

1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115335EN-03
2016-03

Flexit UNI 2

• WITH LOCAL DEMAND CONTROL

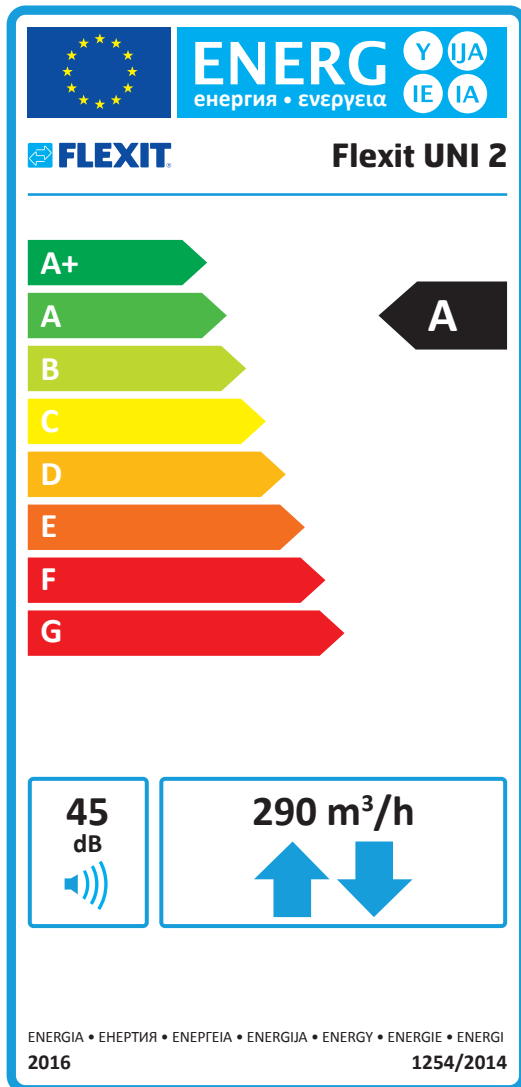
CTRL 0,65

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:	UNI2 RER EC Art.no. 700084 UNI2 REL EC Art.no. 700085 UNI2 R R EC Art.no. 700086 UNI2 R L EC Art.no. 700087 UNI2 RER EC 350W Art.no. 700088 UNI2 REL EC 350W Art.no. 700089
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 -79,4 kWh/m ² and years Average -37,5 kWh/m ² and years Warm -13,5 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Multi-speed drive
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	75%
h)	Maximum flow rate:	290 m ³ /h
i)	Electric power input of the drive:	87+62+2=151 W
j)	Sound power level (L _w (A)):	45 dB(A)
k)	Reference flow rate:	0,0611 m ³ /s (220m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	(1,39/3600*1000) = 0,386 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.no
t)	For non-ducted units: Pressure variations	n.a
u)	For non-ducted units: Air tightness	n.a
v)	The annual electricity consumption: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	2,527 kWh/100m ³ 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 85,7 kWh/year Average 43,8 kWh/year Warm 19,8 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.

