

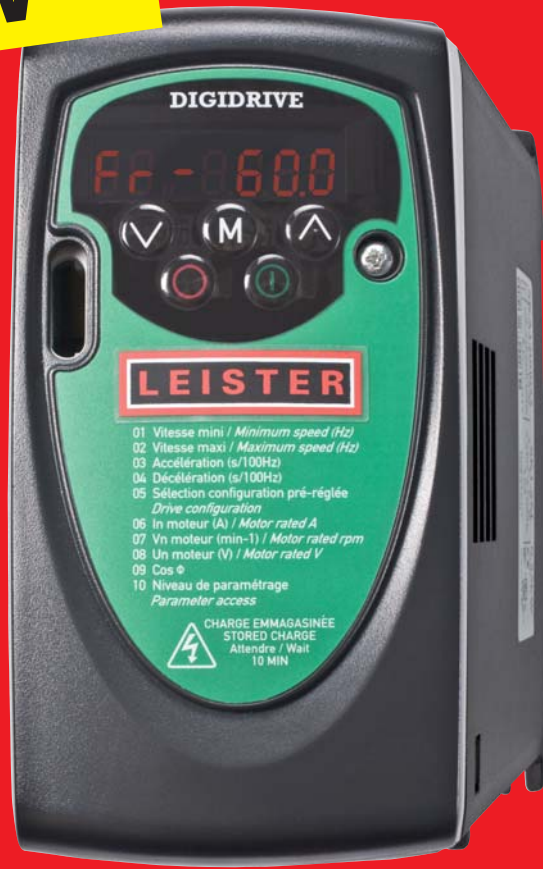
LEISTER

PROCESS HEAT

NEW

Frequency converter
for Leister blowers.

More power,
variable air volume,
controllable via
remote control.



SILENCE

ROBUST

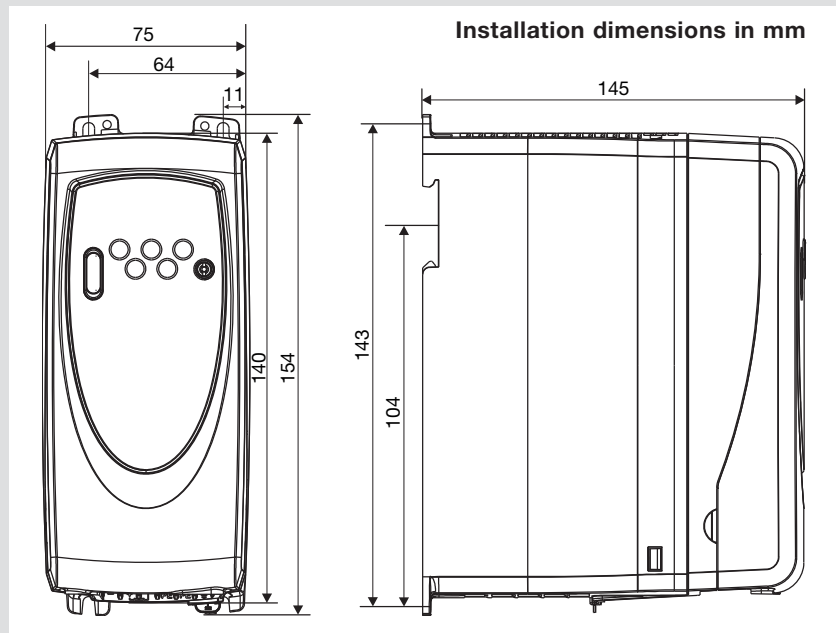
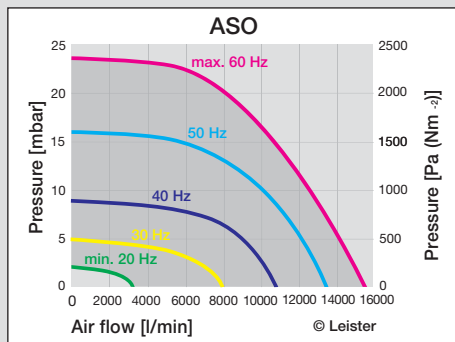
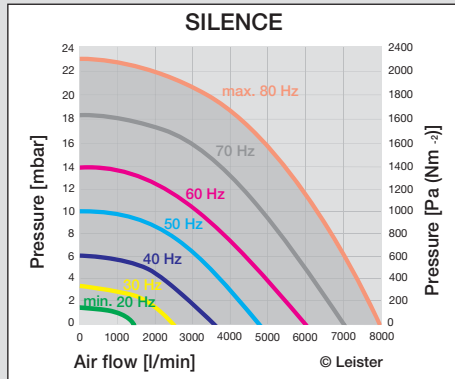
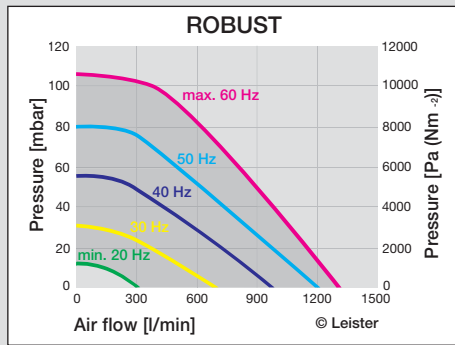


