

影响容量的修正因素

高压侧液管的压力损失

高压侧的压力损失会造成冷冻能力低下。从冷凝器到膨胀阀的压力损失会产生闪蒸气体，由于膨胀阀的容量低下，通常有必要考虑 1~3℃ 的过冷却度。

低压侧配管的压力损失修正系数

分配器或者蒸发器内部的压力损失会造成温度不均衡或者容量低下，此外，内部均压型膨胀阀则增加静止过热度。分配器以及蒸发器压力损失变化时的修正系数。

R134a

压力损失 (MPa)											
蒸发温度 (°C)	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25
-60	1.000	0.987	0.973	0.960	0.946	0.932	0.917	0.903	0.888	0.873	0.858
-50	1.000	0.987	0.973	0.959	0.945	0.931	0.916	0.901	0.886	0.871	0.856
-40	1.000	0.986	0.972	0.958	0.944	0.929	0.914	0.899	0.884	0.868	0.852
-30	1.000	0.986	0.971	0.956	0.941	0.926	0.911	0.895	0.879	0.863	0.846
-20	1.000	0.985	0.969	0.954	0.938	0.922	0.905	0.888	0.871	0.854	0.836
-10	1.000	0.983	0.967	0.950	0.932	0.914	0.896	0.878	0.859	0.840	0.820
-5	1.000	0.982	0.965	0.946	0.928	0.909	0.890	0.870	0.850	0.829	0.808
0	1.000	0.981	0.962	0.942	0.922	0.902	0.881	0.860	0.838	0.815	0.792
5	1.000	0.979	0.958	0.937	0.915	0.892	0.869	0.845	0.821	0.796	0.770
10	1.000	0.977	0.953	0.929	0.904	0.879	0.852	0.825	0.797	0.768	0.738

R404A

压力损失 (MPa)											
蒸发温度 (°C)	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25
-60	1.000	0.993	0.985	0.978	0.970	0.962	0.955	0.947	0.939	0.931	0.923
-50	1.000	0.992	0.985	0.977	0.969	0.962	0.954	0.946	0.938	0.930	0.922
-40	1.000	0.992	0.984	0.976	0.968	0.960	0.952	0.944	0.936	0.928	0.919
-30	1.000	0.992	0.984	0.975	0.967	0.959	0.950	0.942	0.933	0.924	0.915
-20	1.000	0.991	0.983	0.974	0.965	0.956	0.947	0.937	0.928	0.919	0.909
-10	1.000	0.990	0.981	0.971	0.961	0.951	0.941	0.931	0.921	0.910	0.900
-5	1.000	0.990	0.980	0.969	0.959	0.948	0.937	0.926	0.915	0.904	0.893
0	1.000	0.989	0.978	0.967	0.955	0.944	0.932	0.920	0.908	0.896	0.884
5	1.000	0.988	0.976	0.963	0.951	0.938	0.925	0.912	0.899	0.885	0.872
10	1.000	0.986	0.973	0.959	0.945	0.930	0.916	0.901	0.886	0.870	0.855

R407C

压力损失 (MPa)											
蒸发温度 (°C)	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25
-60	1.000	0.992	0.985	0.977	0.969	0.961	0.953	0.945	0.937	0.929	0.921
-50	1.000	0.992	0.984	0.977	0.969	0.961	0.952	0.944	0.936	0.928	0.919
-40	1.000	0.992	0.984	0.976	0.968	0.960	0.951	0.943	0.935	0.926	0.917
-30	1.000	0.992	0.983	0.975	0.967	0.958	0.950	0.941	0.932	0.923	0.914
-20	1.000	0.991	0.983	0.974	0.965	0.956	0.947	0.938	0.929	0.919	0.910
-10	1.000	0.991	0.981	0.972	0.962	0.952	0.943	0.933	0.923	0.913	0.902
-5	1.000	0.990	0.980	0.970	0.960	0.950	0.940	0.929	0.919	0.908	0.897
0	1.000	0.990	0.979	0.968	0.958	0.947	0.936	0.925	0.913	0.902	0.890
5	1.000	0.989	0.977	0.966	0.954	0.942	0.931	0.918	0.906	0.894	0.881
10	1.000	0.988	0.975	0.963	0.950	0.937	0.924	0.910	0.897	0.883	0.869

R410A

压力损失 (MPa)											
蒸发温度 (°C)	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25
-60	1.000	0.994	0.989	0.983	0.977	0.972	0.966	0.960	0.954	0.949	0.943
-50	1.000	0.994	0.989	0.983	0.977	0.971	0.965	0.959	0.953	0.948	0.942
-40	1.000	0.994	0.988	0.982	0.976	0.970	0.964	0.958	0.952	0.946	0.940
-30	1.000	0.994	0.988	0.981	0.975	0.969	0.963	0.956	0.950	0.943	0.937
-20	1.000	0.993	0.987	0.980	0.973	0.967	0.960	0.953	0.946	0.939	0.932
-10	1.000	0.993	0.986	0.978	0.971	0.963	0.956	0.948	0.941	0.933	0.925
-5	1.000	0.992	0.985	0.977	0.969	0.961	0.953	0.945	0.937	0.929	0.920
0	1.000	0.992	0.983	0.975	0.966	0.958	0.949	0.940	0.932	0.923	0.914
5	1.000	0.991	0.982	0.972	0.963	0.954	0.944	0.934	0.925	0.915	0.905
10	1.000	0.990	0.979	0.969	0.958	0.948	0.937	0.926	0.915	0.904	0.892

R448A

压力损失 (MPa)											
蒸发温度 (°C)	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25
-60	1.000	0.993	0.986	0.978	0.971	0.964	0.956	0.949	0.941	0.934	0.926
-50	1.000	0.993	0.985	0.978	0.971	0.963	0.956	0.948	0.941	0.933	0.925
-40	1.000	0.993	0.985	0.978	0.970	0.962	0.955	0.947	0.939	0.931	0.923
-30	1.000	0.992	0.985	0.977	0.969	0.961	0.953	0.945	0.937	0.928	0.920
-20	1.000	0.992	0.984	0.975	0.967	0.959	0.950	0.942	0.933	0.924	0.916
-10	1.000	0.991	0.982	0.973	0.964	0.955	0.946	0.937	0.927	0.918	0.908
-5	1.000	0.991	0.981	0.972	0.962	0.953	0.943	0.933	0.923	0.913	0.903
0	1.000	0.990	0.980	0.970	0.960	0.950	0.939	0.929	0.918	0.908	0.897
5	1.000	0.989	0.979	0.968	0.957	0.946	0.934	0.923	0.911	0.900	0.888
10	1.000	0.988	0.976	0.965	0.952	0.940	0.928	0.915	0.902	0.889	0.876

R449A

压力损失 (MPa)											
蒸发温度 (°C)	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25
-60	1.000	0.993	0.986	0.978	0.971	0.963	0.956	0.948	0.941	0.933	0.925
-50	1.000	0.993	0.985	0.978	0.970	0.963	0.955	0.948	0.940	0.932	0.924
-40	1.000	0.992	0.985	0.977	0.970	0.962	0.954	0.946	0.938	0.930	0.922
-30	1.000	0.992	0.984	0.976	0.969	0.960	0.952	0.944	0.936	0.928	0.919
-20	1.000	0.992	0.984	0.975	0.967	0.958	0.950	0.941	0.932	0.923	0.915
-10	1.000	0.991	0.982	0.973	0.964	0.955	0.945	0.936	0.927	0.917	0.907
-5	1.000	0.991	0.981	0.972	0.962	0.952	0.942	0.933	0.922	0.912	0.902
0	1.000	0.990	0.980	0.970	0.960	0.949	0.939	0.928	0.917	0.906	0.895
5	1.000	0.989	0.978	0.967	0.956	0.945	0.934	0.922	0.910	0.899	0.887
10	1.000	0.988	0.976	0.964	0.952	0.939	0.927	0.914	0.901	0.888	0.875

