



<b>Number</b>	KIP-16422/G	<b>Replaces</b>	KIP-15301/G
<b>Issue date</b>	26-09-2019	<b>Contract number</b>	I7800
<b>Due date</b>	25-09-2029	<b>Scope</b>	(EU) 2016/426 (9 March 2016)
<b>Report number</b>	2000898/1	<b>Module</b>	B (Type testing)
<b>PIN</b>	0476CS0898		

## EU TYPE-EXAMINATION CERTIFICATE (GAR)

Kiwa Cermet Italia declares that the automatic control system(s), type(s):

**Series ESTROA2....., ESTROB2....., ESTROC2....., ESTROQ2.....**

Manufacturer

**ESA S.P.A.**  
**Via Canovine 2/4,**  
**24126, Bergamo (BG), Italy**

Meet the essential requirements as described in the  
**Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.**

Reference standard: EN 298:2012, EN 14459:2007

This certificate is only valid in combination with the appendix to this certificate, where specific information and/or conditions are given.

# CERTIFICATE

**Kiwa Cermet Italia S.p.A.**  
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direzione e coordinamento di Kiwa Italia  
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**GASTEC**

**Chief Operating Officer**  
*Giampiero Belcredi*



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## APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (GAR)

Brand name:  
ESA

The ESA automatic burner control system(s), series ESTRO..., are intended for use on fuel (gas and oil) fired appliances and non-permanent or permanent operation, as stated in clause 6.6 of EN 298:2012. The control(s) are provided with an enclosure and they are intended for installation in an environment or enclosure, meeting the requirements of EN 60730-1:2011 in order to provide pollution degree 1 or 2.

List of all available types:

ESTRO A2...	ESTRO B2...	ESTRO C2...	ESTRO Q2...
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Specifications:

Applied technology:	Complex electronics	
Electrical supply:	230 Vac 45-65 Hz.	
	115 Vac 45-65 Hz	
Ambient temperature:	0 °C to +60 °C	
IP protection degree:	IP 54	
Flame detection:	Ionisation or ESA UV-2	
Gas valve output:	230 Vac / max 1.5 A	max. total current of all outputs together is 4 A
	115 Vac / max 1.5 A	
Gas valve pilot output (if applicable):	230 Vac / max 1.5 A	
	115 Vac / max 1.5 A	
Fan output:	230 Vac / max 1.5 A	
	115 Vac / max 1.5 A	

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Reset function:	EN 14459, Annex J	Class B

Remarks:

- See the installation and operating instructions for all specifications and possible options available for the above listed type(s).
- The expansion card types EXP2, EXP3, EXP4 and EXP5 are intended to manage non-safety relevant input and output signals. The only exception is for the APS input, physically placed on the EXP2, EXP4 and EXP5 card but directly managed by the automatic burner control ESTRO.
- The manufacturer can set the burner control system ESTRO to have some functional behaviours not fully compliance with the relevant clauses of EN298:2012. In all these cases, the compliance with the relevant standard must be assessed as part of appliance approval.

The validity of this certificate can be verified on request at the following e-mail address: [info@kiwacermet.it](mailto:info@kiwacermet.it)  
 This certificate will expire if there have been any changes to the product that may have an impact on compliance with the requirements of the Directive. This certificate will expire if there have been any updates and / or changes to the Technical Standards applicable unless specifically approved by Kiwa Cermet Italia.  
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