

SILENSYS (A1 & ADVANCED A2L) condensing units

Force an EC fan to maximum speed

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SILENSYS are equipped with a fan speed variation system as standard.

SILENSYS is equipped with 2 types of fan technology.

1) **Prerequisite: How to differentiate an AC (Alternating Current) fan from an EC (Electronically Commutated) fan on SILENSYS.**

The number of cables connected to the fan motor differentiates them:

- **AC (Alternating Current) technology fans with a single cable :** This is dedicated to the fan's power supply (Ph + N + Ground). Speed variation is achieved directly by lowering the supply voltage.
- **EC (Electronically Commutated) technology fans have 2 cables :** 1 dedicated to the 220V power supply (Ph + N + Ground), a 2nd cable dedicated to 0-10V DC speed variation (2 wires for 0-10V DC + 1 wire for speed signal feedback between 0 and 10V DC).

SILENSYS models equipped with EC fan		
	SILENSYS A1	SILENSYS A2L
Low temperature commercial	From SILFH(V)2511Z	From SILFH2480P
High temperature commercial	From SILFH(V)4524Z (or P) & SILFH(V)4518Y (or N)	From SILFH4524P & SILFH4518N

2) EC TECHNOLOGY: How variable speed drives work

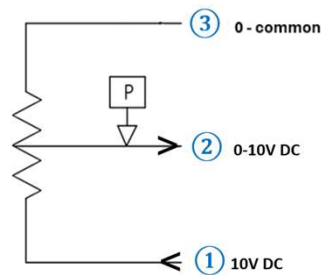
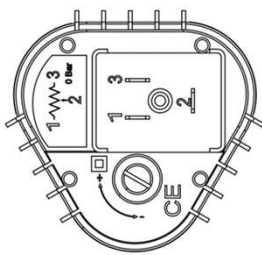
The EC fan's electronic board generates a 10V DC voltage for use in controlling its speed.

The speed controller receives this 10V DC via the wire connected to terminal 1 (see diagram below).

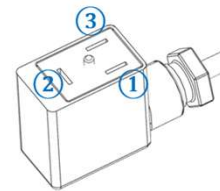
Depending on HP pressure, the drive will output a voltage of between 0 and 10V DC via the control signal wire (item 2).

0V DC = zero speed, 10V DC = 100% speed.

Pressostatic
variable speed drive



Fan connector



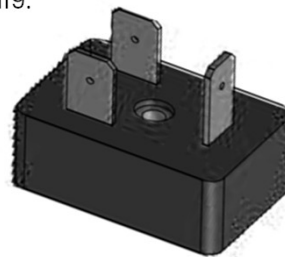
3) Force speed to 100%



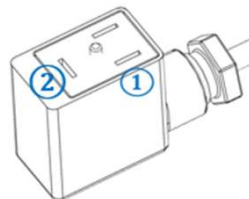
Important for safety : all the operations described below must be carried out by qualified personnel and on an installation that has been secured and de-energized beforehand.

- Switch off the power supply to the condensing unit and lock it out.
- Disconnect the pressostatic drive connector.
- To force fan speed to 100%, use shunt 8350119.

Shunt 8350119



This shunt bridges the +10V DC terminal (item ①) with the speed control signal terminal (item ②) as shown in the diagram below. .



Please disregard the markings engraved on the connector, as they may vary from one supplier to another. Consider only the markings indicated on this note, which correspond to the markings indicated on the speed controller and on the SILENSYS wiring diagram.



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