FC 550 frequency converter for Leister blowers

A combination with power.

Leister newly offers a matching frequency converter as an accessory for the ROBUST, SILENCE and ASO blowers. With it you can steplessly adjust the air volume – with a push of the button or remote controlled by a PLC (Programmable Logic Controller). The blower performance can be increased by up to 60%. The results are more efficient processes and therefore lower costs.

Frequency converter's mode of operation

The frequency converter is an electrical unit which is connected to a single-phase main voltage on the input side and generates a three-phase signal with variable frequency on the output side. The rotational speed of a blower is normally constant. It can be steplessly adjusted with a frequency converter.

Higher blower performance

When using a frequency converter, the blower can turn with a higher frequency than that of the power grid. Therefore up to 60% more performance is generated. In certain cases, this can mean that the process is realisable with only one instead of two blowers. Too low or too high a rotational speed can lead to thermal or mechanical damage on the blower. The Leister FC 550 frequency converter is configured so this does not occur.

Optimised processes

Up to now, the air volume was reduced via a mechanical hand controller. With the FC 550 frequency converter it is possible to set the rotational speed exactly to 1 Hz and show it on the built-in display. Different processes require different air volumes. It is possible to control this through a PLC via a 4-20 mA/0-10 V interface. Or you select one of four pre-set frequencies via external relays.

Leister FC 550 frequency converter

Blower ROBUST

Blower SILENCE

Blower ASO

Save valuable energy

The frequency converter can actively restrict the blower to a lower frequency. It replaces the mechanical air cut-off in certain cases. This has the advantage that a minimal air volume is maintained for the air heaters. The air volume is minimised in the shortest possible time via the external control. The heating performance in the air heater can be switched off, which saves lot of valuable energy.

Versatile application possibilities

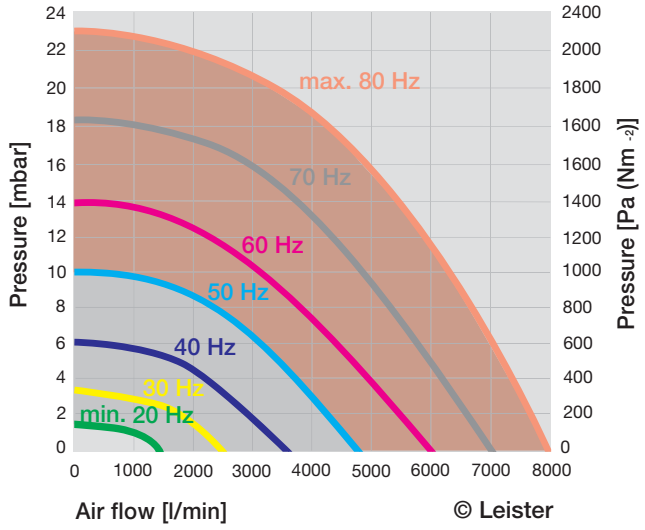
Leister hot air systems have been used for decades in shrinking processes in the packaging industry or for hardening of glues, for example. As versatile as the applications, as demanding are the requirements of the systems. Leister hot air systems prove themselves by drying of tags or baking of paint layers just as well as by sterilisation of test needles or by glazing of pills, dragées and sweets.

System partner for complete solutions

Air heaters, blowers, hot air blowers, temperature controllers and nozzles: As a system partner, Leister Process Technologies offers all necessary components from one source to its customers. With their simple construction, the hot air components are excellently suited for problem-free integration in machines and systems.

Flexible air heater

The performance range of the Leister air heaters lies between 400 W and 40 kW, and a maximum air temperature of 900°C is possible. The units of the new LHS air heater series have integrated heating element protection and an alarm output. They can be connected to a temperature-controller or a PLC via an electrically isolated 4 – 20 mA / 0-10V interface.



Increased efficiency with the FC 550 from the SILENCE blower (Base main frequency 50 Hz).

World market leader

Leister Process Technologies has a global network of more than 120 sales and service centres in over 60 countries and is the world market leader.

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