

EU-TYPE EXAMINATION CERTIFICATE

Application of the

Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 of Pressure Equipment, as amended, and as transposed into law of the Kingdom of Sweden

CERTIFICATE NO.: **22-1013296-175 Rev.0**

This Certificate consists of 2 pages

THIS IS TO CERTIFY THAT THE EQUIPMENT

Pressure Vessel

WITH THE TYPE DESIGNATION/EQUIPMENT DESCRIPTION

Brazed Heat Exchanger Type CB60, DOC60 (-AQ) - HLM

MANUFACTURED BY

Alfa Laval Technologies AB, SWEDEN

is found to comply with the requirements in Annex I, Essential Safety Requirements and EN13445:2014

The equipment has been examined with respect to the procedure of conformity assessment as described for Module B Production Type - Annex III, point 3.1

APPLICATIONS

Equipment Category: Max.III

Design Pressure min/max: -1/40-32 bar(g)

Design Temp. range: -196/20-225 °C

Fluid: Group 1 & 2

Further details of the product and conditions for the certification are given overleaf.

This Certificate is valid until*: 2032-02-22

MALMÖ 2022-02-22
SIGNED FOR AND BEHALF OF

Kiwa Sweden AB

Notified Body No.: 0409



Olof Pedersen
Senior Design Review Engineer



Notice: The certificate is subject to terms and conditions, if any, overleaf. Any significant changes in design or construction of the product, the quality system or amendments to the Directive 2014/68/EU or Standards referenced above may render this statement invalid. The product liability rests with the manufacturer or his representative in accordance with the Directive, as amended.

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EXAMINED TECHNICAL DOCUMENTATION

34562728 rev. 5.

SUPPORTING EVIDENCE

Performed experimental design as per EN 13445-3 Annex T.

LIMITATIONS

*This date is limited by the date when EN13445-12 becomes harmonized standard.

SCOPE OF EXAMINATION

Technical design data and calculations	Yes	<input checked="" type="checkbox"/>	
Materials assessment	Yes	<input checked="" type="checkbox"/>	
Manufacturing drawings	Yes	<input checked="" type="checkbox"/>	
Welding – specifications WPS (procedures)	Yes	<input checked="" type="checkbox"/>	Brazing Procedure
Welding – personnel approval	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/> Brazing
NDT – personnel verification	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A
NDT – scope, methods and procedures	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A
Operating instructions	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hazard or risk analysis	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
External loads	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Fatigue	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/> max. 500 full pressure cycles
Creep design	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Other tests or procedures	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>

TESTS CARRIED OUT

TR211260/ 2022-01-04

MALMÖ 2022-02-22

Kiwa Sweden AB



DESIGN EXAMINATION CARRIED OUT BY

Rodica Teodorescu

Senior Design Review Engineer