

Flexit Nordic CL2

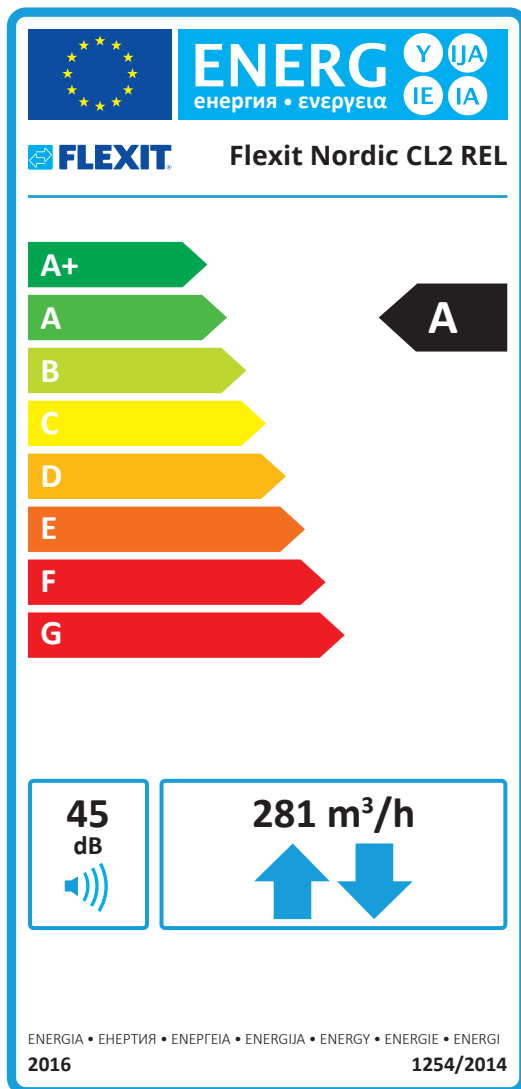
• WITH LOCAL DEMAND CONTROL

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


a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 REL Art.no. 800211
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 -80,6 kWh/m ² and years Average -38,3 kWh/m ² and years Warm -14 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):	77%
h)	Maximum flow rate:	281 m ³ /h
i)	Electric power input of the drive:	177 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0547 m ³ /s (197 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	239 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 8655 kWh/year Average 4424 kWh/year Warm 2001 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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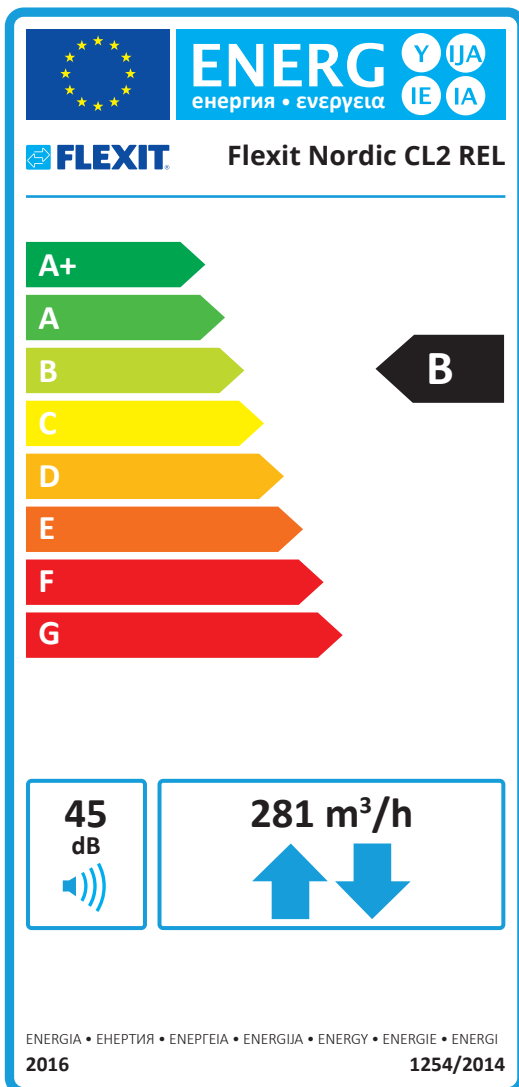
• CENTRAL DEMAND CONTROL

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


a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 REL Art.no. 800211
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 -73,4 kWh/m ² and years Average -32,5 kWh/m ² and years Warm -9,1 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):	77%
h)	Maximum flow rate:	281 m ³ /h
i)	Electric power input of the drive:	177 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0547 m ³ /s (197 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	409 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 8368 kWh/year Average 4278 kWh/year Warm 1934 kWh/year

