

# Milano Cortina Games needs artificial snow

The Winter Olympics will depend on artificial snow to ensure consistent conditions despite environmental concerns, even though Alpine events will take place in the Dolomites range at 1,800 metres above sea level

## MAN-MADE SNOW

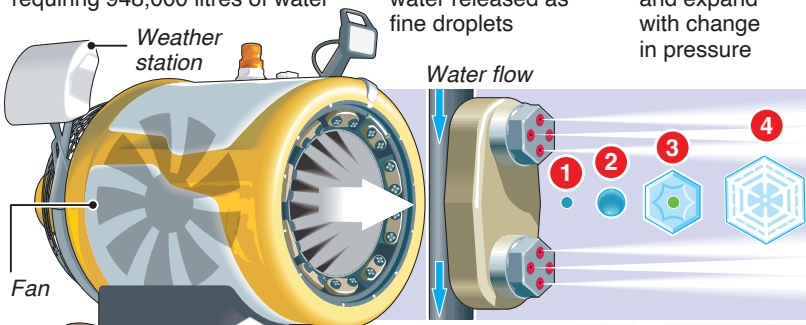
2.4 million cubic metres of snow, requiring 948,000 litres of water

## 1 Atomisation

High-pressure cold water released as fine droplets

## 2 Evaporation

Droplets cool and expand with change in pressure



## 3 Nucleation

Bacterial fragments added – around which droplets crystallise

## 4 Convection

Fan cools, disperses crystals

Highest altitude venue:

**Aiguille du Midi**  
3840m (1924)

1m<sup>3</sup> water = 2.5m<sup>3</sup> snow

## ALTITUDES OF WINTER GAMES

Highest venue elevation

