

1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

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2024-02

Flexit SAT LVEC 100

• WITH LOCAL DEMAND CONTROL

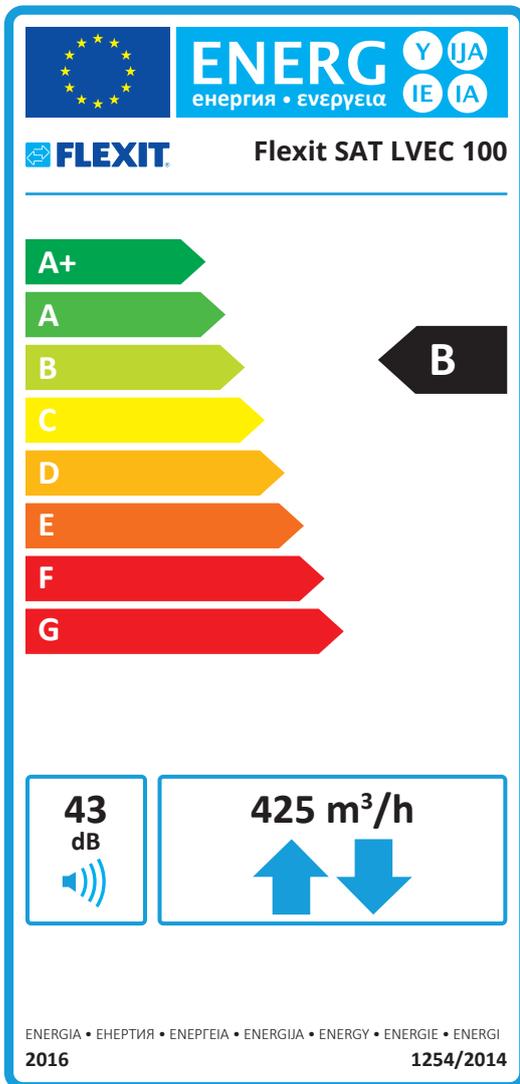
CTRL 0,65

LOCAL DEMAND CONTROL

Sensor control for different zones

Accessories: Control panel + controller + pressure sensor + CO₂-sensor/humidistat + damper

Result: Increased air flow rate in zones that need it



a)	Name or trade mark:	Flexit
b)	Model identifier:	LVEC 100 Art.nr. 120390
c)	Specific energy consumption (SEC): $SEC = t_a \cdot p_{ef} \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net}) \cdot CTRL \cdot MISC \cdot (1 - \eta_t) + Q_{defr}$	Cold -53,9 kWh/m ² and years Average -26,8 kWh/m ² and years Warm -11,3 kWh/m ² and years
d)	Typology:	Unidirectional ventilation unit for residential
e)	Drive:	Variable speed drive (X=2,0)
f)	Heat recovery system:	n.a
g)	Thermal efficiency (EN 13141-7):	n.a
h)	Maximum flow rate:	425 m ³ /h (0,1181 m ³ /s)
i)	Electric power input of the drive:	87 W
j)	Sound power level (Lw(A)):	43 dB(A)
k)	Reference flow rate:	0,0826 m ³ /s (297 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,111 W/(m ³ /h)
n)	Control factor and control typology:	0,65
o)	Leakage:	External leakage: 2 % n.a
p)	Mixing rate:	n.a
q)	Filter warning:	n.a
r)	For unidirectional ventilation systems:	www.flexit.com
s)	Pre-/dis-assembly instructions:	www.flexit.com
t)	For non-ducted units: Pressure variations	n.a
u)	For non-ducted units: Air tightness	n.a
v)	The annual electricity consumption: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	587 kWh/100m ² and years
w)	The annual heating saved: $AHS = t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net}) \cdot CTRL \cdot MISC \cdot (1 - \eta_t)$	Cold 55,4 kWh/year Average 28,3 kWh/year Warm 12,8 kWh/year

This document describes:

COMMISSION REGULATION (EU) No 1253/2014 of 7 July 2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for ventilation units.

COMMISSION DELEGATED REGULATION (EU) No 1254/2014 of 11 July 2014 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of residential ventilation units.

