

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **BAS01ATEX2028X/1**
- 4 Equipment or Protective System: **A THERMOSAFE INDUCTION HEATER TYPE A**
- 5 Manufacturer: **L.M.K. THERMOSAFE LTD**
- 6 Address: **10/12 Spring Rise, Falconer Road, Haverhill, Suffolk, CB9 7XU**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. BAS01ATEX2028X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **0638**

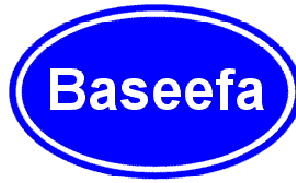
Project File No. **02/0213**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number BAS01ATEX2028X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

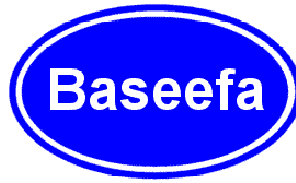
Allows for the use of supplies at varying voltages according to the following table where the appropriate Temperature class is specified:

Nominal supply voltage 50Hz single phase Volts	Nominal drum wall temperature at 20°C ambient °C	Certified Temperature Class for a 40°C ambient temperature
100	39	75°C(T6)
110	48	85°C(T6)
115	52	90°C(T5)
120	56	90°C(T5)
121	57	90°C(T5)
127	61	95°C(T5)
146	72	105°C(T4)
207	104	145°C(T3)
220	112	155°C(T3)
230	119	165°C(T3)
240	123	170°C(T3)

Other voltages may be used on an interpolation basis when agreed with the manufacturer.

The table above may be redrawn to give the particular voltage for a given temperature class or maximum drum wall temperature:

Maximum drum wall temperature at 20°C ambient	Actual supply voltage 50Hz single phase Volts	Certified Temperature Class
40°C	102	75°C(T6)
50°C	113	85°C(T6)
55°C	119	90°C(T5)
60°C	126	95°C(T5)
70°C	142	105°C(T4)
80°C	161	115°C(T4)
85°C	170	120°C(T4)



90°C	180	125°C(T4)
95°C	190	135°C(T4)
100°C	199	140°C(T3)
105°C	208	145°C(T3)
110°C	216	150°C(T3)
115°C	223	160°C(T3)
120°C	231	165°C(T3)
123°C	240	170°C(T3)

Variation 1.2

Allows for the range of drums to be heated to include the following with the indicated limitations:

Plastic or non-magnetic metallic drums or containers

With the heater limited to 127Volts; in this arrangement the unit acts simply as a resistance heater.

Mild Steel drums up to size 210 litre

at all voltages but with the Temperature class limited to 170°C(T3) in all cases

Variation 1.3

Allows for the range of allowed cable glands to be extended as detailed in the certified drawings.

16 Report Number

None

17 Special Conditions for Safe Use

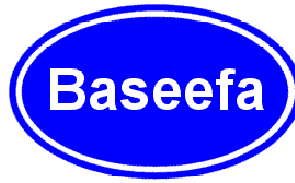
In the case of Variation 1.2 the special condition b of the original schedule is replaced by:

The apparatus is certified for the purpose of heating steel drums of 45 gallons (55 US gallons)/210litre capacity and the drums specified in Variation 1.2 with the limitations imposed in that Variation. The apparatus is not intended for use with any other ferromagnetic substance.

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.



19 Drawings and Documents

Number	Issue	Date	Description
1023	3	20/05/03	General Arrangement
1024	5	08/05/03	Label Detail
1025	3	08/05/03	Constructional details