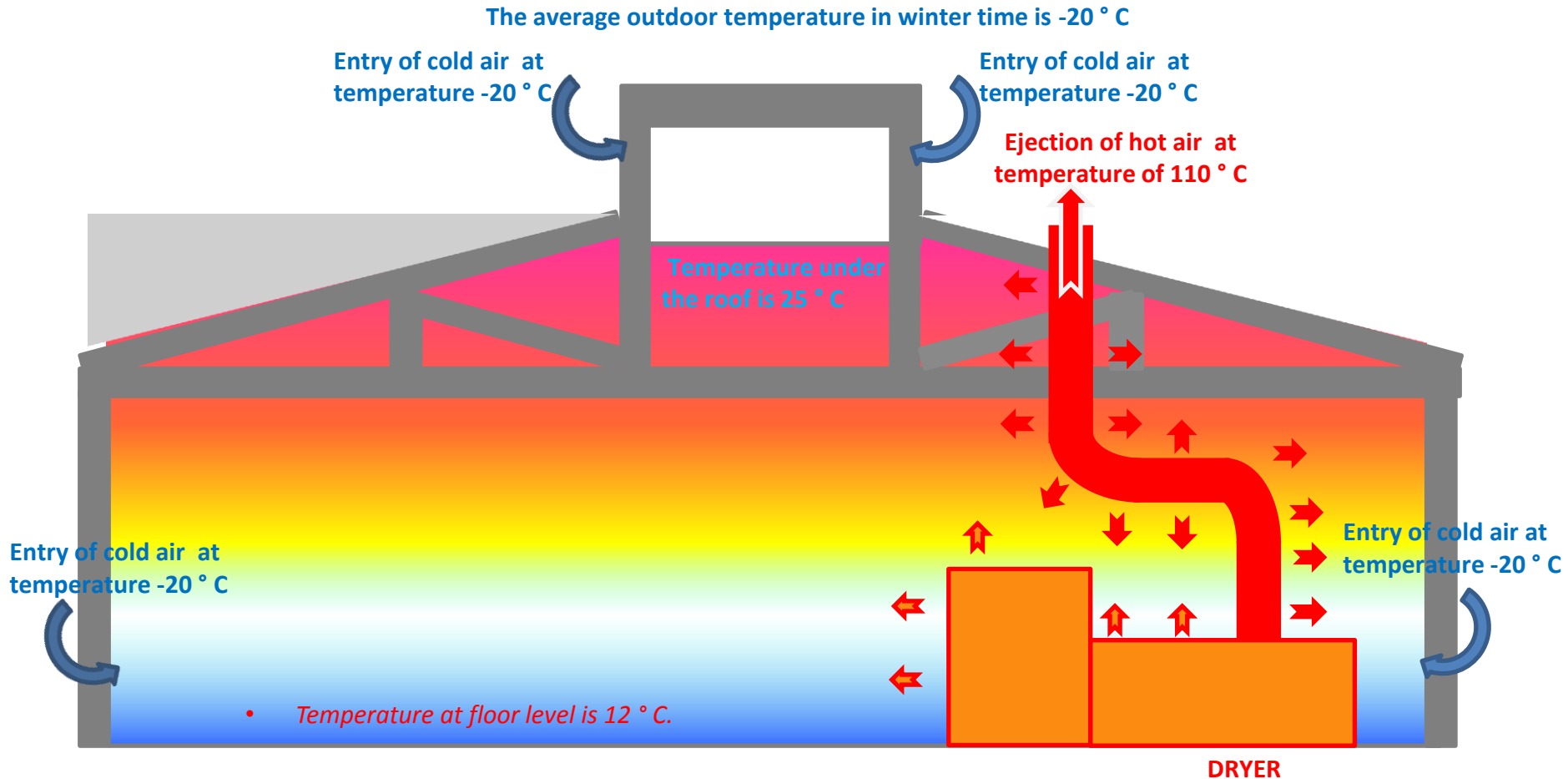
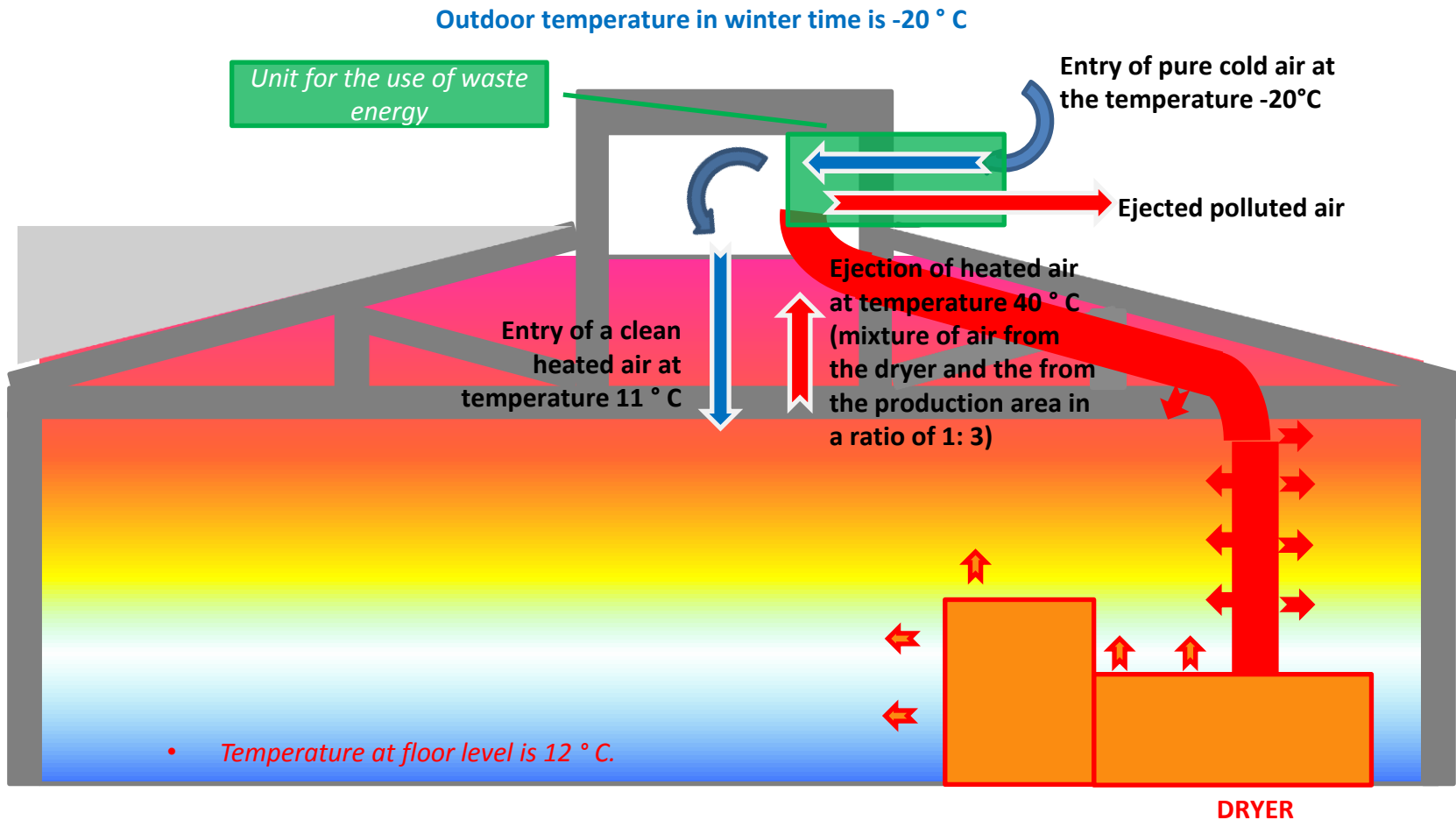


Plant B - before (in winter time)



- $14.200\text{ m}^3/\text{h}$ of the exhaust air at the temperature 110°C was spewed out into the atmosphere during operation of the dryer by using centrifugal extractor fans,
- The required amount of fresh air in the area of non-woven textile: $71\ 000\text{ m}^3/\text{h}$
- Estimated average temperature, in winter time, at a height of 1 m from the ground is 12°C , while the estimated temperature under the roof at the same time was about 25°C .

Plant B - after (in winter time)



- By installing units for use of waste heat on the roof of the hall, the air from the furnace and air under the roof were directed to a heat exchanger which recovers heat from a polluted air and heats the outdoor pure cold air. A preheated air at the temperature of approximately 8°C , prepared in such way, is additionally heated by a compressor unit up to $11-12^{\circ}\text{C}$ and injected into the hall.
- The energy consumption for heating the hall in winter time is reduced by 75% compared to the previous condition.
- Based on the Project of use of waste heat was achieved also a clean air in the premises of the hall in winter time.