基于过冷度的修正系数

是指过冷度引起的容量变化，通常发生在二级压缩装置的低级侧高压液体冷媒、热交换附属装置等位置。对于过冷度大的装置，容量表中的数值乘以表中的系数即为膨胀阀的容量。

R134a

冷凝温度 (°C)	过冷度 ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.10	1.20	1.30	-	-	-	-
10	1.00	1.11	1.22	1.33	1.45	-	-	-
20	1.00	1.12	1.25	1.37	1.50	1.62	-	-
30	1.00	1.14	1.28	1.42	1.56	1.70	1.85	-
38	1.00	1.15	1.31	1.47	1.63	1.79	1.95	2.11
40	1.00	1.16	1.32	1.48	1.65	1.81	1.98	2.14
50	1.00	1.19	1.38	1.57	1.76	1.96	2.15	2.35
60	1.00	1.23	1.46	1.70	1.93	2.17	2.41	2.65

R404A

冷凝温度 (°C)	过冷度 ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.13	1.26	1.39	-	-	-	-
10	1.00	1.15	1.29	1.44	1.59	-	-	-
20	1.00	1.17	1.34	1.51	1.69	1.86	-	-
30	1.00	1.20	1.41	1.62	1.82	2.03	2.24	-
38	1.00	1.24	1.49	1.73	1.98	2.23	2.48	2.73
40	1.00	1.26	1.51	1.77	2.03	2.29	2.55	2.82
50	1.00	1.35	1.70	2.04	2.39	2.74	3.09	3.45
60	1.00	1.56	2.11	2.65	3.19	3.74	4.28	4.84

R407C

冷凝温度 (°C)	过冷度 ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.10	1.21	1.31	-	-	-	-
10	1.00	1.11	1.23	1.34	1.46	-	-	-
20	1.00	1.13	1.26	1.38	1.51	1.65	-	-
30	1.00	1.15	1.29	1.44	1.59	1.73	1.88	-
38	1.00	1.16	1.33	1.49	1.66	1.83	2.00	2.17
40	1.00	1.17	1.34	1.51	1.68	1.86	2.03	2.21
50	1.00	1.21	1.41	1.62	1.82	2.03	2.24	2.45
60	1.00	1.26	1.53	1.79	2.05	2.31	2.57	2.83

R410A

冷凝温度 (°C)	过冷度 ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.11	1.21	1.32	-	-	-	-
10	1.00	1.12	1.24	1.36	1.48	-	-	-
20	1.00	1.14	1.27	1.41	1.54	1.68	-	-
30	1.00	1.16	1.32	1.47	1.63	1.79	1.94	-
38	1.00	1.18	1.36	1.54	1.72	1.90	2.08	2.27
40	1.00	1.19	1.38	1.57	1.75	1.94	2.13	2.32
50	1.00	1.25	1.48	1.72	1.95	2.18	2.42	2.65
60	1.00	1.36	1.70	2.02	2.34	2.66	2.98	3.29

R448A

冷凝温度 (°C)	过冷度 ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.09	1.18	1.27	-	-	-	-
10	1.00	1.10	1.20	1.30	1.40	-	-	-
20	1.00	1.12	1.23	1.34	1.46	1.57	-	-
30	1.00	1.13	1.27	1.40	1.52	1.65	1.78	-
38	1.00	1.15	1.30	1.45	1.60	1.74	1.88	2.03
40	1.00	1.16	1.32	1.47	1.62	1.77	1.91	2.06
50	1.00	1.20	1.39	1.57	1.76	1.94	2.12	2.29
60	1.00	1.26	1.51	1.75	1.99	2.22	2.45	2.67

R449A

冷凝温度 (°C)	过冷度 ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.09	1.18	1.28	-	-	-	-
10	1.00	1.10	1.21	1.31	1.41	-	-	-
20	1.00	1.12	1.23	1.35	1.46	1.57	-	-
30	1.00	1.14	1.27	1.40	1.53	1.66	1.79	-
38	1.00	1.16	1.31	1.46	1.60	1.75	1.89	2.04
40	1.00	1.16	1.32	1.47	1.63	1.78	1.93	2.07
50	1.00	1.20	1.39	1.58	1.77	1.95	2.13	2.31
60	1.00	1.27	1.52	1.77	2.01	2.25	2.48	2.71

