

Flexit Nordic CL2

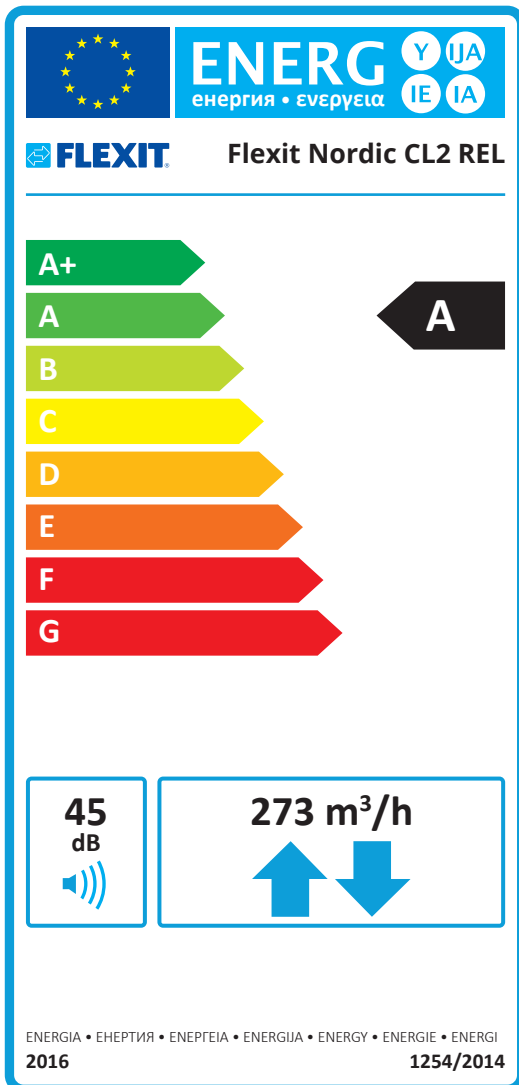
• WITH LOCAL DEMAND CONTROL

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 -81,3 kWh/m ² and years Average -38,8 kWh/m ² and years Warm -14,4 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepless speed control (X=2,0)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	273 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0531 m ³ /s (191m 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	227 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 8695 kWh/year Average 4445 kWh/year Warm 2010 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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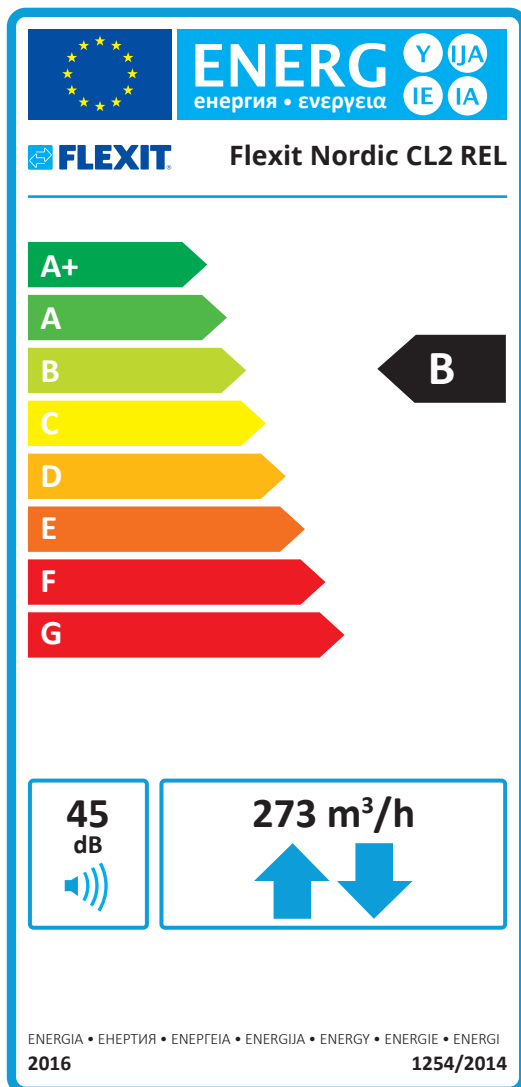
• CENTRAL DEMAND CONTROL

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 -74,5 kWh/m ² and years Average -33,3 kWh/m ² and years Warm -9,8 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepless speed control (X=2,0)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	273 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0531 m ³ /s (191m 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	388 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 8421 kWh/year Average 4305 kWh/year Warm 1947 kWh/year

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) Ref. 1253/2014 and 1254/2014

