,2-Tetrafluoroethane	811-97-2	52 + / - 2

PHYSICAL PROPERTIES

Specification	Unit	Value
Chemical Name		Difluoromethane / Pentafluoroethane / 1,1,1,2 Tetrafluoroethane CH ₂ F ₂ / CHF ₂ CF ₃ / CF ₃ CH ₂ F /
Chemical Formula		
Molecular Weight,	g/mol	86.2
Boiling Point @ 1 ATM	°C	-43.56
Critical Temperature	°C	86.74
Critical Pressure (absolute)	kg/cm ²	47.11
Vapor Pressure at 25°C	bar	11.74
Critical Density	gm/cc	0.527
Flammability	-	None
Toxicity	-	Practically non-toxic
Ozone Depletion Potential (ODP)	-	0
ASHRAE Safety Group Classification		A1

SPECIFICATIONS

Specification	Unit	Value
Maximum water content	ppm	10
Maximum Non-condensable in vapour phase	vol%	1.5
Chloride, no visible turbidity	-	Pass
Maximum Non-volatile residue	ppm	50
Maximum Acidity (as HCl)	ppm	1

Temp [°C]	Pressure Liquid [Psig]	Pressure Vapour [Psig]	Density Liquid [kg/m ³]	Density Vapour [kg/m ³]	Enthalpy Liquid [kJ/kg]	Enthalpy Vapour [kJ/kg]	Entropy Liquid [kJ/kgK]	Entropy Vapour [kJ/kgK]
-70	-11.22	-12.62	1460.00	0.74	107.500	368.900	0.6114	1.9240
-68	-10.76	-12.30	1454.00	0.84	110.000	370.100	0.6237	1.9170
-66	-10.24	-11.95	1448.00	0.96	112.500	371.300	0.6359	1.9100
-64	-9.68	-11.56	1442.00	1.09	115.000	372.500	0.6481	1.9030
-62	-9.05	-11.13	1437.00	1.23	117.600	373.800	0.6601	1.8970
-60	-8.37	-10.65	1431.00	1.38	120.100	375.000	0.6721	1.8900
-58	-7.62	-10.11	1425.00	1.55	122.700	376.200	0.6839	1.8840
-56	-6.80	-9.52	1419.00	1.74	125.200	377.400	0.6957	1.8780
-54	-5.91	-8.87	1413.00	1.94	127.800	378.600	0.7074	1.8730
-52	-4.93	-8.15	1407.00	2.17	130.300	379.800	0.7190	1.8670
-50	-3.87	-7.37	1401.00	2.41	132.900	381.000	0.7306	1.8620
-48	-2.72	-6.50	1395.00	2.67	135.500	382.200	0.7421	1.8570
-46	-1.48	-5.56	1389.00	2.96	138.100	383.400	0.7535	1.8520
-44	-0.13	-4.54	1383.00	3.27	140.700	384.600	0.7648	1.8470
-42	1.32	-3.42	1376.00	3.61	143.300	385.800	0.7761	1.8430
-40	2.88	-2.21	1370.00	3.97	145.900	387.000	0.7873	1.8380
-38	4.57	-0.90	1364.00	4.36	148.500	388.200	0.7984	1.8340
-36	6.36	0.52	1358.00	4.79	151.100	389.300	0.8095	1.8300
-34	8.29	2.06	1352.00	5.24	153.700	390.500	0.8205	1.8260
-32	10.37	3.71	1345.00	5.73	156.400	391.700	0.8314	1.8220
-30	12.59	5.49	1339.00	6.25	159.000	392.800	0.8423	1.8180
-28	14.95	7.41	1332.00	6.81	161.700	394.000	0.8532	1.8150
-26	17.46	9.45	1326.00	7.41	164.300	395.100	0.8639	1.8110
-24	20.14	11.66	1319.00	8.04	167.000	396.200	0.8747	1.8080
-22	23.00	14.01	1313.00	8.73	169.700	397.300	0.8854	1.8050
-20	26.02	16.52	1306.00	9.45	172.400	398.400	0.8960	1.8010
-18	29.24	19.20	1300.00	10.22	175.100	399.500	0.9066	1.7980
-16	32.64	22.06	1293.00	11.05	177.800	400.600	0.9171	1.7950
