



1. **TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective Systems Intended for use in
Potentially explosive atmospheres
Directive 2014/34/EU**
3. Reference: **VTT 15 ATEX 014 Issue 1**
4. Equipment: **AlfaSolar SE series industrial dry cooler**
5. Manufacturer: **Alfa Laval Vantaa Oy
Ansatie 3
01740 Vantaa
Finland**
6. This equipment or protective system and any acceptable variations thereto are specified in the schedule and possible supplement(s) to this Certificate and the documents therein referred to.
7. VTT Expert Services Ltd, notified body number 0537, in accordance with Article 21 of the Directive 2014/34/EU of February 2014, 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 system intended for use in potentially explosive atmospheres given in Annex II to the Directive.
8. The examination and test results are recorded in confidential Report no VTT-S-04574-17.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN ISO 80079-36 (2016)
EN ISO 80079-37 (2016)
EN 14986 (2017)**
10. If the sign "X" is placed after the certificate number, it indicates that this equipment is subject to special conditions for safe use specified in the schedule to this Certificate.



11. This Type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the directive 2014/34/EU.

Further requirements of the Directive may apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

12. The marking of the equipment shall include the following:



II 2 G

Ex h IIB T3...T4 Gb

Espoo, 31.8.2017

VTT Expert Services Ltd



Martti Siirola
Senior Expert



Riku Vuorinen
Product Manager

13. **Schedule**14. **TYPE EXAMINATION CERTIFICATE No. VTT 15 ATEX 014 Issue 1**15. Description of Equipment

AlfaSolar SE series industrial dry coolers have been designed for heavy industrial cooling applications for cooling of various process liquids in potentially explosive atmospheres.

Allowed ambient temperature min and max comes from the component specs, for example motors, and has been marked on equipment.

16. Report No. VTT-S-04574-1717. Special conditions for safe use

None

18. Essential Health and Safety Requirements

Met by compliance with the standards referred in clause 9.

Certificate history

Issue	Date	Report No.	Comment
-	13.3.2015	VTT-S-01040-15	Prime certificate
1	31.8.2017	VTT-S-04574-17	Updating the certificate to refer the directive 2014/34/EU and standards EN ISO 80079-36, EN ISO 80079-37 and EN 14986:2017

Espoo, 31.8.2017
VTT Expert Services Ltd



Martti Siirola
Senior Expert



Riku Vuorinen
Product Manager