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1 Notes on using the manual



Caution!

Safety Instruction: Failure to observe this instruction can cause material damage and impair the function of the device.



Note

Supplementary information for operating the device.

fig. **2** A, p. 2 : This refers to an element in an illustration. In this example, item A in figure 2 on page 2.

2 General safety instructions

Read all instructions before use or installation.

The manufacturer will not be held liable for claims for damage resulting from the following:

- Faulty installation or connection
- Damage to the unit from mechanical influences, misuse or abuse
- Alterations to the unit without express written permission from the manufacturer
- Use for purposes other than those described in this manual

3 Intended use

The Dometic DVS01 panel provides two functions that make using a VacuFlush toilet system easier and more efficient. The panel indicates whether or not there is enough vacuum pressure for an effective flush, and if connected to a "full tank" sensor in the waste holding tank, an illuminated red light can also indicate that the holding tank is full.

3.1 Vacuum status monitor

For instant, powerful flushes, VacuFlush toilets should be flushed only when vacuum in the toilet system is at its optimum level. An illuminated green light on the DVS01 panel indicates when the system is ready for flushing (fig. **3** A, p. 2). After the toilet is flushed, the red light will illuminate (fig. **3** B, p. 2) – this indicates that the toilet system is in the process of building vacuum to the proper level for the next flush. When the red light shuts off and the green light glows, the toilet system is ready for the next flush.

3.2 “Full tank” indicator

When connected to a “full tank” sensor (see wiring schematics, pp. 3-4), a steady illuminated red light can indicate that the holding tank is full. (fig. 3 B, p. 2). The VacuFlush toilet should not be operated until the holding tank is emptied and the green light turns on.

3.3 Features

Continuous vacuum level monitoring. Indicates when VacuFlush toilet is ready to flush.

Power indicator for toilet system. Indicates when toilet system power is off or loss of electrical power.

12 or 24 V DC operation.

4 Components (fig. 1, p. 2)

Ref	Description
1	DVS01 panel cover
2	Mounting frame
3	#6 fastener

5 Specifications

5.1 Materials

Panel frame and mounting frame: ABS

Panel surface: Polycarbonate resin

5.2 Electrical

Current and wattage per indicator light

	12 V DC	24 V DC
Amps	0.019	0.019
Watts	0.23	0.46

5.3 Dimensions (fig. 2, p. 2)

Ref.	Dimension
A	2 in. / 51 mm
B	3.25 in. / 83 mm
C	2 in. / 51 mm clearance behind wall
D	0.38 in. / 10 mm

5.4 Approvals

ISO 8846; EMC Directive 2004/108/EC

6 Installation



Caution!

Do not install DVS01 panel in area with potentially flammable or explosive vapors.

1. Select panel location away from direct contact with water and oil.
2. Confirm clearance for wire connections behind wall, hull liner or bulkhead.
3. Using DVS01 panel template (fig. 7, p. 11), cut out panel access hole and drill fastener holes.
4. Remove panel cover (fig. 1 1, p. 2) from mounting frame (3), if necessary, by carefully pulling them apart. Install mounting frame to wall with four fasteners.
5. With electrical power off, route proper wiring to DVS01 panel location, making sure wires extend out through access hole (fig. 1 4, p. 2). Refer to wiring diagrams (figs. 4 and 5, p. 3, fig. 6, p. 4) for appropriate toilet system. Make final wiring connections.
6. Push panel cover onto mounting frame until it locks.
7. Turn on electrical power to DVS01 panel and toilet system. Confirm normal operation of status lights.

7 Operation

7.1 Vacuum status monitor (fig. 3, p. 2)

1. When powerswitch is turned ON, the **green** light indicates that there is sufficient vacuum in the VacuFlush system to flush the toilet (A).
2. When power switch is turned ON and the **red** light glows, this indicates that there is NOT sufficient vacuum in the system to flush the toilet (B). Do not flush toilet, or blockage may occur in system.



Notes

If green and red light constantly cycle on and off between flushes, there is a possible vacuum leak in the system. (An idle VacuFlush system should not cycle more frequently than once every three hours.)

If green light is ON but there is no vacuum in system, a blockage has likely occurred between the toilet and vacuum tank. Open flush ball in toilet bowl and use standard toilet plunger to unblock.

After a period of time, if red light seems to remain lit longer than when toilet system was new, duckbill valves in vacuum pump may require replacement.



Caution!

If DVS01 is connected to a “full tank” sensor and holding tank is empty, a continuous red light may indicate extensive vacuum loss due to blockage, pump failure or leak. Turn off vacuum system and repair as soon as possible.

7.2 “Full tank” monitor (when connected to “full tank” sensor in waste holding tank)

When power switch is turned ON, the red light glows, and the vacuum pump is not running, this indicates that the holding tank is full and needs to be pumped out. Do not flush toilet, or blockage may occur in system.