CEX 能力表

R23
极低温<-100~-70℃>

型号		蒸发温度 (℃)	公称能力 (kW) (美国冷冻吨)			
型式	编号		冷凝温度 (℃)			
			-20	-30	-40	-50
CEX-	2333BCZ	-70	1.13 (0.32)	1.05 (0.30)	0.93 (0.26)	0.77 (0.22)
		-75	0.92 (0.26)	0.86 (0.24)	0.78 (0.22)	0.65 (0.18)
		-80	0.79 (0.22)	0.76 (0.22)	0.69 (0.20)	0.59 (0.17)
		-85	0.69 (0.20)	0.65 (0.18)	0.59 (0.17)	0.52 (0.15)
		-90	0.56 (0.16)	0.53 (0.15)	0.49 (0.14)	0.43 (0.12)
		-95	0.49 (0.14)	0.45 (0.13)	0.42 (0.12)	0.37 (0.11)
	-100	0.41 (0.12)	0.38 (0.11)	0.35 (0.10)	0.31 (0.09)	
	2335BCZ 2345BCZ	-70	2.24 (0.64)	2.09 (0.59)	1.86 (0.53)	1.52 (0.43)
		-75	1.83 (0.52)	1.72 (0.49)	1.55 (0.44)	1.30 (0.37)
		-80	1.58 (0.45)	1.50 (0.43)	1.36 (0.39)	1.17 (0.33)
		-85	1.37 (0.39)	1.29 (0.37)	1.19 (0.34)	1.03 (0.29)
		-90	1.12 (0.32)	1.06 (0.30)	0.97 (0.28)	0.85 (0.24)
		-95	0.97 (0.28)	0.91 (0.26)	0.84 (0.24)	0.73 (0.21)
	-100	0.81 (0.23)	0.76 (0.22)	0.70 (0.20)	0.62 (0.18)	
	2348BCZ	-70	3.30 (0.94)	3.09 (0.88)	2.74 (0.78)	2.26 (0.64)
		-75	2.79 (0.79)	2.62 (0.75)	2.35 (0.67)	1.99 (0.57)
		-80	2.45 (0.70)	2.31 (0.66)	2.10 (0.60)	1.85 (0.53)
		-85	2.10 (0.60)	1.99 (0.57)	1.81 (0.51)	1.58 (0.45)
		-90	1.76 (0.50)	1.66 (0.47)	1.51 (0.43)	1.34 (0.38)
		-95	1.51 (0.43)	1.43 (0.41)	1.30 (0.37)	1.15 (0.33)
	-100	1.22 (0.35)	1.14 (0.32)	1.05 (0.30)	0.92 (0.26)	
	2341BCZ	-70	4.93 (1.40)	4.62 (1.31)	4.09 (1.16)	3.36 (0.96)
		-75	4.19 (1.19)	3.93 (1.12)	3.53 (1.00)	2.99 (0.85)
		-80	3.66 (1.04)	3.45 (0.98)	3.13 (0.89)	2.70 (0.77)
		-85	3.06 (0.87)	2.90 (0.82)	2.64 (0.75)	2.30 (0.65)
		-90	2.55 (0.73)	2.41 (0.69)	2.20 (0.63)	1.93 (0.55)
		-95	2.21 (0.63)	2.09 (0.59)	1.92 (0.55)	1.69 (0.48)
	-100	1.87 (0.53)	1.76 (0.50)	1.60 (0.46)	1.41 (0.40)	
	2342BCZ	-70	8.51 (2.42)	7.98 (2.27)	7.07 (2.01)	5.80 (1.65)
		-75	7.23 (2.06)	6.79 (1.93)	6.10 (1.73)	5.16 (1.47)
		-80	6.27 (1.78)	5.92 (1.68)	5.37 (1.53)	4.63 (1.32)
		-85	5.50 (1.56)	5.21 (1.48)	4.76 (1.35)	4.15 (1.18)
		-90	4.51 (1.28)	4.27 (1.21)	3.91 (1.11)	3.43 (0.98)
		-95	3.83 (1.09)	3.62 (1.03)	3.30 (0.94)	2.92 (0.83)
	-100	3.15 (0.90)	2.97 (0.84)	2.71 (0.77)	2.38 (0.68)	
	2344BCZ 3454BCZ 4564BCZ	-70	14.4 (4.10)	13.6 (3.87)	12.0 (3.41)	9.86 (2.80)
		-75	12.3 (3.50)	11.5 (3.27)	10.4 (2.96)	8.77 (2.49)
		-80	10.7 (3.04)	10.1 (2.87)	9.16 (2.61)	7.91 (2.25)
		-85	9.13 (2.60)	8.64 (2.46)	7.87 (2.24)	6.87 (1.95)
		-90	7.65 (2.18)	7.24 (2.06)	6.63 (1.89)	5.83 (1.66)
		-95	6.50 (1.85)	6.14 (1.75)	5.62 (1.60)	4.95 (1.41)
	-100	5.43 (1.54)	5.12 (1.46)	4.66 (1.33)	4.10 (1.17)	
	4566BCZ	-70	19.9 (5.66)	18.6 (5.29)	16.5 (4.69)	13.6 (3.87)
		-75	16.9 (4.81)	15.8 (4.49)	14.2 (4.04)	12.1 (3.44)
		-80	14.7 (4.18)	13.8 (3.92)	12.6 (3.58)	10.8 (3.07)
		-85	12.6 (3.58)	11.9 (3.38)	10.8 (3.07)	9.45 (2.69)
		-90	10.5 (2.99)	9.99 (2.84)	9.13 (2.60)	8.02 (2.28)
		-95	8.90 (2.53)	8.41 (2.39)	7.69 (2.19)	6.78 (1.93)
-100	7.23 (2.06)	6.80 (1.93)	6.21 (1.77)	5.47 (1.56)		
4568BCZ	-70	26.5 (7.54)	24.8 (7.05)	22.0 (6.26)	18.0 (5.12)	
	-75	22.4 (6.37)	21.0 (5.97)	19.0 (5.40)	16.0 (4.55)	
	-80	19.7 (5.60)	18.5 (5.26)	16.7 (4.75)	14.4 (4.10)	
	-85	16.7 (4.75)	15.8 (4.49)	14.4 (4.10)	12.6 (3.58)	
	-90	14.1 (4.01)	13.3 (3.78)	12.1 (3.44)	10.7 (3.04)	
	-95	11.7 (3.33)	11.0 (3.13)	10.1 (2.87)	8.91 (2.53)	
-100	9.90 (2.82)	9.31 (2.65)	8.49 (2.41)	7.48 (2.13)		

R134a
标准<-30~10℃>

型号		蒸发温度 (℃)	公称能力 (kW) (美国冷冻吨)			
型式	编号		冷凝温度 (℃)			
			25	38	50	60
CEX-	2333BM	10	1.22 (0.35)	1.55 (0.44)	1.67 (0.47)	1.67 (0.47)
		0	1.19 (0.34)	1.36 (0.39)	1.42 (0.40)	1.40 (0.40)
		-5	1.14 (0.32)	1.27 (0.36)	1.30 (0.37)	1.27 (0.36)
		-10	1.08 (0.31)	1.19 (0.34)	1.21 (0.34)	1.16 (0.33)
		-20	0.88 (0.25)	0.94 (0.27)	0.94 (0.27)	0.90 (0.26)
		-30	0.62 (0.18)	0.64 (0.18)	0.63 (0.18)	0.60 (0.17)
	2335BM 2345BM	10	2.43 (0.69)	3.08 (0.88)	3.35 (0.95)	3.35 (0.95)
		0	2.37 (0.67)	2.72 (0.77)	2.83 (0.80)	2.78 (0.79)
		-5	2.28 (0.65)	2.54 (0.72)	2.61 (0.74)	2.54 (0.72)
		-10	2.16 (0.61)	2.36 (0.67)	2.41 (0.69)	2.31 (0.66)
		-20	1.77 (0.50)	1.88 (0.53)	1.88 (0.53)	1.79 (0.51)
		-30	1.22 (0.35)	1.27 (0.36)	1.26 (0.36)	1.20 (0.34)
	2348BM	10	3.66 (1.04)	4.64 (1.32)	5.04 (1.43)	5.05 (1.44)
		0	3.61 (1.03)	4.13 (1.17)	4.30 (1.22)	4.22 (1.20)
		-5	3.47 (0.99)	3.87 (1.10)	3.98 (1.13)	3.87 (1.10)
		-10	3.28 (0.93)	3.58 (1.02)	3.64 (1.04)	3.52 (1.00)
		-20	2.66 (0.76)	2.84 (0.81)	2.84 (0.81)	2.72 (0.77)
		-30	2.15 (0.61)	2.26 (0.64)	2.23 (0.63)	2.12 (0.60)
	2341BM	10	5.23 (1.49)	6.63 (1.89)	7.19 (2.04)	7.12 (2.02)
		0	5.00 (1.42)	5.71 (1.62)	5.95 (1.69)	5.85 (1.66)
		-5	4.73 (1.35)	5.28 (1.50)	5.41 (1.54)	5.28 (1.50)
		-10	4.41 (1.25)	4.81 (1.37)	4.90 (1.39)	4.73 (1.35)
		-20	3.65 (1.04)	3.88 (1.10)	3.88 (1.10)	3.72 (1.06)
		-30	2.45 (0.70)	2.57 (0.73)	2.55 (0.73)	2.42 (0.69)
	2342BM	10	8.93 (2.54)	11.3 (3.21)	12.3 (3.50)	12.3 (3.50)
		0	8.65 (2.46)	9.90 (2.82)	10.3 (2.93)	10.1 (2.87)
		-5	8.21 (2.33)	9.14 (2.60)	9.40 (2.67)	9.15 (2.60)
		-10	7.66 (2.18)	8.37 (2.38)	8.51 (2.42)	8.25 (2.35)
		-20	6.20 (1.76)	6.59 (1.87)	6.59 (1.87)	6.32 (1.80)
		-30	4.21 (1.20)	4.41 (1.25)	4.37 (1.24)	4.15 (1.18)
	2344BM 3454BM 4564BM	10	15.0 (4.27)	19.0 (5.40)	20.6 (5.86)	20.6 (5.86)
		0	14.4 (4.10)	16.5 (4.69)	17.2 (4.89)	17.1 (4.86)
		-5	14.0 (3.98)	15.5 (4.41)	15.9 (4.52)	15.5 (4.41)
		-10	13.0 (3.70)	14.2 (4.04)	14.4 (4.10)	14.1 (4.01)
		-20	10.5 (2.99)	11.2 (3.19)	11.2 (3.19)	10.7 (3.04)
		-30	7.08 (2.01)	7.42 (2.11)	7.35 (2.09)	6.99 (1.99)
	4566BM	10	24.5 (6.97)	31.2 (8.87)	33.7 (9.58)	33.8 (9.61)
		0	24.1 (6.85)	27.6 (7.85)	28.7 (8.16)	28.3 (8.05)
		-5	22.8 (6.48)	25.4 (7.22)	25.9 (7.37)	25.4 (7.22)
		-10	21.1 (6.00)	23.1 (6.57)	23.4 (6.65)	22.7 (6.46)
		-20	18.4 (5.23)	19.7 (5.60)	19.7 (5.60)	18.7 (5.32)
		-30	11.5 (3.27)	12.1 (3.44)	12.0 (3.41)	11.4 (3.24)
	4568BM	10	30.8 (8.76)	36.9 (10.5)	40.0 (11.4)	40.1 (11.4)
		0	30.8 (8.76)	35.4 (10.1)	36.8 (10.5)	36.2 (10.3)
		-5	30.2 (8.59)	33.7 (9.58)	34.7 (9.87)	33.7 (9.58)
		-10	29.4 (8.36)	32.1 (9.13)	32.7 (9.30)	31.5 (8.96)
		-20	25.1 (7.14)	26.8 (7.62)	26.8 (7.62)	25.6 (7.28)
		-30	18.8 (5.35)	19.8 (5.63)	19.7 (5.60)	18.6 (5.29)

