



DET NORSKE VERITAS

APPENDIX TO CERTIFICATE

This Appendix pertains to Certificate No. **0575-CPD-71520304/08-EN**

BIOVAC Small Wastewater Treatment System 5-50 pt

EN 12566-3:2005

Type of product	Small Wastewater Treatment System up to 50 pt
Type Designation Models	FD 5N, FD 10N, FD 5, FD 10, FD 15, FD 20, FD 25, FD 35, SBR 45
Factory Production Control system	Internal QA system – verified by DNV. No certification
Type Testing:	
- <i>test laboratory</i>	Det Norske Veritas AS, ENENO715, 1322 Høvik, Norway
- <i>test reports</i>	DNV Report: 2008-3312
- <i>date for testing</i>	2007.01.15 to 2008.06.10 and 1989-2005 (Treatment efficiency test procedure)
- <i>structural strength</i>	Vacuum test on tanks 10 pemot (Bia Miljø AS) and FD10N-3 (Fiberprodukt AS) Verified structural strength on tanks from the other producers Vera AS and Cipax AS.
- <i>structural criteria</i>	0.4-2 m overflow over water inlet or top of cylinder, dependent on model, and water filled ground up to ground surface
- <i>water tightness</i>	Performed as part of production control
- <i>durability</i>	PE material tested at Norner AS. GRP laminate tested at DNV AS.
- ¹⁾ <i>treatment efficiency testing</i>	1, 2 and 3-7 house systems tested as part of DNV Type Approval Program for small wastewater treatment system in 1989-2005. Calculation of treatment efficiency is based on theoretical loading of the system.
- ¹⁾ <i>treatment efficiency results</i>	BOF ₅ : 6.0-10.7 mg/l or 96-98 % efficiency (From DNV TAP) TOT-P: 0.5-0.8 mg/l or 92-95 % efficiency (From DNV TAP) COD: Not performed SS: 94% efficiency (Biovac's own data – not tested)
Accepted for	Use of CE mark based on satisfactory Type Testing according to EN 12566-3 and Treatment Efficiency results taken from DNV Type Approval programme (1989-2005).





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EC-CERTIFICATE OF CONFORMITY

Certificate No. **0575-CPD-71520304/08-NO**

In compliance with the Directive 89/106/EEC of the council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 97/464/EC of the Council of European Communities of 27 June 1997- Waste Water Engineering Products, it has been stated that the construction product

BIOVAC Minirensanlegg 5-50 pe

characterized in

NS-EN 12566-3:2005

placed on the market by

Biovac AS

Postboks 148
1921 Sørumsand, Norge

and produced in the factory located at

Biovac AS, Postboks 148, 1921 Sørumsand, Norge

is submitted by the manufacturer to a factory production control and that the notified body Det Norske Veritas AS has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control.

This certificate attests that all provisions concerning the attestation of the product, guidelines and the factory production control described in Annex ZA of the standards listed above and in accordance with the procedures given, except for the Treatment Efficiency Test Procedure ¹⁾, were applied.

This certificate remains valid during a 3 years period as long as the conditions laid down in the harmonized technical specification in reference, the product, the manufacturing conditions in the factory or the factory production control itself are not modified significantly.

Initial Certification date:

2008-06-10

This Certificate is valid until:

2011-06-10


The audit has been performed under the supervision of:

Bjørn Engh
Senior Engineer



Notified Body
No: 0575

Place and date:

Høvik, 2008-06-10

for the Notified Body:
DET NORSKE VERITAS AS,
NORWAY


Stein Fredheim
Management Representative

