

BUENOS AIRES OBSERVATORIO, ARGENTINA (WMO: 875850)																
Lat: <b>34.5903S</b>			Long: <b>58.4839W</b>			Elev: <b>25</b>		StdP: <b>101.03</b>		Time zone: <b>-3.00 (W03)</b>			Period: <b>94-19</b>		WBAN: <b>99999</b>	
Annual Heating, Humidification, and Ventilation Design Conditions																
Coldest Month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWD		WSF	
			99.6%			99%			0.4%		1%		to 99.6% DB			
	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD		
7	3.2	4.6	-2.8	3.0	7.8	-1.5	3.3	8.4	7.8	14.8	6.8	12.6	1.5	180	0.352	
Annual Cooling, Dehumidification, and Enthalpy Design Conditions																
Hottest Month	Hottest Month DB Range	Cooling DB/MCWB							Evaporation WB/MCDB						MCWS/PCWD	
		0.4%		1%		2%		0.4%		1%		2%		to 0.4% DB		
		DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD	
1	8.7	33.8	23.4	32.4	23.0	31.1	22.6	25.2	31.3	24.4	30.2	23.7	29.0	3.0	0	
Dehumidification DP/MCDB and HR									Enthalpy/MCDB						Extreme Max WB	
0.4%			1%			2%			0.4%		1%		2%			
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB		
23.5	18.3	28.3	22.6	17.4	27.3	21.9	16.7	26.7	77.0	31.4	73.8	30.5	71.0	29.2	29.2	
Extreme Annual Design Conditions																
Extreme Annual WS				Extreme Annual Temperature				n-Year Return Period Values of Extreme Temperature								
				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	
7.4	6.3	5.5	DB	1.1	37.0	0.6	0.6	0.6	37.5	0.3	37.9	0.0	38.2	-0.4	38.7	
			WB	-0.3	26.8	1.2	0.9	-1.2	27.5	-1.9	28.1	-2.6	28.6	-3.5	29.3	
Monthly Climatic Design Conditions																
			Annual	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Temperatures, Degree-Days and Degree-Hours	DBAvg	18.5	25.3	24.2	21.8	18.9	15.6	12.4	11.7	13.8	15.1	17.7	21.3	24.2		
	DBStd	5.70	2.93	3.10	3.19	3.48	3.33	3.49	3.46	3.66	3.28	3.18	3.27	3.34		
	HDD10.0	44	0	0	0	1	1	14	19	7	2	0	0	0		
	HDD18.3	848	1	1	8	34	98	181	211	149	107	48	10	2		
	CDD10.0	3132	476	398	364	267	174	86	71	124	154	240	340	439		
	CDD18.3	897	218	166	114	51	13	3	4	7	8	30	100	183		
	CDH23.3	7042	2044	1379	708	192	28	1	16	31	49	145	738	1711		
	CDH26.7	2362	773	467	175	31	1	0	3	4	11	25	212	661		
Wind	WSAvg	2.5	2.7	2.5	2.5	2.1	2.0	2.2	2.3	2.6	2.7	2.8	2.8	2.7		
Precipitation	PrecAvg	1171	128	115	135	108	81	63	67	71	72	119	106	105		
	PrecMax	1752	338	403	477	227	362	178	182	219	209	367	247	300		
	PrecMin	860	11	31	24	5	0	0	9	0	2	19	18	25		
	PrecStd	244	77	79	89	62	81	43	37	51	40	70	54	61		
Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	0.4%	DB	35.9	34.6	32.0	30.0	26.0	22.9	25.4	26.7	28.1	29.5	33.1	36.0		
		MCWB	24.8	24.4	23.2	22.3	20.2	19.1	19.2	19.6	19.0	20.2	21.8	23.7		
	2%	DB	33.7	32.6	30.4	27.1	23.9	21.0	20.7	23.7	24.6	26.6	30.8	33.7		
		MCWB	23.7	24.2	22.3	20.5	19.0	17.4	16.8	17.5	17.5	18.6	21.1	22.9		
	5%	DB	32.2	31.1	28.7	25.5	22.1	19.4	18.3	21.4	22.4	24.8	29.1	32.1		
		MCWB	22.9	23.5	21.5	19.7	18.1	16.0	14.6	16.4	15.7	18.0	19.9	22.3		
	10%	DB	30.7	29.6	27.0	23.9	20.5	17.7	16.5	19.4	20.5	23.2	27.3	30.2		
		MCWB	22.6	22.6	21.0	19.1	17.2	14.7	13.4	15.1	15.1	17.0	19.2	21.8		
Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB	26.5	26.2	24.3	23.1	20.7	20.2	19.2	20.8	21.0	21.7	23.1	26.3		
		MCDB	32.1	32.0	29.7	27.7	24.6	21.7	24.7	25.8	26.0	26.9	29.9	32.1		
	2%	WB	25.2	25.1	23.2	22.1	19.7	18.3	17.5	18.9	18.9	20.2	22.0	24.5		
		MCDB	31.2	31.1	28.1	25.2	22.8	20.6	20.3	22.3	22.8	24.5	28.8	31.1		
	5%	WB	24.4	24.2	22.5	21.4	18.9	17.0	15.9	17.4	17.2	19.3	21.2	23.6		
		MCDB	30.2	29.5	27.0	23.8	21.0	18.8	17.9	20.5	20.4	23.0	27.2	29.4		
	10%	WB	23.6	23.5	21.8	20.5	18.0	15.3	14.1	15.9	16.1	18.2	20.3	22.8		
		MCDB	29.0	28.1	26.1	22.8	20.0	17.3	15.7	18.5	19.4	21.8	25.6	28.5		

Historical Trends										
	DBAvg	Heating		Cooling			Degree-Days			
		99% DB	99% DP	1% DB	1% WB	1% DP	HDD10.0	HDD18.3	CDD10.0	CDD18.3
Station Only	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Regional (0 neighbors)	+0.27	N/A	N/A	+0.60	+0.40	+0.40	N/A	N/A	+82	+42

CDDn	Cooling degree-days base n°C, °C-day	Lat	Latitude, °	Period	Years used to calculate the design conditions
CDHn	Cooling degree-hours base n°C, °C-hour	Long	Longitude, °	Sd	Standard deviation of daily average temperature, °C
DB	Dry bulb temperature, °C	MCDB	Mean coincident dry bulb temperature, °C	StdP	Standard pressure at station elevation, kPa
DP	Dew point temperature, °C	MCDBR	Mean coincident dry bulb temp. range, °C	taub	Clear sky optical depth for beam irradiance
Ebn,noon	Clear sky beam normal and diffuse horizontal irradiances at solar noon, W/m2	MCDP	Mean coincident dew point temperature, °C	taud	Clear sky optical depth for diffuse irradiance
Edh,noon		MCWB	Mean coincident wet bulb temperature, °C	Tavg	Average temperature, °C
Elev	Elevation, m	MCWBR	Mean coincident wet bulb temp. range, °C	Time Zone	Hours ahead or behind UTC
Enth	Enthalpy, kJ/kg	MCWS	Mean coincident wind speed, m/s	WB	Wet bulb temperature, °C
HDDn	Heating degree-days base n°C, °C-day	MDBR	Mean dry bulb temp. range, °C	Hours 8/4 & 12.8/20.6	Number of hours between 8 a.m. and 4 p.m with DB between 12.8 and 20.6 °C
PCWD	Prevailing coincident wind direction, °, 0 = North, 90 = East	WS	Wind speed, m/s	HR	Humidity ratio, g of moisture per kg of dry air