

EU TYPE EXAMINATION CERTIFICATE-PRODUCTION TYPE

This is to certify that **LRQA Inspection Iberia, S.A.** Notified Body for Pressure Equipment Directive 2014/68/UE, did (in accordance with Module B of the Directive) undertake a Type Examination on the stated pressure equipment to ensure its conformity with the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

APPLICANT: Refrigeration Solutions France (Profroid)
Aubagne (13), France

PRODUCT DESCRIPTION: Assembly (Article 2 para. 6)

PRODUCT TYPE: 1 (one) Refrigerating System "Groupe de Condensation Bsub2":
Config. "Quietis Bs3" / "Quietor Bs3" / "Minicold Bs3" /
"GS/SC Bs3" / "GF Bs3" / "GR Bs3" /
"GS(B) Bs3"

HFC refrigerants: R507A / R134a / R513A / R450A / R404A /
R407F / R407A / R407C / R422A / R417A / R448A / R449A /
R452A

DESIGN STANDARD: EN 378-2:2016

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form a part of this certificate.

"This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LRQA Inspection Iberia, S.A. of any modification or changes to the equipment in order to maintain a valid certificate."

"This certificate is valid for ten years from the date of issue."

Certificate No: 0094/PED/LYO/240075 ENG

Original Approval: 19 June 2024

Current Certificate: 19 June 2024

Certificate Expiry: 19 June 2034

LRQA Inspection Iberia, S.A. Notified Body 0094



Carre Mathieu / LRQA Inspection Iberia



CERTIFICATE SCHEDULE 0094/PED/LYO/240075 ENG

Equipment data:

Product Description: Assembly (Article 2 para. 6)
 Product Type: 1 (one) Refrigerating System "Groupe de Condensation Bsub2":
 Config. "Quietis Bs3" / "Quietor Bs3" / "Minicold Bs3" / "GS/SC Bs3" / "GF Bs3" / "GR Bs3" / "GS(B) Bs3"

HFC refrigerants: R507A / R134a / R513A / R450A / R404A / R407F / R407A / R407C / R422A / R417A / R448A / R449A / R452A

Maximum Design Pressure/Temperatures:

	HFC			Oil	Water Glycol water
	LP	HP	HP Liquid		
PS R134a / R513a / R450a (bar)	15	19	19	19	10
PS other HFC (bar)	17	28	28	28	10
TS MAX (°C)	38	120	80	80	80
TS MIN (°C)	-50	-10	-10	-10	-40

Assembly components:

1. Config. Quietis or Minicold (P&ID SP-P5-0026):
 - 1 (one) Compressor, No PED.
 - **1 (one) Oil Separator, Cat. I~IV.**
 - **1 (one) Condenser, Art 4.3**
 - **1 (one) Liquid Receiver, Cat. I~IV.**
 - **1 (one) Suction Receiver, Cat. I~IV.**
 - Piping and accessories, Cat. I maxi.

Boundaries:

- "RETOUR EVAPORATEUR" LP inlet connection.
- "DEPART EVAPORATEUR" HP outlet connection
- "INJ. LIQUIDE" HP outlet connection

2. Config. Quietor or GF [P&ID SP-P5-0024 (two compressors) & SP-P5-0025 (one compressor)]:

- a. Option two compressors:
 - 2 (two) Compressors, No PED.
 - **1 (one) Oil Separator, Cat. I~IV.**
 - **1 (one) Oil Receiver, Cat. II~IV.**
 - **1 (one) Condenser, Art 4.3**
 - **1 (one) Liquid Receiver, Cat. I~IV.**
 - **1 (one) Subcooler, Art. 4.3 ~ Cat. IV**
 - **1 (one) Suction Receiver, Cat. I~IV.**



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- Piping and accessories, Cat. I maxi.

Boundaries:

- "RETOUR EVAPORATEUR" LP inlet connection.
- "DEPART EVAPORATEUR" HP outlet connection
- "INJ. LIQUIDE" HP outlet connection

b. Option one compressor:

- 1 (one) Compressor, No PED.
- **1 (one) Oil Separator, Cat. I~IV.**
- **1 (one) Condenser, Art 4.3**
- **1 (one) Liquid Receiver, Cat. I~IV.**
- **1 (one) Subcooler, Art. 4.3 ~ Cat. IV**
- **1 (one) Suction Receiver, Cat. I~IV.**

- Piping and accessories, Cat. I maxi.

