



Design Appraisal Document

Lloyd's Register EMEA
Global Technical Support Office
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Date
18 February 2026

Please quote this reference number on all future communications
TSO-25-051593-VSZ

Machinery General Design Appraisal

Client : CC Jensen A/S, Svendborg, Denmark
Manufacturer : CC Jensen A/S, Svendborg, Denmark
Subject : Type PTU1 27 – Oil Filter Separator

This Machinery General Design Appraisal is valid for a period of 5 years from the date of issue or until a change of the Rules, whichever comes first.

This Design Appraisal Document supersedes the previous Document No. CTS-M/1108296, Issue No. 2 dated 21 May 2025.

1. The Documents listed in paragraph 1 of the appendix have been examined for compliance with **LR Rules and Regulations for the Classification of Ships July 2025 incorporating Notice No. 1, 2, 3 and 4, Part 5, Chapters 11, 12, 13 and 14** as applicable and have been assigned an appraisal status as indicated subject to the following:

2. **Product Description**

Makers Designation : CJC PTU1 27
Class : III (piping)
Design Pressure : ≤ 0.6 MPa
Design Temperature : ≤ 60 °C
Function : Oil Fine Filtration System

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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3. Comments

- 3.1. Lloyd's Register must be advised of any design or material modifications. Failure to do so will render this general approval invalid.
- 3.2. Please observe that the requirements of the European Directive "The Marine Equipment Directive" will be applicable for installations on board all EU Flag vessels.
- 3.3. The items referred to in this document are approved for installation on a ship which is classed by Lloyd's Register.
- 3.4. The filter dome is considered as a Class 3 pressure vessel according to Part 5 Chapter 11 1.5.3, although it is not subject to plan approval according to 1.6.1.
- 3.5. It is assumed that piping joints, valves, flanges and other fittings are suitable for the application. For details please refer to Part 5, Ch. 12, as they will be subject to inspection by the attending surveyor
- 3.6. With reference to Part 5, Ch. 12, 4.2 concerning the material of the filter base, it has been noted that substantial positive functional experience has been recorded by the client and therefore the use of grey cast iron, GG20, has been accepted. Part 5, Ch. 12, 4.2.3 is to be considered for pipes, valves and fittings only.

Vishal Shenoy
Lead Specialist- Piping Systems
Global Technical Support Office

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Appendix

1. The documents listed below have been examined

Document No.	Rev.	Title	Status	Date
4608001	C	CJC Filterseparator type PTU1 27	SI	21 May 2025
1600123	D	Filterfod for PTU1	SI	21 May 2025
4800132	B	Haette for 27/27, 54, 81, 108 delte og 108 udelt Skemategning	C	23 Mar 2015
5900907	C	Svoeb for 27/108 delte, underpart	SI	21 May 2025
12 001 27-4	5	Stagbolt for Filterseparator type PTU1 & PTU 3 27/-	SI	21 May 2025
7000634	E	Piping Diagram PTU1 27	A	18 Feb 2026
7000645	-	PI Legend	SI	21 May 2025
4801120	D	Hatte for 27/, .7bar Skemategning	SI	18 Feb 2026
1202219	C	Stagbolt PTU1&3 27/-, E-coat	SI	18 Feb 2026
1602629	E	Filterfod PTU1 model 2025	SI	18 Feb 2026
6600109		CJC Filter Separator type PTU1 27/- Z, model 2025 Assembly	SI	18 Feb 2026
7001952	A	Piping Diagram PTU1 27	A	18 Feb 2026
7001954	A	Piping Diagram PTU1 27	A	18 Feb 2026

2. The documents listed below have been considered together with the submitted documents in the appraisal

Document No.	Rev.	Title
-	-	PTU1 27/54-108 CJC Product Sheet
-	-	Design Specifications: E-mail 23/03/2015
-	1.1	CJC Filter Units – Piping Dimensions and Specification

Appraisal Status Key

A	Approved - provided the arrangements are to the surveyor's satisfaction
SI	Retained as supporting documentation for information only
C	Cancelled

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