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Danfoss Inverter Scroll Solutions

High Efficiency, Energy Saving, and **Precise Temperature** Danfoss Boosts High Yield of Edible Fungi

In light of the different growth phases of the mushroom library, Danfoss provides a safe and reliable solution to effectively increase mushroom yield with high efficiency and precise temperature controls.

Up to
36%
energy saving, cuts down the production cost.

www.invertercompressor.danfoss.com

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Inverter technology provides an unprecedented temperature control solution for edible fungi plants

- Inverter scroll compressor solution with maximum capacity
- Cooling capacity 13-27 RT (47-94kW)
- Modulation cycles from 25 to 100 RPS

Danfoss inverter scroll technology provides precise temperature control and quality assurance for the three growth phases of edible fungi (cooling phase, growing phase, and fruiting phase).



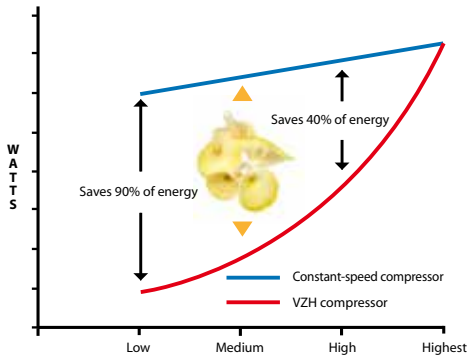
- Improves energy efficiency and easily meets the changing energy requirements
- Stable and precise temperature control (±0.3°C), changes the temperature in accordance with the growing environment of edible fungi.
- Automatically matches with load change (25-100rps), saves adjustment time and reduces operation cost
- Reduces the starting current and force moment, and the smart inverter controller can eliminate the impact on the power grid

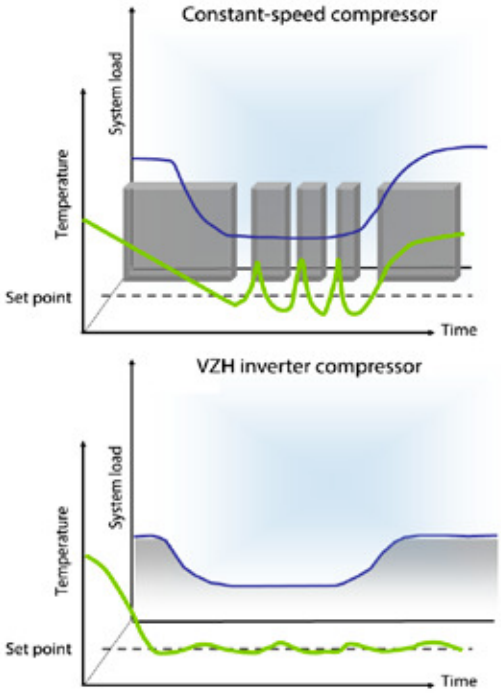
Energy saving:

Energy expense accounts for about 20% to 30% of the total cost of edible fungi production, while Danfoss inverter compressor technology can effectively reduce energy consumption, cut down the cost of production, and automatically match with load change in order to maintain a low temperature and high humidity for the growth of edible fungi.

Precise temperature control:

Changes the pre-set temperature according to the three growth phases of edible fungi so as to meet the changing requirements for temperature during cultivation and provide stable and precise temperature control, consequently, improving the yield and quality of edible fungi.





The inverter scroll compressor not only has a wide range for energy modulation, but can also significantly bring down the starting current, and reduce demands on the power grid. In addition, it is highly reliable, and able to effectively reduce the times of start up and shut down so as to prolong the service life. The inverter provides a series of measures to protect the compressor, such as discharge temperature control and reversion prevention, moreover, it can skip system resonance frequency in an effective way to ensure the continuous and safe operation of the system with lower maintenance costs.

Please contact Danfoss Sales Division for details, and find out the unprecedented advantages from working with the inverter technology leader.