

Professional warewashing, cleaning and disinfection technology



NEW TopLine M2



MEIKO TopLine M2



MEIKO TopLine 10 M2



MEIKO TopLine 10 A M2



MEIKO TopLine 20 M2



MEIKO TopLine 20 A M2



MEIKO TopLine 30 WC M2



MEIKO TopLine 30 M2



MEIKO TopLine 40 M2



MEIKO TopLine 40 B M2

MEIKO TopLine M2



MEIKO TopLine M2 SAN 14



MEIKO TopLine M2 SAN 14 B



MEIKO TopLine M2 SAN 19 B



MEIKO TopLine M2 SAN 20 BW



MEIKO TopLine M2 SAN 20 W



MEIKO TopLine M2 SAN 24 W



MEIKO TopLine M2 SAN 29 BW

MEIKO Experience & Success



1950

The growing company MEIKO launches the first KOTEX KD appliances on the market



1960

With the launch of the KD 60 series, MEIKO has succeeded in developing a new technology for the mechanical cleaning of bedpans and urinals



1980

Mechanical appliances become automatic cleaning and disinfection systems. Thermal disinfection sets new standards for the hygienic processing of care utensils



2025

Launch of the MEIKO TopLine M2. State-of-the-art technology in design, functionality, hygiene safety and user convenience.

Once in a generation innovation



- 1. Improve Nurses' Efficiency and Morale**
- 2. Reduces Dangerous Pathogens like C.diff**
- 3. Sustainability Windfall**



Major Article

Washer disinfectant and alkaline detergent efficacy against *C. diff* plastic bedpans

Savannah Hatt MPH^a, Bryan Schindler PhD^b, Diana Bach BS^c, Christine Greene PhD^d

The automated bedpan WD system was further evaluated with their ability to thermally inactivate or decontaminate the *E. coli* and *C. difficile* cultures (Table 2). The thermal capacity of the WD was found to be capable of causing a greater than 7.23 and 4.31 logarithmic reduction, respectively. Both reductions in culturable bacteria were statistically significant ($P < .001$ *E. coli* and $P = .001$ *C. difficile*).

| | Control (Log10 CFU/mL) | Test (Log10 CFU/mL) | Average log reduction |
|---------------------|------------------------|---------------------|-----------------------|
| <i>E. coli</i> | 8.23 | <1.0 | >7.23 |
| <i>C. difficile</i> | 8.54 | 4.23 | 4.31 |

MEIKO Machines = 3.99 log reduction of C.diff =~99.95%

Cost of hospital management of Clostridium difficile infection in United States—a meta-analysis and modelling study

Shanshan Zhang^{1 2}, Sarah Palazuelos-Munoz³, Evelyn M Balsells⁴, Harish Nair⁴, Ayman Chit^{5 6}, Moe H Kyaw⁵

Affiliations + expand

PMID: 27562241 PMCID: PMC5000548 DOI: 10.1186/s12879-016-1786-6

Abstract

Background: Clostridium difficile infection (CDI) is the leading cause of infectious nosocomial diarrhoea but the economic costs of CDI on healthcare systems in the US remain uncertain.

Methods: We conducted a systematic search for published studies investigating the direct medical cost associated with CDI hospital management in the past 10 years (2005-2015) and included 42 studies to the final data analysis to estimate the financial impact of CDI in the US. We also conducted a meta-analysis of all costs using Monte Carlo simulation.

Results: The average cost for CDI case management and average CDI-attributable costs per case were \$42,316 (90 % CI: \$39,886, \$44,765) and \$21,448 (90 % CI: \$21,152, \$21,744) in 2015 US dollars.

Hospital-onset CDI-attributable cost per case was \$34,157 (90 % CI: \$33,134, \$35,180), which was 1.5 times the cost of community-onset CDI (\$20,095 [90 % CI: \$4991, \$35,204]). The average and incremental length of stay (LOS) for CDI inpatient treatment were 11.1 (90 % CI: 8.7-13.6) and 9.7 (90 % CI: 9.6-9.8) days respectively. Total annual CDI-attributable cost in the US is estimated US\$6.3 (Range: \$1.9-\$7.0) billion. Total annual CDI hospital management required nearly 2.4 million days of inpatient stay

If TopLine M2 could eliminate 1 incident of C.diff in 15 years, it would be a WISE INVESTMENT and likely less than a year payback! M2 costs significantly LESS than 1 incident of C.diff.

Average CDI costs
was \$34k to 42k
per incident!