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Flexit Nordic CL2

• WITH TIMER

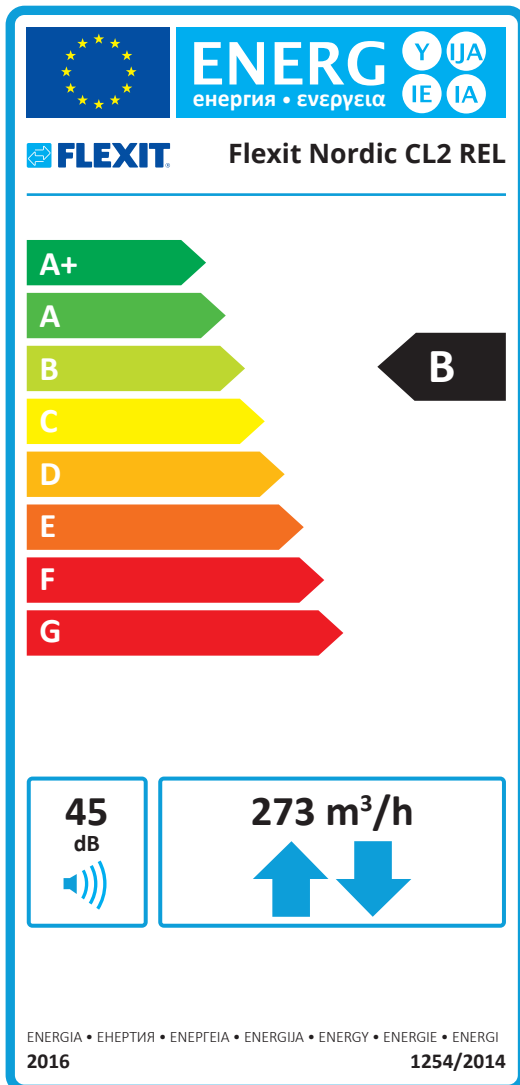
CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
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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 -70,4 kWh/m ² and years Average -29,9 kWh/m ² and years Warm -6,7 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepped speed control (X=1,5)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	273 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0531 m ³ /s (191m 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	498 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 8284 kWh/year Average 4235 kWh/year Warm 1915 kWh/year

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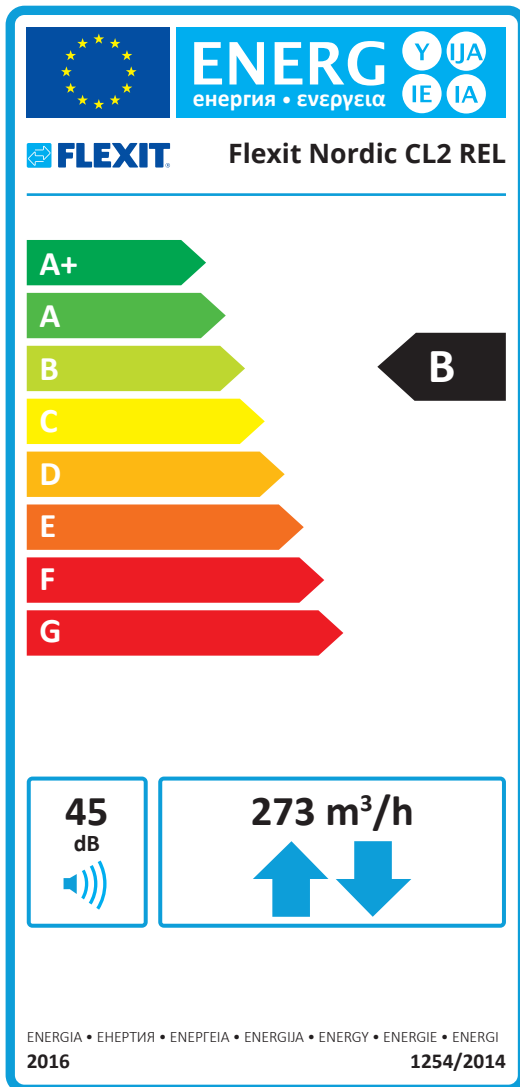
• WITH MANUAL CONTROL

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 -68,7 kWh/m ² and years Average -28,6 kWh/m ² and years Warm -5,6 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepped speed control (X=1,5)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	273 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0531 m ³ /s (191m 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	537 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 8216 kWh/year Average 4200 kWh/year Warm 1899 kWh/year

