1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115333EN-03
2020-06

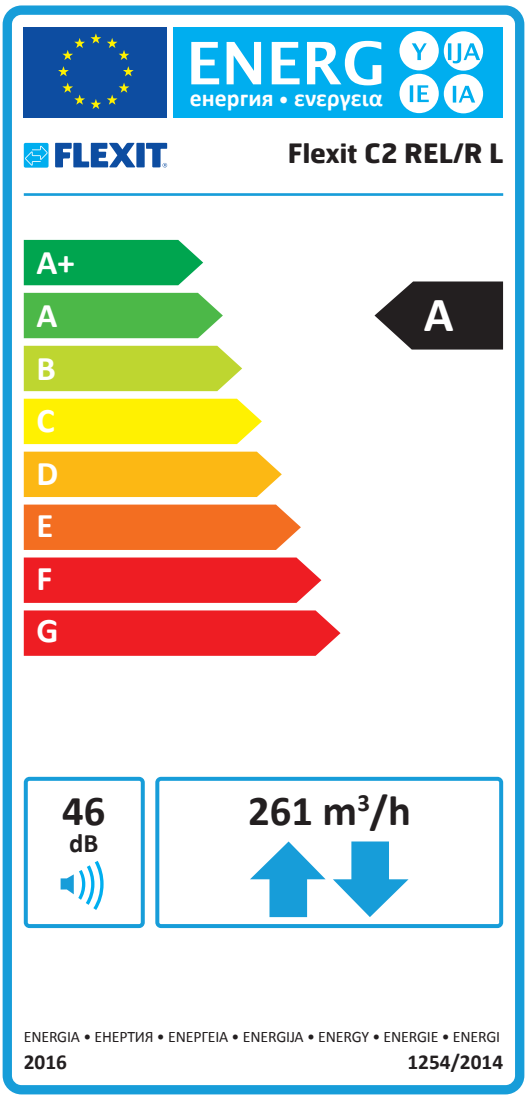
Flexit C2

• WITH LOCAL DEMAND CONTROL

CTRL 0,65

LOCAL DEMAND CONTROL

Sensor control for different zones
Accessories: Advanced panel + 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:	C2 REL Art.no. 700031 C2 R L Art.no. 700033
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 -81,1 kWh/m² and years Average -38 kWh/m² and years Warm -13,3 kWh/m² 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):	81%
h	Maximum flow rate:	261 m³/h
i)	Electric power input of the drive:	174 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0508 m³/s (183 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,43 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	282 kWh/100m³ 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 8817 kWh/year Average 4507 kWh/year Warm 2038 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
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1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115333EN-03
2020-06