ASO



Benefit of frequency converter with Leister blowers

- Better hot air processes** Because air volume and heating performance can be set independently, precisely and reproducibly from each other.
- Up to 60% higher blower performance** Because the frequency converter lets the blower turn faster than the mains frequency (see diagram below).
- Lower system costs** Smaller and cheaper blowers can be used or fewer blowers will be necessary, because multiple air heaters can be connected to a blower.
- Easy to integrate in the controller** By the remote control interface 4-20mA/0-10V or by fixed set values (up to 4) via clamp contacts.
- Air supply controller** Active braking function enables quick air volume changes, i.e. for timed systems.
- Save energy – heat only when necessary** There are timed processes, where hot air is necessary within a clearly defined time window. For the rest of the time, the air volume can be minimised and the heating performance switched off.
- Simple plug & play installation** The frequency converter is already configured for operation with Leister blowers.
- Secure** Integrated current monitoring and a built-in motor protection switch protect the blower.
- Elimination of the motor condensator** This function is already integrated in the frequency converter.



Technical Data

Input voltage	V~	1 x 200 – 240 VAC
Max. blower rated power	W	550
Frequency	Hz	50 / 60
Typical input current at full load	A	8.1
Output rated power (100%)	A	3.0
Weight	kg	1.0
Mark of conformity		CE UL
Protection classe I		⊕

Article No. 117.359 frequency converter FC 550

Flyer FC 550 / ENG / 02.2008

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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

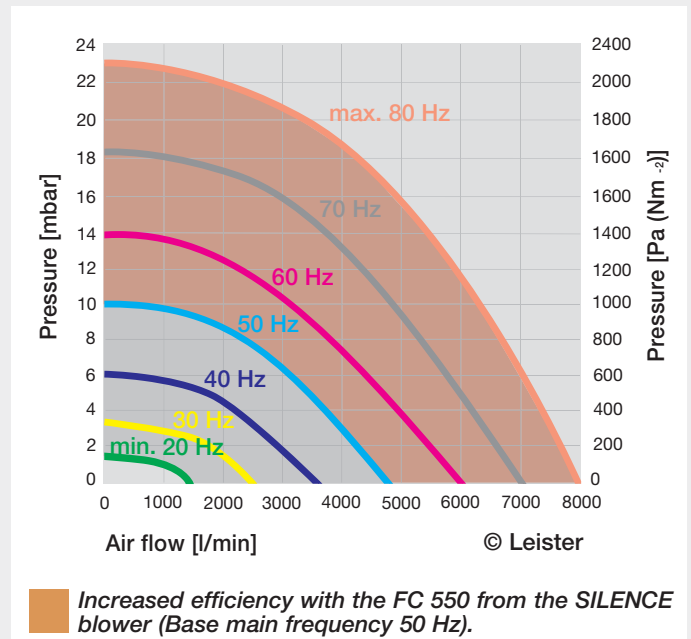
Leister hot air systems have been used for decades in shrinking processes in the packaging industry or for hardening of glues, for example. As versatile as the applications, as demanding are the requirements of the systems. Leister hot air systems prove themselves by drying of tags or baking of paint 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.

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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