

1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115336EN-03
2020-06

Flexit UNI 3

• WITH LOCAL DEMAND CONTROL

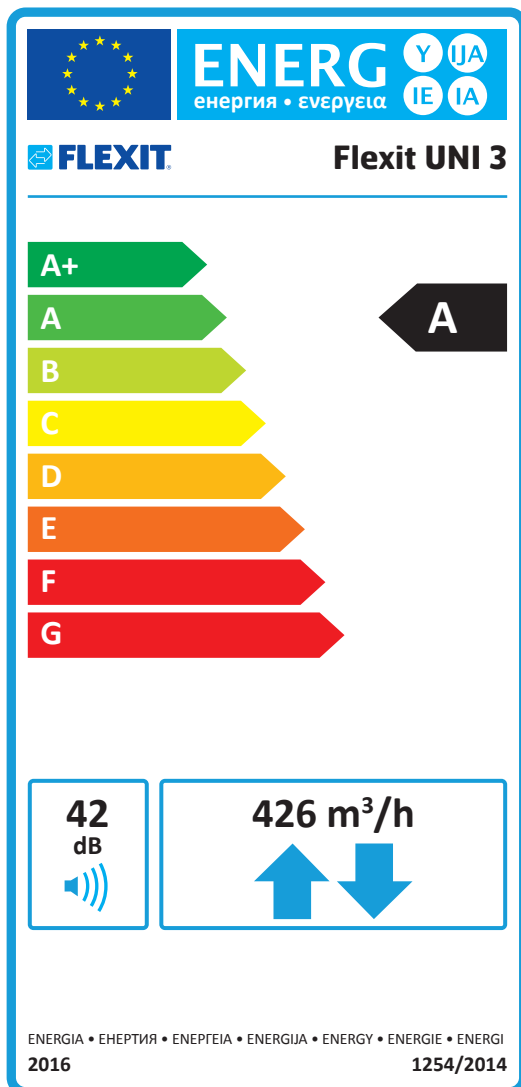
CTRL 0,65

LOCAL DEMAND CONTROL

Sensor control for different zones

Accessories: Advanced panel + CO₂-sensor/
motion sensor + damper

Result: Increased air flow rate in zones that need it



a)	Name or trade mark:	Flexit
b)	Model identifier:	UNI3 RER EC Art.no. 700040 UNI3 REL EC Art.no. 700041 UNI3 R R EC Art.no. 700042 UNI3 R L EC Art.no. 700043
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 -84,1 kWh/m ² and years Average -40,6 kWh/m ² and years Warm -15,6 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Variable speed drive (X=2,0)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	83%
h)	Maximum flow rate:	426 m ³ /h
i)	Electric power input of the drive:	205 W
j)	Sound power level (L _w (A)):	42 dB(A)
k)	Reference flow rate:	0,0828 m ³ /s (298 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,30 W/(m ³ /h)
n)	Control factor and control typology:	0,65
o)	Leakage:	External leakage: 2 % Internal leakage: 5 %
p)	Mixing rate:	n.a
q)	Filter warning:	Filter warning indicated on the control panel. *
r)	For unidirectional ventilation systems:	n.a
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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	197 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 8898 kWh/year Average 4548 kWh/year Warm 2057 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.