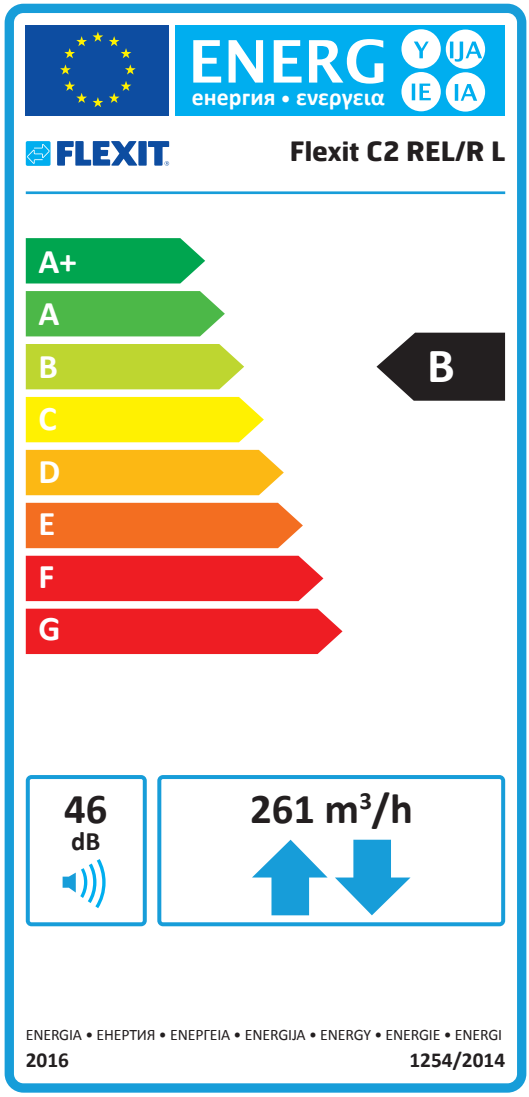
Flexit C2

• WITH CENTRAL DEMAND CONTROL

CTRL 0,85

CENTRAL DEMAND CONTROL

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



a)	Name or trade mark:	Flexit
b)	Model identifier:	C2 REL Art.no. 700031 C2 R L Art.no. 700033
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 -75,2 kWh/m² and years Average -33,3 kWh/m² and years Warm -9,3 kWh/m² 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):	81%
h	Maximum flow rate:	261 m³/h
i)	Electric power input of the drive:	174 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0508 m³/s (183 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,43 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	422 kWh/100m³ 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 8580 kWh/year Average 4386 kWh/year Warm 1983 kWh/year

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COMMISSION DELEGATED REGULATION (EU) No 1254/2014 of 11 July 2014
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1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115333EN-03
2020-06

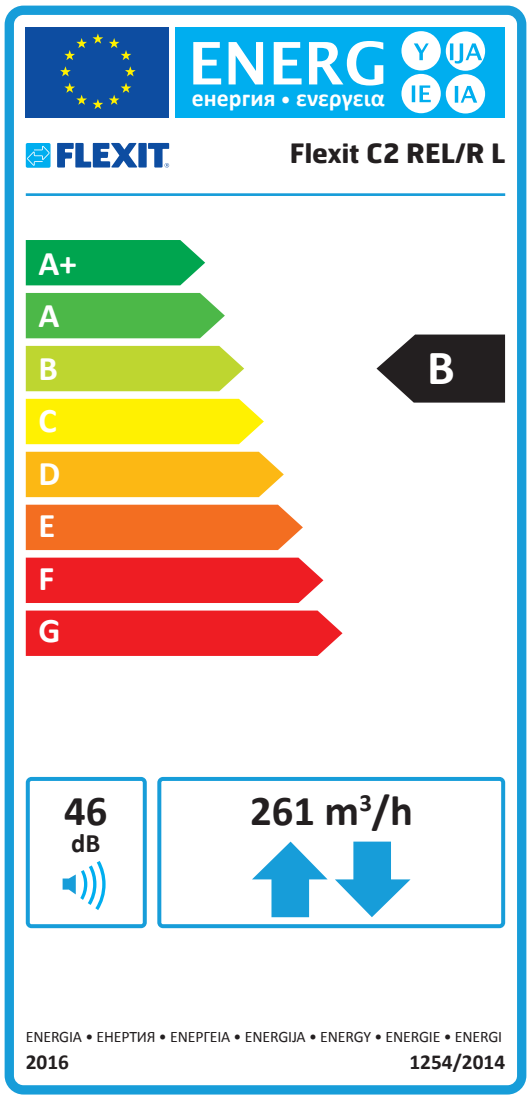
Flexit C2

• WITH TIMER

CTRL 0,95

TIMER

Timer control
Accessories: Advanced panel
Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	C2 REL Art.no. 700031 C2 R L Art.no. 700033
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 -72,1 kWh/m² and years Average -30,8 kWh/m² and years Warm -7,1 kWh/m² 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):	81%
h	Maximum flow rate:	261 m³/h
i)	Electric power input of the drive:	174 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0508 m³/s (183 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,43 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	499 kWh/100m³ 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 8462 kWh/year Average 4325 kWh/year Warm 1956 kWh/year

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1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115333EN-03
2020-06