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) Ref. 1253/2014 and 1254/2014

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Flexit Nordic CL2

• WITH TIMER

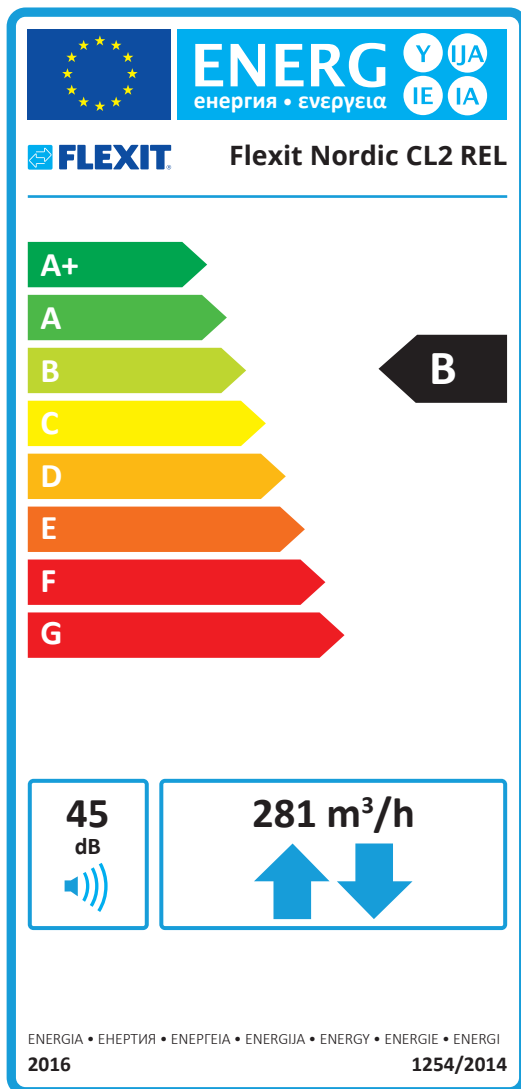
CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 REL Art.no. 800211
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 -69,1 kWh/m ² and years Average -28,9 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):	77%
h)	Maximum flow rate:	281 m ³ /h
i)	Electric power input of the drive:	177 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0547 m ³ /s (197 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	525 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 8225 kWh/year Average 4209 kWh/year Warm 1901 kWh/year

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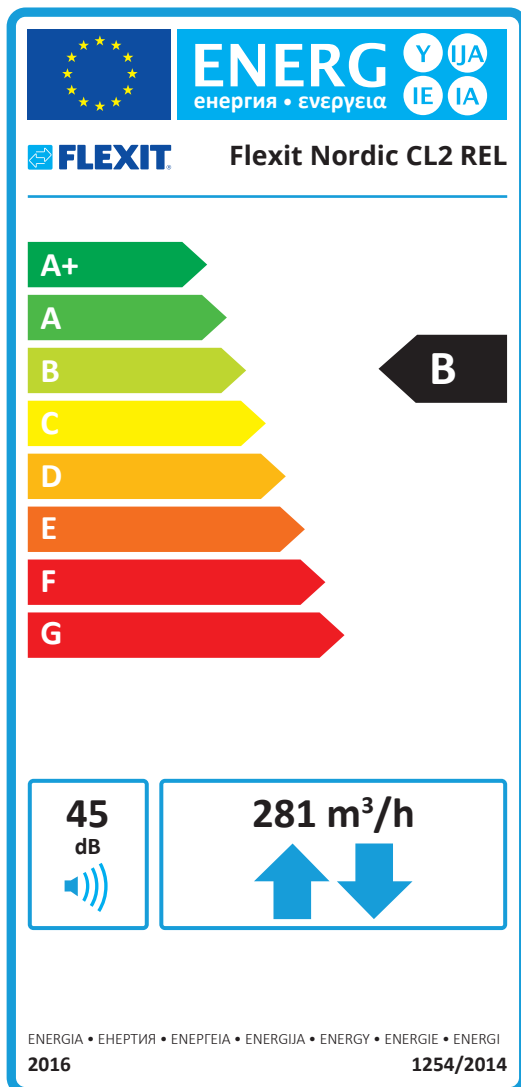
• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: CI 70/app/CI 78