Source: <https://pubmed.ncbi.nlm.nih.gov/27562241/>

MEIKO VS Competition for Handling Bedpans + Utensils



MEIKO- Automated Cleaning & Disinfection Machines



Manually Cleaning



Macerators



Medical Waste- Throw Away



Manual Cleaning of Bodily Fluids

Takes Time, Doesn't Work Well, and Nurses Dread It



\$88,000/yr for ICU Nurse divided by 52 weeks, divided by 40 hours= \$42/hr or \$.71/minute
Taking utensils to a dirty utility room= ~5 Minutes= **~\$3.55 each time**
Plus, manual cleaning can leave behind dangerous pathogens

Macerators: Paper Disposal with Hidden Costs

Plumbing Issues, Storage Headaches,



How do you clean plastic support?

Storage



How do you see measurement for liquid?

Potential Plumbing Clogs- + New Rules/Bans on Solid Waste

Disposing of Bodily Fluids and PVC as Hazardous Waste

High Costs and Wasted Time



Costs \$2-\$20 per pound



How do you see
measurement
for liquid?

46 Beds = ~100,000 Disposables Thrown Away Yearly

Costing More Than \$402,896 Annually



6 Utensils thrown out per day in ICU

Conservatively, \$1 each

46 Rooms X \$6/day X 365days = **\$100,740**

Plus, costs for Medical Waste at \$2-\$20/pound.