R404A

标准<-40~0℃>

型号		蒸发温度 (℃)	公称能力 (kW) {美国冷冻吨}			
型式	编号		冷凝温度 (℃)			
			30	38	40	60
CEX-	2333BU	0	1.30 {0.37}	1.34 {0.38}	1.19 {0.34}	0.91 {0.26}
		-5	1.20 {0.34}	1.20 {0.34}	1.10 {0.31}	0.79 {0.22}
		-10	1.09 {0.31}	1.06 {0.30}	0.91 {0.26}	0.67 {0.19}
		-20	0.86 {0.24}	0.80 {0.23}	0.66 {0.19}	0.47 {0.13}
		-30	0.62 {0.18}	0.57 {0.16}	-	-
		-40	0.42 {0.12}	0.37 {0.11}	-	-
	2335BU 2345BU	0	2.60 {0.74}	2.67 {0.76}	2.37 {0.67}	1.80 {0.51}
		-5	2.39 {0.68}	2.39 {0.68}	2.18 {0.62}	1.57 {0.45}
		-10	2.17 {0.62}	2.11 {0.60}	1.80 {0.51}	1.33 {0.38}
		-20	1.70 {0.48}	1.60 {0.46}	1.30 {0.37}	0.93 {0.26}
		-30	1.23 {0.35}	1.13 {0.32}	-	-
		-40	0.84 {0.24}	0.75 {0.21}	-	-
	2348BU	0	4.02 {1.14}	4.16 {1.18}	3.65 {1.04}	2.81 {0.80}
		-5	3.65 {1.04}	3.69 {1.05}	3.19 {0.91}	2.41 {0.69}
		-10	3.29 {0.94}	3.22 {0.92}	2.74 {0.78}	2.02 {0.57}
		-20	2.67 {0.76}	2.50 {0.71}	2.08 {0.59}	1.48 {0.42}
		-30	2.01 {0.57}	1.85 {0.53}	-	-
		-40	1.37 {0.39}	1.07 {0.30}	-	-
	2341BU	0	5.20 {1.48}	5.41 {1.54}	4.75 {1.35}	3.65 {1.04}
		-5	4.86 {1.38}	4.92 {1.40}	4.25 {1.21}	3.21 {0.91}
		-10	4.53 {1.29}	4.42 {1.26}	3.76 {1.07}	2.77 {0.79}
		-20	3.45 {0.98}	3.24 {0.92}	2.68 {0.76}	1.90 {0.54}
		-30	2.45 {0.70}	2.22 {0.63}	-	-
		-40	1.77 {0.50}	1.60 {0.46}	-	-
	2342BU	0	9.46 {2.69}	9.81 {2.79}	8.66 {2.46}	6.63 {1.89}
		-5	8.70 {2.47}	8.79 {2.50}	7.62 {2.17}	5.74 {1.63}
		-10	7.94 {2.26}	7.79 {2.22}	6.61 {1.88}	4.87 {1.38}
		-20	6.27 {1.78}	5.91 {1.68}	4.86 {1.38}	3.46 {0.98}
		-30	4.64 {1.32}	4.27 {1.21}	-	-
		-40	3.16 {0.90}	2.83 {0.80}	-	-
	2344BU 3454BU 4564BU	0	15.70 {4.46}	16.30 {4.64}	14.4 {4.1}	11.0 {3.13}
		-5	14.50 {4.12}	14.80 {4.21}	12.7 {3.61}	9.55 {2.72}
		-10	13.30 {3.78}	13.00 {3.70}	11.0 {3.13}	8.11 {2.31}
		-20	10.60 {3.01}	9.93 {2.82}	8.19 {2.33}	5.83 {1.66}
		-30	7.65 {2.18}	7.01 {1.99}	-	-
		-40	5.32 {1.51}	4.77 {1.36}	-	-
	4566BU	0	22.30 {6.34}	23.10 {6.57}	20.4 {5.80}	15.7 {4.46}
		-5	20.90 {5.94}	21.00 {5.97}	18.2 {5.18}	13.7 {3.90}
		-10	19.40 {5.52}	18.90 {5.37}	16.0 {4.55}	11.9 {3.38}
		-20	15.20 {4.32}	18.30 {5.20}	11.8 {3.36}	8.35 {2.37}
		-30	11.30 {3.21}	10.20 {2.90}	-	-
		-40	8.01 {2.28}	7.20 {2.05}	-	-
4568BU	0	30.90 {8.79}	32.10 {9.13}	28.3 {8.05}	21.7 {6.17}	
	-5	28.60 {8.13}	29.50 {8.39}	25.1 {7.14}	19.0 {5.40}	
	-10	26.40 {7.51}	25.80 {7.34}	21.9 {6.23}	16.3 {4.64}	
	-20	20.50 {5.83}	19.20 {5.46}	15.8 {4.49}	11.2 {3.19}	
	-30	15.50 {4.41}	14.10 {4.01}	-	-	
	-40	10.60 {3.01}	9.55 {2.72}	-	-	