Result: Increased air flow for whole building


a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 REL Art.no. 800211
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 -67,4 kWh/m ² and years Average -27,5 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):	77%
h)	Maximum flow rate:	281 m ³ /h
i)	Electric power input of the drive:	177 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0547 m ³ /s (197 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	567 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 8153 kWh/year Average 4168 kWh/year Warm 1885 kWh/year

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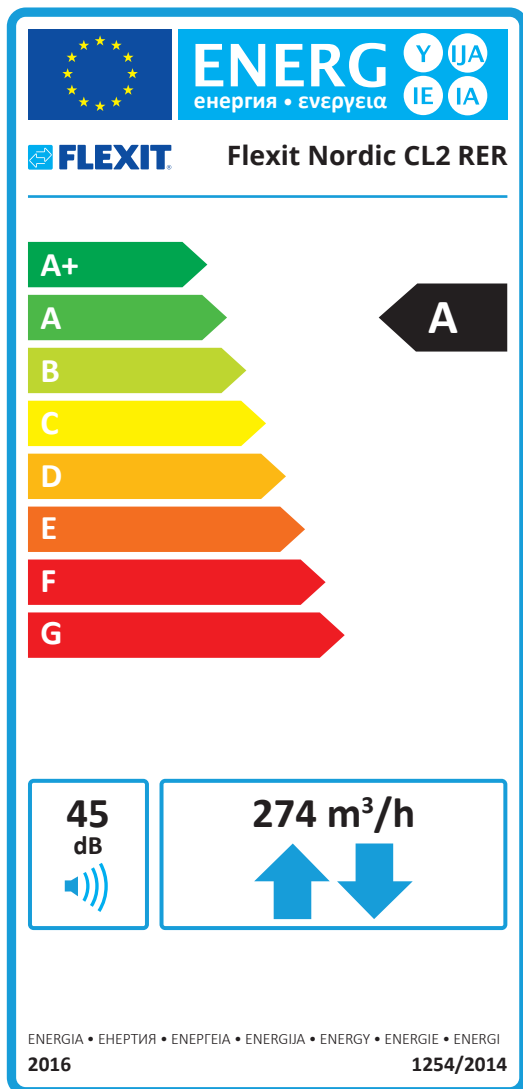
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CTRL 0,65

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


a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 RER Art.no. 800210
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 -80,6 kWh/m ² and years Average -38,3 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):	77%
h)	Maximum flow rate:	274 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0534 m ³ /s (192 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	238 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 8655 kWh/year Average 4424 kWh/year Warm 2001 kWh/year

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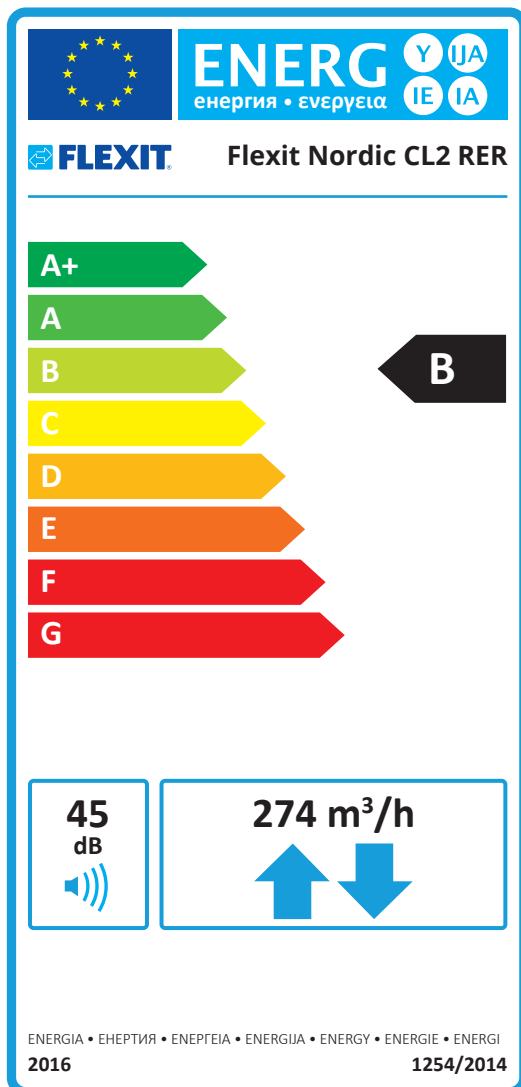
• CENTRAL DEMAND CONTROL

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


a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 RER Art.no. 800210
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 -73,5 kWh/m ² and years Average -32,6 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):	77%
h)	Maximum flow rate:	274 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0534 m ³ /s (192 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	407 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 8368 kWh/year Average 4278 kWh/year Warm 1934 kWh/year