-14	36.24	25.10	1286.00	11.92	180.600	401.700	0.9276	1.7920
-12	40.04	28.32	1279.00	12.85	183.300	402.700	0.9381	1.7900
-10	44.07	31.76	1272.00	13.83	186.100	403.800	0.9485	1.7870
-8	48.31	35.39	1265.00	14.88	188.800	404.800	0.9588	1.7840
-6	52.79	39.24	1258.00	15.98	191.600	405.900	0.9692	1.7810
-4	57.49	43.32	1251.00	17.15	194.400	406.900	0.9795	1.7790
-2	62.45	47.63	1244.00	18.39	197.200	407.900	0.9898	1.7760
0	67.66	52.17	1237.00	19.70	200.000	408.900	1.0000	1.7740
2	73.12	56.97	1229.00	21.09	202.800	409.800	1.0100	1.7720
4	78.87	62.03	1222.00	22.55	205.700	410.800	1.0200	1.7690
6	84.89	67.35	1214.00	24.10	208.500	411.700	1.0310	1.7670
8	91.20	72.95	1207.00	25.73	211.400	412.600	1.0410	1.7650
10	97.80	78.84	1199.00	27.45	214.300	413.500	1.0510	1.7620
12	104.70	85.02	1191.00	29.27	217.200	414.400	1.0610	1.7600
14	111.91	91.52	1183.00	31.19	220.100	415.300	1.0710	1.7580
16	119.45	98.32	1175.00	33.21	223.100	416.100	1.0810	1.7560
18	127.31	105.44	1167.00	35.34	226.000	416.900	1.0910	1.7540
20	135.56	112.91	1159.00	37.59	229.000	417.700	1.1010	1.7520
22	144.12	120.73	1151.00	39.96	232.000	418.500	1.1110	1.7500
24	152.97	128.91	1142.00	42.46	235.100	419.200	1.1210	1.7470
26	162.25	137.45	1133.00	45.09	238.100	419.900	1.1310	1.7450
28	171.97	146.30	1124.00	47.87	241.200	420.600	1.1410	1.7430
30	181.98	155.72	1116.00	50.80	244.300	421.300	1.1510	1.7410
32	192.42	165.44	1106.00	53.90	247.400	421.900	1.1610	1.7390
34	203.30	175.59	1097.00	57.16	250.500	422.500	1.1710	1.7370
36	214.46	186.04	1087.00	60.61	253.700	423.000	1.1810	1.7340
38	226.21	197.06	1078.00	64.25	256.900	423.500	1.1920	1.7320
40	238.40	208.52	1068.00	68.11	260.100	424.000	1.2020	1.7300
42	250.87	220.41	1058.00	72.18	263.400	424.400	1.2120	1.7280
44	263.92	232.88	1047.00	76.50	266.700	424.800	1.2220	1.7250
46	277.41	245.79	1036.00	81.07	270.100	425.200	1.2320	1.7230
48	291.48	259.14	1025.00	85.93	273.400	425.400	1.2420	1.7200
50	305.84	273.20	1014.00	91.09	276.900	425.700	1.2530	1.7170
52	320.92	287.56	1002.00	96.58	280.300	425.800	1.2630	1.7150
54	336.30	302.65	990.30	102.40	283.900	425.900	1.2740	1.7120
56	352.40	318.31	977.80	108.70	287.400	425.900	1.2840	1.7090
58	368.93	334.56	964.90	115.40	291.100	425.900	1.2950	1.7050
60	386.04	351.38	951.40	122.60	294.800	425.700	1.3060	1.7020
62	403.74	368.93	937.30	130.30	298.600	425.400	1.3170	1.6980
64	421.87	387.06	922.50	138.70	302.400	425.000	1.3280	1.6940
66	440.72	406.06	907.00	147.80	306.400	424.500	1.3390	1.6900
68	460.16	425.64	890.50	157.70	310.400	423.900	1.3510	1.6860
70	480.17	446.09	873.00	168.60	314.600	423.000	1.3620	1.6810

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