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Flexit UNI 2

• WITH CENTRAL DEMAND CONTROL

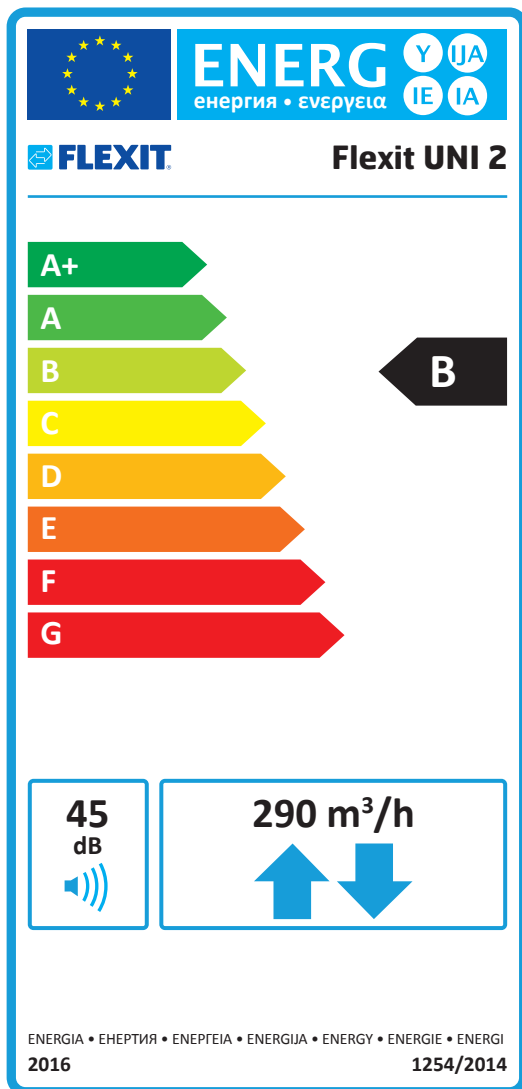
CTRL 0,85

CENTRAL DEMAND CONTROL

Sensor control for part of/whole building

Accessories: Advanced panel + CO₂-sensor/
motion sensor

Result: Increased air flow for whole building



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c)	Specific energy consumption (SEC): $SEC = t_a \cdot p_{ef} \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1 - \eta_i)) + Q_{defr}$	Cold -73,2 kWh/m ² and years Average -32,8 kWh/m ² and years Warm -9,7 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Multi-speed drive
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	75%
h)	Maximum flow rate:	290 m ³ /h
i)	Electric power input of the drive:	87+62+2=151 W
j)	Sound power level (L _w (A)):	45 dB(A)
k)	Reference flow rate:	0,0611 m ³ /s (220m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	(1,39/3600*1000) = 0,386 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.no
t)	For non-ducted units: Pressure variations	n.a
u)	For non-ducted units: Air tightness	n.a
v)	The annual electricity consumption: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	3,77 kWh/100m ³ and years
w)	The annual heating saved: $AHS = t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1 - \eta_i))$	Cold 82,6 kWh/year Average 42,2 kWh/year Warm 19,1 kWh/year

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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

