24 VDC power supply
DHDR8-24/36

Multifunctional duct transmitter
DSVCF-R

Frequency inverter
FI-E13023E2

AC fan
induction motor

230 VAC/50-60 Hz

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PE

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PE

Solution details

The fan speed will be controlled based on the duct air quality level.
The air quality setpoint can be adjusted via freqency inverter keypad. Parameter (P45 PI digital setpoint).
TK or PTC monitoring for thermal motor protection.
If the motor features PTC, adjust parameter 47 in the frequency inverter towards 'Ptc-th'

Suited for motor type:	230 VAC three phase induction motors with TK or PTC thermal motor protection
Motor control:	Demand controlled ventilation in function of the indoor air quality
Minimum motor speed:	Make sure that the minimum voltage remains high enough to avoid stalling of the motor.
Maximum motor current:	2,3 A

Set freqency inverter parameters:
P02=10 P12=5
P15=14 P43=1
P30=Auto-0

⚠ Consult the fan manufacturer for the correct wiring

Sentera products

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External products

AC fan with an induction motor Imax 2,3 A

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