\$3 X 6 pieces/day x 365 days x 46 rooms=

\$302,220

Total Cost of Medical Waste for 46 bed ICU

Annually= **~\$402,896**

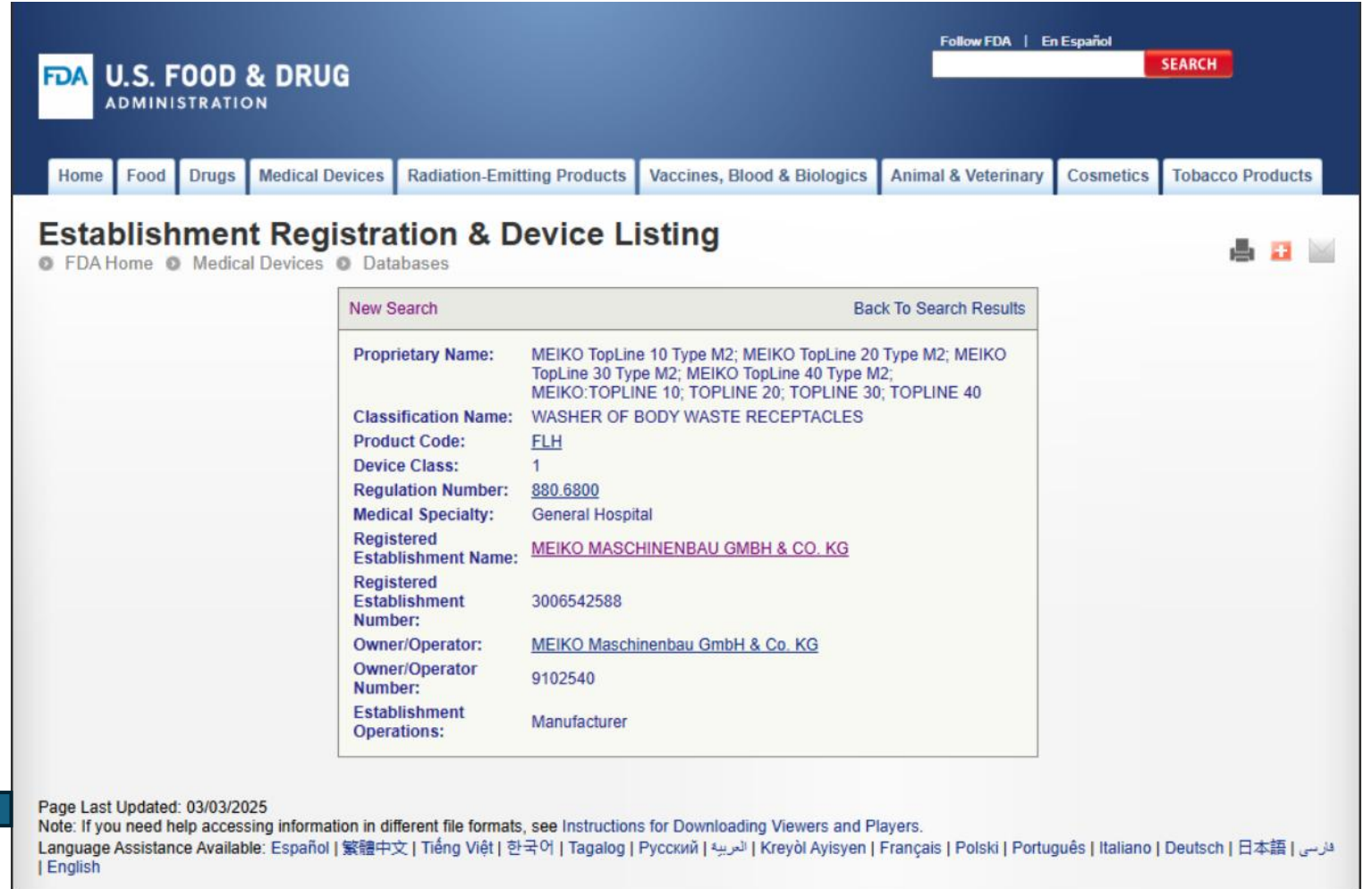
MEIKO Meets US Standards

FDA + ISO + CSA

Additional national regulations

FDA – Food & Drug Administration, US

- Registration



The screenshot shows the FDA's "Establishment Registration & Device Listing" page. The header includes the FDA logo, "U.S. FOOD & DRUG ADMINISTRATION", and a search bar. A navigation bar lists various FDA categories. The main content area displays details for a specific device listing, with a table of information. A blue arrow points from the text "FDA Registration for M2 3/03/2025" to the "Medical Specialty" field in the table, which is "General Hospital".

| New Search | | Back To Search Results | |
|----------------------------------|--|------------------------|--|
| Proprietary Name: | MEIKO TopLine 10 Type M2; MEIKO TopLine 20 Type M2; MEIKO TopLine 30 Type M2; MEIKO TopLine 40 Type M2; MEIKO:TOPLINE 10; TOPLINE 20; TOPLINE 30; TOPLINE 40 | | |
| Classification Name: | WASHER OF BODY WASTE RECEPTACLES | | |
| Product Code: | FLH | | |
| Device Class: | 1 | | |
| Regulation Number: | 880.6800 | | |
| Medical Specialty: | General Hospital | | |
| Registered Establishment Name: | MEIKO MASCHINENBAU GMBH & CO. KG | | |
| Registered Establishment Number: | 3006542588 | | |
| Owner/Operator: | MEIKO Maschinenbau GmbH & Co. KG | | |
| Owner/Operator Number: | 9102540 | | |
| Establishment Operations: | Manufacturer | | |

Page Last Updated: 03/03/2025
Note: If you need help accessing information in different file formats, see [Instructions for Downloading Viewers and Players](#).
Language Assistance Available: [Español](#) | [繁體中文](#) | [Tiếng Việt](#) | [한국어](#) | [Tagalog](#) | [Русский](#) | [العربية](#) | [Kreyòl Ayisyen](#) | [Français](#) | [Polski](#) | [Português](#) | [Italiano](#) | [Deutsch](#) | [日本語](#) | [فارسی](#) | [English](#)

FDA Registration for M2
3/03/2025

EN ISO 15883 - Standard for washer disinfectors

DocuSign Envelope ID: 925C3FB4-D09C-428C-8D4B-42F073A05A5C






EN ISO 15883 part 1 and 3 for bedpan washers:

- **Part 1:** General requirements, terms and definitions, and tests
- **Part 2:** Requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc.
- **Part 3:** Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers.
- **Part 4:** Requirements and tests for washer-disinfectors employing chemical disinfection for thermolabile endoscopes.
- **Part 5:** Test soils and methods for demonstrating cleaning efficacy of washer-disinfectors