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Flexit UNI 2

• WITH TIMER

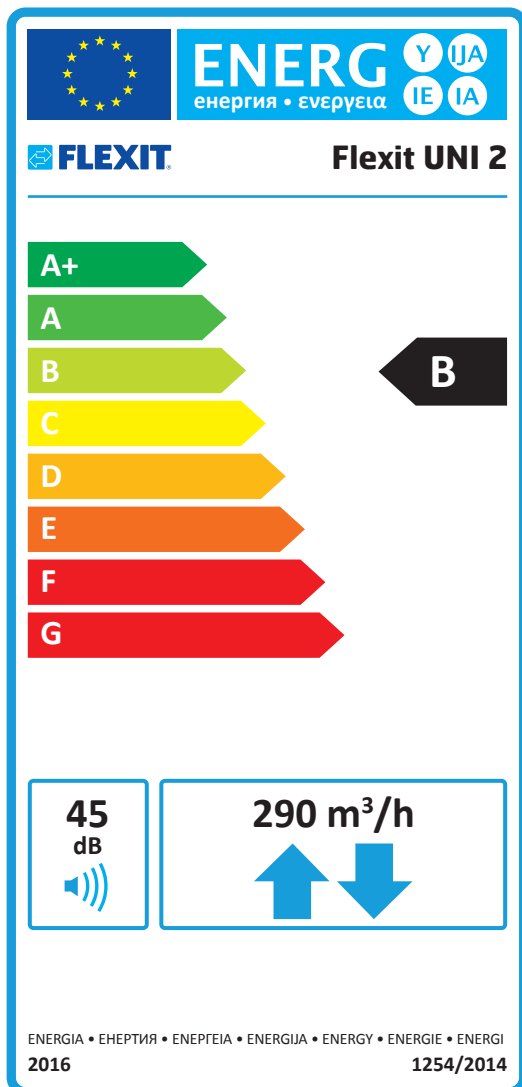
CTRL 0,95

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 -69,9 kWh/m² and years Average -30,3 kWh/m² and years Warm -7,6 kWh/m² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Multi-speed drive
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	75%
h)	Maximum flow rate:	290 m³/h
i)	Electric power input of the drive:	87+62+2=151 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0611 m³/s (220m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	$(1,39/3600 \cdot 1000) = 0,386 \text{ W}/(\text{m}^3/\text{h})$
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.no
t)	For non-ducted units: Pressure variations	n.a
u)	For non-ducted units: Air tightness	n.a
v)	The annual electricity consumption: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	4,46 kWh/100m³ 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 81 kWh/year Average 41,4 kWh/year Warm 18,7 kWh/year

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) Ref. 1253/2014 and 1254/2014

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1254/2014 Energy labelling regulation

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Flexit UNI 2

• WITH MANUAL CONTROL

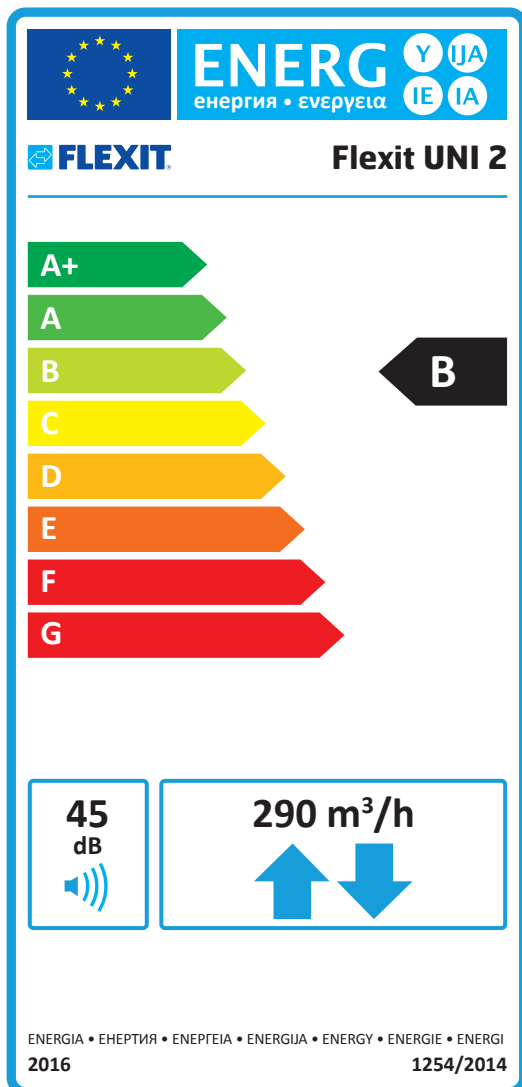
CTRL 1

MANUAL CONTROL

Forcing switch control

Accessories: Basic/advanced panel

Result: Increased air flow for whole building



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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 -68,2 kWh/m² and years Average -29 kWh/m² and years Warm -6,5 kWh/m² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Multi-speed drive
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (component):	75%
h)	Maximum flow rate:	290 m³/h
i)	Electric power input of the drive:	87+62+2=151 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0611 m³/s (220m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	$(1,39/3600 \cdot 1000) = 0,386 \text{ W}/(\text{m}^3/\text{h})$
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.no
t)	For non-ducted units: Pressure variations	n.a
u)	For non-ducted units: Air tightness	n.a
v)	The annual electricity consumption: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	4,82 kWh/100m³ 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 80,3 kWh/year Average 41 kWh/year Warm 18,6 kWh/year

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