

Table4) human comfort according to the Olgay index in Shahrood synoptic station

Month	Day Condition (Min temperature/Max humidity)	Night Condition (Min temperature/Max humidity)	Comfort Coefficient
Mehr (20 Sep-22 Oct)	22.4°C, 30%	8.80 °C, 67%	Cool
Aban (23 Oct-21 Nov)	14.8 °C, 37%	3.20 °C, 73%	Cool
Azar (22 Nov-21 Dec)	8.20 °C, 47%	-1.00 °C, 80%	Very cool
Dey (22 Dec-20 Jan)	6.10 °C, 49%	-2.7 °C, 80%	Very cool
Bahman (21 Jan-19 Feb)	8.8 °C, 41%	-1.3 °C, 76%	Very cool
Esfand (20 Feb- 20 Mar)	14.10 °C, 35%	2.8 °C, 71%	Very cool
Farvardin (21Mar-20 Apr)	21.10 °C, 30%	8.50 °C, 64%	Cool
Ordibehesht (21 Apr-21 May)	26.30 °C, 28%	13.00 °C, 60%	Comfortable
Khordad (22 May- 21 Jun)	31.00 °C, 25%	17.5 °C, 52%	Comfortable
Tir (22 Jun- 22Jul)	33.10 °C, 25%	20.30 °C, 51%	Hot
Mordad (23 Jul-22 Aug)	32.4 °C, 24%	19.10 °C, 52%	Comfortable
Shahrivar (23 Aug-22 Sep)	29.00 °C, 25%	14.80 °C, 58%	Comfortable

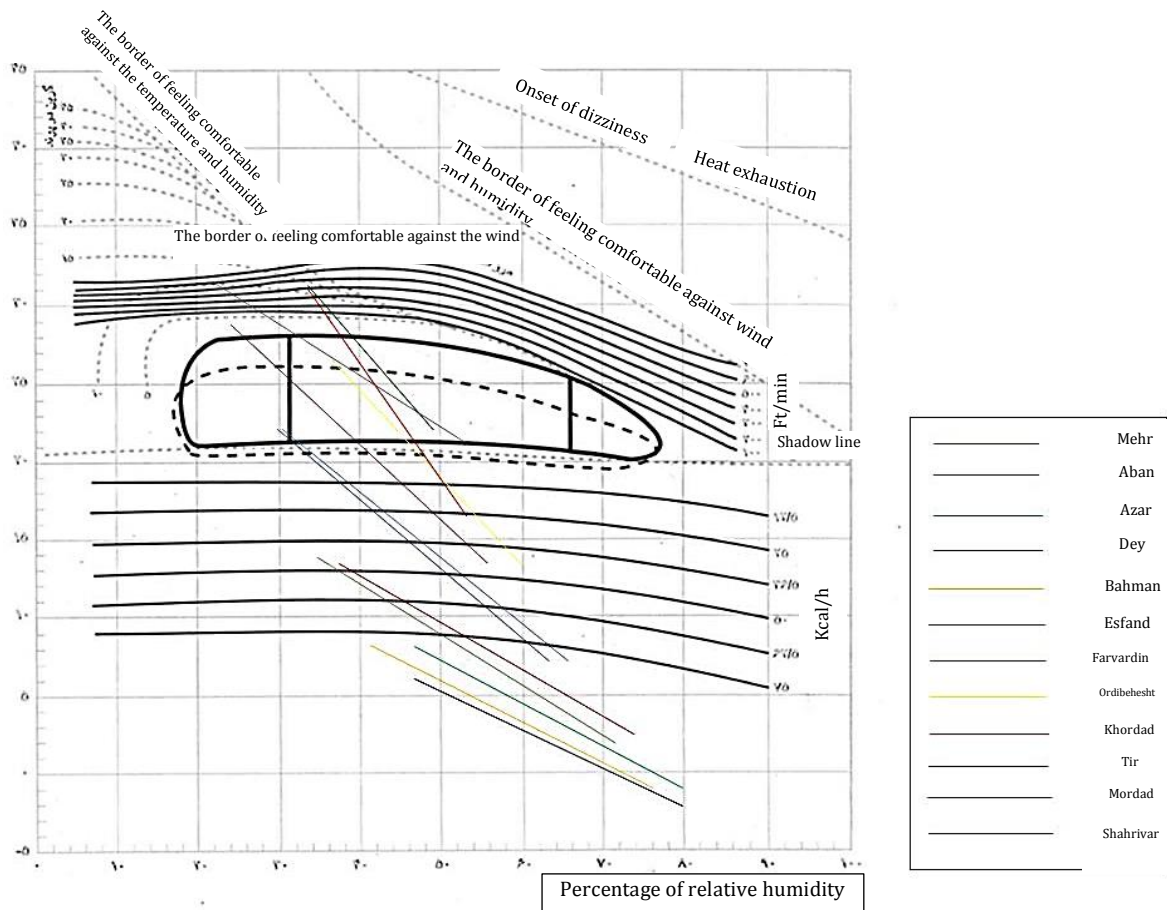


Figure 4) Shahrood's bioclimatic graph

Table5) Human thermal comfort coefficient using ET in Shahrood

Month	Average Temperature (T)	Average Relative Humidity (RH)	Effective Temperature (ET)	Thermal Coefficient
Farvardin (21 Mar-20 Apr)	14.8	45	13.744	Very cool
Ordibehesht (21 Apr-21 May)	19.6	42	17.373	Cool
Khordad (22 May- 21 Jun)	24.20	37	20.622	Comfortable
Tir (22 Jun- 22 Jul)	26.7	37	22.492	Hot
Mordad (23 Jul-22 Aug)	25.8	37	21.819	Comfortable
Shahrivar (23 Aug-22 Sep)	21.9	37	18.902	Comfortable
Mehr (20 Sep-22 Oct)	15.6	47	12.941	Very cool
Aban (23 Oct-21 Nov)	9	54	9.184	Very cool
Azar (22 Nov-21 Dec)	3.6	64	8.121	Very cool
Dey (22 Dec-20 Jan)	1.7	65	2.862	Very cool
Bahman (21 Jan-19 Feb)	3.8	58	4.841	Very cool
Esfand (20 Feb- 20 Mar)	8.5	51	8.794	Very cool

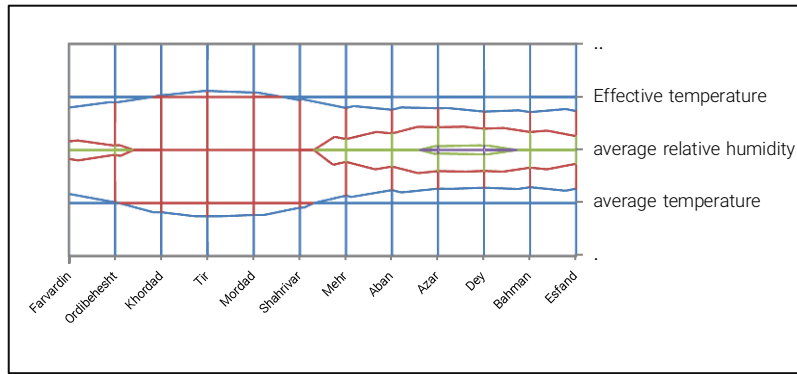


Figure 5) Shahrood's Ambrometric graph using EF index