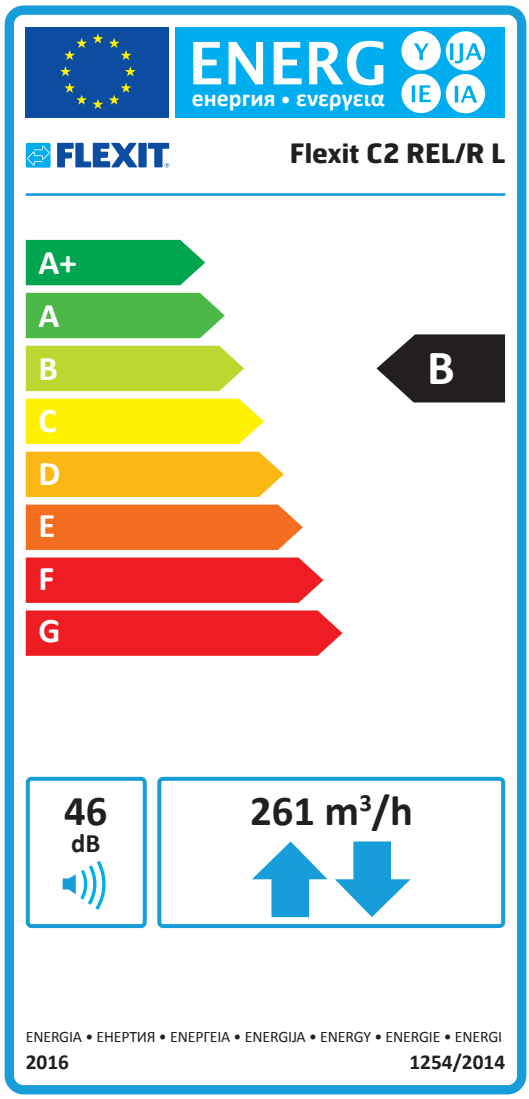
Flexit C2

• WITH MANUAL CONTROL

CTRL 1

MANUAL CONTROL

Forcing switch control
Accessories: Basic/advanced panel
Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	C2 REL Art.no. 700031 C2 R L Art.no. 700033
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 -70,6 kWh/m² and years Average -29,5 kWh/m² and years Warm -6 kWh/m² 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):	81%
h	Maximum flow rate:	261 m³/h
i)	Electric power input of the drive:	174 W
j)	Sound power level (Lw(A)):	46 dB(A)
k)	Reference flow rate:	0,0508 m³/s (183 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,43 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	539 kWh/100m³ 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 8403 kWh/year Average 4295 kWh/year Warm 1942 kWh/year

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1254/2014 Energy labelling regulation

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2020-06

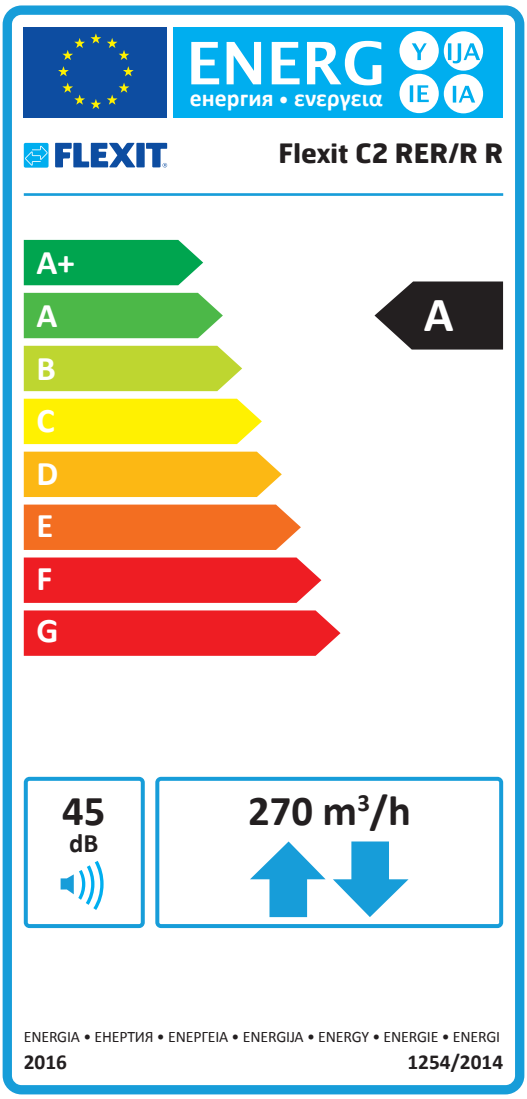
Flexit C2

• WITH LOCAL DEMAND CONTROL

CTRL 0,65

LOCAL DEMAND CONTROL

Sensor control for different zones
Accessories: Advanced panel + 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:	C2 RER Art.no. 700030 C2 R R Art.no. 700032
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 -81 kWh/m² and years Average -38,1 kWh/m² and years Warm -13,6 kWh/m² 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):	80%
h	Maximum flow rate:	270 m³/h
i)	Electric power input of the drive:	172 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0525 m³/s (189 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,41 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	276 kWh/100m³ 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 8776 kWh/year Average 4486 kWh/year Warm 2029 kWh/year

