

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate number **LOM 04ATEX2085 X**

(4) Equipment or Protection System Axial fans
Series HCTT-EX, types HCTT/*-***-* EX ***

(5) Applicant: Soler y Palau, S.A.

(6) Address: Ctra. Puigcerdá s/n
17500 RIPOLL (GERONA)
SPAIN

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.


(8) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
The examination and test results are recorded in confidential report nr. **LOM 03.474 QP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- Standards **EN 50014:1997 + A1:1999 + A2:1999**
EN 50019:2000
prEN 14986:2004

(10) If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive applies to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 II 2 G EEx e II T3



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Madrid, 5 July 2004

Angel Vega Remesal
Head of TEX area

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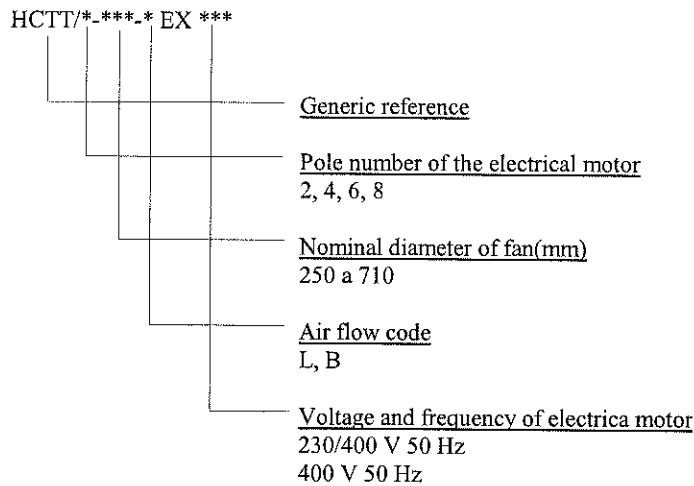
LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 04ATEX2085 X**

(A3) Description of equipment or protective system

Series of fans of axial flow driven by increased safety triphasic electric motor in different sizes and with the following nomenclature of type :

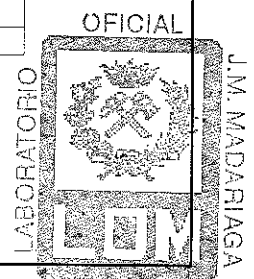


Fan impellers are manufactured in injected aluminium , and the fan casing is made in steel.

Motor connection boxes are separated from motor and installed on the external side of fan.

Fan type	Motor type	Absorbed electrical power (W)	Current (A)	I _A /I _N
HCTT/4-315	MCHT/4-518 M3	150	0,3	2,5
HCTT/4-355	MCHT/4-530 M3	200	0,5	2,5
HCTT/4-400	MCHT/4-540 M3	300	0,8	2,5
HCTT/4-450	MCHT/4-640 M3	500	1,0	3,5
HCTT/4-500	MCHT/4-650 M3	660	1,6	3,5
HCTT/4-560	MCHT/4-665 M3	1210	2,3	4,2
HCTT/4-630	MCHT/4-690 M3	1550	3,0	4,2
HCTT/4-710	MCHT/4-611 M3	2200	4,0	4,5
HCTT/6-355	MCHT/6-530 M3	90	0,3	2,5
HCTT/6-400	MCHT/6-530 M3	110	0,3	2,5
HCTT/6-450	MCHT/6-625 M3	190	0,5	3,0
HCTT/6-500	MCHT/6-630 M3	250	0,6	3,0
HCTT/6-560	MCHT/6-640 M3	410	0,9	3,0
HCTT/6-630	MCHT/6-650 M3	600	1,2	3,0
HCTT/6-710	MCHT/6-690 M3	1100	3,3	3,0
HCTT/8-450	MCHT/8-625 M3	130	0,4	2,5
HCTT/8-500	MCHT/8-625 M3	150	0,4	2,5
HCTT/8-560	MCHT/8-630 M3	220	0,6	2,5
HCTT/8-630	MCHT/8-640 M3	310	0,8	2,5
HCTT/8-710	MCHT/8-665 M3	370	1,2	3,0

Specific parameters: $t_E=14$ s for MC*T/4-611 motor
 $t_E=30$ s for all others



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(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 04ATEX2085 X**

(A4) Tets report nr. **LOM 03.474 QP**

(A5) Special conditions for a safe use

- The conditions indicated by the manufacturer have to be kept to avoid the entry of foreign bodies to the fan by means of the maintenance of the adequated IP degree of protection.

