

Flexit Nordic KS3

• WITH LOCAL DEMAND CONTROL

CTRL 0,65

LOCAL DEMAND CONTROL

Sensor control for different zones

Accessories: App + CO₂-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:	Nordic KS3 REL Art.no. 800301
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 -81,3 kWh/m ² and years Average -38,6 kWh/m ² and years Warm -14,1 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 (EN 13141-7):	79%
h)	Maximum flow rate:	250 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0487 m ³ /s (175 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	244 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 8736 kWh/year Average 4466 kWh/year Warm 2019 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 Nordic KS3

• CENTRAL DEMAND CONTROL

CTRL 0,85

CENTRAL DEMAND CONTROL

Sensor control for part of/whole building

Accessories: App + CO₂-sensor/motion sensor

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic KS3 REL Art.no. 800301
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 -74,3 kWh/m ² and years Average -32,9 kWh/m ² and years Warm -9,2 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 (EN 13141-7):	79%
h)	Maximum flow rate:	250 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0487 m ³ /s (175 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	417 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 8474 kWh/year Average 4332 kWh/year Warm 1959 kWh/year

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Flexit Nordic KS3

• WITH TIMER

CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic KS3 REL Art.no. 800301
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 -70,1 kWh/m ² and years Average -29,3 kWh/m ² and years Warm -5,9 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 (EN 13141-7):	79%
h)	Maximum flow rate:	250 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0487 m ³ /s (175 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	534 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 8343 kWh/year Average 4265 kWh/year Warm 1929 kWh/year

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Flexit Nordic KS3

• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: NordicPanel/app/CI 78

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic KS3 REL Art.no. 800301
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 -68,4 kWh/m ² and years Average -27,9 kWh/m ² and years Warm -4,7 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 (EN 13141-7):	79%
h)	Maximum flow rate:	250 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0487 m ³ /s (175 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	577 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 8278 kWh/year Average 4232 kWh/year Warm 1913 kWh/year

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Sensor control for different zones

Accessories: App + CO₂-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:	Nordic KS3 RER Art.no. 800300
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 -81,3 kWh/m ² and years Average -38,6 kWh/m ² and years Warm -14,1 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 (EN 13141-7):	79%
h)	Maximum flow rate:	260 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	41 dB(A)
k)	Reference flow rate:	0,0505 m ³ /s (182 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	242 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 8736 kWh/year Average 4466 kWh/year Warm 2019 kWh/year

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• CENTRAL DEMAND CONTROL

CTRL 0,85

CENTRAL DEMAND CONTROL

Sensor control for part of/whole building

Accessories: App + CO₂-sensor/motion sensor

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic KS3 RER Art.no. 800300
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 -74,4 kWh/m ² and years Average -33 kWh/m ² and years Warm -9,2 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 (EN 13141-7):	79%
h)	Maximum flow rate:	260 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	41 dB(A)
k)	Reference flow rate:	0,0505 m ³ /s (182 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	414 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 8474 kWh/year Average 4332 kWh/year Warm 1959 kWh/year

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Flexit Nordic KS3

• WITH TIMER

CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic KS3 RER Art.no. 800300
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 -70,2 kWh/m ² and years Average -29,4 kWh/m ² and years Warm -6 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 (EN 13141-7):	79%
h)	Maximum flow rate:	260 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	41 dB(A)
k)	Reference flow rate:	0,0505 m ³ /s (182 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	531 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 8343 kWh/year Average 4265 kWh/year Warm 1929 kWh/year

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• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: NordicPanel/app/CI 78

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic KS3 RER Art.no. 800300
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 -68,5 kWh/m ² and years Average -28 kWh/m ² and years Warm -4,8 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 (EN 13141-7):	79%
h)	Maximum flow rate:	260 m ³ /h
i)	Electric power input of the drive:	180 W
j)	Sound power level (Lw(A)):	41 dB(A)
k)	Reference flow rate:	0,0505 m ³ /s (182 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,46 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	573 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 8278 kWh/year Average 4232 kWh/year Warm 1913 kWh/year

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