Boundaries:

- "FROM COOLER" LP inlet connection.
- "LIQUIDE LINE" HP outlet connection

3. Config. GS/SC or GR or GS(B)(P&ID SP-P5-0027):

- 1 (one) Compressor, No PED.
- **1 (one) Oil Separator, Cat. I~IV.**
- **1 (one) Suction Receiver, Cat. I~IV.**
- Piping and accessories, Cat. I maxi.
- =====
- 1 (one) Liquid Receiver, Cat. I~IV.

Boundaries:

- "RETOUR EVAPORATEUR" LP inlet connection.
- "DEPART CONDENSEUR" HP outlet connection
- "ARRIVEE LIQUIDE" HP inlet connection
- "DEPART LIQUIDE" HP outlet connection

Safety devices:

Deviation (and/or causes)	Protection (PED safety device(s) description)	Setting / Capacity / Action(s) (Safety device(s) characteristics)	Device(s) Category
Overpressure on the Assembly induced by the Compressors 1~2	Pressure Switches item 100	Required: setting value: cut-off 0.9 x PS on HP circuit , SIL2, action sequence: shutdown connected compressor	IV
Overpressure on Liquid Receiver due to trapped refrigerant liquid exposed to extreme hot ambient temperature and fluid expansion.	Pressure Safety Valve item 10 installed on Liquid Receiver,	Required: setting pressure: PS on REC circuit , 10% back pressure max	IV
Overpressure on Suction Receiver (BACL) due to trapped refrigerant liquid exposed to extreme hot ambient temperature.	Pressure Safety Valve item 11 installed on Suction Receiver	Required: setting pressure: PS on LP circuit , 10% back pressure max	IV
*Refer to document SW052 for each safety valve minimum required discharge capacity in function of refrigerant and equipment it protects.			



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The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 2014/68/EU and following Design Code(s):

EN378-2: 2016

Technical File Contents

Title	Document Number	Rev	Date
P&ID PRODUIT BLANC 1CP H ou SH	SP-P5-0026	0	14/06/2024
P&ID PRODUIT BLANC 2CP SCROLL	SP-P5-0024	0	14/06/2024
P&ID PRODUIT BLANC 1CP SCROLL	SP-P5-0025	0	14/06/2024
P&ID GROUPE SUR BOUTEILLE	SP-P5-0027	0	14/06/2024
DOSSIER FABRICANT Complément Attestation 14B10117 - Examen UE de type « type de fabrication » -Versions Bs3 Machines Minicold / Quietor / Quietis / GF / GS / GR	DF-P5-0004	5	14/06/2024
Liste des composants critiques suivant Annexe I de la directive des équipements sous pression 2014/68/UE Directive Machine 2006/42/CE annexe I	LCC-P5-0002	07_03_2024	14/06/2024
CE NAMEPLATE DRAWING	MPS-P5-001	5	14/06/2024
NOTICE D'INSTRUCTIONS Originale GROUPE DE CONDENSATION / GROUPE SUR BOUTEILLE	IOM_GF_FR	2024_06_20	14/06/2024
Rapport de situation interne	ESS-P5-0003	2	14/06/2024
Rapport de situation interne	SEN378-P5-0006	1	14/06/2024
Evaluation et réduction des risques suivant-Détails de EN378-2 – Art.6.2.6.2	SEN378-P5-0008	13/11/2023	14/06/2024
Evaluation et réduction des risques suivant Annexe I de la directive des équipements sous pression 2014/68/UE	ADR-P5-0001	11/03/2024	14/06/2024
Capacités minimales de décharge requises pour les récipients	SW 052 "RECIPIENTS HFC"	22/02/2023	14/06/2024

LRQA Reports

Title	Document Number	Date
Design Appraisal Document	PRJ11100429247-1/Bsub2 Issue 02	14/06/2024
Visit Report	PRJ11100512758-1/VR_B_Bsub2	18/06/2024

Schedule Issue: Issue 01
Date of Schedule Issue: 19 June 2024
Notified Body 0094

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