1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

116952EN-01
2018-06

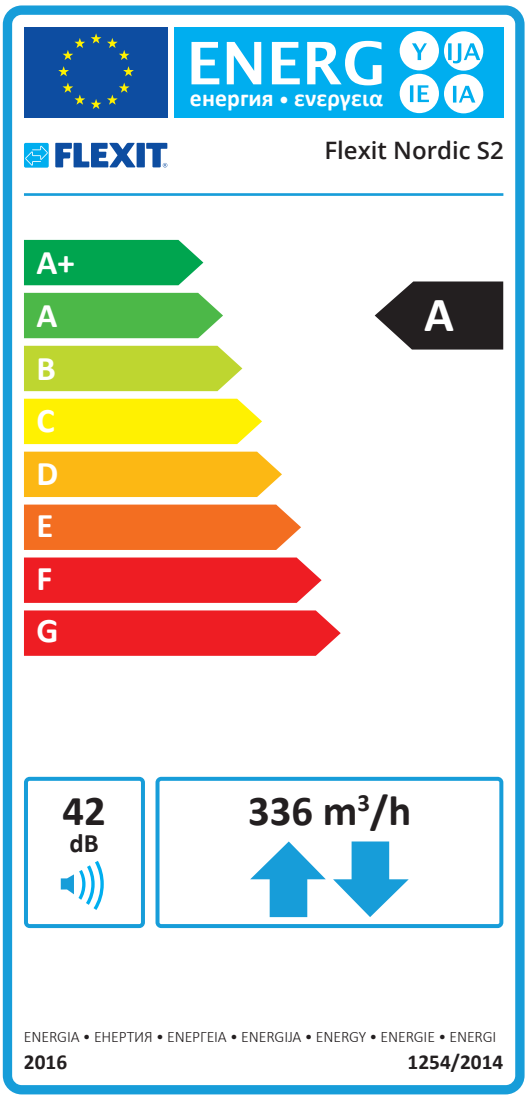
Flexit Nordic S2

• WITH LOCAL DEMAND CONTROL

CTRL 0,65

LOCAL DEMAND CONTROL

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



a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic S2 RER Art.no. 800110 Nordic S2 REL Art.no. 800111 Nordic S2 R R Art.no. 800112 Nordic S2 R L Art.no. 800113
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 -78,4 kWh/m² and years Average -37,3 kWh/m² and years Warm -13,8 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 (EN 13141-7):	71%
h	Maximum flow rate:	336 m³/h
i)	Electric power input of the drive:	88+88+4=180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,065 m³/s (236m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	(1,25/3600*1000)= 0,347 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	227 kWh/100m² 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 8412 kWh/100m² and years Average 4300 kWh/100m² and years Warm 1944 kWh/100m² and 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.

1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

116952EN-01
2018-06

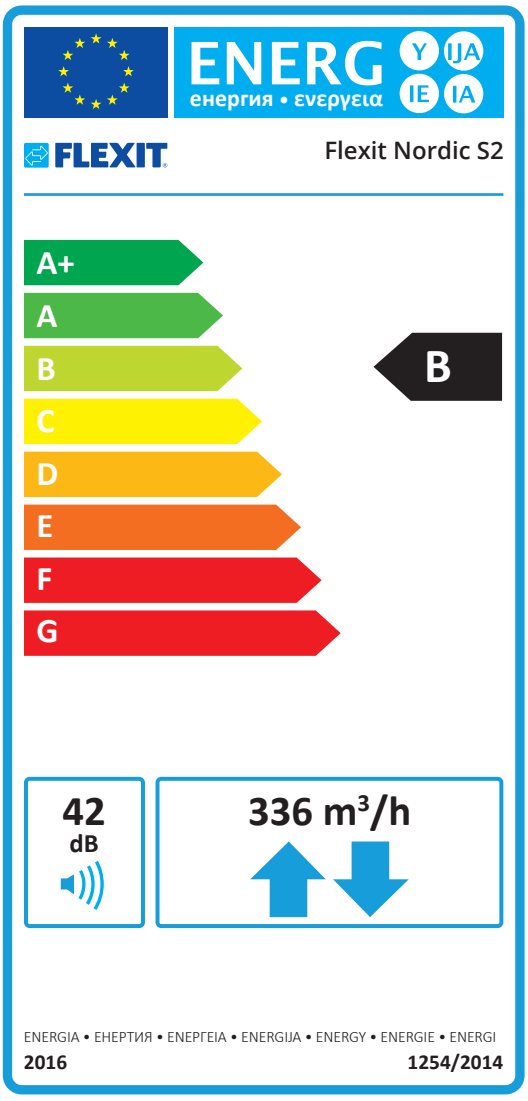
Flexit Nordic S2

• CENTRAL DEMAND CONTROL

CTRL 0,85

CENTRAL DEMAND CONTROL

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



a)	Name or trade mark:	Flexit
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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 -72,0 kWh/m² and years Average -32,7 kWh/m² and years Warm -10,1 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 (EN 13141-7):	71%
h	Maximum flow rate:	336 m³/h
i)	Electric power input of the drive:	88+88+4=180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,065 m³/s (236m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	(1,25/3600*1000)= 0,347 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	340 kWh/100m² 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 8051 kWh/100m² and years Average 4115 kWh/100m² and years Warm 1861 kWh/100m² and years

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1254/2014 Energy labelling regulation

