



Dok.nr
K-02-21:1

DECLARATION OF CE CONFORMITY

We LVI produkter AB

Declare that the product

Liquid filled electrical radiators types:

MEC-303, 303/2, 305, 305/2, 308, 308/2, 310, 310/2, 312/2, 316/2, 320/2, 503, 505, 505/2, 508, 508/2, 510, 510/2, 512, 512/2, 516/2 and 520/2.

Complies with the provisions of Council Directives the Low Voltage Directive, LVD (73/23/EEC plus 93/68/EEC) and the EMC Directive (89/336/EEC)

and complies with the following standards:

EN 60 335-1:94, A1, A11-A16
60 335-2-30:97, A1
EN 55 014-1 (1993), A1
EN 61 000-3-2 (1995)
EN 61 000-3-3 (1995)
EN 55 014-2 (1997)

This product is manufactured according to ISO 9001 quality assurance model, certificate No. 10594.

Date of affixing CE marking: 2003

Place and date: Järpås 2003-11-04
Manufacturer: LVI produkter AB

Legally binding
Signature of manufacturer:

Leif Lyrenäs
Managing Director

DECLARATION OF CONFORMITY

We, ADAX AS
(Supplier's name)

P.o. Box 38, 3061 SVELVIK, NORWAY
(Address)

declare under our sole responsibility that the product(s)

Convactor heaters produced by ADAX AS under brand name GLAMOX HEATING ,
types TPA and TLO, with regulator units ET,DT,RFR or FTT-10

(Name, type and model or series)

*to which this declaration relates is in conformity with the following standard(s) or other
normative document(s)*

EN 60 335-1:94 +A11:95+A1:96+A13:98+A14:98+A15:00+A2:00+A16:01,

EN 60 335-2-30:97 + A1:00.

EMC std: EN 55014-1:00+A1:01+A2:02, EN 61000-3-2:00, EN 61000-3-3:95+A1:01

EN 55104-2:97+A1:01

(Number and date of issue of standard(s) or other normative document(s))

(if applicable) following the provisions of 73/23/EEC + 93/68/EEC – Low voltage
Directive(s) 89/336/EEC -Electromagnetic Compability

NEMKO type-examination certificate no P03201384 *issued* 15.12.03

CB type-examination certificate no 27521, 27522 *issued* 15.12.03

CB certificate issuedby NEMKO

Year in which CE mark was affixed 1997

Svelvik, December 2003

(Place and date of issue)

F. Tærud

Finn Tærud
Engineering Manager

(Name and signature of authorized person)

IEC SYSTEM FOR CONFORMITY TESTING TO
STANDARDS FOR SAFETY OF ELECTRICAL
EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX
NORMES DE SECURITE DE L'EQUIPMENT
ELECTRIQUE (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICATE D'ESSAI OC

Product

Produit

Name and address of the applicant

Nom et adresse du demandeur

Name and address of the manufacturer

Nom et adresse du fabricant

Name and address of the factory

Nom et adresse de l'usine

Rating and principal characteristics

Valeurs nominales et caractéristiques principales

Trade mark (if any)

Marque de fabrique (si elle existe)

Model/type Ref.

Ref. de type

Additional information (if necessary)

Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with

*Un échantillon de ce produit a été essayé et a été
considéré conforme à la*

as shown in the Test Report Ref. No.

which forms part of this certificate

*comme indiqué dans le Rapport d'essais numéro
de référence*

qui constitue un partie de ce certificat

Convector heater

Adax AS
Postboks 38
3061 SVELVIK
NORWAY

Adax AS
Postboks 38
3061 SVELVIK
NORWAY

Adax AS
Myresgate 1
3061 SVELVIK
NORWAY

2000W, 1500W, 1200W, 1000W, 800W, 600W, 400W
230V or 400V AC 50/60Hz

Cl.II, flexible cord or permanent connection. The two dots
denotes respectively; 04=400W, 06=600W, 08=800W, 10=1000W,
12=1200W, 15=1500W, 20=2000W

GLAMOX HEATING

TPA.

IEC 60335-1:91 +A1:94 +A2:99
IEC 60335-2-30:96 +A1:99

15907

This CB Test Certificate is issued by the National Certification Body

Ce Certificate d'essai OC est établi par l'Organisme National de Certification



P.O. BOX 73, BLINDERN
N-0314 OSLO, NORWAY

Date

15 December 2003

Signature

Terje Ulsrud
Certification Department

IEC SYSTEM FOR CONFORMITY TESTING TO
STANDARDS FOR SAFETY OF ELECTRICAL
EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX
NORMES DE SECURITE DE L'EQUIPMENT
ELECTRIQUE (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICATE D'ESSAI OC

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

Name and address of the factory
Nom et adresse de l'usine

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Trade mark (if any)
Marque de fabrique (si elle existe)