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1253/2014 Ecodesign regulation
1254/2014 Energy labelling regulation

115333EN-03
2020-06

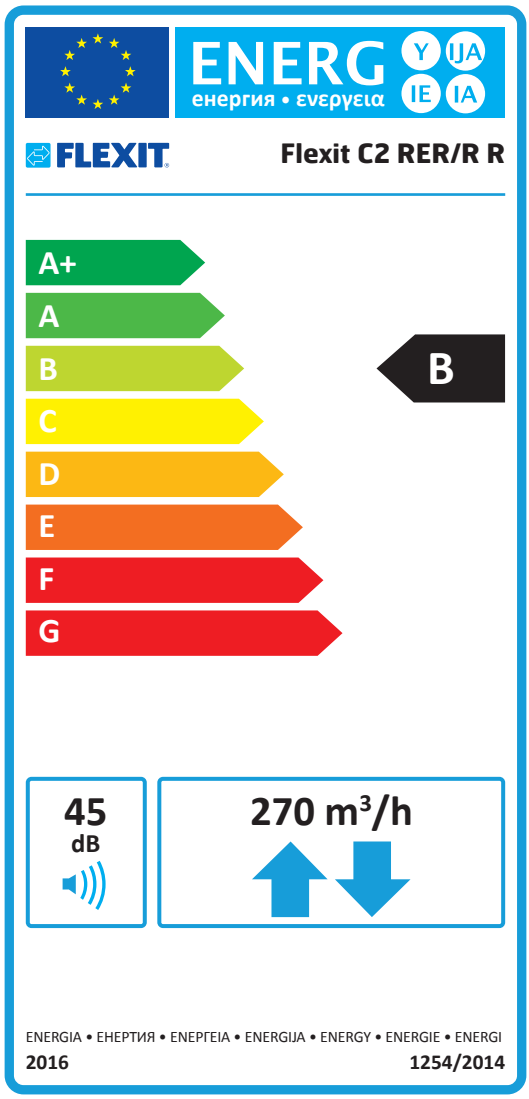
Flexit C2

• WITH CENTRAL DEMAND CONTROL

CTRL 0,85

CENTRAL DEMAND CONTROL

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



a)	Name or trade mark:	Flexit
b)	Model identifier:	C2 RER Art.no. 700030 C2 R R Art.no. 700032
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 -75,2 kWh/m² and years Average -33,5 kWh/m² and years Warm -9,6 kWh/m² 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):	80%
h	Maximum flow rate:	270 m³/h
i)	Electric power input of the drive:	172 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0525 m³/s (189 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,41 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	402 kWh/100m³ 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 8527 kWh/year Average 4359 kWh/year Warm 1971 kWh/year

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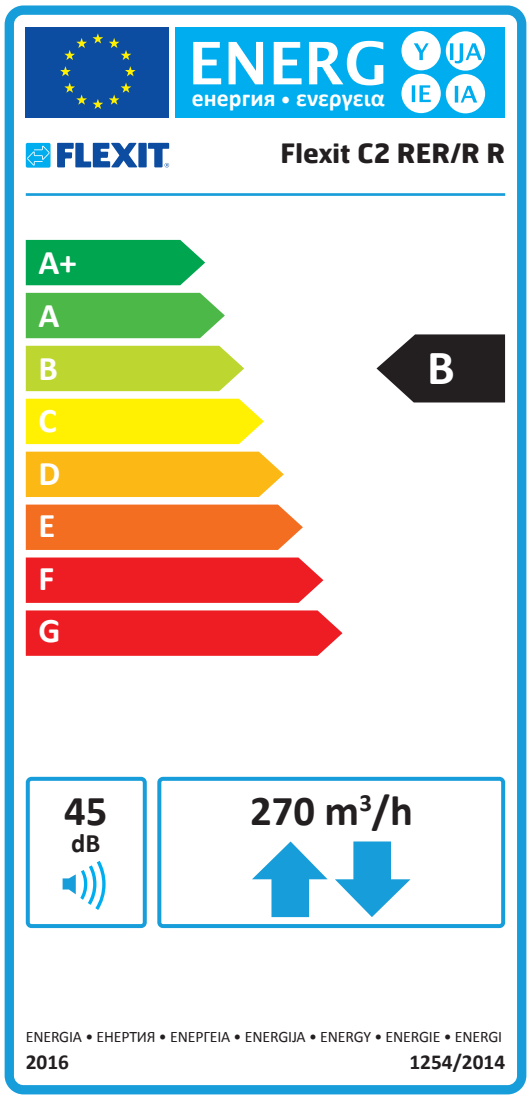
Flexit C2

