



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Miele & Cie. KG
Address	Mielestraße 2, Bielefeld, 33611, Germany
Place of Production	Miele & Cie. KG Mielestraße 2, Bielefeld, 33611, Germany
Type	Commercial and Domestic Appliances
Description	Professional dishwasher for commercial use GG11 – PFD 104 SCViXXL GG12 – PFD 401 Marine For detailed product description, pls. refer to appendix.
Trade Name	GG11, GG12
Application	Dishwasher (environmental tested) for the use on-board ships in general power distribution zone.
Specified Standard	IACS UR E10 Rev. 8: 2021 IEC 60335-1: 2010 +AMD2: 2016 IEC 60335-2-58: 2005 +A12: 2016

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Matthias Karg

Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Type Approval Certificate

Ratings

Operating conditions:

- Ambient temperature: 5 °C to 40 °C
- Relative humidity (maximum): 80 % for temperatures up to 31 °C,
linear decreasing to 50 % for temperatures up to 40 °C
- Relative humidity (minimum): 10 %

Additional Tests

Tests according to LR Test Specification NumberNo. 1, December 2021:

- Visual inspection
- Performance test
- Insulation resistance test
- Power supply variation test
- Power supply failure test
- Vibration test 1: 2–13.2 Hz (± 1.0 mm); 13.2–100 Hz (± 0.7 g (6.9 ms⁻²))
- Damp heat test 2 – Steady state: 31 °C/80% for 72 h and 40 °C/80% for 48 h
- Low temperature test: +5° C / 16 h
- High voltage test
- Immunity to conducted low frequency interference
- Immunity to conducted radio interference
- Immunity to radiated radio frequency fields
- Immunity to fast low-energy transients (bursts)
- Immunity to slow high-energy transients (surges)
- Immunity to electrostatic discharge (ESD)
- Radiated emission (general power distribution zone)
- Conducted emission (general power distribution zone)

Other Conditions

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.



Type Approval Certificate

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document HPC2162049-22/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.





Appendix

DESCRIPTION

Professional dishwasher for commercial use
GG11 - PFD 104 SCViXXL
GG12 - PFD 401 Marine

RATINGS

Type	Nom. power supply	Max. power consumption
PFD 104 SCViXXL (GG11)	1 AC 120 V, 60 Hz	max. 1.4 kW
	2N AC, 120/208-240 V, 60 Hz	max. 4.0 kW
	3N AC, 400 V, 50 Hz	max. 2.1 kW
	3N AC, 400 V, 50 Hz	max. 7.3 kW
PFD 401 Marine (GG12)	1 AC, 230 V, 50 Hz	max. 3.4 kW
	2 AC, 208 V, 60 Hz	max. 5.8 kW
	2 AC, 240 V, 60 Hz	max. 5.8 kW
	3 AC, 208 V, 60 Hz	max. 5.8 kW
	3 AC, 240 V, 60 Hz	max. 5.8 kW
	3N AC, 400 V, 50 Hz	max. 8.9 kW