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• WITH TIMER

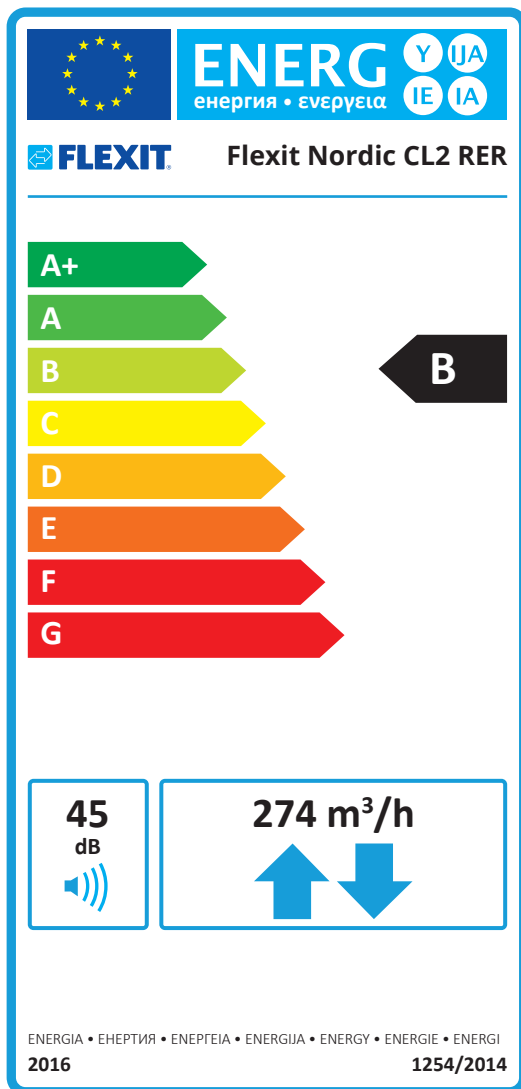
CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 RER Art.no. 800210
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 -69,2 kWh/m ² and years Average -29 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):	77%
h)	Maximum flow rate:	274 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0534 m ³ /s (192 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	522 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 8225 kWh/year Average 4204 kWh/year Warm 1901 kWh/year

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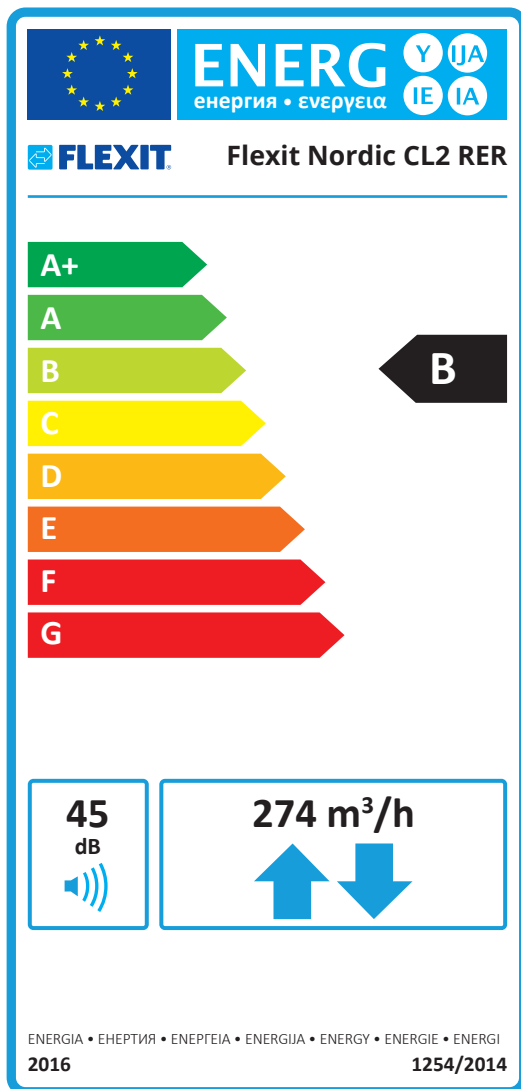
• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: CI 70/app/CI 78

Result: Increased air flow for whole building


a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 RER Art.no. 800210
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 -67,4 kWh/m ² and years Average -27,6 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):	77%
h)	Maximum flow rate:	274 m ³ /h
i)	Electric power input of the drive:	179 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0534 m ³ /s (192 m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,45 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	564 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 8153 kWh/year Average 4168 kWh/year Warm 1885 kWh/year

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