

EC DESIGN EXAMINATION CERTIFICATE

According to the requirements of Directive 97 / 23 / EC
MODULE B1

Certificate Nr: 12.108.0

Date: 17.12.2013

Manufacturer: ΔΥΝΗ Α.Ε. ΜΗΧΑΝΟΚΑΤΑΣΚΕΥΕΣ
ΙΩΝΙΑ ΘΕΣΣΑΛΟΝΙΚΗΣ Τ.Κ. 57008 ΘΕΣΣΑΛΟΝΙΚΗ ΕΛΛΑΣ

Applicable Design Code: EL0T EN 303 – 5: 2012

Description: HEATING BOILER FOR SOLID FUELS MANUALLY AND AUTOMATICALLY
STOKED WITH NOMINAL HEAT OUTPUT OF UP TO 500 KW

Type of Boiler: BC3 50/60
(Serial Nr. : 1001 / Year: 2013)

Technical Characteristics: Maximum Allowable Pressure: 3 bar(g)
Operating Pressure: 2,5 – 3 bar(g)
Hydrostatic Test Pressure: 4 bar(g)
Max .Operating Temperature: 95 °C

Nominal heat output: BC3 - 50 : 50 kW, BC3 - 60 : 60 kW.

Boiler Class: 4 for briquettes (C2) & 5 for pellets (C1)
(according to technical file) (Option: The boiler can stoked automatically with solid fuels such as pellets)

Fluid State / Fluid Group: Liquid / 2

Category. / Module: -- / B 1

Conclusion

This certificate is issued to “ΔΥΝΗ ΜΗΧΑΝΟΚΑΤΑΣΚΕΥΕΣ”, to certify that the undersigned Surveyor has, at their request, examined the technical documentation and identified the components which have been designed in accordance with the relevant provisions of the standards referred to in Article 5 and has and performed the necessary examinations which can be found in the relevant reports.


The certification body ascertains and attests that the design of the boiler described above, meets the provisions of the Annex III – module B1 of Directive 97/23/EC which apply to it.

Conditions for validity

The applicant must inform the notified body that holds the technical documentation concerning the EC design-examination certificate of all modifications to the approved design; these are subject to additional approval where such changes may affect the conformity of the pressure equipment with the essential requirements of the Directive or the prescribed conditions for use of the equipment. This additional approval must be given in the form of an addition to the original EC design-examination certificate

The manufacturer must keep the technical documentation referred to in Section 3 copies of EC design-examination certificates and their additions for a period of ten years after the last of the pressure equipment has been manufactured. If the standards related to the certified product are amended or new standards are issued, it is necessary to check the applicability of the certificate.



Inspected by

Dimitrios Papadopoulos
MSc. Dipl. Mechanical Eng. Dr. Welding Eng.
Level II RT , MT , PT , UT

Approved by:

Lazaros Karanikas
General Director

INSPECTION REPORT SUMMARY

Manufacturer: ΔΥΝΗ Α.Ε. ΜΗΧΑΝΟΚΑΤΑΣΚΕΥΕΣ
ΙΩΝΙΑ ΘΕΣΣΑΛΟΝΙΚΗΣ Τ.Κ. 57008
ΘΕΣΣΑΛΟΝΙΚΗ ΕΛΛΑΣ

EC Design Examination Certificate: 12.108.0 of 017.12.2013

Description: HEATING BOILER FOR SOLID FUELS MANUALLY STOKED
WITH NOMINAL HEAT OUTPUT OF UP TO 500 KW

Type of Boiler: BC3 50/60

A/A	DESCRIPTION	RESULTS
1	Manufacturer data declaration	Acceptable!
2	Mechanical calculation	Acceptable!
3	Construction dwg.	Acceptable!
4	Material certificates	Acceptable!
5	WPS, PQR, WPQ	Acceptable!
6	Welding map	Acceptable!
7	N.D.T. REPORTS: General inspection report No: Hydrostatic Test Pressure: No:	Acceptable!
8	Instruction and maintenance manual	Acceptable!
9	Manufacturer declaration of conformity CE	Acceptable!
10	Checking of name plate	Acceptable!
11	Hazard and risk analysis	Acceptable!

