1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115337EN-06
2023-09

Flexit UNI 4

• WITH LOCAL DEMAND CONTROL

CTRL 0,65

LOCAL DEMAND CONTROL

Sensor control for different zones
Accessories: Advanced panel + CO_2-sensor/ motion sensor + damper
Result: Increased air flow rate in zones that need it

Energy class: **A**

a)	Name or trade mark:	Flexit
b)	Model identifier:	UNI4 REL EC Art.no. 700061 UNI4 R L EC Art.no. 700063
c)	Specific energy consumption (SEC): $SEC = t_a \cdot pef \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1-\eta_t)) + Q_{defr}$	Cold -83,1 kWh/m² and years Average -39,6 kWh/m² and years Warm -14,7 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):	83%
h)	Maximum flow rate:	662 m³/h (0,1839 m³/s)
i)	Electric power input of the drive:	340 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,1286 m³/s (463m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,36 W/(m³/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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	236 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 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 4

• WITH CENTRAL DEMAND CONTROL

CTRL 0,85

CENTRAL DEMAND CONTROL

Sensor control for part of/whole building
Accessories: Advanced panel + CO_2-sensor/ motion sensor
Result: Increased air flow for whole building

Energy class: **A**

a)	Name or trade mark:	Flexit
b)	Model identifier:	UNI4 REL EC Art.no. 700061 UNI4 R L EC Art.no. 700063
c)	Specific energy consumption (SEC): $SEC = t_a \cdot pef \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1-\eta_t)) + Q_{defr}$	Cold -78 kWh/m² and years Average -35,6 kWh/m² and years Warm -11,2 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):	83%
h)	Maximum flow rate:	662 m³/h (0,1839 m³/s)
i)	Electric power input of the drive:	340 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,1286 m³/s (463m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,36 W/(m³/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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	353 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 8686 kWh/year Average 4440 kWh/year Warm 2008 kWh/year

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2023-09

Flexit UNI 4

• WITH TIMER

CTRL 0,95

TIMER

Timer control
Accessories: Advanced panel
Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	UNI4 REL EC Art.no. 700061 UNI4 R L EC Art.no. 700063
c)	Specific energy consumption (SEC): $SEC = t_a \cdot pef \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1-\eta_t)) + Q_{defr}$	Cold -75,4 kWh/m² and years Average -33,4 kWh/m² and years Warm -9,4 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):	83%
h)	Maximum flow rate:	662 m³/h (0,1839 m³/s)
i)	Electric power input of the drive:	340 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,1286 m³/s (463m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,36 W/(m³/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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	418 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 8580 kWh/year Average 4386 kWh/year Warm 1983 kWh/year

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Flexit UNI 4

• WITH MANUAL CONTROL

CTRL 1

MANUAL CONTROL

Forcing switch control
Accessories: Basic/advanced panel
Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	UNI4 REL EC Art.no. 700061 UNI4 R L EC Art.no. 700063
c)	Specific energy consumption (SEC): $SEC = t_a \cdot pef \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1-\eta_t)) + Q_{defr}$	Cold -74 kWh/m² and years Average -32,3 kWh/m² and years Warm -8,4 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):	83%
h)	Maximum flow rate:	662 m³/h (0,1839 m³/s)
i)	Electric power input of the drive:	340 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,1286 m³/s (463m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,36 W/(m³/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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	451 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 8527 kWh/year Average 4359 kWh/year Warm 1971 kWh/year

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