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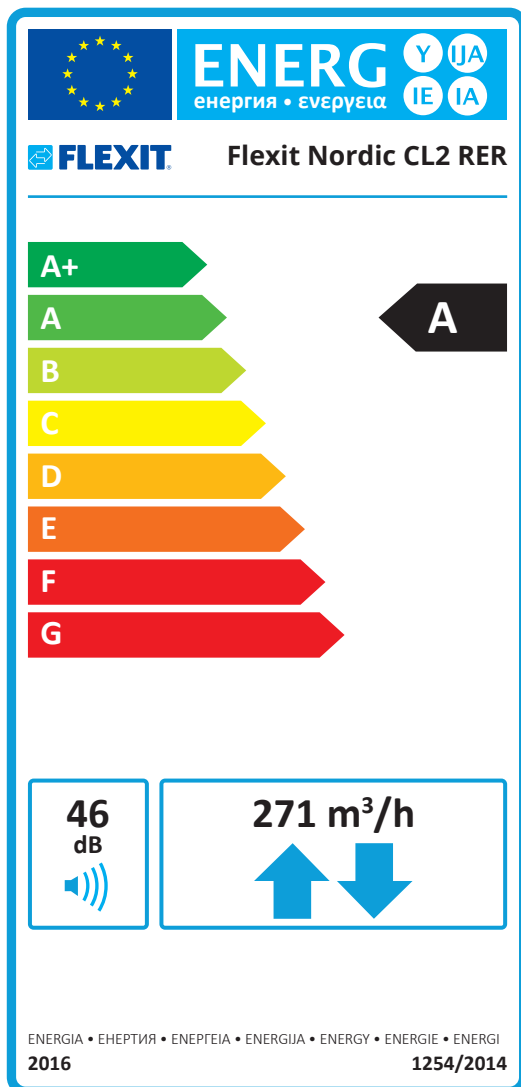
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CTRL 0,65

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 -81,5 kWh/m ² and years Average -39 kWh/m ² and years Warm -14,6 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepless speed control (X=2,0)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	271 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0527 m ³ /s (190m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,44 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	219 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 8695 kWh/year Average 4445 kWh/year Warm 2010 kWh/year

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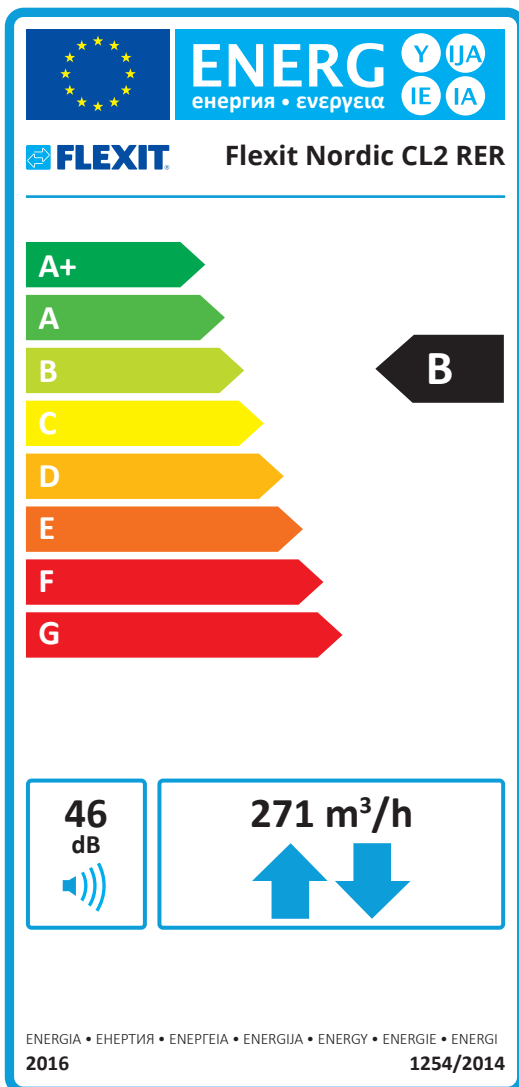
• CENTRAL DEMAND CONTROL

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 -74,8 kWh/m ² and years Average -33,7 kWh/m ² and years Warm -10,1 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepless speed control (X=2,0)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	271 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0527 m ³ /s (190m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,44 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	375 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 8421 kWh/year Average 4305 kWh/year Warm 1947 kWh/year