Additional National Regulations

CSA – Electrical registration for Canada and US

| | | | | |
|--|---|---|--|---|
|  | | CERTIFICATE | |  |
| | | Certificate Number CER200756 | | |
| Certificate Holder | MEIKO Maschinenbau GmbH & Co. KG Englerstrasse 3 77652 Offenburg Germany | | | |
| Certification Number | NA202111469 | | | |
| Project Number | PRJ0054594 | | | |
| Product Description | Cleaning and Disinfection appliance | | | |
| Product Category | Measurement | | | |
| Model Number | MEIKO TopLine x, Type M2 (The character "x" can be 10, 20, 30 or 40) | | | |
| Ratings | For models MEIKO TopLine x, Type M2 with option heater (NDV): 11.4/12.5A, 2.2/2.8kW, 208/230V, 60Hz, class I, alternative 13.2A, 3.0kW, 240V, 60Hz, class I, alternative 14.0/14.9A, 3.9/4.6kW, 3~ 208/230V, 60Hz, class I, alternative 11.4A, 4.4kW, 3~ 240V, 60Hz, class I For models MEIKO TopLine x, Type M2 without option heater (NDD): 5.1A, 0.8kW, 208/230V, 60Hz, class I, alternative 5.1A, 0.8kW, 240V, 60Hz, class I | | | |
| Standards | CSA C22.2 61010-2-040:21 CSA C22.2 No. 61010-1-12 UPD1: Jul 2015, UPD 2: APR 2016, UPD 3: Jun 2023 and AMD 1:2018 UL 61010-1 3rd Edition: 2023 | | | |
| Additional Information | | | | |
| Validity | This certificate documents conformity with the standards shown. Certification of the product will be indicated by the use of the following certification mark on the product. The certificate is valid while listed on Nemko's certification directory. See www.nemko.com | | | |
| | |  | | |
| Nemko North America, Inc. na@nemko.com | | Signature  Simon Huang Certification department | |  |
| Date of Issue | | 2024-08-22 | | |
| Working for a more sustainable future Please do not print | | | | |
| Page 1 of 1 | | | | |

| | | | |
|---|--|--|------------|
|  | | | |
| Certificate of Compliance | | | |
| Certificate: | 70013283 | Master Contract: | 231691 |
| Project: | 70174781 | Date Issued: | 2018-03-12 |
| Issued to: | Meiko Maschinenbau GmbH Englerstrasse 3 Offenburg, 77652 GERMANY Attention: Ingo Wiegand | | |
| <i>The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.</i> | | | |
|  | | Issued by: <i>Sebastian Schneider</i> Sebastian Schneider | |
| PRODUCTS | | | |
| CLASS - 8721 05 - ELECTRICAL LABORATORY EQUIPMENT | | | |
| CLASS - 8721 85 - ELECTRICAL LABORATORY EQUIPMENT --Certified to US Standards | | | |
| Meiko cleaner and disinfecter. | | | |
| Models MEIKO TopLine 10 . . , MEIKO TopLine 20 . . , MEIKO TopLine 30 . . , MEIKO TopLine 40 . . , TopLine 40E . . , MEIKO Topic 10 . . , MEIKO Topic 20 . . , MEIKO Topic 40 . . , Topic 40E . | | | |
| Where last “.” identifies option internal heater (NDV) or option for connection to external heater (NDD) | | | |
| class I, Pollution Degree 2, Installation Category II. | | | |
| Electrical rating NDV – version 3~, 208 / 230VAC, 60Hz, 3.9 / 4.6kW 3~, 240VAC, 60Hz, 4.5kW 3~, 480VAC, 60Hz, 4.6kW 208 / 230VAC, 60Hz, 2.2 / 2.8kW 240VAC, 60Hz, 3.0kW | | | |
| Electrical rating NDD – version 3~, 480VAC, 60Hz, 0.8kW 208 / 230VAC, 60Hz, 0.8kW 240VAC, 60Hz, 0.8kW | | | |
| DQD 507 Rev. 2016-02-18 | | Page 1 | |

93/42 EEC - Medical Device Regulation (MDR)

MEIKO – „EC Declaration of Conformity“

- Must be included in each manual

Typ / **Model** / Modèle / Modelo / Modelo / Model / Modell

Benannte Stelle notified body / Organisme notifié / Ente nominato / Organismo notificado / bevoegde instantie / Anmält organ

Klassifizierung nach RL 93/42/EEG, Anhang IX

Classification according to 93/42/EEC, annex IX
Classification selon 93/42/CEE, annexe IX
Classificazione secondo la direttiva 93/42/CEE, allegato IX
Clasificación según la directiva 93/42/CEE, Anexo IX
Classificatie volgens RL 93/42/EEG, appendix IX
Klassificering enligt direktiv 93/42/EEG, bilaga IX

Hiermit bescheinigen wir in alleiniger Verantwortung:

We herewith certify at our sole responsibility / Nous certifions par la présente sous notre seule responsabilité / Con la presente attestiamo è la sola responsabilità / Por la presente certificamos bajo nuestra única responsabilidad / Hiermee verklaren wij in alleen verantwoording / Vi intygar harned på eget ansvar:

dass die oben beschriebenen Produkte den Anforderungen der Richtlinien 93/42/EEG, 2007/47/EG - Verfahren nach Anhang II, Abschnitt 3 (Vollständiges Qualitätssicherungssystem) - entsprechen. Die Produkte werden mit dem CE-Kennzeichen und der Kennnummer 0483 der benannten Stelle versehen.


that the products described above are in compliance with the directives 93/42/EEC, 2007/47/EC - Procedure laid down in Annex II, section 3 (complete quality control system). The products are CE-marked with the notified body no. 0483.