R407C

标准<-40~0℃>

型号		蒸发温度 (℃)	公称能力 (kW) {美国冷冻吨}			
型式	编号		冷凝温度 (℃)			
			25	38	50	60
CEX-	2333BP	0	1.59 {0.45}	1.96 {0.56}	2.10 {0.60}	2.24 {0.64}
		-5	1.44 {0.41}	1.81 {0.51}	1.95 {0.55}	2.08 {0.59}
		-10	1.26 {0.36}	1.59 {0.45}	1.75 {0.50}	1.91 {0.54}
		-20	0.92 {0.26}	1.26 {0.36}	1.36 {0.39}	1.40 {0.40}
		-30	0.59 {0.17}	0.83 {0.24}	0.91 {0.26}	0.90 {0.26}
		-40	0.33 {0.09}	0.57 {0.16}	0.63 {0.18}	0.63 {0.18}
	2335BP 2345BP	0	3.09 {0.88}	3.80 {1.08}	4.09 {1.16}	4.31 {1.23}
		-5	2.77 {0.79}	3.44 {0.98}	3.71 {1.06}	4.00 {1.14}
		-10	2.43 {0.69}	3.07 {0.87}	3.33 {0.95}	3.67 {1.04}
		-20	1.78 {0.51}	2.44 {0.69}	2.63 {0.75}	2.69 {0.77}
		-30	1.11 {0.32}	1.60 {0.46}	1.71 {0.49}	1.70 {0.48}
		-40	0.65 {0.18}	1.12 {0.32}	1.18 {0.34}	1.19 {0.34}
	2348BP	0	4.91 {1.40}	5.40 {1.54}	5.76 {1.64}	5.85 {1.66}
		-5	4.60 {1.31}	5.07 {1.44}	5.35 {1.52}	5.42 {1.54}
		-10	4.34 {1.23}	4.73 {1.35}	4.93 {1.40}	4.99 {1.42}
		-20	3.57 {1.02}	3.73 {1.06}	3.82 {1.09}	4.08 {1.16}
		-30	2.63 {0.75}	2.68 {0.76}	2.79 {0.79}	3.10 {0.88}
		-40	1.73 {0.49}	1.77 {0.50}	1.73 {0.49}	1.72 {0.49}
	2341BP	0	6.04 {1.72}	7.56 {2.15}	8.59 {2.44}	8.66 {2.46}
		-5	5.63 {1.60}	6.88 {1.96}	7.74 {2.20}	7.95 {2.26}
		-10	5.19 {1.48}	6.20 {1.76}	6.88 {1.96}	7.24 {2.06}
		-20	4.28 {1.22}	4.89 {1.39}	5.18 {1.47}	5.37 {1.53}
		-30	2.94 {0.84}	3.19 {0.91}	3.46 {0.98}	3.45 {0.98}
		-40	1.99 {0.57}	2.29 {0.65}	2.36 {0.67}	2.41 {0.69}
	2342BP	0	11.6 {3.30}	14.6 {4.15}	15.9 {4.52}	16.5 {4.69}
		-5	10.7 {3.04}	13.3 {3.78}	14.7 {4.18}	15.3 {4.35}
		-10	10.0 {2.84}	12.0 {3.41}	13.2 {3.75}	14.1 {4.01}
		-20	8.12 {2.31}	9.38 {2.67}	10.0 {2.84}	10.3 {2.93}
		-30	5.61 {1.60}	6.25 {1.78}	6.63 {1.89}	6.75 {1.92}
		-40	3.84 {1.09}	4.39 {1.25}	4.52 {1.29}	4.63 {1.32}
	2344BP 3454BP 4564BP	0	18.7 {5.32}	23.7 {6.74}	26.2 {7.45}	26.8 {7.62}
		-5	17.5 {4.98}	21.7 {6.17}	24.0 {6.83}	24.7 {7.02}
		-10	16.4 {4.66}	19.5 {5.55}	21.6 {6.14}	22.6 {6.43}
		-20	13.4 {3.81}	15.3 {4.35}	16.4 {4.66}	16.8 {4.78}
		-30	9.16 {2.61}	10.1 {2.87}	10.8 {3.07}	11.0 {3.13}
		-40	6.24 {1.77}	7.11 {2.02}	7.40 {2.10}	7.51 {2.14}
	4566BP	0	32.6 {9.30}	36.9 {10.5}	38.5 {11.0}	39.2 {11.2}
		-5	30.6 {8.00}	34.7 {9.87}	35.2 {10.0}	36.0 {10.2}
		-10	28.4 {8.08}	31.5 {8.96}	32.0 {9.10}	32.7 {9.30}
		-20	23.4 {6.65}	24.9 {7.08}	25.0 {7.11}	26.0 {7.39}
		-30	13.9 {3.95}	15.2 {4.32}	16.3 {4.64}	16.7 {4.75}
		-40	9.46 {2.69}	10.9 {3.10}	11.1 {3.16}	11.3 {3.21}
4568BP	0	44.2 {12.6}	48.7 {13.9}	51.3 {14.6}	52.4 {14.9}	
	-5	42.6 {12.1}	46.4 {13.2}	48.8 {13.9}	48.7 {13.9}	
	-10	40.8 {11.6}	43.8 {12.5}	46.3 {13.2}	45.0 {12.8}	
	-20	35.0 {9.95}	36.2 {10.3}	37.7 {10.7}	36.8 {10.5}	
	-30	26.9 {7.65}	27.8 {7.91}	28.5 {8.11}	27.9 {7.93}	
	-40	15.7 {4.46}	15.8 {4.49}	17.6 {5.01}	15.2 {4.32}	

R448A

标准<-40~0℃>

型号		蒸发温度 (°C)	公称能力 (kW) (美国冷冻吨)			
型式	编号		冷凝温度 (°C)			
			25	38	50	60
CEX-	2333BC1	0	1.46 (0.42)	1.74 (0.50)	1.82 (0.52)	1.87 (0.53)
		-5	1.37 (0.39)	1.65 (0.47)	1.73 (0.49)	1.77 (0.50)
		-10	1.15 (0.33)	1.41 (0.40)	1.51 (0.43)	1.58 (0.45)
		-20	0.84 (0.24)	1.11 (0.32)	1.17 (0.33)	1.16 (0.33)
		-30	0.53 (0.15)	0.73 (0.21)	0.78 (0.22)	0.73 (0.21)
		-40	0.29 (0.08)	0.50 (0.14)	0.53 (0.15)	0.50 (0.14)
	2335BC1 2345BC1	0	2.83 (0.81)	3.37 (0.96)	3.54 (1.01)	3.61 (1.03)
		-5	2.63 (0.75)	3.14 (0.89)	3.28 (0.93)	3.42 (0.97)
		-10	2.21 (0.63)	2.72 (0.77)	2.87 (0.82)	3.05 (0.87)
		-20	1.62 (0.46)	2.15 (0.61)	2.25 (0.64)	2.21 (0.63)
		-30	1.00 (0.28)	1.40 (0.40)	1.46 (0.41)	1.39 (0.39)
		-40	0.58 (0.17)	0.97 (0.28)	1.00 (0.28)	0.96 (0.27)
	2348BC1	0	4.50 (1.28)	4.79 (1.36)	4.99 (1.42)	4.89 (1.37)
		-5	4.37 (1.24)	4.62 (1.31)	4.73 (1.35)	4.62 (1.32)
		-10	3.95 (1.12)	4.19 (1.19)	4.25 (1.21)	4.14 (1.18)
		-20	3.24 (0.92)	3.29 (0.93)	3.28 (0.93)	3.36 (0.96)
		-30	2.37 (0.67)	2.35 (0.67)	2.37 (0.67)	2.52 (0.72)
		-40	1.55 (0.44)	1.53 (0.44)	1.46 (0.41)	1.38 (0.39)
	2341BC1	0	5.53 (1.57)	6.71 (1.91)	7.44 (2.12)	7.24 (2.06)
		-5	5.34 (1.52)	6.27 (1.78)	6.86 (1.95)	6.78 (1.93)
		-10	4.73 (1.34)	5.49 (1.56)	5.93 (1.69)	6.01 (1.71)
		-20	3.89 (1.11)	4.31 (1.23)	4.44 (1.26)	4.43 (1.26)
		-30	2.65 (0.75)	2.80 (0.80)	2.94 (0.84)	2.81 (0.80)
		-40	1.79 (0.51)	1.99 (0.57)	1.98 (0.56)	1.93 (0.55)
	2342BC1	0	10.6 (3.03)	12.9 (3.68)	13.8 (3.92)	13.8 (3.93)
		-5	10.2 (2.90)	12.2 (3.47)	13.0 (3.70)	13.1 (3.72)
		-10	9.09 (2.59)	10.6 (3.02)	11.4 (3.25)	11.7 (3.33)
		-20	7.37 (2.09)	8.27 (2.35)	8.59 (2.44)	8.52 (2.42)
		-30	5.06 (1.44)	5.48 (1.56)	5.64 (1.60)	5.50 (1.56)
		-40	3.44 (0.98)	3.82 (1.09)	3.81 (1.08)	3.72 (1.06)
	2344BC1 3454BC1 4564BC1	0	17.1 (4.87)	21.1 (6.00)	22.7 (6.47)	22.4 (6.38)
		-5	16.6 (4.72)	19.8 (5.63)	21.2 (6.04)	21.1 (5.99)
		-10	14.9 (4.25)	17.3 (4.91)	18.6 (5.30)	18.8 (5.34)
		-20	12.2 (3.46)	13.4 (3.82)	14.0 (3.99)	13.8 (3.94)
		-30	8.26 (2.35)	8.87 (2.52)	9.19 (2.61)	8.94 (2.54)
		-40	5.60 (1.59)	6.18 (1.76)	6.22 (1.77)	6.03 (1.72)
	4566BC1	0	29.9 (8.50)	32.7 (9.31)	33.3 (9.48)	32.8 (9.32)
		-5	29.0 (8.24)	31.7 (9.03)	31.1 (8.86)	30.7 (8.74)
		-10	25.8 (7.35)	27.9 (7.93)	27.6 (7.84)	27.2 (7.72)
		-20	21.2 (6.03)	21.9 (6.24)	21.4 (6.10)	21.4 (6.09)
		-30	12.6 (3.57)	13.4 (3.80)	13.8 (3.93)	13.6 (3.86)
		-40	8.48 (2.41)	9.46 (2.69)	9.37 (2.66)	9.06 (2.58)
	4568BC1	0	40.5 (11.5)	43.3 (12.3)	44.4 (12.6)	43.8 (12.5)
		-5	40.4 (11.5)	42.3 (12.0)	43.2 (12.3)	41.6 (11.8)
		-10	37.1 (10.6)	38.8 (11.0)	39.9 (11.4)	37.4 (10.6)
		-20	31.7 (9.03)	32.0 (9.09)	32.3 (9.19)	30.3 (8.63)
		-30	24.3 (6.90)	24.4 (6.93)	24.3 (6.90)	22.7 (6.47)
		-40	14.1 (4.01)	13.7 (3.91)	14.8 (4.21)	12.2 (3.47)