) Ref. 1253/2014 and 1254/2014

*In order to achieve the optimal indoor climate it is crucial to change filter on a regular basis. This will also result in better economy and less noise compared with clogged.

Flexit SAT LVEC 100

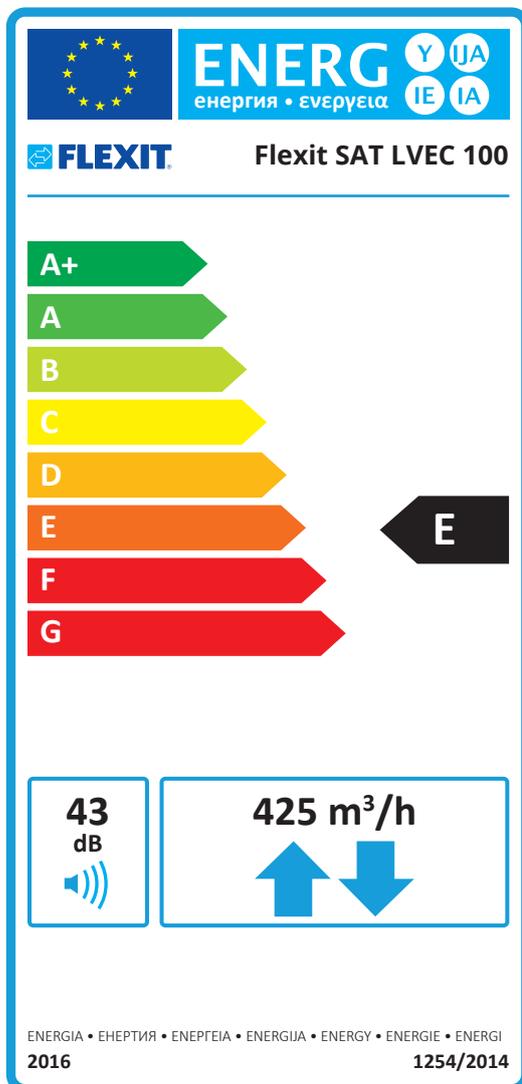
• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Accessories: Control panel SAT EC + force timer + humidistat

Result: Increased air flow for whole building



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FLEXIT Flexit SAT LVEC 100

A+
A
B
C
D
E ←
F
G

43 dB

425 m³/h

ENERGIA • ЕНЕРГИЯ • ΕΝΕΡΓΕΙΑ • ENERGIJA • ENERGY • ENERGIE • ENERGI
2016 1254/2014

a)	Name or trade mark:	Flexit
b)	Model identifier:	LVEC 100 Art.nr. 120390
c)	Specific energy consumption (SEC): $SEC = t_a \cdot p_{ef} \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net}) \cdot CTRL \cdot MISC \cdot (1 - \eta_t) + Q_{defr}$	Cold -30,1 kWh/m ² and years Average -13,7 kWh/m ² and years Warm -4,3 kWh/m ² and years
d)	Typology:	Unidirectional ventilation unit for residential
e)	Drive:	Variable speed drive (X=2,0)
f)	Heat recovery system:	n.a
g)	Thermal efficiency (EN 13141-7):	n.a
h)	Maximum flow rate:	425 m ³ /h (0,1181 m ³ /s)
i)	Electric power input of the drive:	87 W
j)	Sound power level (Lw(A)):	43 dB(A)
k)	Reference flow rate:	0,0826 m ³ /s (297 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,111 W/(m ³ /h)
n)	Control factor and control typology:	0,65
o)	Leakage:	External leakage: 2 % n.a
p)	Mixing rate:	n.a
q)	Filter warning:	n.a
r)	For unidirectional ventilation systems:	www.flexit.com
s)	Pre-/dis-assembly instructions:	www.flexit.com
t)	For non-ducted units: Pressure variations	n.a
u)	For non-ducted units: Air tightness	n.a
v)	The annual electricity consumption: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	1 390 kWh/100m ² and years
w)	The annual heating saved: $AHS = t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net}) \cdot CTRL \cdot MISC \cdot (1 - \eta_t)$	Cold 33,6 kWh/year Average 17,2 kWh/year Warm 7,8 kWh/year

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