MEIKO TopLine 10
MEIKO TopLine 20
MEIKO TopLine 30

mdc medical device certification GmbH
Kriegerstraße 6 - 70191 Stuttgart – Germany
mdc identification number 0483
MEIKO registration no. D1182200001

Ila nach Regel 15
Ila according to rule 15
Ila selon règle 15
Ila secondo regola 15
Ila según regla 15
Ila volgens regel 15

MEIKO TopLine 40
MEIKO TopLine 40E



Muster / Example / Exemple / Esempio / Ejemplo / Voorbeeld / Mönster

EG-Konformitätserklärung

EC Declaration of Conformity / Déclaration de conformité CE / Dichiarazione di conformità CE / Declaración de conformidad CE / CE-conformiteitsverklaring / försäkran om överensstämmelse

Firma / Company / Société / Ditta / Empresa / Fabrikant / Företag
MEIKO Maschinenbau GmbH & Co. KG
Englerstraße 3 - 77652 Offenburg - Germany

Kontakt
Contact / Contact / Contatto / Contacto / Contact / Kontakt
Internet: www.meiko.de
E-mail: info@meiko.de
Telefon: +49(0)781/203-0

Auftrag Nr.
Order no. / No. de commande / No. d'ordine / No. de pedido / Opdracht nr. / Ordernr.

Produktspezifikation
Product designation / Désignation du produit / Denominazione del prodotto / Denominación del producto / Productbenaming / Produktspecificatie

Typ / Model / Modèle / Modelo / Modelo / Model / Modell

Benannte Stelle notified body / Organisme notifié / Ente nominato / Organismo notificado / bevoegde instantie / Anmält organ

Klassifizierung nach RL 93/42/EEG, Anhang IX
Classification according to 93/42/EEC, annex IX
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Classificazione secondo la direttiva 93/42/CEE, allegato IX
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Klassificering enligt direktiv 93/42/EEG, bilaga IX

Hiermit bescheinigen wir in alleiniger Verantwortung:
We herewith certify at our sole responsibility / Nous certifions par la présente sous notre seule responsabilité / Con la presente attestiamo è la sola responsabilità / Por la presente certificamos bajo nuestra única responsabilidad / Hiermee verklaren wij in alleen verantwoording / Vi intygar harned på eget ansvar:
dass die oben beschriebenen Produkte den Anforderungen der Richtlinien 93/42/EEG, 2007/47/EG - Verfahren nach Anhang II, Abschnitt 3 (Vollständiges Qualitätssicherungssystem) - entsprechen. Die Produkte werden mit dem CE-Kennzeichen und der Kennnummer 0483 der benannten Stelle versehen.
that the products described above are in compliance with the directives 93/42/EEC, 2007/47/EC - Procedure laid down in Annex II, section 3 (complete quality control system). The products are CE-marked with the notified body no. 0483.
que les produits décrits ci-dessus sont conformes aux directives 93/42/CEE, 2007/47/CE - Procédure selon l'Annexe II, section 3 (système d'assurance qualité intégral). Les produits sont accompagnés du signe CE ainsi que du numéro d'identification 0483.
che i prodotti sopra elencati rispettano i regolamenti 93/42/CEE, 2007/47/CE - Procedura secondo l'Allegato II, sezione 3 (sistema completo di controllo della qualità). I prodotti sono marcati con la sigla CE e il numero di identificazione 0483.
dal de hierboven beschreven producten voldoen aan de vereisten van de richtlijnen 93/42/EEG, 2007/47/EG - Procedure volgens Annex II, sectie 3 (volledig kwaliteitsgarantiesysteem). De producten worden voorzien van het CE-kenmerk en het identificatienummer 0483.
att ovan beskrivna produkter uppfyller kraven i direktiven 93/42/EEG, 2007/47/EG - Förfarande enligt bilaga II, avsnitt 3 (fullständigt kvalitetssäkringssystem). Produkterna förses med CE-märkningen och registreringsnumret 0483.

