

Flexit Nordic S2

• 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 S2 REL Art.no. 800111 Nordic S2 R L Art.no. 800113
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 -80,7 kWh/m ² and years Average -39 kWh/m ² and years Warm -15,1 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):	74%
h)	Maximum flow rate:	339 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0658 m ³ /s (237 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,350 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	185 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 8533 kWh/years Average 4362 kWh/years Warm 1972 kWh/years

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 S2

• 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: **A**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic S2 REL Art.no. 800111 Nordic S2 R L Art.no. 800113
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 -74,2 kWh/m ² and years Average -34 kWh/m ² and years Warm -11,1 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):	74%
h)	Maximum flow rate:	339 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0658 m ³ /s (237 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,350 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	317 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 8209 kWh/years Average 4196 kWh/years Warm 1898 kWh/years

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Flexit Nordic S2

• 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 S2 REL Art.no. 800111 Nordic S2 R L Art.no. 800113
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 -70,3 kWh/m ² and years Average -31 kWh/m ² and years Warm -8,5 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):	74%
h)	Maximum flow rate:	339 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0658 m ³ /s (237 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,350 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	406 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 8047 kWh/years Average 4114 kWh/years Warm 1860 kWh/years

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Flexit Nordic S2

• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: CI 70/app/CI 78

Result: Increased air flow for whole building

Energy class: **B**

a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic S2 REL Art.no. 800111 Nordic S2 R L Art.no. 800113
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 -68,7 kWh/m ² and years Average -29,8 kWh/m ² and years Warm -7,5 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):	74%
h)	Maximum flow rate:	339 m ³ /h
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j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,0658 m ³ /s (237 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,350 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	438 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 7966 kWh/years Average 4072 kWh/years Warm 1841 kWh/years

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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 S2 RER Art.no. 800110 Nordic S2 R R Art.no. 800112
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 -80,7 kWh/m ² and years Average -39 kWh/m ² and years Warm -15,1 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):	74%
h)	Maximum flow rate:	338 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	41 dB(A)
k)	Reference flow rate:	0,0657 m ³ /s (237 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,350 W/(m ³ /h)
n)	Control factor and control typology:	0,65
o)	Leakage:	External leakage: 2 % Internal leakage: 5 %
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s)	Pre-/dis-assembly instructions:	www.flexit.com
t)	For non-ducted units: Pressure variations	n.a
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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

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Flexit Nordic S2

• WITH TIMER

CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building

Energy class: **B**

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CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: CI 70/app/CI 78

Result: Increased air flow for whole building

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m)	Specific Power Input (SPI):	0,350 W/(m³/h)
n)	Control factor and control typology:	1,0
o)	Leakage:	External leakage: 2 % Internal leakage: 5 %
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