R449A

标准<-40~0℃>

型号		蒸发温度 (°C)	公称能力 (kW) (美国冷冻吨)			
型式	编号		冷凝温度 (°C)			
			25	38	50	60
CEX-	2333BC1	0	1.42 (0.40)	1.72 (0.49)	1.79 (0.51)	1.84 (0.52)
		-5	1.29 (0.37)	1.59 (0.45)	1.66 (0.47)	1.70 (0.48)
		-10	1.12 (0.32)	1.39 (0.39)	1.49 (0.42)	1.55 (0.44)
		-20	0.82 (0.23)	1.09 (0.31)	1.15 (0.33)	1.13 (0.32)
		-30	0.52 (0.15)	0.71 (0.20)	0.76 (0.22)	0.71 (0.20)
		-40	0.29 (0.08)	0.49 (0.14)	0.52 (0.15)	0.49 (0.14)
	2335BC1 2345BC1	0	2.76 (0.79)	3.33 (0.95)	3.49 (0.99)	3.54 (1.01)
		-5	2.47 (0.70)	3.01 (0.86)	3.16 (0.90)	3.27 (0.93)
		-10	2.16 (0.61)	2.68 (0.76)	2.82 (0.80)	2.98 (0.85)
		-20	1.58 (0.45)	2.12 (0.60)	2.22 (0.63)	2.16 (0.62)
		-30	0.98 (0.28)	1.38 (0.39)	1.43 (0.41)	1.35 (0.39)
		-40	0.57 (0.16)	0.96 (0.27)	0.98 (0.28)	0.93 (0.27)
	2348BC1	0	4.38 (1.25)	4.73 (1.35)	4.91 (1.40)	4.80 (1.36)
		-5	4.11 (1.17)	4.43 (1.26)	4.55 (1.29)	4.43 (1.26)
		-10	3.86 (1.10)	4.13 (1.17)	4.18 (1.19)	4.05 (1.15)
		-20	3.17 (0.90)	3.24 (0.92)	3.22 (0.92)	3.29 (0.93)
		-30	2.32 (0.66)	2.31 (0.66)	2.32 (0.66)	2.46 (0.70)
		-40	1.52 (0.43)	1.51 (0.43)	1.43 (0.41)	1.34 (0.38)
	2341BC1	0	5.39 (1.53)	6.62 (1.88)	7.32 (2.08)	7.10 (2.02)
		-5	5.02 (1.43)	6.02 (1.71)	6.59 (1.87)	6.50 (1.85)
		-10	4.62 (1.31)	5.41 (1.54)	5.83 (1.66)	5.88 (1.67)
		-20	3.80 (1.08)	4.25 (1.21)	4.37 (1.24)	4.33 (1.23)
		-30	2.60 (0.74)	2.75 (0.78)	2.89 (0.82)	2.75 (0.78)
		-40	1.75 (0.50)	1.96 (0.56)	1.94 (0.55)	1.88 (0.54)
	2342BC1	0	10.4 (2.95)	12.8 (3.63)	13.6 (3.86)	13.6 (3.85)
		-5	9.58 (2.73)	11.7 (3.33)	12.5 (3.56)	12.5 (3.56)
		-10	8.88 (2.53)	10.5 (2.98)	11.2 (3.19)	11.5 (3.26)
		-20	7.21 (2.05)	8.15 (2.32)	8.45 (2.40)	8.33 (2.37)
		-30	4.95 (1.41)	5.39 (1.53)	5.53 (1.57)	5.37 (1.53)
		-40	3.37 (0.96)	3.75 (1.07)	3.73 (1.06)	3.62 (1.03)
	2344BC1 3454BC1 4564BC1	0	16.7 (4.74)	20.8 (5.92)	22.4 (6.37)	22.0 (6.25)
		-5	15.6 (4.44)	19.0 (5.41)	20.4 (5.80)	20.2 (5.74)
		-10	14.6 (4.15)	17.0 (4.84)	18.3 (5.21)	18.4 (5.23)
		-20	11.9 (3.39)	13.3 (3.77)	13.8 (3.92)	13.5 (3.85)
		-30	8.09 (2.30)	8.73 (2.48)	9.02 (2.56)	8.73 (2.48)
		-40	5.47 (1.56)	6.08 (1.73)	6.10 (1.73)	5.87 (1.67)
	4566BC1	0	29.1 (8.28)	32.3 (9.18)	32.8 (9.33)	32.1 (9.14)
		-5	27.2 (7.75)	30.5 (8.66)	29.9 (8.51)	29.4 (8.37)
		-10	25.2 (7.18)	27.5 (7.82)	27.1 (7.71)	26.6 (7.56)
		-20	20.7 (5.90)	21.6 (6.15)	21.1 (5.99)	20.9 (5.96)
		-30	12.3 (3.50)	13.1 (3.74)	13.6 (3.86)	13.2 (3.77)
		-40	8.30 (2.36)	9.29 (2.64)	9.18 (2.61)	8.82 (2.51)
	4568BC1	0	39.5 (11.2)	42.7 (12.1)	43.8 (12.4)	42.9 (12.2)
		-5	38.0 (10.8)	40.5 (11.5)	41.5 (11.8)	39.8 (11.3)
		-10	36.3 (10.3)	38.2 (10.9)	39.3 (11.2)	36.6 (10.4)
		-20	31.1 (8.83)	31.5 (8.95)	31.8 (9.04)	29.7 (8.44)
		-30	23.8 (6.75)	24.0 (6.83)	23.8 (6.77)	22.2 (6.31)
		-40	13.8 (3.92)	13.5 (3.84)	14.5 (4.12)	11.9 (3.37)