Gültig bis / Valid until / Valide jusqu'au / Valido fino al / Valido hasta el / geldig tot en met / Gäller t.o.m.

Dokumentationsbevollmächtigter
Responsible for documentation / Responsable de la documentation / Responsabile della documentazione / Responsable de la documentación / Voor deze documentatie verantwoordelijk / Ansvarig for dokumentation

Offenburg,
MEIKO Maschinenbau GmbH & Co. KG

ppa.
(per procura)

Dr. Thomas Peukert
Leiter Entwicklung und Konstruktion
Head of Development-Design / Responsable Développement-Constrution / Direttore Sviluppo-Costruzione / Jefe de la sección de desarrollo y diseño / Chef Utveckling-Constructie / Chef för utveckling och konstruktion

Steckbeckenspüler

MEIKO TopLine 10
MEIKO TopLine 20
MEIKO TopLine 30


mdo medical device certification GmbH
Kriegerstraße 6 - 70191 Stuttgart – Germany
mdc identification number 0483
MEIKO registration no. D1182200001

Ila nach Regel 15
Ila according to rule 15
Ila selon règle 15
Ila secondo regola 15
Ila según regla 15
Ila volgens regel 15

2018-06-16 (Update)

2011/65/EU
2011/65/EU
2011/65/EU
2011/65/EU
2011/65/EU
2011/65/EU

Viktor Maier
MEIKO Maschinenbau GmbH & Co. KG
Englerstr. 3 - 77652 Offenburg - Germany

Zertifiziert
QM-System

ISO 13485

ISO 9001 – Quality Management System For Companies

Quality system for the design, manufacturing, sales and service of appliances and systems of commercial warewashing, cleaning and disinfection technology including associated services

- TÜV Saar Germany
- Valid for 3 years Extended to February 2028



EN ISO 13485 – QMS For Medical Device Manufacturers

Quality management systems for medical devices manufacturers:

“Design, development, production, installation, sales and servicing of washer-disinfectors”

- MDC - medical device certification Ltd. is the notified body
- Requirements for regulatory purposes, is an internationally agreed standard that sets out the requirements for a quality management system specific to the medical devices industry.
- Valid for 3 years- Valid until February 19th, 2028



For electronic distribution only
Nur zur elektronischen Verbreitung

Certificate

We hereby certify the company

MEIKO Maschinenbau GmbH & Co. KG
Englerstraße 3
77652 Offenburg
Germany

the introduction and application of a

Quality management system according to EN ISO 13485

in the scope

Design and development, manufacturing, installation, distribution and servicing of devices for washer-disinfectors for human waste containers

An audit by mdc has proven that this quality management system meets the requirements of the following standard:

EN ISO 13485:2016 + AC:2018 + A11:2021 - ISO 13485:2016
Medical devices – Quality management systems – Requirements for regulatory purposes

| | | | |
|-------------|------------|------------------|------------------|
| Valid from | 2025-02-18 | Registration No. | D1182200010 |
| Valid until | 2028-02-17 | Report No. | P24-01166-309561 |

Stuttgart, 2024-12-06



Certification Body





DAkkS
Deutsche
Akreditierungsstelle
D-ZM 35002 05-00

IEC 61010-1 / IEC 61010-040

Safety requirements for electrical equipment for measurement, control and laboratory use (cleaning and disinfection appliances)

- 61010-2-045 is replaced by 040
- **60601: BPW do not need IEC 60601 certification. The IEC 60601 refers to medical electrical equipment which are for direct treatment at the patient**

