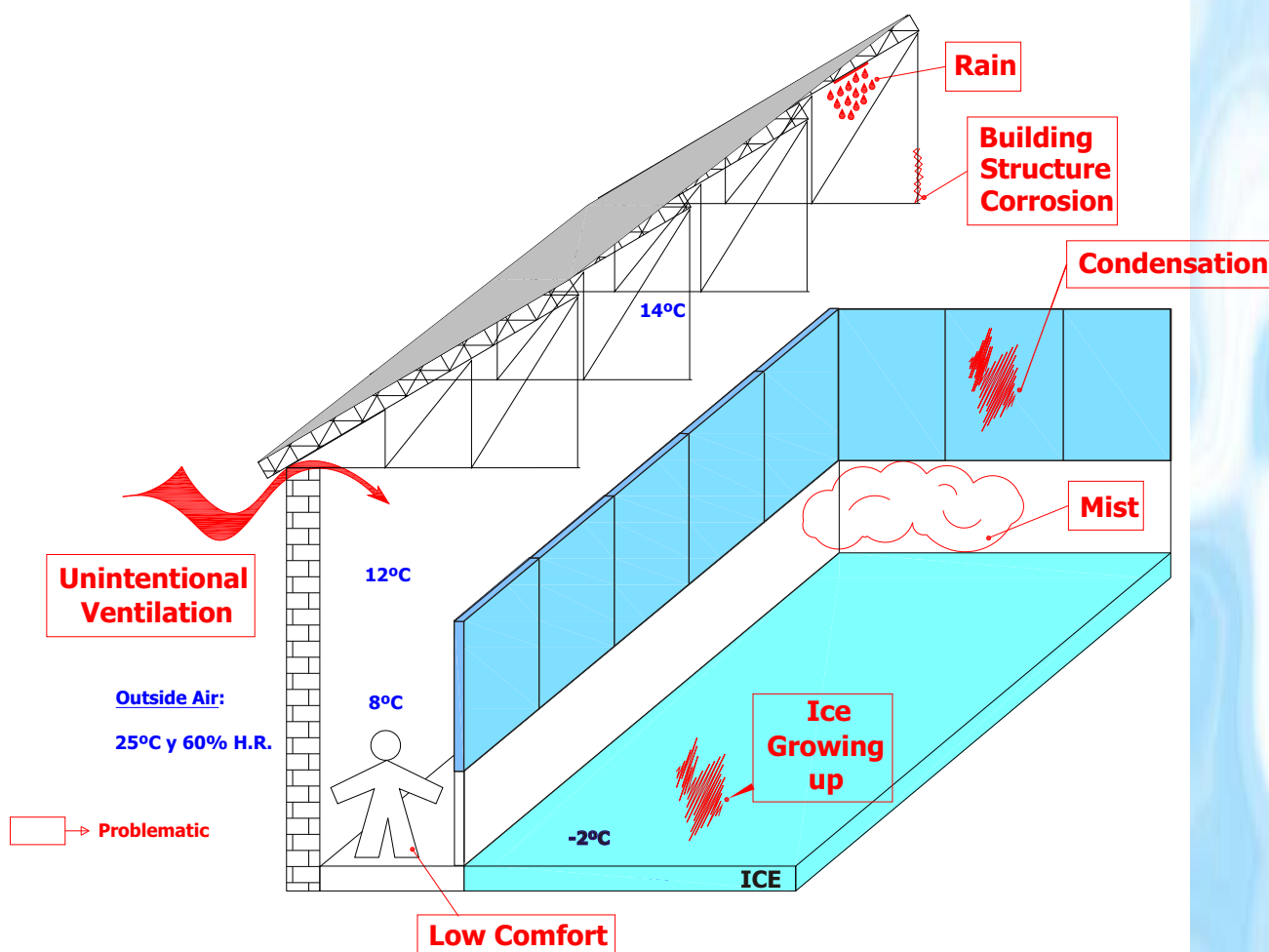


## ICE RINK DEHUMIDIFICATION



### THE REASON OF THE PROBLEM:

The outside air dew point is higher than the internal air one. This air flow is entering to the building due to unintentional ventilation. Condensation takes place and the results could be the ones showed in above picture.

### THE SOLUTION: DEHUMIDIFICATION.

The following table shows the ambient higrometric conditions that avoid commented problems:

Air Temperature	Zone	Problem	Max. Moisture Content in Air
-4°C a -1°C	Ice	Ice growing up	2,7 a 3,5 g/kg
6°C a 8°C	1 m over ice	Mist formation	5,7 a 6,7 g/kg
10°C a 12°C	Occupied room	Rusting	4,6 a 5,2 g/kg
		Mold and bacteria	6 a 7 g/kg
		Condensation	7,6 a 8,7 g/kg
13°C a 15°C	Roof	Rusting	5,6 a 6,4 g/kg
		Rain	9,3 a 10,6 g/kg

The selected desiccant dehumidifier should have enough drying capacity at operating conditions to balance the moisture load of the unintentional ventilation (0,1 to 0,5 vol/h, depending on the building leakages).