116952EN-01
2018-06

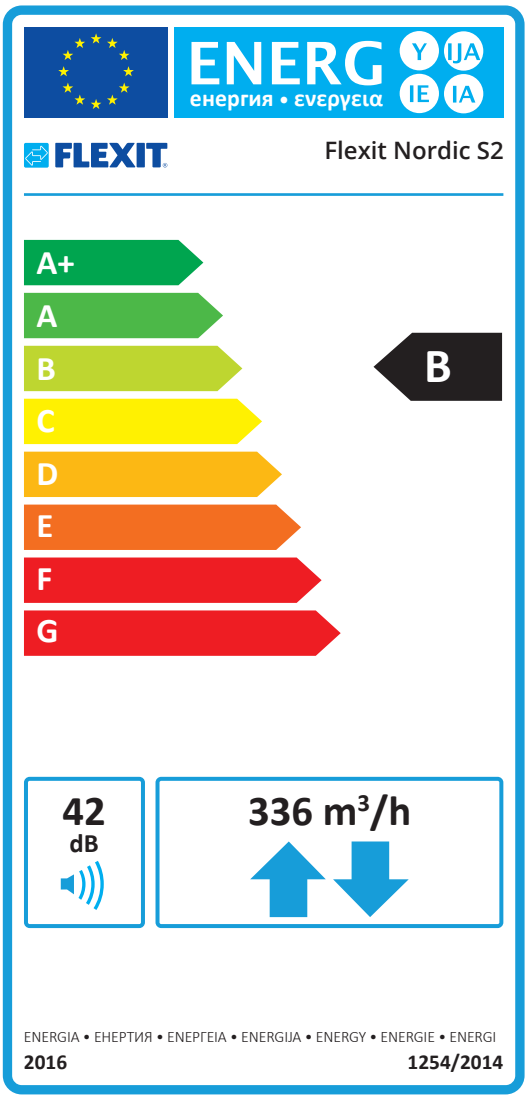
Flexit Nordic S2

• WITH TIMER

CTRL 0,95

TIMER

Timer control
Accessories: App
Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic S2 RER Art.no. 800110 Nordic S2 REL Art.no. 800111 Nordic S2 R R Art.no. 800112 Nordic S2 R L Art.no. 800113
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 -68,7 kWh/m² and years Average -30,2 kWh/m² and years Warm -8,2 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 (EN 13141-7):	71%
h	Maximum flow rate:	336 m³/h
i)	Electric power input of the drive:	88+88+4=180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,065 m³/s (236m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	(1,25/3600*1000)= 0,347 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	402 kWh/100m² 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 7870 kWh/100m² and years Average 4023 kWh/100m² and years Warm 1819 kWh/100m² and years

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1254/2014 Energy labelling regulation

116952EN-01
2018-06

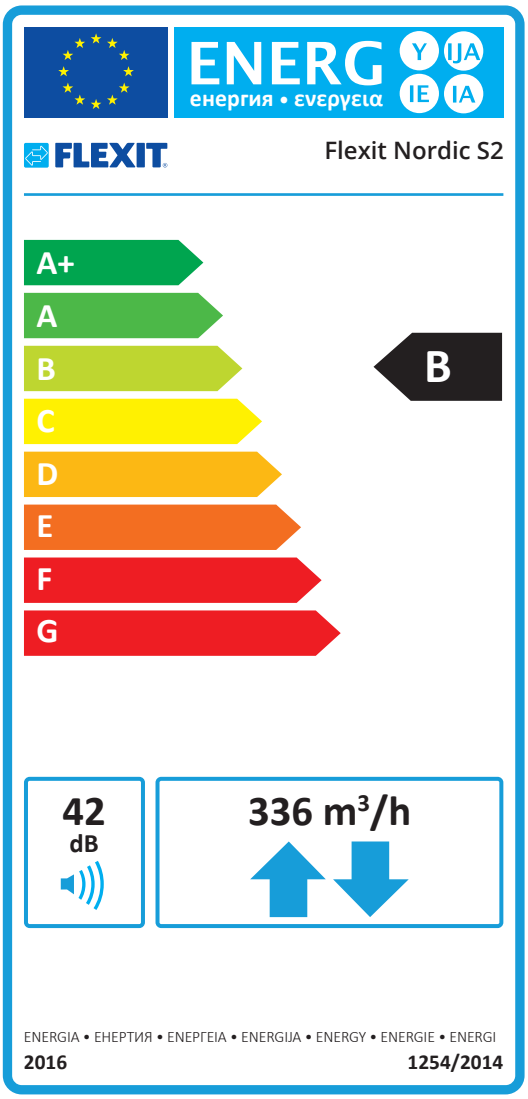
Flexit Nordic S2

• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control
Accessories: CI 70/app/CI 78
Result: Increased air flow for whole building



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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 -67,0 kWh/m² and years Average -28,9 kWh/m² and years Warm -7,1 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 (EN 13141-7):	71%
h	Maximum flow rate:	336 m³/h
i)	Electric power input of the drive:	88+88+4=180 W
j)	Sound power level (Lw(A)):	42 dB(A)
k)	Reference flow rate:	0,065 m³/s (236m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	(1,25/3600*1000)= 0,347 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	434 kWh/100m² 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 7779 kWh/100m² and years Average 3977 kWh/100m² and years Warm 1798 kWh/100m² and years

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