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BRASILIA (AEROPORTO), Brazil

WMO#: **833780**

Lat: **15.87S** Long: **47.93W** Elev: **1060** StdP: **89.22** Time Zone: **-3.00 (SAB)** 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)	7	10.0	11.1	1.2	4.7	26.4	3.2	5.4	25.1	8.9	21.5	7.9	22.1	0.5	270	(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)	10	11.4	32.2	17.7	31.2	18.1	30.3	18.3	22.1	26.4	21.6	26.1	21.3	25.8	3.4	60	(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)	21.1	17.9	23.3	20.4	17.2	22.8	20.1	16.8	22.6	70.6	26.3	68.7	25.8	67.2	25.9	469	(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)	7.5	6.4	5.6	27.5	7.5	34.2	2.2	1.2	5.9	35.0	4.6	35.8	3.4	36.5	1.8	37.4	(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		22.1	23.2	23.2	23.1	22.7	21.0	19.3	19.2	20.7	22.8	23.7	23.0	22.9	(5)
(6)		Sd			1.25	1.22	1.17	1.11	1.66	1.43	1.64	1.72	1.76	1.68	1.55	1.47	(6)
(7)		HDD10.0		0	0	0	0	0	0	0	0	0	0	0	0	0	(7)
(8)		HDD18.3		20	0	0	0	0	2	7	10	2	0	0	0	0	(8)
(9)		CDD10.0		4401	408	371	404	381	342	279	284	331	385	426	390	399	(9)
(10)		CDD18.3		1379	150	138	146	131	86	36	36	74	135	167	140	141	(10)
(11)		CDH23.3		9956	873	802	821	836	661	422	498	880	1297	1358	797	712	(11)
(12)		CDH26.7		2658	234	208	192	183	114	39	66	236	485	510	221	172	(12)
(13)	Precipitation	PrecAvg		1515	228	205	197	130	39	7	8	17	50	161	228	244	(13)
(14)		PrecMax		1375	342	324	285	277	79	59	50	37	68	145	356	323	(14)
(15)		PrecMin		615	1	2	1	2	2	3	4	2	1	6	6	35	(15)
(16)		PrecSD		240.6	103.1	86.3	75.6	65.1	19.8	13.9	13.3	8.6	19.4	50.1	88.9	90.0	(16)
(17)	Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	0.4%	DB		31.9	31.8	31.1	30.8	30.1	28.9	29.2	31.9	33.2	33.5	32.3	31.2	(17)
(18)			MCWB		19.5	20.0	19.5	20.1	18.6	16.7	16.0	16.6	16.6	17.7	18.5	19.5	(18)
(19)		2%	DB		30.1	30.2	29.9	29.7	29.0	27.9	28.2	30.2	32.0	32.2	30.5	29.9	(19)
(20)			MCWB		19.6	20.0	19.8	19.5	18.6	16.7	15.8	16.0	16.5	17.8	19.0	19.6	(20)
(21)		5%	DB		29.1	29.1	28.9	28.8	28.0	26.9	27.2	29.1	31.0	31.1	29.1	28.8	(21)
(22)			MCWB		19.6	19.9	19.8	19.5	18.7	16.5	15.8	15.8	16.8	18.2	19.2	19.7	(22)
(23)		10%	DB		28.0	28.0	27.8	27.8	27.0	26.0	26.1	28.0	29.8	29.9	27.8	27.1	(23)
(24)			MCWB		19.9	20.1	20.0	19.6	18.3	16.3	15.6	15.6	16.9	18.3	19.6	20.0	(24)
(25)	Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB		22.8	22.5	22.3	22.2	21.4	19.2	19.0	19.2	20.7	21.7	22.0	22.4	(25)
(26)			MCDB		26.5	26.5	26.6	26.6	26.6	25.4	25.8	27.1	27.1	27.3	26.5	26.4	(26)
(27)		2%	WB		21.9	21.7	21.6	21.4	20.5	18.4	17.7	18.2	19.8	20.9	21.2	21.6	(27)
(28)			MCDB		25.8	26.2	26.2	26.3	25.8	24.9	25.0	25.7	25.8	26.5	25.8	25.7	(28)
(29)		5%	WB		21.4	21.2	21.2	20.8	19.8	17.7	17.0	17.5	19.2	20.4	20.7	21.1	(29)
(30)			MCDB		25.4	25.8	25.7	25.8	25.1	24.4	24.7	24.9	25.0	25.8	25.2	25.2	(30)
(31)		10%	WB		20.8	20.7	20.7	20.4	19.2	17.1	16.3	16.8	18.6	19.8	20.3	20.6	(31)
(32)			MCDB		24.9	25.2	25.1	25.1	24.6	23.8	24.0	24.4	24.7	25.1	24.5	24.5	(32)
(33)	Mean Daily Temperature Range		MDBR		9.5	9.8	9.7	10.7	12.3	13.9	14.5	14.6	13.2	11.4	9.5	8.7	(33)
(34)		5% DB	MCDBR		12.1	11.8	11.6	12.3	13.4	15.2	15.8	16.3	15.7	14.0	12.0	11.4	(34)
(35)			MCWBR		4.0	4.1	4.0	4.5	5.1	6.0	5.9	5.4	4.9	4.2	3.9	3.9	(35)
(36)		5% WB	MCDBR		9.4	9.8	9.5	10.3	11.6	13.5	14.1	13.4	11.5	10.4	9.3	8.9	(36)
(37)			MCWBR		3.8	3.8	3.8	4.2	4.8	5.9	5.9	5.0	4.4	3.8	3.6	3.7	(37)
(38)	Clear Sky Solar Irradiance	taub			0.381	0.359	0.343	0.313	0.289	0.276	0.285	0.348	0.420	0.397	0.405	0.383	(38)
(39)		taud			2.609	2.657	2.662	2.685	2.653	2.609	2.552	2.359	2.227	2.411	2.503	2.635	(39)
(40)		Ebn,noon			963	975	970	967	957	955	953	914	881	927	933	960	(40)
(41)		Edh,noon			104	98	94	87	83	84	91	118	143	124	114	101	(41)

Nomenclature: See separate page