The boiler described above, after examination of the technical documentation, inspection and checking of testing procedures, is found to be in compliance with the essential requirements referred to in 2.10, 2.11, 3.4, 5 (a) and 5 (d) of Annex I of the relevant Legislation and specification (FEK 987/27.5.99 – PED 97/23 EC).



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CONFORMITY ASSESSMENT REPORT

Manufacturer: ΔΥΝΗ Α.Ε. ΜΗΧΑΝΟΚΑΤΑΣΚΕΥΕΣ
ΙΩΝΙΑ ΘΕΣΣΑΛΟΝΙΚΗΣ Τ.Κ. 57008
ΘΕΣΣΑΛΟΝΙΚΗ ΕΛΛΑΣ

EC Design Examination Certificate: 12.108.0 of 17.12.2013

Description: HEATING BOILER FOR SOLID FUELS MANUALLY STOKED
WITH NOMINAL HEAT OUTPUT OF UP TO 500 KW

Type of Boiler: BC3 50/60

No	Area of activity	Inspection operation	Conformity assessment	
			Results	Date
1 Design and general documentation				
1.1	Design data/calculations	Check that design data/calculations conform to: <ul style="list-style-type: none">• technical specification if applicable.• the requirements of EN 303 – 5 : 2012.• applicable regulatory requirements	OK!	13.12.2013
1.2	Manufacturing drawings	Check that drawing information conforms to: <ul style="list-style-type: none">• design data and calculations.• technical specification if applicable.• the requirements of EN 303 – 5 : 2012.	OK!	13.12.2013
1.3	Specifications for subcontracted parts	Check that specifications for subcontracted parts conform to: <ul style="list-style-type: none">• technical specification if applicable.• manufacturing drawing.• the requirements of EN 303 – 5 : 2012.	N/A	
2 Material				
2.1	Material certificates	Verify that certificate information and results conform to the design specification.	OK!	13.12.2013
2.2	Welding consumables	Verify that consumables to be used are in accordance with the design specification.	OK!	13.12.2013
2.3	Transfer of identification marks	Examination of the procedure drawn up by the manufacturer for the transfer of marks.	N/A	
3 Fabrication and welding				
3.1	Welding specifications	Verify that appropriate welding specifications are available and their contents are compatible with welding procedure approvals.	OK!	13.12.2013
3.2	Welding procedures approvals	Verify that welding procedures, approved by a Cert.body, are available for the materials and field of welding applications.	OK!	13.12.2013
3.3	Welder approval	Verify that welder approvals, approved by a Cert.body, are available and valid.	OK!	13.12.2013

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3.4	Forming procedures	Verify that forming procedures are available, where applicable, and their contents are appropriate to the product to be formed	N/A	
4	Non-destructive examination of welds			
4.1	Non-destructive examination reports	Verify that information and results conform to the acceptance criteria	N/A	
5	Final inspection (voluntary)			
5.1	Pre-hydrostatic pressure test inspection	Dimensional checking, visual examination and identification of accessible parts after component completion, prior to hydrostatic pressure test .	N/A	
5.2	Hydrostatic pressure test	Witness final hydrostatic pressure test .	N/A	
5.3	Post-hydrostatic pressure test inspection	Visual examination on completion of hydrostatic pressure test. Check marking on nameplate	N/A	
5.4	Manufacturer's data dossier	Review data dossier for completeness.	OK!	16.12.2013
6	Actions required under the PED 97/23 EC			
6.1	Design examination certificate	Issue a Design examination certificate	OK!	17.12.2013
6.2	Test report	Issue a Conformity Assessment report	OK!	17.12.2013

The boiler described above, after examination of the technical file documentations, inspection and checking of testing procedures is found to be in compliance with relevant Legislation and specifications (FEK 987/27.5.99 – PED 97/23 EC).



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