Declaration of Conformity

according to

The Pressure Equipment (Safety) Regulations 2016

Consumer Protection Health and Safety

2016 No. 1105

for the design, manufacturing, product verification of the pressure equipment of

Brazed Plate Heat Exchangers (BPHE)

Conformity assessment procedure according to Part 3, paragraph 42, subparagraph (d)	Module B (production type) + D
Approved Body in accordance to Part 4, paragraph 51	HPi Verification Services Ltd. The Manor House, Howbery Park, Wallingford, OX10 8BA United Kingdom
Identification number of Approved Body	1521
UKCA marking on pressure equipment	UK CA 1521
Certificates	Module D: Module B (production type):

Design data of vessel

BPHE Series	GBH, GCH, GKH, GVI
Rules & Standards	The Pressure Equipment (Safety) Regulations 2016 DIN EN 13445 Unfired pressure vessels
Pressure equipment subject to essential safety requirement according to Part 1, paragraph 6, subparagraph (a), intend (i)	(1)
Fluids according to Schedule 3, paragraph 3	Group 1
Applicable hazardous categories of pressure equipment	I; II; III; IV

Data of working limits

BPHE Series, Type *)	Flow arrangement	Side 1:	Side 2:	Side 3:	Side 4:
GBH 100	C, U, X, Z, and combinations thereof	TS = 0 … 150 °C PS = -1 … 45 bar	TS = 0 … 150 °C PS = -1 … 45 bar	Not applicable	Not applicable
		TS = 0 … 200 °C PS = -1 … 40 bar	TS = 0 … 200 °C PS = -1 … 40 bar		
GBH 100R, 200, 220, 240, 300, 505, 600; GCH 505	C, U, X, Z, and combinations thereof	TS = -196 … 150 °C PS = -1 … 45 bar	TS = -196 … 150 °C PS = -1 … 45 bar	Not applicable	Not applicable
		TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 200 °C PS = -1 … 40 bar		
GBH 400, 500, 505, 700, 800, 900	C, DS, U, X, Z, and combinations thereof	TS = -196 … 150 °C PS = -1 … 45 bar	TS = -196 … 150 °C PS = -1 … 45 bar	Not applicable	Not applicable
		TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 200 °C PS = -1 … 40 bar		
GBH 500	DUO, TIO	TS = -196 … 150 °C PS = -1 … 45 bar	TS = -196 … 150 °C PS = -1 … 45 bar	TS = 0 … 150 °C PS = -1 … 45 bar	Not applicable
		TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 200 °C PS = -1 … 40 bar	TS = 0 … 200 °C PS = -1 … 40 bar	
GBH 790	C	TS = -196 … 150 °C PS = -1 … 45 bar TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 150 °C PS = -1 … 45 bar TS = -196 … 200 °C PS = -1 … 40 bar	Not applicable	Not applicable
GBH 900	TD	TS = -196 … 150 °C PS = -1 … 45 bar	TS = -196 … 150 °C PS = -1 … 45 bar	TS = 0 … 150 °C PS = -1 … 45 bar	Not applicable
		TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 200 °C PS = -1 … 40 bar	TS = 0 … 200 °C PS = -1 … 40 bar	
GBH 1000 H	C, Z, X, U, DS	TS = -196 … 150 °C PS = -1 … 45 bar TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 150 °C PS = -1 … 45 bar TS = -196 … 200 °C PS = -1 … 40 bar	Not applicable	Not applicable
GBH 1000 M	C, Z, X, U	TS = -196 … 150 °C PS = -1 … 45 bar TS = -196 … 200 °C PS = -1 … 40 bar	TS = -196 … 150 °C PS = -1 … 45 bar TS = -196 … 200 °C PS = -1 … 40 bar	Not applicable	Not applicable
GKH 108, 228, 229, 770	C, U, X, Z, and combinations thereof	TS = -196 … 200 °C PS = -1 … 45 bar	TS = -196 … 200 °C PS = -1 … 45 bar	Not applicable	Not applicable
GKH 550 H, M	C, DS, U, X, Z, and combinations thereof	TS = -196 … 150 °C PS = -1 … 50 bar	TS = -196 … 150 °C PS = -1 … 50 bar	Not applicable	Not applicable
		TS = -196 … 200 °C PS = -1 … 45 bar	TS = -196 … 200 °C PS = -1 … 45 bar		

BPHE Series, Type *)	Flow arrangement	Side 1:	Side 2:	Side 3:	Side 4:
GKH 550 T	C, DS, U, X, Z, and combinations thereof	TS = -196 … 150 °C PS = -1 … 50 bar	TS = -196 … 150 °C PS = -1 … 50 bar	Not applicable	Not applicable
		TS = -196 … 200 °C PS = -1 … 47 bar	TS = -196 … 200 °C PS = -1 … 47 bar		
GKH 770	TD	TS = -196 … 150 °C PS = -1 … 55 bar	TS = -196 … 150 °C PS = -1 … 50 bar	TS = -196 … 150 °C PS = -1 … 55 bar	Not applicable
		TS = -196 … 200 °C PS = -1 … 50 bar	TS = -196 … 200 °C PS = -1 … 46 bar	TS = -196 … 200 °C PS = -1 … 50 bar	
GVI 550	C	TS = -196 … 150 °C PS = -1 … 17 bar	TS = -196 … 150 °C PS = -1 … 17 bar	Not applicable	Not applicable
		TS = -196 … 200 °C PS = -1 … 15 bar	TS = -196 … 200 °C PS = -1 … 15 bar		

*) The name of a Brazed Plate Heat Exchanger (BPHE) model consists of letters and numerals to describe model series and type. The complete name of a BPHE contains additional letters and numerals describing plate pattern, plate partition, flow arrangement, number of plates or other features – for instance AE, H, L, M. All BPHE variants are covered if their specific maximum working temperatures and maximum working pressures are within the working limits of their series, type and flow arrangements as mentioned above.

The manufacturer herewith declares that design, manufacturing and product verification of pressure vessels mentioned above is in conformance with The Pressure Equipment (Safety) Regulations 2016.

Kelvion Brazed PHE GmbH
Remsaer Str. 2 a
04603 Nobitz, Germany

i.A. Uwe GOTTSCHALK
Quality Manager