R404A

极低温<-70~-20℃>

型号		蒸发温度 (℃)	公称能力 (kW) (美国冷冻吨)											
			冷凝压力 (MPa abs)											
型式	编号		1.10 (20℃相当)			1.43 (30℃相当)			1.74 (38℃相当)			2.31 (50℃相当)		
			冷凝液热力 (℃)											
			-20	-10	0	-20	-10	0	-20	-10	0	-20	-10	0
			再冷却 (℃)											
			40	30	20	50	40	30	58	48	38	70	60	50
CEX-	2333BUZ	-20	2.19 (0.62)	1.98 (0.56)	1.78 (0.51)	2.61 (0.74)	2.36 (0.67)	2.11 (0.60)	2.95 (0.84)	2.67 (0.76)	2.39 (0.68)	3.48 (0.99)	3.15 (0.90)	2.82 (0.80)
		-30	1.72 (0.49)	1.55 (0.44)	1.39 (0.40)	2.01 (0.57)	1.82 (0.52)	1.63 (0.46)	2.26 (0.64)	2.04 (0.58)	1.83 (0.52)	2.64 (0.75)	2.39 (0.68)	2.13 (0.61)
		-40	1.30 (0.37)	1.18 (0.34)	1.05 (0.30)	1.51 (0.43)	1.36 (0.39)	1.22 (0.35)	1.68 (0.48)	1.52 (0.43)	1.36 (0.39)	1.95 (0.55)	1.77 (0.50)	1.58 (0.45)
		-50	0.96 (0.27)	0.87 (0.25)	0.78 (0.22)	1.10 (0.31)	1.00 (0.28)	0.89 (0.25)	1.23 (0.35)	1.11 (0.32)	1.00 (0.28)	1.42 (0.40)	1.29 (0.37)	1.15 (0.33)
		-60	0.70 (0.20)	0.64 (0.18)	0.57 (0.16)	0.80 (0.23)	0.73 (0.21)	0.66 (0.19)	0.89 (0.25)	0.81 (0.23)	0.72 (0.20)	1.03 (0.29)	0.94 (0.27)	0.84 (0.24)
	-70	0.49 (0.14)	0.45 (0.13)	0.41 (0.12)	0.56 (0.16)	0.52 (0.15)	0.47 (0.13)	0.62 (0.18)	0.57 (0.16)	0.52 (0.15)	0.72 (0.20)	0.66 (0.19)	0.59 (0.17)	
	2335BUZ 2345BUZ	-20	4.36 (1.24)	3.95 (1.12)	3.54 (1.01)	5.19 (1.48)	4.71 (1.34)	4.21 (1.20)	5.88 (1.67)	5.32 (1.51)	4.77 (1.36)	6.93 (1.97)	6.28 (1.79)	5.62 (1.60)
		-30	3.44 (0.98)	3.12 (0.89)	2.79 (0.79)	4.03 (1.15)	3.65 (1.04)	3.26 (0.93)	4.51 (1.28)	4.09 (1.16)	3.65 (1.04)	5.28 (1.50)	4.78 (1.36)	4.28 (1.22)
		-40	2.59 (0.74)	2.35 (0.67)	2.01 (0.57)	3.00 (0.85)	2.72 (0.77)	2.43 (0.69)	3.35 (0.95)	3.03 (0.86)	2.71 (0.77)	3.89 (1.11)	3.52 (1.00)	3.15 (0.90)
		-50	1.91 (0.54)	1.73 (0.49)	1.54 (0.44)	2.20 (0.63)	1.99 (0.57)	1.78 (0.51)	2.43 (0.69)	2.21 (0.63)	1.97 (0.56)	2.82 (0.80)	2.56 (0.73)	2.29 (0.65)
		-60	1.38 (0.39)	1.25 (0.36)	1.12 (0.32)	1.58 (0.45)	1.44 (0.41)	1.29 (0.37)	1.75 (0.50)	1.59 (0.45)	1.42 (0.40)	2.02 (0.57)	1.84 (0.52)	1.65 (0.47)
	-70	0.98 (0.28)	0.90 (0.26)	0.81 (0.23)	1.12 (0.32)	1.03 (0.29)	0.93 (0.26)	1.25 (0.36)	1.14 (0.32)	1.03 (0.29)	1.43 (0.41)	1.31 (0.37)	1.19 (0.34)	
	2348BUZ	-20	6.49 (1.85)	5.88 (1.67)	5.26 (1.50)	7.72 (2.20)	7.00 (1.99)	6.26 (1.78)	8.73 (2.48)	7.91 (2.25)	7.08 (2.01)	10.3 (2.93)	9.33 (2.65)	8.36 (2.38)
		-30	5.12 (1.46)	4.63 (1.32)	4.14 (1.18)	5.99 (1.70)	5.42 (1.54)	4.85 (1.38)	6.72 (1.91)	6.08 (1.73)	5.44 (1.55)	7.85 (2.23)	7.11 (2.02)	6.36 (1.81)
		-40	3.86 (1.10)	3.49 (0.99)	3.12 (0.89)	4.47 (1.27)	4.05 (1.15)	3.62 (1.03)	4.98 (1.42)	4.51 (1.28)	4.03 (1.15)	5.79 (1.65)	5.24 (1.49)	4.68 (1.33)
		-50	2.82 (0.80)	2.56 (0.73)	2.29 (0.65)	3.25 (0.92)	2.94 (0.84)	2.63 (0.75)	3.61 (1.03)	3.27 (0.93)	2.92 (0.83)	4.18 (1.19)	3.79 (1.08)	3.38 (0.96)
		-60	2.03 (0.58)	1.85 (0.53)	1.66 (0.47)	2.33 (0.66)	2.12 (0.60)	1.90 (0.54)	2.58 (0.73)	2.35 (0.67)	2.11 (0.60)	2.98 (0.85)	2.71 (0.77)	2.43 (0.69)
	-70	1.46 (0.42)	1.33 (0.38)	1.21 (0.34)	1.67 (0.47)	1.53 (0.44)	1.38 (0.39)	1.85 (0.53)	1.69 (0.48)	1.53 (0.44)	2.13 (0.61)	1.95 (0.55)	1.76 (0.50)	
	2341BUZ	-20	9.10 (2.59)	8.25 (2.35)	7.39 (2.10)	10.8 (3.07)	9.82 (2.79)	8.79 (2.50)	12.3 (3.50)	11.1 (3.16)	9.95 (2.83)	14.5 (4.12)	13.1 (3.73)	11.7 (3.33)
		-30	7.19 (2.04)	6.51 (1.85)	5.82 (1.66)	8.42 (2.39)	7.62 (2.17)	6.81 (1.94)	9.44 (2.68)	8.54 (2.43)	7.64 (2.17)	11.0 (3.13)	9.99 (2.84)	8.93 (2.54)
		-40	5.73 (1.63)	5.19 (1.48)	4.63 (1.32)	6.64 (1.89)	6.01 (1.71)	5.37 (1.53)	7.40 (2.10)	6.70 (1.91)	5.99 (1.70)	8.61 (2.45)	7.79 (2.22)	6.96 (1.98)
		-50	3.98 (1.13)	3.60 (1.02)	3.22 (0.92)	4.58 (1.30)	4.15 (1.18)	3.71 (1.06)	5.09 (1.45)	4.61 (1.31)	4.12 (1.17)	5.89 (1.68)	5.34 (1.52)	4.77 (1.36)
		-60	2.87 (0.82)	2.61 (0.74)	2.34 (0.67)	3.30 (0.94)	3.00 (0.85)	2.69 (0.77)	3.65 (1.04)	3.32 (0.94)	2.98 (0.85)	4.22 (1.20)	3.83 (1.09)	3.44 (0.98)
