

Design conditions for TOULOUSE/BLAGNAC, France

Station Information

Station name	WMO#	Lat	Long	Elev	StdP	Hours +/- UTC	Time zone code	Period
<i>1a</i>	<i>1b</i>	<i>1c</i>	<i>1d</i>	<i>1e</i>	<i>1f</i>	<i>1g</i>	<i>1h</i>	<i>1i</i>
TOULOUSE/BLAGNAC	076300	43.63N	1.37E	153	99.50	1.00	ROM	8201

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
2	3a	3b	4a	4b	4c	4d	4e	4f	5a	5b	5c	5d	6a	6b
1	-4.8	-2.7	-7.3	2.1	-2.5	-4.9	2.5	-0.6	12.0	10.9	10.6	10.3	1.7	300

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
7	8	9a	9b	9c	9d	9e	9f	10a	10b	10c	10d	10e	10f	11a	11b
7	11.2	32.8	21.0	30.9	20.5	29.1	19.9	22.7	29.6	21.7	28.0	21.0	27.1	3.5	140
Dehumidification DP/MCDB and HR									Enthalpy/MCDB						
0.4%			1%			2%			0.4%		1%		2%		
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB	
12a	12b	12c	12d	12e	12f	12g	12h	12i	13a	13b	13c	13d	13e	13f	
20.8	15.7	26.0	19.8	14.8	24.9	18.9	14.0	23.8	67.8	29.6	64.2	28.0	61.2	27.1	

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%		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
14a	14b	14c	15	16a	16b	16c	16d	17a	17b	17c	17d	17e	17f	17g	17h
10.3	9.0	7.9	29.1	36.3	-6.8	2.0	3.7	37.7	-9.5	38.9	-11.6	40.0	-13.7	41.5	-16.4

Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures

%	Jan		Feb		Mar		Apr		May		Jun	
	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB
	18a	18b	18c	18d	18e	18f	18g	18h	18i	18j	18k	18l
0.4%	15.8	12.2	18.1	12.6	21.8	13.9	24.1	15.7	29.1	19.2	32.0	20.3
1%	14.8	11.5	16.3	11.9	20.2	13.3	22.8	14.9	27.6	18.0	30.9	20.2
2%	13.9	11.2	15.2	11.5	19.0	12.8	21.3	13.8	26.4	17.5	29.8	19.8

%	Jul		Aug		Sep		Oct		Nov		Dec	
	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB	DB	MCWB
	18m	18n	18o	18p	18q	18r	18s	18t	18u	18v	18w	18x
0.4%	35.6	21.3	35.9	21.0	31.9	20.4	26.8	18.8	20.1	15.4	16.3	13.1
1%	34.0	20.7	34.0	20.9	30.3	19.7	25.5	18.5	19.1	14.7	15.4	12.6
2%	32.9	21.0	32.8	21.2	29.2	19.3	24.0	18.1	18.1	14.5	14.8	12.2

Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures

%	Jan		Feb		Mar		Apr		May		Jun	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19a	19b	19c	19d	19e	19f	19g	19h	19i	19j	19k	19l
0.4%	12.7	15.1	13.2	16.0	14.9	19.5	16.6	22.3	20.2	27.5	22.1	29.0
1%	12.1	14.2	12.6	15.2	14.1	18.9	15.8	21.0	19.5	26.2	21.2	28.1
2%	11.5	13.5	12.0	14.5	13.4	17.7	15.1	20.0	18.7	24.6	20.7	27.4

%	Jul		Aug		Sep		Oct		Nov		Dec	
	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB	WB	MCDB
	19m	19n	19o	19p	19q	19r	19s	19t	19u	19v	19w	19x
0.4%	23.8	31.1	24.0	31.1	22.4	28.9	20.0	25.2	16.0	18.8	13.7	15.8
1%	23.3	30.8	23.5	30.2	21.5	27.4	19.3	23.5	15.5	18.1	13.0	14.8
2%	22.7	30.2	22.8	29.2	20.9	26.5	18.6	22.2	15.0	17.4	12.5	14.2

Monthly Mean Daily Temperature Range

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20a	20b	20c	20d	20e	20f	20g	20h	20i	20j	20k	20l
7.2	7.6	9.2	9.5	9.9	10.2	11.2	11.0	10.9	8.9	7.4	6.7

WMO#	World Meteorological Organization number	Lat	Latitude, °	Long	Longitude, °
Elev	Elevation, m	StdP	Standard pressure at station elevation, kPa		
DB	Dry bulb temperature, °C	DP	Dew point temperature, °C	WB	Wet bulb temperature, °C
WS	Wind speed, m/s	Enth	Enthalpy, kJ/kg	HR	Humidity ratio, grams of moisture per kilogram of dry air
MCDB	Mean coincident dry bulb temperature, °C	MCWB	Mean coincident wet bulb temperature, °C	MCWS	Mean coincident wind speed, m/s
PCWD	Prevailing coincident wind direction, °, 0 = North, 90 = East				