(A6) Individual tests

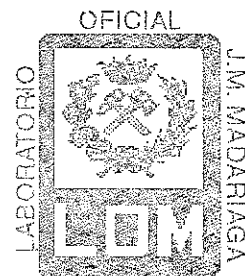
Each manufactured motor must be submitted to a dielectric test at 1800 Vac according the paragraph 7.1 of the standard EN 50019:2000

(A7) Essential Health and Safety Requirements

Explosion safe requirements are covered by application of the standards indicated in page 1/4 of this certificate

(A8) Descriptive documents

	<u>Rev.</u>	<u>Date</u>
- Description nr. ATEX 010	-	2003-08-28



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(1) **EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. 1 to EC-Type Examination Certificate number **LOM 04ATEX2085 X**

(4) Equipment or Protection System Axial fans
Series HCTT-EX, types HCTT/*-***-* EX ***

(5) Applicant Soler & Palau Sistemas de Ventilación, S.L.U.

(6) Address C/ Llevant, 4
Pól. Ind. Llevant
08150 – Parets del Vallès (Barcelona)
SPAIN

(7) Test report nr.: **LOM 08.541 NP**

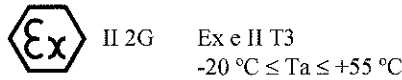
(8) Variations included in this certificate

- To extend the ambient operating temperature to : $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
 t_E parameters change in the following fan motors, but they remain unchanged for the rest:

	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
Motor MC*T/4-611	t_E : 14 s	t_E : 11 s
Motor MC*T/4-690	t_E : 12 s	t_E : 10 s

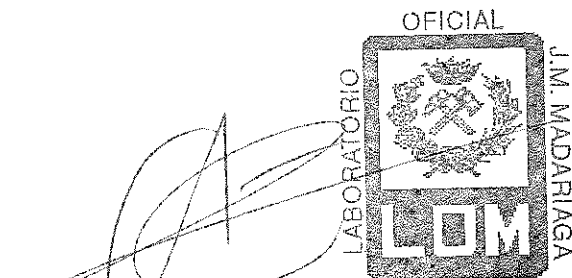
- Assessment update by using the standards EN 60079-0:2006 and EN 60079-7:2007

(9) Changes in marking



(10) Descriptive documents

		<u>Rev.</u>	<u>Date</u>
- Description	ATEX 03/2009	-	2009-02-26



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Madrid, 27th February, 2009

Angel Vega Remesal
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 04ATEX2085 X**

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(1) **EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. **2** to EC-Type Examination Certificate number **LOM 04ATEX2085 X**

(4) Equipment or Protection System Axial fans
Series HCTT-EX, types HCTT/*-***-* EX ***

(5) Manufacturer Soler & Palau Sistemas de Ventilación, S.L.U.


(6) Address Carretera Puigcerdá s/n
17500 – Ripoll (Gerona)
SPAIN

(7) Test report nr.: **LOM 13.481 NP**

(8) Variations included in this certificate

Assessment update to the standards EN 60079-0:2012 and EN 60079-7:2007

(9) Changes in marking

 II 2G Ex e IIC T3 Gb
-20 °C ≤ Ta ≤ +55 °C


(10) Changes in the special conditions for a safe use

Without changes

(11) Descriptive documents

	<u>Rev.</u>	<u>Date</u>
- Technical dossier	-	2013-10-07

Getafe, 2014-07-21


Carlos Fernández Ramón
Head of Certification Committee

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1 **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres.
Directive 2014/34/EU

3 Supplementary EU-Type Examination Certificate Number **LOM 04ATEX2085X/3** issue **0**

4 Product Axial fans
Series HCTT-EX, types HCTT/*-***-EX ***

5 Manufacturer Soler & Palau Sistemas de Ventilación, S.L.U.

6 Address Carretera Puigcerdá s/n
17500 – Ripoll (Gerona)
SPAIN

7 This supplementary certificate extends EC – Type Examination Certificate No. LOM 04ATEX2085X to apply to products 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.

8 Laboratorio Oficial J.M. Madariaga (LOM), Notified Body number 0163 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive

9 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Getafe,
Signed electronically by:

GARCIA TORRENT
FRANCISCO JAVIER
- 05356542A
2019.07.12
13:03:55 +02'00'

Certification Committee

RCPCR 25.17/4

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LABORATORIO OFICIAL J. M. MADARIAGA

13 SCHEDULE

14 Supplementary EU-Type Examination Certificate Number **LOM 04ATEX2085X/3**

15 Description of the variation to the Product

- Alternative use of rail-mounted increased safety connection terminals of type ZDUB 2.5-2/4AN from Weidmüller
- Update to the standards EN 60079-0:2012 and EN 60079-7:2015
- Change of the marking



II 2G Ex eb IIB T3 Gb

16 Report Number 19.220G

17 Specific Conditions of Use

No changes

18 Essential Health and Safety Requirements

No changes

19 Documents and drawings

Number	Sheets	Issue	Date	Description
ATEX 19-002	18	-	2019-05-08	Technical description