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Flexit UNI 3

• WITH CENTRAL DEMAND CONTROL

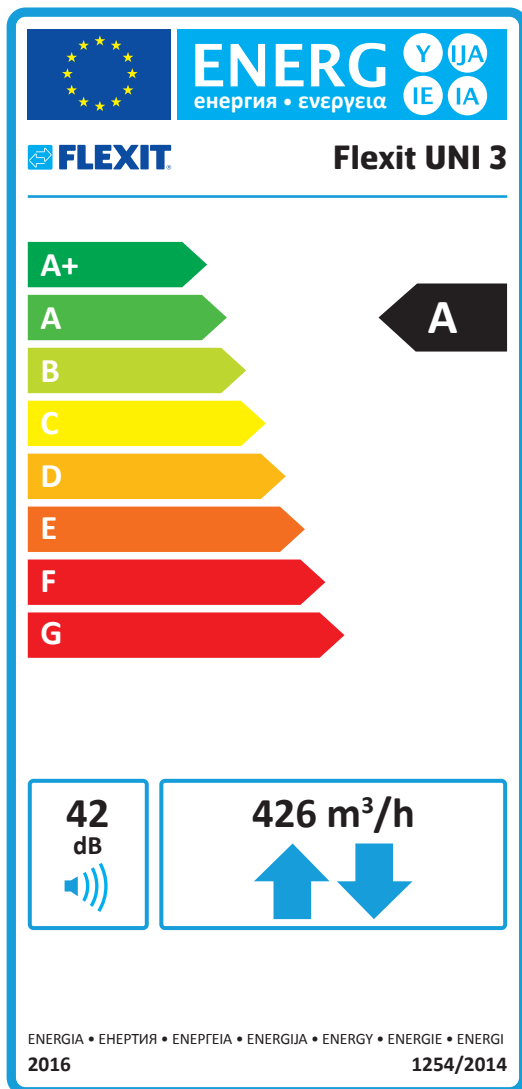
CTRL 0,85

CENTRAL DEMAND CONTROL

Sensor control for part of/whole building

Accessories: Advanced panel + CO₂-sensor/
motion sensor

Result: Increased air flow for whole building



The image shows the energy label for the Flexit UNI 3 ventilation unit. It features the European Union flag and the 'ENERG' logo in multiple languages. The energy efficiency class is 'A', indicated by a black arrow pointing to the 'A' bar on the scale. The sound power level is 42 dB, and the maximum flow rate is 426 m³/h. The label also includes the Flexit logo and the product name 'Flexit UNI 3'. At the bottom, it lists the applicable regulations: ENERIGIA • ЕНЕРГИЯ • ΕΝΕΡΓΕΙΑ • ENERGIJA • ENERGY • ENERGIE • ENERGI 2016 and 1254/2014.

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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 -79,5 kWh/m ² and years Average -37 kWh/m ² and years Warm -12,7 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Variable speed drive (X=2,0)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	83%
h)	Maximum flow rate:	426 m ³ /h
i)	Electric power input of the drive:	205 W
j)	Sound power level (L _w (A)):	42 dB(A)
k)	Reference flow rate:	0,0828 m ³ /s (298 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,30 W/(m ³ /h)
n)	Control factor and control typology:	0,85
o)	Leakage:	External leakage: 2 % Internal leakage: 5 %
p)	Mixing rate:	n.a
q)	Filter warning:	Filter warning indicated on the control panel. *
r)	For unidirectional ventilation systems:	n.a
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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	295 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 8686 kWh/year Average 4440 kWh/year Warm 2008 kWh/year