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Flexit Nordic CL2

• WITH TIMER

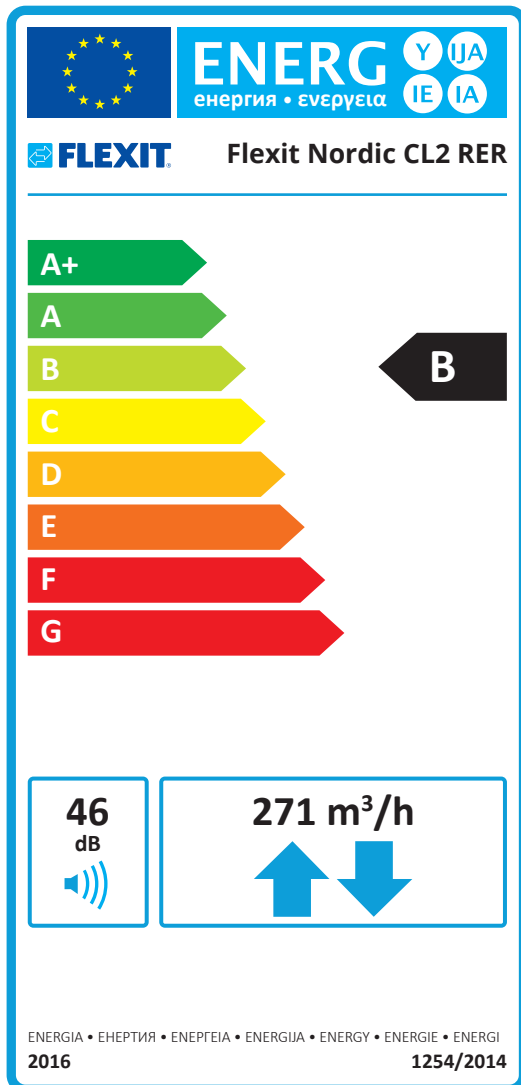
CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	Nordic CL2 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 -70,8 kWh/m ² and years Average -30,3 kWh/m ² and years Warm -7,1 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepped speed control (X=1,5)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	271 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0527 m ³ /s (190m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,44 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	481 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 8284 kWh/year Average 4235 kWh/year Warm 1915 kWh/year

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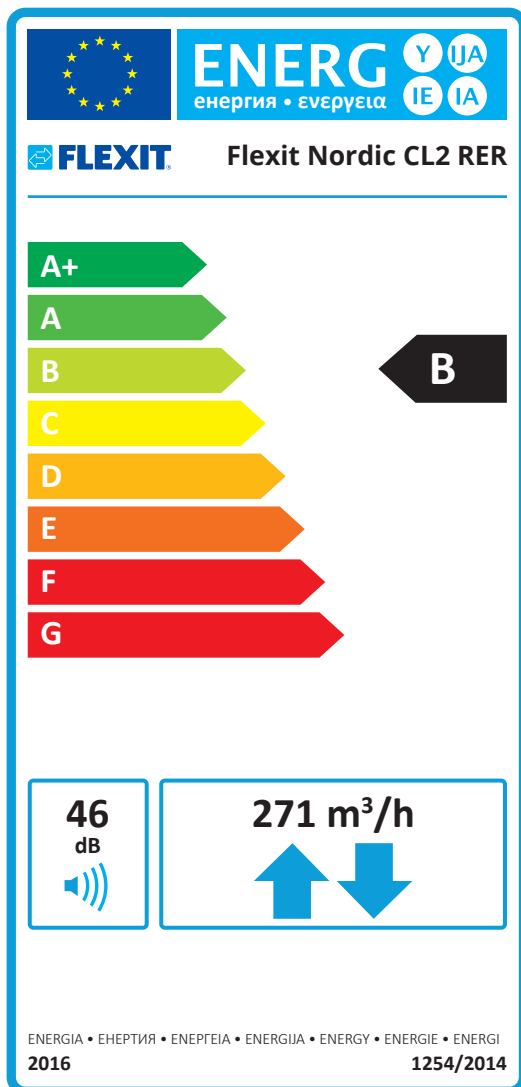
• WITH MANUAL CONTROL

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 -69,2 kWh/m ² and years Average -29,0 kWh/m ² and years Warm -6,0 kWh/m ² and years
d)	Typology:	Bidirectional ventilation unit for residential
e)	Drive:	Stepped speed control (X=1,5)
f)	Heat recovery system:	Regenerativ heat exchanger
g)	Thermal efficiency (EN 13141-7):	78%
h)	Maximum flow rate:	271 m ³ /h
i)	Electric power input of the drive:	178 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0527 m ³ /s (190m ³ /h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,44 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	519 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 8216 kWh/year Average 4200 kWh/year Warm 1899 kWh/year

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