Model/type Ref.
Ref. de type

Additional information (if necessary)
Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with
*Un échantillon de ce produit a été essayé et a été
considéré conforme à la*

as shown in the Test Report Ref. No.
which forms part of this certificate
*comme indiqué dans le Rapport d'essais numéro
de référence
qui constitue un partie de ce certificat*

Convector heater

Adax AS
Postboks 38
3061 SVELVIK
NORWAY

Adax AS
Postboks 38
3061 SVELVIK
NORWAY

Adax AS
Myresgate 1
3061 SVELVIK
NORWAY

1400W, 1200W, 750W, 500W 250W 230V or 400V AC 50/60Hz
Cl.II, flexible cord or permanent connection. The two dots
denotes respectively; 03=250W, 05=500W, 07=750W, 10=1000W,
14=1400W

GLAMOX HEATING

TLO..

IEC 60335-1:91 +A1:94 +A2:99
IEC 60335-2-30:96 +A1:99

15907

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P.O. BOX 73, BLINDERN
N-0314 OSLO, NORWAY

Date 15 December 2003

Signature 
Terje Ulsrud
Certification Department



CERTIFICATE

No. P03201384

Order No. 15907

Applicant Adax AS
Postboks 38
3061 SVELVIK
NORWAY

Manufacturer Adax AS
Postboks 38
3061 SVELVIK
NORWAY

Factory Adax AS
Myresgate 1
3061 SVELVIK
NORWAY

Group Convector heater

Model/type TPA..

Data 2000W, 1500W, 1200W, 1000W, 800W, 600W, 400W 230V or 400V AC 50/60Hz

Other specification Cl.II, flexible cord or permanent connection. The two dots denotes respectively;
04=400W, 06=600W, 08=800W, 10=1000W, 12=1200W, 15=1500W, 20=2000W

The above product is certified according to the following standard(s)
Safety std.: EN 60335-1:94 +A11:95 +A1:96 +A13:98 +A14:98 +A15:00 +A2:00 +A16:01
EN 60335-2-30:97 +A1:00, including possible listed national conditions/deviations for Norway.
EMC std.: EN 55014-1:00 +A1:01 +A2:02
EN 61000-3-2:00
EN 61000-3-3:95 +A1:01
EN 55014-2:97 +A1:01

Validity This certificate documents conformity with the standards shown, and also applies as license for use of Nemko's name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation.
New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.

Additional information Additional information on page 2

Variants This Certificate also covers variants with Position No. from 001 to 002
See next page(s)

Date of issue 15 December 2003

signature
Terje Ulsrud
Certification Department

No. P03201384

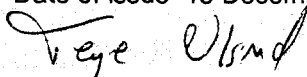
Order No. 15907

Additional Information:

The above certified equipment complies with current technical statutory requirements in Norway regarding safety and Electromagnetic Compatibility (EMC). It should be noted that by marketing of equipment subject to official registration in Norway, the party responsible for the marketing shall be registered by the Norwegian Directorate for Product- and Electrical Safety.

Group	Convactor heater
Position No	001
Model/type	TLO..
Data	1400W, 1200W, 750W, 500W 250W 230V or 400V AC 50/60Hz
Other specification	CI.II, flexible cord or permanent connection. The two dots denotes respectively; 03=250W, 05=500W, 07=750W, 10=1000W, 14=1400W
Group	Convactor heater
Position No	002
Model/type	TPVD..
Data	1000W, 800W, 600W, 400W 230 or 400V AC 50/60Hz
Other specification	CI.II, IP 24, flexible cord or permanent connection. The two dots denotes respectively; 04=400W, 06=600W, 08=800W, 10=1000W

Date of issue 15 December 2003



signature

Terje Ulsrud


Certification Department



Nemko

Order No. 15907

IEC 60335-2-30:96 and EN 60335-2-30:97 Safety of household and similar electrical appliances

Product	Convector heater		
Name and address of the applicant	Adax AS Postboks 38 3061 Svelvik Norway		
Name and address of the manufacturer	Adax AS Postboks 38 3061 Svelvik Norway		
Name and address of the factory	Adax AS Myresgate 1 3061 Svelvik Norway		
Rating and principal characteristics	2000W, 230 or 400V AC, Cl. II flexible cord or permanent connection		
Trade mark (if any)	Glamox		
Model/type	TPA..	TLO..	TPVD..
Serial no			
Additional information	See page 4.		
Tested according to	IEC 60335-2-30:96 + A1:99 (see also IEC 60335-1:91+ A1:94 + A2:99) EN 60335-2-30:97 + A1:00 (see also EN 60335-1:94 +A11:95 +A1:96 + A13:98 +A14:98 +A15:00 +A2:00 +A16:01)		
	Safety of household and similar electrical appliances Part 2-30: Particular requirements for room heaters		
Name and address of the testing laboratory	 Nemko PO Box 73 Blindern, N-0314 Oslo, Norway	Telephone (+47) 22 96 03 30 Fax (+47) 22 96 05 50	
Test sample(s) received	2003-10-24.		
Tested in period	2003-11-03 to 2003-11-26 The test results relate only to the sample(s) tested.		
Tested by	<i>Trond Salater</i>		
	signature	date	
	Trond Salater	2003-11-28	
	name in block letters		
Verified by	<i>Kenneth Narvestad</i>		
	signature	date	
	Kenneth Narvestad	2003-11-28	
	name in block letters		