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Flexit UNI 3

• WITH TIMER

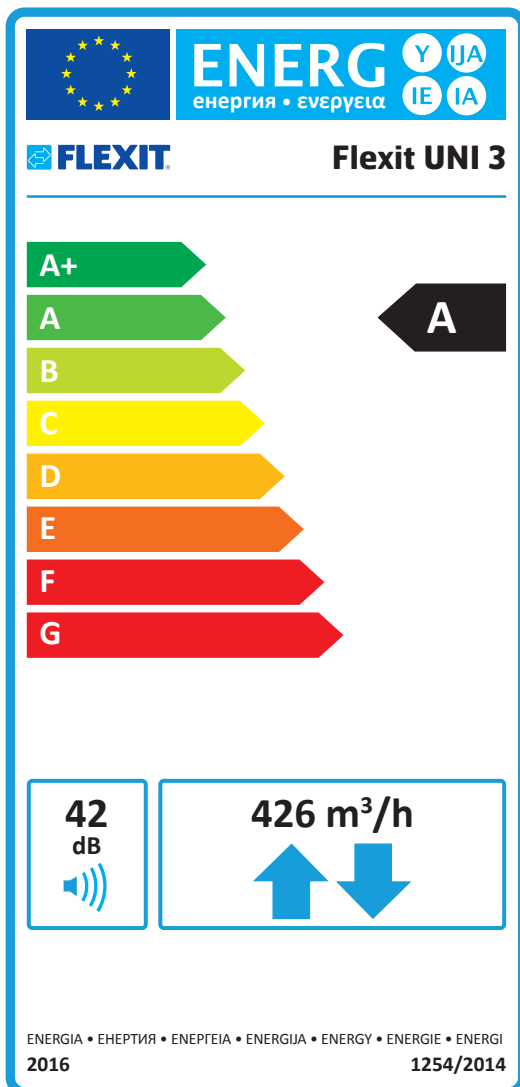
CTRL 0,95

TIMER

Timer control

Accessories: Advanced panel

Result: Increased air flow for whole building



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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 -77,1 kWh/m ² and years Average -35,2 kWh/m ² and years Warm -11,1 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Multi-speed drive (X=1,5)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	83%
h)	Maximum flow rate:	426 m ³ /h
i)	Electric power input of the drive:	205 W
j)	Sound power level (L _w (A)):	42 dB(A)
k)	Reference flow rate:	0,0828 m ³ /s (298 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,30 W/(m ³ /h)
n)	Control factor and control typology:	0,95
o)	Leakage:	External leakage: 2 % Internal leakage: 5 %
p)	Mixing rate:	n.a
q)	Filter warning:	Filter warning indicated on the control panel. *
r)	For unidirectional ventilation systems:	n.a
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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	348 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 8580 kWh/year Average 4386 kWh/year Warm 1983 kWh/year

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Flexit UNI 3

• WITH MANUAL CONTROL

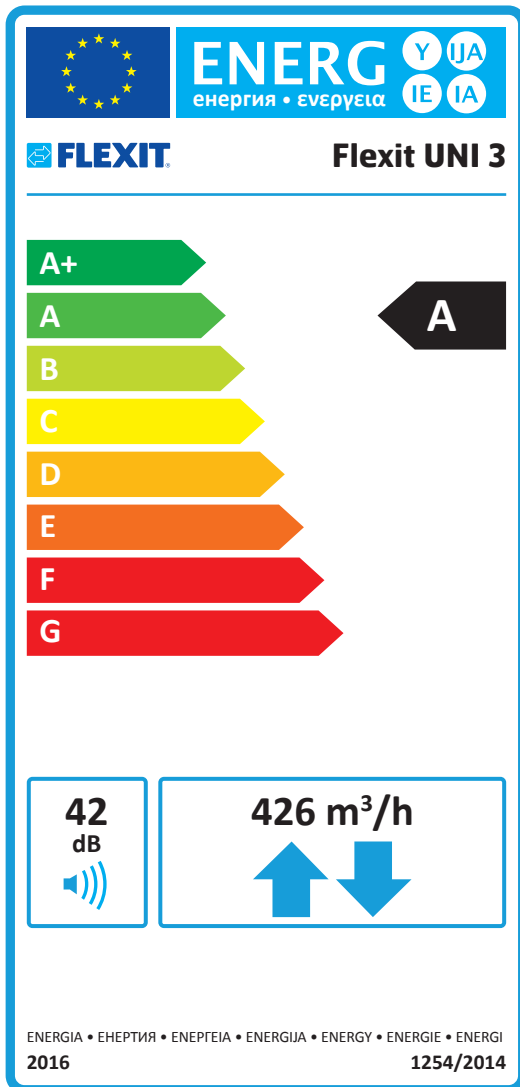
CTRL 1

MANUAL CONTROL

Forcing switch control

Accessories: Basic/advanced panel

Result: Increased air flow for whole building



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d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Multi-speed drive (X=1,5)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	83%
h)	Maximum flow rate:	426 m ³ /h
i)	Electric power input of the drive:	205 W
j)	Sound power level (L _w (A)):	42 dB(A)
k)	Reference flow rate:	0,0828 m ³ /s (298 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,30 W/(m ³ /h)
n)	Control factor and control typology:	1,0
o)	Leakage:	External leakage: 2 % Internal leakage: 5 %
p)	Mixing rate:	n.a
q)	Filter warning:	Filter warning indicated on the control panel. *
r)	For unidirectional ventilation systems:	n.a
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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	376 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 8527 kWh/year Average 4359 kWh/year Warm 1971 kWh/year

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