| IEC IEC CB SCHEME | | Ref. Certif. No. NO87346 |
|---|---|-----------------------------|
| IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME / SYSTEME GBI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC | | |
| CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC | | |
| Product Produit | Cleaner and disinfectant | |
| Name and address of the applicant Nom et adresse du demandeur | Meiko Maschinenbau GmbH & Co. KG Englerstrasse 3 77652 Offenburg Germany | |
| Name and address of the manufacturer Nom et adresse du fabricant | Meiko Maschinenbau GmbH & Co. KG Englerstrasse 3 77652 Offenburg Germany | |
| Name and address of the factory Nom et adresse de l'usine | Meiko Maschinenbau GmbH & Co. KG Englerstrasse 3 77652 Offenburg Germany | |
| <small>Note: When more than one factory, please report on page 2 Note: Lorsque il y a plus d'une usine, veuillez utiliser la deuxième page</small> | | |
| Ratings and principal characteristics Valeurs nominales et caractéristiques principales | 3.9/4.6kW 208/230V 3~ 60Hz or 4.5kW 240V 3~ 60Hz or 4.6kW 480V 3~ 60Hz or 2.2/2.8kW 208/230V 60Hz or 3.0kW 240V 60Hz, Cl. I | |
| Trademark (if any) Marque de fabrique (si elle existe) |  | |
| Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur | TopLine x NDV | |
| Model / Type Ref. Ref. De type | The "x" in model name can be "10", "20", "30", "40" or "40E" | |
| Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la deuxième page) | <input type="checkbox"/> Additional information on page 2 | |
| A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la | IEC 61010-2-040(ed.1) IEC 61010-1(ed.2) | |
| As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat | 288616 & -1 | |
| This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification | | |
|  Gaustadalléen 30 NO-0373 Oslo, Norway | | |
| Date: 06-07-2015 | Signature:  Juan Z. Kleppenes Certification Department | |

IEC 61326-1 - Electromagnetic compatibility (EMC)

Specifies requirements for immunity and emissions regarding electromagnetic compatibility.
Protection against and from electromagnetic energy.



| | | | |
|--|--|--|---|
| Nemko GmbH & Co. KG Prüf- und Zertifizierungsstelle Test and Certification Institute Reetzstraße 58 D-76327 Plönitz Tel.: +49 (0) 72 40 / 63 -0 Fax: +49 (0) 72 40 / 63 -11 | |   DAkkS Deutsche Akreditierungsstelle D-PL-18175-01-00 |  EMV Testzentrum |
| PRÜFBERICHT - TEST REPORT Elektromagnetische Verträglichkeit (EMV) - Electromagnetic Compatibility (EMC) | | | |
| ANTRAGSTELLER - APPLICANT Firma - Company: MEIKO Maschinenbau GmbH & C. KG Anschrift - Address: Englerstraße 3 D - 77652 Offenburg Anwesende - Witness(es): - | | | |
| PRÜFLING (EUT) - EQUIPMENT UNDER TEST Gerätebez. - Equipment: Reinigungs- und Desinfektionsgerät (Steckbeckenspüler) Modell/Typ - Model/Type: MEIKO TopLine, MEIKO Topic Fertigungs Nr. - Serial No.: 10207017 | | | |
| PRÜFUNG - TEST Anlieferung Arrival of EUT: 18.03.2014 Meßtermin(e) Date of measurement: 18.03.2014; 19.03.2014; 21.03.2014; 10.04.2014; 11.04.2014; 06.05.2014 Prüfungsgrundlage Standards: Störaussendung - Emission: EN 61326-1:2013 Klasse B - class B EN 61000-3-2:2006+A1:09+A2:09 EN 61000-3-3:2008 Störfestigkeit - Immunity: EN 61326-1:2013 industrielle Umgebung industrial locations Ergebnisse - Results: Anforderungen erfüllt - Passed Details siehe Zusammenfassung - Details see test result summary Bemerkungen - Remarks: Ersatz für Prüfbericht FS-1402-254555-001 vom 07.05.2014. Replacement for test report FS-1402-254555-001 dated 2014-05-dd. Durchführung - Performed by: Dipl.-Ing. L. Midden | | | |
| PRÜFBERICHT - TEST REPORT Identifikationsnummer Identification No.: FS-1402-254555-002 Datum des Prüfberichts Date of Report: 11.06.2014 bearbeitet von - Provided by: Dipl.-Ing. L. Midden Prüfer - Person responsible überprüft von - Approved by: Dipl.-Ing. P. Lukas Prüfer - Person responsible  Unterschrift - Signature  Unterschrift - Signature | | | |
| <small>Dieser Prüfbericht besteht inkl. diesem Deckblatt aus 56 nummerierten Seiten und darf ohne schriftliche Genehmigung des Prüflators nicht auszugsweise vervielfältigt werden. Die Prüfergebnisse beziehen sich ausschließlich auf den oben aufgeführten Prüfling (Typ-Prüfung). Rechtsgültigkeit besitzt nur das handschriftlich unterschriebene Original. This report consists of 56 numbered pages including this page and shall not be reproduced except in full, without the written approval of the testing laboratory. The results are related to the equipment under test only (type-test) The English version is a translation. In case of doubt you should follow the original German text. Legal validity is given by the handwritten signed document only.</small> | | | |

MEIKO TopLine M2 – Top Innovative Technology



**Steam
Stop**

**Power
Clean**

**Thermo
Control**

Dry&Cool

T.A.D.