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Tested according to additional information:	
National requirements:	See annex ZA and ZB
Other requirements:	
Test item particulars:	
Nature of supply :	a.c.
Class of protection against electrical shock :	Class II
Degree of protection against moisture :	IPX0 or IP24* (*= type TPVD..)
Type of cord attachment :	Type Y
Nominal capacity of container :	
Type of mounting :	
- building-in :	No
- independent :	Yes
- to be fixed to a support :	Yes
- hand-held :	No
switch :	Yes
thermostat :	Yes
thermal cut-out :	Yes
electronic circuit :	Yes, (Thermostat)
programme controller :	No
timer :	No
portable appliance :	No
more than one function :	No
alternative accessories provided :	Yes (Thermostat type ET, EV and DT)
interlock between lid and main switch :	No
water outlet :	No
power supply cord provided :	Yes
appliance inlet provided :	No
appliance for unattended use :	Yes
bare heating elements :	No
series motors incorporated :	No
motor with capacitor in auxiliary winding :	No
appliance to be immersed for cleaning :	No
appliance for outdoor use :	No
connector incorporating a thermostat :	No

General remarks:

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced except in full without the written approval of the testing laboratory.

Possible test case verdicts:

P = Pass, **F** = Fail, **N** = Not applicable. Placed in the column to the right (Verdict)

In this report clauses and subclauses that are valid only for the IEC standard are marked IEC 335-1.

Clauses and subclauses valid only for the EN standard are marked EN 60335-1.

Copy of marking plate:

GLAMOX HEATING **CE**
 ADAX AS, Svelvik, Norway
 Type: TPA 20 **S3**
 2000W 230V AC 50/60Hz

GLAMOX HEATING **CE**
 ADAX AS, Svelvik, Norway
 Type: TPA 10 **S3**
 1000W 230V AC 50/60Hz

GLAMOX HEATING **CE**
 ADAX AS, Svelvik, Norway
 Type: TPA 04 **S3**
 400W 230V AC 50/60Hz

GLAMOX HEATING
 ADAX AS, Svelvik, Norway **CE**
 Type: TLO 10 **S3**
 1000W 230V AC 50/60Hz

GLAMOX HEATING **CE**
 ADAX AS, Svelvik, Norway
 Type: TLO 03 **S3**
 250W 230V AC 50/60Hz

	ADDITIONAL INFORMATION
	<p><u>Variants also covered by this test report:</u></p> <p>TPA 04 400W 230 or 400V AC Cl. II TPA 06 600W 230 or 400V AC Cl. II TPA 08 800W 230 or 400V AC Cl. II TPA 10 1000W 230 or 400V AC Cl. II TPA 12 1200W 230 or 400V AC Cl. II TPA 15 1500W 230 or 400V AC Cl. II</p> <p>TLO 03 250W 230 or 400V AC Cl. II TLO 05 500W 230 or 400V AC Cl. II TLO 07 750W 230 or 400V AC Cl. II TLO 10 1000W 230 or 400V AC Cl. II TLO 14 1400W 230 or 400V AC Cl. II</p> <p>TPVD 04 400W 230 or 400V AC Cl. II IP24 TPVD 06 600W 230 or 400V AC Cl. II IP24 TPVD 08 800W 230 or 400V AC Cl. II IP24 TPVD 10 1000W 230 or 400V AC Cl. II IP24</p> <p>Optional control units:</p> <p>DT digital electronic thermostat for variant TPA .. and TLO .. ET electronic thermostat for variant TPA .. and TLO .. EV electronic thermostat for model TPVD .. (similar as ET but with IP24 clasification)</p> <p><i>The two dots denotes 03=250W, 04=400W, 05=500W, 06=600, 07=750W, 08=800W, 10=1000W, 12=1200W, 14=1400W, 15=1500W, 20=2000W</i></p>
	NAME AND ADDRESS OF ADDITIONAL PRODUCTION-SITES (FACTORIES):
	INFORMATION ABOUT OTHER STANDARDS / DOCUMENTS CONSIDERED:
	EMC standards: EN 55014-1:2000 + A1:2001 + A2:2002 EN 61000-3-2:2000 EN 61000-3-3:1995 + A1:2001 EN 55014-2:1997 + A1:2001
	TESTED ACCORDING TO NATIONAL REQUIREMENTS FOR THE FOLLOWING COUNTRIES:
	See annex ZA and ZB.
	LIST OF APPENDIXES / ENCLOSURES TO THE TEST REPORT:
	For EMC-documentation see separate Nemko test reports.