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RIGA, Latvia

WMO#: **264225**

Lat: **56.92N** Long: **23.97E** Elev: **10** StdP: **101.2** Time Zone: **2.00 (EUE)** Period: **94-10** 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	-18.9	-14.2	-21.1	0.6	-18.7	-17.2	0.8	-13.9	11.9	0.8	9.9	0.0	1.5	180	(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	10.1	28.9	20.3	27.0	19.7	25.1	18.3	21.8	26.8	20.5	25.1	19.4	23.8	4.0	350	(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)	20.0	14.7	24.4	18.9	13.7	23.1	17.9	12.8	21.7	63.2	26.5	58.8	24.9	55.0	23.5	852	(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)	9.1	8.1	7.3	26.1	-22.7	31.3	4.4	2.1	-25.8	32.8	-28.4	34.0	-30.9	35.2	-34.0	36.7	(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		7.4	-2.7	-2.5	0.6	6.9	11.9	15.7	18.9	18.0	12.8	7.5	2.3	-1.8	(5)
(6)		Sd			5.87	5.51	4.35	4.33	4.09	3.19	3.00	2.83	3.21	3.74	4.46	5.42	(6)
(7)		HDD10.0		1875	393	350	291	114	26	1	0	0	11	96	230	364	(7)
(8)		HDD18.3		4098	652	583	548	343	204	92	28	40	167	337	480	623	(8)
(9)		CDD10.0		912	0	0	1	21	84	170	274	248	96	17	1	0	(9)
(10)		CDD18.3		93	0	0	0	0	5	12	44	31	1	0	0	0	(10)
(11)		CDH23.3		831	0	0	0	9	50	121	379	259	11	0	0	0	(11)
(12)		CDH26.7		183	0	0	0	0	7	23	104	48	1	0	0	0	(12)
(13)	Precipitation	PrecAvg		654	35	27	32	41	45	66	77	77	77	61	62	49	(13)
(14)		PrecMax		778	51	50	72	120	81	133	142	242	127	160	122	74	(14)
(15)		PrecMin		454	11	4	6	3	16	19	13	6	30	16	25	16	(15)
(16)		PrecSD		92.7	12.6	11.9	17.9	27.0	18.1	31.0	39.5	63.2	29.4	32.9	23.8	18.5	(16)
(17)	Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	0.4%	DB		8.8	8.1	15.9	24.9	27.9	29.8	31.9	29.9	24.9	18.1	12.0	9.9	(17)
(18)			MCWB		8.1	6.2	9.0	15.2	19.4	20.7	21.4	21.3	18.1	14.0	9.9	9.0	(18)
(19)		2%	DB		6.1	6.9	11.9	21.1	24.2	26.9	29.2	28.0	22.8	16.0	10.2	7.1	(19)
(20)			MCWB		5.0	5.5	7.4	13.0	16.4	19.3	20.8	19.8	16.8	13.4	9.0	6.6	(20)
(21)		5%	DB		4.9	5.9	8.2	17.9	22.1	24.2	27.2	26.2	20.2	14.1	9.0	6.0	(21)
(22)			MCWB		4.0	4.7	5.7	11.3	15.1	17.3	20.2	19.1	15.6	12.2	8.3	5.4	(22)
(23)		10%	DB		3.8	4.2	6.2	14.8	19.8	22.2	25.2	24.2	18.2	13.0	8.0	4.9	(23)
(24)			MCWB		3.1	3.4	4.3	9.4	13.9	16.2	18.9	18.1	14.7	11.3	7.4	4.3	(24)
(25)	Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB		7.6	6.9	9.8	16.0	20.2	21.8	23.6	23.1	19.1	15.2	10.6	9.0	(25)
(26)			MCDB		8.2	7.3	14.9	23.8	26.0	27.3	28.8	27.8	22.7	17.0	11.5	9.8	(26)
(27)		2%	WB		5.1	5.3	7.8	13.6	17.8	19.8	22.1	21.2	17.4	13.8	9.2	6.6	(27)
(28)			MCDB		5.6	6.2	11.1	19.7	23.2	25.0	27.3	25.5	20.9	15.5	9.9	6.9	(28)
(29)		5%	WB		3.7	4.4	6.0	11.8	16.0	18.3	21.0	19.8	16.2	12.8	8.2	5.3	(29)
(30)			MCDB		4.3	5.3	7.9	16.8	20.6	22.9	25.9	23.7	19.2	14.1	8.8	5.7	(30)
(31)		10%	WB		2.7	3.4	4.5	10.2	14.4	17.1	19.7	18.8	15.3	11.6	7.3	4.0	(31)
(32)			MCDB		3.2	4.1	5.9	13.9	18.9	21.3	24.1	23.4	18.2	13.0	7.8	4.5	(32)
(33)	Mean Daily Temperature Range		MDBR		4.8	5.7	7.9	10.1	10.7	9.9	10.1	10.2	9.3	6.7	4.4	4.4	(33)
(34)		5% DB	MCDBR		4.9	5.3	11.0	15.1	14.3	13.6	13.0	13.4	11.8	7.7	5.0	3.8	(34)
(35)			MCWBR		4.5	4.4	7.6	8.6	7.8	6.9	6.2	6.7	7.1	5.6	4.5	3.7	(35)
(36)		5% WB	MCDBR		4.6	4.9	10.0	13.8	13.0	11.4	11.6	11.1	10.3	7.1	4.6	3.8	(36)
(37)			MCWBR		4.4	4.3	7.3	8.3	7.8	6.6	6.2	6.3	6.7	5.6	4.4	3.8	(37)
(38)	Clear Sky Solar Irradiance	taub			0.365	0.329	0.363	0.356	0.321	0.327	0.354	0.358	0.338	0.331	0.339	0.366	(38)
(39)		taud			2.301	2.385	2.285	2.345	2.410	2.424	2.354	2.367	2.464	2.493	2.426	2.336	(39)
(40)		Ebn,noon			492	726	785	859	917	913	877	847	815	720	537	395	(40)
(41)		Edh,noon			53	69	97	106	105	106	111	103	81	62	46	41	(41)

Nomenclature: See separate page