• WITH TIMER

CTRL 0,95

TIMER

Timer control
Accessories: Advanced panel
Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	C2 RER Art.no. 700030 C2 R R Art.no. 700032
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 -71,8 kWh/m² and years Average -30,8 kWh/m² and years Warm -7,2 kWh/m² 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):	80%
h	Maximum flow rate:	270 m³/h
i)	Electric power input of the drive:	172 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0525 m³/s (189 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,41 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	476 kWh/100m³ 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 8403 kWh/year Average 4295 kWh/year Warm 1942 kWh/year

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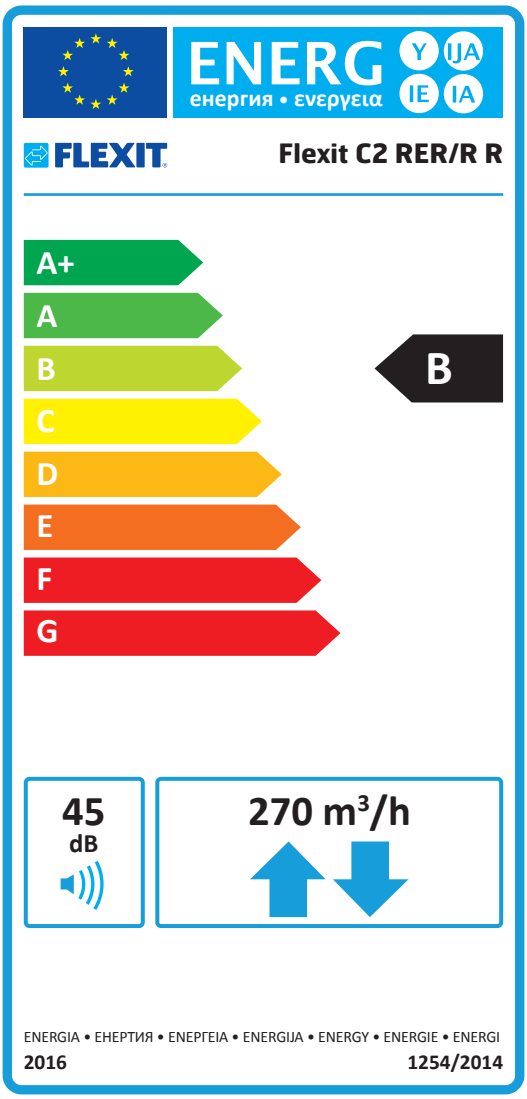
Flexit C2

• WITH MANUAL CONTROL

CTRL 1

MANUAL CONTROL

Forcing switch control
Accessories: Basic/advanced panel
Result: Increased air flow for whole building



a)	Name or trade mark:	Flexit
b)	Model identifier:	C2 RER Art.no. 700030 C2 R R Art.no. 700032
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 -70,2 kWh/m² and years Average -29,5 kWh/m² and years Warm -6,1 kWh/m² 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):	80%
h	Maximum flow rate:	270 m³/h
i)	Electric power input of the drive:	172 W
j)	Sound power level (Lw(A)):	45 dB(A)
k)	Reference flow rate:	0,0525 m³/s (189 m³/h)
l)	Reference pressure difference:	50 Pa
m)	Specific Power Input (SPI):	0,41 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$	514 kWh/100m³ 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 8340 kWh/year Average 4263 kWh/year Warm 1928 kWh/year

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