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BEIJING, China

WMO#: **545110**

Lat: **39.93N** Long: **116.28E** Elev: **55** StdP: **100.67** Time Zone: **8.00 (CHN)** Period: **86-10** WBAN: **99999**

Annual Heating and Humidification Design Conditions

	Coldest Month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWD to 99.6% DB		
				99.6%			99%			0.4%		1%				
		99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
(1)	1	-11.0	-9.1	-28.2	0.3	-4.3	-25.9	0.4	-3.8	12.2	-2.7	10.6	-3.4	2.7	0	(1)

Annual Cooling, Dehumidification, and Enthalpy Design Conditions

	Hottest Month	Hottest Month DB Range	Cooling DB/MCWB						Evaporation WB/MCDB						MCWS/PCWD to 0.4% DB		
			0.4%		1%		2%		0.4%		1%		2%				
			DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
(2)	7	9.0	35.0	22.0	33.2	22.5	32.0	22.4	27.0	30.5	26.1	29.4	25.3	28.7	3.5	180	(2)

	Dehumidification DP/MCDB and HR									Enthalpy/MCDB						Hours 8 to 4 & 12.8/20.6	
	0.4%			1%			2%			0.4%		1%		2%			
	DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
(3)	26.1	21.7	29.0	25.1	20.4	28.1	24.2	19.2	27.3	86.4	30.2	81.8	29.2	78.0	28.6	599	(3)

Extreme Annual Design Conditions

	Extreme Annual WS			Extreme Max WB	Extreme Annual DB				n-Year Return Period Values of Extreme DB								
					Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years		
	1%	2.5%	5%		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
(4)	9.8	8.1	6.7	31.0	-13.8	38.2	2.5	1.8	-15.6	39.5	-17.1	40.6	-18.5	41.6	-20.3	42.9	(4)

Monthly Climatic Design Conditions

				Annual (d)	Jan (e)	Feb (f)	Mar (g)	Apr (h)	May (i)	Jun (j)	Jul (k)	Aug (l)	Sep (m)	Oct (n)	Nov (o)	Dec (p)	
(5)	Temperatures, Degree-Days and Degree-Hours	Tavg		13.0	-3.1	0.4	6.5	14.4	20.5	24.9	26.7	25.7	20.8	13.7	5.0	-1.1	(5)
(6)		Sd			3.14	3.42	3.80	3.50	3.14	2.75	2.32	2.11	2.85	3.52	4.02	3.02	(6)
(7)		HDD10.0		1306	405	268	119	5	0	0	0	0	0	9	156	343	(7)
(8)		HDD18.3		2827	663	501	366	123	14	1	0	0	10	146	401	602	(8)
(9)		CDD10.0		2383	0	0	12	138	327	448	518	486	325	125	5	0	(9)
(10)		CDD18.3		863	0	0	0	7	83	198	259	227	85	4	0	0	(10)
(11)		CDH23.3		8222	0	0	3	104	847	1955	2649	2024	603	36	0	0	(11)
(12)		CDH26.7		3198	0	0	1	18	286	869	1131	736	154	4	0	0	(12)
(13)	Precipitation	PrecAvg		553	3	5	9	24	32	71	173	153	48	23	8	3	(13)
(14)		PrecMax		915	21	26	43	142	120	236	459	492	123	133	43	16	(14)
(15)		PrecMin		267	0	0	0	0	2	4	27	34	1	0	0	0	(15)
(16)		PrecSD		159.9	4.6	6.3	10.0	25.9	23.1	51.4	87.9	95.5	34.3	24.0	10.2	3.6	(16)
(17)	Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	0.4%	DB		8.9	14.1	22.1	29.0	34.2	37.0	37.7	35.0	31.9	26.4	19.1	10.9	(17)
(18)			MCWB		1.9	4.8	10.1	15.1	18.2	20.7	22.9	23.7	21.1	15.2	9.4	3.3	(18)
(19)		2%	DB		6.0	11.1	18.4	26.1	31.9	34.9	35.1	33.0	30.1	24.0	16.1	8.0	(19)
(20)			MCWB		0.0	3.2	8.3	14.3	17.5	20.7	23.3	24.1	20.3	14.7	8.1	1.5	(20)
(21)		5%	DB		4.2	9.0	16.0	24.0	29.9	33.1	33.3	31.8	28.5	22.1	13.9	6.1	(21)
(22)			MCWB		-1.3	2.1	7.0	13.3	17.5	20.6	24.1	24.1	19.9	13.7	7.0	0.6	(22)
(23)		10%	DB		2.6	7.0	14.0	21.9	27.9	31.4	32.0	30.5	26.9	20.1	11.8	4.2	(23)
(24)			MCWB		-2.3	1.1	5.9	12.2	16.4	20.3	24.0	23.7	19.3	12.8	6.0	-0.5	(24)
(25)	Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB		2.1	5.6	11.9	18.5	22.3	25.4	28.4	28.8	25.3	18.9	11.1	4.1	(25)
(26)			MCDB		8.1	10.5	19.2	24.8	29.5	31.0	31.9	30.6	29.1	22.5	15.8	8.1	(26)
(27)		2%	WB		0.2	4.2	9.5	16.4	20.8	24.1	27.3	27.0	23.4	17.5	9.5	2.2	(27)
(28)			MCDB		5.1	9.4	15.9	22.6	27.8	29.5	31.0	30.0	26.8	21.0	13.6	6.8	(28)
(29)		5%	WB		-0.9	2.8	8.0	15.0	19.5	23.2	26.4	26.1	22.1	16.1	8.2	1.0	(29)
(30)			MCDB		3.4	8.0	13.9	21.2	25.9	28.5	29.9	29.1	25.6	19.3	12.0	5.1	(30)
(31)		10%	WB		-1.9	1.5	6.6	13.6	18.4	22.4	25.7	25.2	20.9	14.8	6.8	0.0	(31)
(32)			MCDB		1.9	6.3	12.6	19.6	24.5	27.7	29.1	28.3	24.5	18.2	10.8	3.7	(32)
(33)	Mean Daily Temperature Range		MDBR		9.7	10.6	11.1	12.0	12.2	11.0	9.0	9.2	10.6	10.9	10.1	9.1	(33)
(34)		5% DB	MCDBR		12.3	13.8	14.9	15.5	16.1	14.6	11.9	11.2	12.8	13.5	13.1	11.9	(34)
(35)			MCWBR		7.9	8.3	7.8	7.3	6.4	5.3	4.8	4.9	5.5	6.2	7.3	7.2	(35)
(36)		5% WB	MCDBR		11.5	12.2	13.3	13.2	12.7	10.8	8.8	8.5	9.7	9.9	11.5	10.9	(36)
(37)			MCWBR		7.6	7.7	7.4	7.2	6.5	5.3	4.9	5.0	5.4	5.7	7.1	6.9	(37)
(38)	Clear Sky Solar Irradiance	taub			0.382	0.438	0.510	0.614	0.700	0.722	0.626	0.583	0.551	0.486	0.412	0.373	(38)
(39)		taud			2.222	2.059	1.878	1.642	1.485	1.479	1.707	1.820	1.883	2.021	2.226	2.296	(39)
(40)		Ebn,noon			751	752	736	687	640	628	688	704	692	691	710	731	(40)
(41)		Edh,noon			101	136	182	245	293	295	233	203	179	140	100	88	(41)

Nomenclature: See separate page