



Certificate of Compliance

Certificate: 80063725

Master Contract: 213679

Project: 80063725

Date Issued: 2021-05-10

Issued To: ESA S.p.A.
Via E. Fermi 40
Curno, Bergamo, 24035
Italy

Attention: Daniele Busetti

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: Ying Wang, P. Eng.
Ying Wang, P. Eng.



PRODUCTS

CLASS - C263283 - FUEL BURNING EQUIPMENT(GAS)-Gas Burners Electrical Equipment for Accessories-Certified to U.S. Standards

CLASS - C263203 - FUEL BURNING EQUIPMENT (GAS) Gas Burners, Electrical Equipment for Accessories

CLASS - C264203 - FUEL BURNING EQUIPMENT (OIL) Oil Burners, Electrical Equipment for Accessories

CLASS - C264283 - FUEL BURNING EQUIPMENT(OIL)-Oil Burners Electrical Equipment for Accessories-Certified to U.S. Standards

Programmable controls contain latest Software Version and released date (as indicated Table 1) which is employed on burner controller, model ESTRO A2..., ESTRO B2..., ESTRO C2..., and ESTRO Q2.... for not-permanent or permanent burner operation. The electrical rating is indicated as bellowed:

Table 1a Product & Software Version:



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	Burner control device model: ESTRO-A		
	Flame check every 60 minutes	Flame check every 10 minutes	Flame check every 60 seconds
Burner control version	2.2.a	2.2.a	2.2.a
SW Project	80063726 Ed 1	80063726 Ed 1	80063726 Ed 1

Table 1b Product & Software Version:

	Burner control device model: ESTRO-B, ESTRO-C, ESTRO-Q		
	Flame check every 60 minutes	Flame check every 10 minutes	Flame check every 60 seconds
Burner control version	2.2.a	2.2.a	2.2.a
SW Project	80063726 Ed 1	80063726 Ed 1	80063726 Ed 1

Electrical Ratings

Applied Technologies	Complex Electronic	
Electrical Supply	230Vac 45~65Hz	
	115Vac 45~65Hz	
Ambient Temperature	0~60°C	
Number of Cycles	100,000 Cycles	
Type of Control	Type 2	
Class of software	Class C Automatic Burner Control System	
IP Rating	IP54	
Flame Detection	Ionization or ESAUV-2	
Gas Valve Output	230Vac / Max 1.5A	Max Total Current of all Outputs is 4A.
	115Vac / Max 1.5A	
	Gas Valve Polit Output (if applicable)	
	115Vac / Max 1.5A	
Fan Output	230Vac / Max 1.5A	
	115Vac / Max 1.5A	
Type of operation	Not permanent with ionization rod or UV-2 without UV shutter or permanent with ionization rod or UV-2 with UV shutter	

Timing:

PRE-PURGE TIME: 0 - 99 s or 2-20 minutes

IGNITON TIME: 1 - 25 s

POST-PURGE TIME: 0 - 99 s or 2-4 minutes

REACTION TIME: 1 - 25 s



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MAIN BURNER STABILIZATION TIME (IF APPLICABLE): 0 - 25 s

Notes:

1. Above model is Certified as automatic burning and ignition control to be used in CSA Certified equipment where the suitability of the combination is evaluated by CSA Group.
2. The ESTRO A2..., ESTRO B2..., ESTRO C2..., and ESTRO Q2... automatic burner control systems are provided with software Version as confirmed in software report as Appendix B of this report 80063726. The control Class C is for burning and ignition control with the flame sensing safety functions.
3. The investigation for above models are based on ESTRO 2.0 according to kiwa report 321227 issued date of 29-07-2008 (CSA Report 1264559). The changes between ESTRO 2.0 to ESTRO 2.2a are outlined with Table 2. The investigation result of ESTRO 2.2a by kiwa is reviewed and accepted by CSA due to the similar requirements.
4. Above model is Certified as both oil/gas application. The CI DVMM of C22.2 No 60730-2-5:14 is subjected to complete evaluation together with oil ignitor which is not part of the scope of this report.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 60730-2-5:14 - Automatic electrical controls for household and similar use - Part 2-5: Particular requirements for automatic electrical burner control systems - First Edition

ANSI Z21.20 / UL 60730-2-5:14 - UL Standard for Safety Automatic Electrical Controls for Household and Similar Use, Part 2-5: Particular Requirements for Automatic Electrical Burner Control Systems - Third Edition

CAN/CSA-C22.2 No 60730-1:13 - Automatic electrical controls for household and similar use - Part 1: General requirements - Fourth Edition

UL 60730-1:09 - UL Standard for Safety Automatic Electrical Controls for Household and Similar Use, Part 1: General Requirements - Fourth Edition

MARKINGS

Per Report.



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80063725	2021-05-10	Original certification to evaluate the HW of the flame sending unit and oil-burning model" ESTRO burner control Unit" referred to Notice: "Gas Products No. 340B - Ref No: N17-094".