

8. SII-Cooling and conditioning (yearly)

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Head office

Vestas Wind Systems A/S
Hedeager 42
8200 Aarhus N
Denmark

Wind turbine type

Read the full document before you start to do work.

Send questions or concerns about the document to Vestas Wind Systems A/S.

Wind turbine type	Mk version
EnVentus™	Mk 0A

Change description

Description of changes
Updated the version of the document.

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1 Abbreviations and technical terms

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Table 1.1: Abbreviations

Abbreviation	Explanation
LOTO	Lockout-tagout
PPE	Personal protective equipment
SDS	Safety data sheet
SPRA	Standardised procedure risk assessment

Table 1.2: Explanation of terms

Term	Explanation
None	

2 Referenced documentation

2.1 Safety documents

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Table 2.1: Safety documents

Document no.	Title
0001-0410	Personal protective equipment sheets
0004-4159	Standardised procedure risk assessment (SPRA)
0092-3874	Rotor locking system
0092-3919	Safety regulations for operators and technicians
0094-2383	Mode selector system
	Relevant SDS for the chemicals used in this document
	Appropriate LOTO document

2.2 Reference documents

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Table 2.2: Reference documents

Document no.	Title
920098	Torque wrench settings
960501	Bolt connections
0001-1995	User guide operating manual
0001-1996	Service guide, menu 11–19 operating manual
0001-1997	Service guide, picture 21 and onwards

Document no.	Title
0092-3876	Replacement of the air filter in the fan box
0093-5563	Replacement of coolant



Unless it is specified differently, see 920098 'Torque wrench settings' for information about bolt types and bolt lubrication, and see 960501 'Bolt connections' for information about torque values.

3 Purpose

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The purpose of this document is to give the instructions for how to do the yearly inspection of the cooling and conditioning system.

4 Note

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This document gives the description of the service inspections that must be done during the yearly inspection. Unscheduled replacement procedures are not included in the yearly inspection. If it is necessary to make an unscheduled replacement, then make a note of it in the service report.

5 Cooling and conditioning

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For an overview of the cooling circuit components, correct operation of the 3-way valves, service, and replacement instructions, see 'Service of water cooling and conditioning system' in section 'Reference documents'.



Risk of exposure to hazardous substances and mixtures, Antifreeze Pre-Mixed 50/50! SPRA ID No. 2.02

- In case of eye contact, remove contact lenses, if worn, and flush eyes with water.
- In case of skin contact, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
- If swallowed, get immediate medical attention. Do not induce vomiting.
- If exposed to excessive levels of material in the air, move the exposed personnel to fresh air. Get medical attention if coughing or respiratory discomfort occurs.
- Use the necessary PPE that is given in sheet B. Read and obey the related SDS.



Risk due to usage of unauthorised coolant!

- Use of unauthorised coolant may reduce the lifetime of components and decrease the performance in the system.
- Do not use unauthorised coolant.
- Always use the coolant that is shown on the sign on the equipment.

5.1 To replace the coolant

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- 1 Replace the coolant according to 'Replacement of coolant' in section 'Reference documents'.
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5.2 To replace the CubePower air filters

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- 1 Replace the 3 CubePower air filters according to 'Replacement of the air filter in the fan box' in section 'Reference documents'.
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