

Flexit Nordic S4

• 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

Energiklasse: **A**

| | | |
|----|---|--|
| a) | Name or trade mark: | Flexit |
| b) | Model identifier: | Nordic S4 RER Art.no. 800130 Nordic S4 R R Art.no. 800132 |
| c) | Specific energy consumption (SEC): $SEC = t_a \cdot p_{ef} \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1 - \eta_p)) + Q_{defr}$ | Cold -84,6 kWh/m ² and years Average -41,1 kWh/m ² and years Warm -16,2 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): | 83% |
| h) | Maximum flow rate: | 475 m ³ /h |
| i) | Electric power input of the drive: | 250 W |
| j) | Sound power level (Lw(A)): | 41 dB(A) |
| k) | Reference flow rate: | 0,0924 m ³ /s (333 m ³ /h) |
| l) | Reference pressure difference: | 50 Pa |
| m) | Specific Power Input (SPI): | 0,33 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$ | 175 kWh/100m ² and years |
| w) | The annual heating saved: $AHS = t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1 - \eta_p))$ | Cold 8898 kWh/year Average 4548 kWh/year Warm 2057 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.

Flexit Nordic S4

• 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

Energiklasse: **A**

| | | |
|----|---|--|
| a) | Name or trade mark: | Flexit |
| b) | Model identifier: | Nordic S4 RER Art.no. 800130 Nordic S4 R R Art.no. 800132 |
| 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 -79,4 kWh/m ² and years Average -36,9 kWh/m ² and years Warm -12,6 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): | 83% |
| h) | Maximum flow rate: | 475 m ³ /h |
| i) | Electric power input of the drive: | 250 W |
| j) | Sound power level (Lw(A)): | 41 dB(A) |
| k) | Reference flow rate: | 0,0924 m ³ /s (333 m ³ /h) |
| l) | Reference pressure difference: | 50 Pa |
| m) | Specific Power Input (SPI): | 0,33 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$ | 299 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 8686 kWh/year Average 4440 kWh/year Warm 2008 kWh/year |

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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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Flexit Nordic S4

• WITH TIMER

CTRL 0,95

TIMER

Timer control

Accessories: App

Result: Increased air flow for whole building

Energiklasse: **B**

| | | |
|----|---|--|
| a) | Name or trade mark: | Flexit |
| b) | Model identifier: | Nordic S4 RER Art.no. 800130 Nordic S4 R R Art.no. 800132 |
| c) | Specific energy consumption (SEC): $SEC = t_a \cdot p_{ef} \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI - t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1 - \eta_r)) + Q_{defr}$ | Cold -76,2 kWh/m ² and years Average -34,3 kWh/m ² and years Warm -10,3 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): | 83% |
| h) | Maximum flow rate: | 475 m ³ /h |
| i) | Electric power input of the drive: | 250 W |
| j) | Sound power level (Lw(A)): | 41 dB(A) |
| k) | Reference flow rate: | 0,0924 m ³ /s (333 m ³ /h) |
| l) | Reference pressure difference: | 50 Pa |
| m) | Specific Power Input (SPI): | 0,33 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$ | 383 kWh/100m ² and years |
| w) | The annual heating saved: $AHS = t_h \cdot \Delta T_h \cdot \eta_h^{-1} \cdot c_{air} \cdot (q_{ref} - q_{net} \cdot CTRL \cdot MISC \cdot (1 - \eta_r))$ | Cold 8580 kWh/year Average 4386 kWh/year Warm 1983 kWh/year |

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Flexit Nordic S4

• WITH MANUAL CONTROL

CTRL 1,0

MANUAL CONTROL

Forcing switch control

Accessories: CI 70/app/CI 78

Result: Increased air flow for whole building

Energiklasse: **B**

| | | |
|----|---|---|
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| b) | Model identifier: | Nordic S4 RER Art.no. 800130 Nordic S4 R R Art.no. 800132 |
| 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 -74,9 kWh/m ² and years Average -33,3 kWh/m ² and years Warm -9,4 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): | 83% |
| h) | Maximum flow rate: | 475 m ³ /h |
| i) | Electric power input of the drive: | 250 W |
| j) | Sound power level (Lw(A)): | 41 dB(A) |
| k) | Reference flow rate: | 0,0924 m ³ /s (333 m ³ /h) |
| l) | Reference pressure difference: | 50 Pa |
| m) | Specific Power Input (SPI): | 0,33 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: $AEC = t_a \cdot q_{net} \cdot MISC \cdot CTRL^x \cdot SPI + Q_{defr}$ | 413 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 8527 kWh/year Average 4359 kWh/year Warm 1971 kWh/year |

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