378 ON/OFF

User Manual

603918-02 • 2019-12-13

Big Dutchman

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Product and Documentation Revision

Big Dutchman reserves the right to change this manual and the product described herein without further notice. In case of doubt, please contact Big Dutchman.

The last revision date appears on the front and back pages.

Note

1 Product description

378 ON/OFF is a simple emergency opening unit, which in combination with the house controller can emergency open in case of simple types of error. In case of emergency, the system opens completely. Emergency opening is not available for all types of control failures.

378 ON/OFF has a built-in 24 V DC motor power supply, battery and charger.

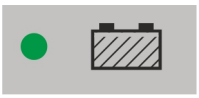
Available in the following variants:

- 378 ON/OFF, Medium (4.2 A)
- 378 ON/OFF, Large (8 A)
- 378 ON/OFF, Xtra Large (10 A)

A Mini UPS Mini Power unit is available as an accessory. This unit enables the house controller to regulate ventilation for a short period during a power failure so that emergency control via the emergency opening unit does not need to take over. The Mini UPS module can be connected to an alarm system so that alarms will be generated when the module is active.

2 User guide

2.1 Battery lamp



The green battery lamp remains lit as long as battery voltage is >16 V and there is sufficient voltage for opening the flaps.

Red battery lamp emits light, when the battery is discharged <16 V or blue battery fuse is blown.

2.2 Functions

378 ON/OFF provides a 24 V DC supply to the climate controller where extra or heavy duty winch motors are to be used.

The built-in battery and charging circuit of 378 ON/OFF provide standby power to open up the ventilation system in an emergency situation. This will be triggered by:

- power failure
- high temperature
- absolute high temperature
- absolute high humidity
- defects in the inside temperature sensor connected to the climate controller

If the climate controller is a two-house controller supplied by the same incoming phase, power failure will open both houses. The other emergency opening alarms, mentioned above, will operate the emergency opening in the affected house only.

If the climate controller is a two-house controller supplied by two different incoming phases, the emergency opening upon power failure in house 1 will open both houses. House 2 emergency opening will be triggered only by the other emergency openings (not by power failure).

2.3 Weekly testing

The emergency opening system MUST be tested once a week in order to ensure that the emergency opening system works faultlessly.

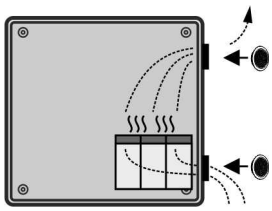
During the summer season, the test is carried out early in the morning when the flaps have not yet opened completely.

Procedure:

1. Disconnect the mains voltage to climate controller and on the common external TEST mains switch.
2. Check that the inlets open completely (with a two-house computer they must open simultaneously in both houses).
3. Check that the green battery lamp remains on during the entire test as a sign that the battery voltage is sufficient (i.e. > 16 V).
4. Connect the mains voltage again. The inlets must close again.

3 Maintenance instructions

Replace the battery module at least every 3 years.

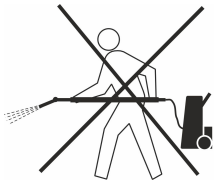


Replace the two ventilation plugs at the same time as the battery.

3.1 Battery voltage check

Battery voltage can be measured by carrying out “Weekly testing” several consecutive times until the battery can no-longer open the system. This way, a realistic measurement is achieved of how many times the connected houses can be opened emergency-wise using the battery. It should be possible to open the houses at least twice in a row using the battery when it is fully charged (large battery). Charging the battery fully takes approx. 4-14 hours.

3.2 Cleaning



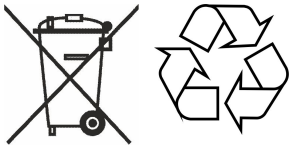
Clean the product with a cloth that has been wrung out almost dry in water and avoid using:

- high-pressure cleaner
- solvents
- corrosive/caustic agents

As for all electronic equipment, the service life of the emergency opening will be extended if it stays connected all the time as this will keep it dry and free from condensation.

If power is to be switched off for several hours, disconnect the battery, as otherwise it will be damaged.

3.3 Recycling/Disposal



Products suitable for recycling are marked with a pictogram.

It must be possible for customers to deliver the products to local collection sites/recycling stations in accordance with local instructions. The recycling station will then arrange for further transport to a certified plant for reuse, recovery and recycling.

EU - Declaration of Conformity

Manufacturer: **SKOV A/S**
Address: Hedelund 4, DK-7870 Roslev
Telephone: +45 72 17 55 55

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product: 378
Type, model: Emergency opening
EU directives: 2014/35/EU (Low Voltage Directive (LVD))
2014/30/EU (Electromagnetic Compatibility (EMC))
2011/65/EU (RoHS Directive)
2001/95/EC (General Product Safety Directive (GPSD))

On general product safety

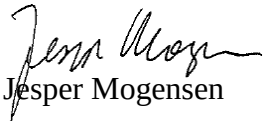
Standards: EN 60950-1:2006:
EN 60950-1:2006/AC:2011
EN 60950-1:2006/A11:2009
EN 60950-1:2006/A12:2011
EN 60950-1:2006/A1:2010
EN 60950-1:2006/A2:2013
EN 61000-6-2:2005 + AC:2005:
EN 61000-6-4:2007 + A1:2011:
EN 50581:2012:
EN 50272-1:2010:
EN 50272-2:2001:

We declare as manufacturer

that the products meet the requirements of the listed directives and standards.

Location: Hedelund 4, DK-7870 Roslev

Date: 2019.06.12



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CTO

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