	-70	2.06 (0.59)	1.89 (0.54)	1.70 (0.48)	2.36 (0.67)	2.16 (0.61)	1.95 (0.55)	2.61 (0.74)	2.39 (0.68)	2.16 (0.61)	3.01 (0.86)	2.76 (0.78)	2.49 (0.71)	
	2342BUZ	-20	15.8 (4.49)	14.3 (4.07)	12.8 (3.64)	18.8 (5.35)	17.1 (4.86)	15.3 (4.35)	21.3 (6.06)	19.3 (5.49)	17.3 (4.92)	25.1 (7.14)	22.8 (6.48)	20.4 (5.80)
		-30	12.5 (3.55)	11.3 (3.21)	10.1 (2.87)	14.6 (4.15)	13.2 (3.75)	11.8 (3.36)	16.4 (4.66)	14.8 (4.21)	13.2 (3.75)	19.1 (5.43)	17.3 (4.92)	15.5 (4.41)
		-40	9.41 (2.68)	8.52 (2.42)	7.61 (2.16)	10.9 (3.10)	9.87 (2.81)	8.82 (2.51)	12.2 (3.47)	11.0 (3.13)	9.84 (2.80)	14.1 (4.01)	12.8 (3.64)	11.4 (3.24)
		-50	6.91 (1.97)	6.26 (1.78)	5.60 (1.59)	7.96 (2.26)	7.21 (2.05)	6.45 (1.83)	8.84 (2.51)	8.0 (2.28)	7.16 (2.04)	10.2 (2.90)	9.27 (2.64)	8.29 (2.36)
		-60	4.97 (1.41)	4.52 (1.29)	4.06 (1.15)	5.71 (1.62)	5.19 (1.48)	4.65 (1.32)	6.32 (1.80)	5.75 (1.64)	5.15 (1.46)	7.30 (2.08)	6.64 (1.89)	5.96 (1.69)
	-70	3.58 (1.02)	3.28 (0.93)	2.96 (0.84)	4.09 (1.16)	3.75 (1.07)	3.39 (0.96)	4.53 (1.29)	4.15 (1.18)	3.75 (1.07)	5.22 (1.48)	4.79 (1.36)	4.32 (1.23)	
	2344BUZ 3454BUZ 4564BUZ	-20	27.1 (7.71)	24.5 (6.97)	22.0 (6.26)	32.2 (9.16)	29.2 (8.30)	26.1 (7.42)	36.4 (10.4)	33.0 (9.38)	29.5 (8.39)	43.0 (12.2)	38.9 (11.1)	34.9 (9.93)
		-30	21.4 (6.09)	19.4 (5.52)	17.3 (4.92)	25.0 (7.11)	22.7 (6.46)	20.3 (5.77)	28.0 (7.96)	25.4 (7.22)	22.7 (6.46)	32.8 (9.33)	29.7 (8.45)	26.6 (7.56)
		-40	16.1 (4.58)	14.6 (4.15)	13.0 (3.70)	18.6 (5.29)	16.9 (4.81)	15.1 (4.29)	20.8 (5.92)	18.8 (5.35)	16.8 (4.78)	24.1 (6.85)	21.9 (6.23)	19.5 (5.55)
		-50	11.8 (3.36)	10.7 (3.04)	9.58 (2.72)	13.6 (3.87)	12.3 (3.50)	11.0 (3.13)	15.1 (4.29)	13.7 (3.90)	12.2 (3.47)	17.5 (4.98)	15.9 (4.52)	14.2 (4.04)
		-60	8.52 (2.42)	7.75 (2.20)	6.95 (1.98)	9.78 (2.78)	8.89 (2.53)	7.97 (2.27)	10.8 (3.07)	9.85 (2.80)	8.83 (2.51)	12.5 (3.55)	11.4 (3.24)	10.2 (2.90)
	-70	6.13 (1.74)	5.62 (1.60)	5.07 (1.44)	7.01 (1.99)	6.43 (1.83)	5.80 (1.65)	7.76 (2.21)	7.11 (2.02)	6.42 (1.83)	8.94 (2.54)	8.20 (2.33)	7.40 (2.10)	
	4566BUZ	-20	37.6 (10.7)	34.0 (9.67)	30.5 (8.67)	44.7 (12.7)	40.5 (11.5)	36.3 (10.3)	50.6 (14.4)	45.8 (13.0)	41.0 (11.7)	59.6 (17.0)	54.1 (15.4)	48.4 (13.8)
		-30	30.8 (8.76)	27.9 (7.93)	24.9 (7.08)	36.1 (10.3)	32.7 (9.30)	29.2 (8.30)	40.4 (11.5)	36.6 (10.4)	32.7 (9.30)	47.3 (13.5)	42.8 (12.2)	38.3 (10.9)
		-40	22.3 (6.34)	20.2 (5.74)	18.1 (5.15)	25.9 (7.37)	23.4 (6.65)	20.9 (5.94)	28.9 (8.22)	26.1 (7.42)	23.4 (6.65)	33.5 (9.53)	30.3 (8.62)	27.1 (7.71)
		-50	16.4 (4.66)	14.9 (4.24)	13.3 (3.78)	18.9 (5.37)	17.1 (4.86)	15.3 (4.35)	21.0 (5.97)	19.0 (5.40)	17.0 (4.83)	24.3 (6.91)	22.0 (6.26)	19.7 (5.60)
		-60	12.1 (3.44)	11.0 (3.13)	9.88 (2.81)	13.9 (3.95)	12.6 (3.58)	11.3 (3.21)	15.4 (4.38)	14.0 (3.98)	12.5 (3.55)	17.8 (5.06)	16.2 (4.61)	14.5 (4.12)
	-70	8.51 (2.42)	7.80 (2.22)	7.04 (2.00)	9.73 (2.77)	8.92 (2.54)	8.06 (2.29)	10.8 (3.07)	9.87 (2.81)	8.92 (2.54)	12.4 (3.53)	11.4 (3.24)	10.3 (2.93)	
	4568BUZ	-20	53.5 (15.2)	48.4 (13.8)	43.4 (12.3)	63.6 (18.1)	57.7 (16.4)	51.6 (14.7)	71.9 (20.5)	65.2 (18.5)	58.3 (16.6)	84.9 (24.1)	76.9 (21.9)	68.9 (19.6)
		-30	42.2 (12.0)	38.2 (10.9)	34.1 (9.70)	49.4 (14.1)	44.7 (12.7)	40.0 (11.4)	55.4 (15.8)	50.1 (14.4)	44.8 (12.7)	64.7 (18.4)	58.6 (16.7)	52.4 (14.9)
		-40	31.8 (9.04)	28.8 (8.19)	25.7 (7.31)	36.9 (10.5)	33.4 (9.50)	29.8 (8.47)	41.1 (11.7)	37.2 (10.6)	33.2 (9.44)	47.8 (13.6)	43.2 (12.3)	38.6 (11.0)
		-50	23.3 (6.63)	21.1 (6.00)	18.9 (5.37)	26.8 (7.62)	24.3 (6.91)	21.7 (6.17)	29.8 (8.47)	27.0 (7.68)	24.2 (6.88)	34.5 (9.81)	31.3 (8.90)	27.9 (7.93)
		-60	16.9 (4.81)	15.3 (4.35)	13.8 (3.92)	19.4 (5.52)	17.6 (5.01)	15.8 (4.49)	21.4 (6.09)	19.5 (5.55)	17.4 (4.95)	24.8 (7.05)	22.5 (6.40)	20.2 (5.74)
	-70	12.2 (3.47)	11.1 (3.16)	10.1 (2.87)	13.9 (3.95)	12.7 (3.61)	11.5 (3.27)	15.3 (4.35)	14.1 (4.01)	12.7 (3.61)	17.7 (5.03)	16.3 (4.64)	14.7 (4.18)	