

Page 1 of 3

Certificate No: LR2003359TA Issue Date: 15/05/2020 Expiry Date: 15/04/2022

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 Carl-Miele-Str. 29, Guetersloh, 33332, Germany

Place of Production Miele & Cie. KG

Carl-Miele-Str. 29, Guetersloh, 33332, Germany

Place of Production Miele technika s.r.o.

Sumperska 1345-1348, 783 91 Unicov, Czech Republic

Type Commercial and Domestic Appliances

Description Professional washing machines & tumble dryer

Washing machines: PWM507 DP MAR PWM906 DP MAR PWM908 DP MAR

Tumble dryer: PDR507 EL MAR PDR507 HP MAR PDR908 EL MAR PDR908 HP MAR

Trade Name PWM507, PWM906, PWM908, PDR507, PDR908

Thorsten Wolff

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

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.



Page 2 of 3

Certificate No: LR2003359TA Issue Date: 15/05/2020 Expiry Date: 15/04/2022

Type Approval Certificate

Application Washing machine and tumbler dryer for the use on-board ships in general

power distribution zone.

Specified Standard IEC 60335-1:2010+AMD1:2013+AMD2:2016

IEC 60335-2-7:2008+AMD1:2011+AMD2:2016 (for washing machines only)

IEC60335-2-11:2008+AMD1:2012+AMD2:2015 (for dryer only)

Ratings Power supply:

Washing machine: 230 VAC / 400 VAC / 480 VAC Tumble dryer: 230 VAC / 400 VAC / 480 VAC

Power consumption:

Washing machine: 2.8 kW to 5.5 kW Tumble dryer: 1.2 kW to 6.4 kW

Operating temperatures:

Washing machine: +5 °C to +35 °C Tumble dryer: +5 °C to +35 °C

For further details, pls. refer to appendix.

Additional Tests Tests according to LR TestSpecification Number No. 1, May 2018:

Visual inspection Performance test Insulation resistance Power supply variation Power supply failure

Damp heat test 2 – steady state: +35 °C / 80 % / 96 h

Low temperature test: +5 °C / 16 h

Vibration test 1, Resonance search: 5 – 13.2 Hz (\pm 1.0 mm) / 13.2 – 100 Hz (\pm 0.7

g (6.9 ms-2)) High voltage

Immunity to conducted low frequency interference

Immunity to conducted radio interference

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.

L R

LX LR

R

R R



Page 3 of 3

Certificate No: LR2003359TA Issue Date: 15/05/2020 Expiry Date: 15/04/2022

Type Approval Certificate

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 (acc. to general power distribution zone)
Conducted emission (acc. to general power distribution zone)

Tests according to IEC 60068-2-2: 2007 Dry heat test: +35 °C / 16 h (for washing machine) Dry heat test: +55 °C / 16 h (for tumble dryer)

Tests according to IEC 60068-2-64:2008 Vibration, broadband random: 3 – 100 Hz / 1 g (r.m.s.) / 2.5 h

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 No. HTS/ETS 39926-20/MK/TW 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.



Page 1 of 1

Certificate No: LR2003359TA Issue Date: 15/05/2020 Expiry Date: 15/04/2022

Appendix

DESCRIPTION

Professional washing machines & tumble dryer

RATINGS

Туре	Nom. power supply	Max. power consumption
Washing machine		
PWM507 DP MAR	1N AC, 230 V, 50/60 Hz	max. 2.85 kW
	2N AC, 400 V, 50/60 Hz	max. 5.5 kW
	3 AC, 230 V, 50/60 Hz	max. 5.5 kW
	3 AC, 400-480 V, 50/60 Hz	max. 3.6/4.2/5.0 kW
	3N AC, 400 V, 50/60 Hz	max. 4.8 kW
PWM906 DP MAR	2N AC, 400 V, 50/60 Hz	max. 5.5 kW
	3 AC, 230 V, 50/60 Hz	max. 4.4 kW
	3 AC, 400-480 V, 50/60 Hz	max. 3.6/4.2/5.0 kW
	3N AC, 400 V, 50/60 Hz	max. 4.8 kW
PWM908 DP MAR	2N AC, 400 V, 50/60 Hz	max. 5.5 kW
	3 AC, 230 V, 50/60 Hz	max. 4.4 kW
	3 AC, 400-480 V, 50/60 Hz	max. 3.6/4.2/5.0 kW
	3N AC, 400 V, 50/60 Hz	max. 4.8 kW

Tumble dryer		
PDR507EL MAR	1N AC, 230 V, 50/60 Hz	max. 5.47 kW
	3 AC, 230 V, 50/60 Hz	max. 6.4 kW
	3 AC, 400-480 V, 50/60 Hz	max. 4.5/5.4/6.4 kW
	3N AC, 400 V, 50/60 Hz	max. 6.4 kW
PDR507HP MAR	1N AC, 230 V, 50 Hz	max. 1.44
	1N AC, 230 V, 60 Hz	max. 1.2 kW
PDR908EL MAR	1N AC, 230 V, 50/60 Hz	max. 5.47 kW
	3 AC, 230 V, 50/60 Hz	max. 6.4 kW
	3 AC, 400-480 V, 50/60 Hz	max. 4.5/5.4/6.4 kW
	3N AC, 400 V, 50/60 Hz	max. 6.4 kW
PDR908HP MAR	1N AC, 230 V, 50 Hz	max. 1.44 kW
	1N AC, 230 V, 60 Hz	max. 1.2 kW

Operating temperatures:

Washing machine: +5 °C to +35 °C Tumble dryer: +5 °C to +35 °C

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.

R R

> R R

> IX
>
>
> IX
>
>
> IX

R R

R

R