**Chem
Code**

**Ca²⁰
Stop**



**Steam
Stop**

Optimises hygiene and safety with a patented design which ensures that no steam escapes from the system.

Completely
steam-tight system



Maximum operational and hygiene safety thanks to complete system-vapor-tightness

Function:

- **Atmospherically** completely **closed** system
- **Overpressure / condensate** is drained **into the sewer system** via check valves

Your advantages:

- No viruses, bacteria and aerosols escape into the room
 - No additional moisture in the room (risk of mold)



Power Clean

Gets every last spot of your
care utensils hygienically clean
with a powerful telescopic ro-
tary jet and an optimised wash
system that acts on all sides.

Efficient Cleaning With Telescopic Rotary Jet



Absolutely perfect hygiene



Efficient Cleaning of Care Utensils, With Extending Rotary Jet

Function:

- Hydraulic, magnetically controlled extension of the **main wash nozzle** directly **into the care utensils**

Your advantage:

- Super wash-off effect, eliminates even C. Diff. (spores) and achieves an effectiveness of virucidal decontamination and disinfection of care utensils.
For both an expert opinion is available.

TopLine – C.Diff.

PROF. DR. MED. H. - P. WERNER
FACHARZT FÜR HYGIENE

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medizinische Produktsicherheit GmbH
Bornhövedstraße 78
D-19055 Schwerin
Tel.: +49 (0)385 / 56 82 85
Fax: +49 (0)385 / 56 82 87
E-Mail: hpwerner@hygcen.de

Prof. Dr. H.-P. Werner - c/o HygCen GmbH - Bornhövedstr. 78 - D-19055 Schwerin

MEIKO
Maschinenbau GmbH & Co. KG
Englerstraße 3
D- 77652 Offenburg

11/09/2008

Expert Opinion

After the test of the washer-disinfector, MEIKO TopLine 20 (bedpan washer) manufactured by Meiko Maschinenbau GmbH & Co. KG, performed by HygCen GmbH, my expert opinion of the device is as follows:

As is evident from test report SN 8009 dated 01/07/2008 and SN 8009a dated 21/07/2008 the bedpan washer was tested in regard of the disinfection efficiency.

As testsoil RAMS suspension (Bovine serumalbumin – mucin – maize starch) respectively dirty conditions (3g albumine/l; 3ml erythrocytes/l) were applied. The initial number of germs was 10^5 cfU /ml. After the exposure of the testspecimen no grow of spores could be determined quantitative. Aside from the germ carriers, temperature data loggers of ebro Electronic GmbH & Co KG (Ingolstadt, Germany) were used which allowed the A_0 value to be calculated and a correlation between the A_0 value calculated based on the temperature and the microbiological efficacy to be established.

This fact is especially significant since the cleaning / disinfection device MEIKO TopLine 20 (bedpan washer) manufactured by Meiko Maschinenbau GmbH & Co. KG also calculates the respective A_0 value based on the actual temperature and resident times of the device. A sufficiently disinfection efficiency adverse spores of *Clostridium difficile* can be confirmed.


Prof. Dr. med. H. - P. Werner

TopLine M2 – fully virucidal effectiveness

PD Dr. rer. nat. Dr. med. habil. Friedrich von Rheinbaben
Virologie, Mikrobiologie, Hygiene

Friedrich von Rheinbaben · Garather Weg 21 · 40589 Monheim
am Rhein

Garather Weg 21
40589 Monheim am Rhein
Tel.: +49 (0)171 8767 009
E-Mail: f.v.rheinbaben@t-online.de

To
Meiko Maschinenbau GmbH & Co. KG
Englerstr. 3
77652 Offenburg
Germany

Monheim, 12th of November 2021

Effectiveness of the virucidal decontamination and disinfection of bedpans and urine bottles in the Washer-Disinfector Meiko TopLine 20 type M2 with the reprocessing program 08 intensive (A0 3000)

Expert Opinion

Summary and evaluation

Based on the experimental investigation documented above, and done with Murine Parvovirus in the Washer-Disinfector Meiko TopLine 20 type M2, a comprehensive decontamination and disinfection effect against human pathogenic viruses in the sense of fully virucidal effectiveness (with a titer reduction of at least 4 lg) can be certified when the processing program 08 intensive (A0 3000) is carried out.

germ carriers made of stainless steel X5CrNi1810 with two fastening ends and a contamination surface of 100mm x 10mm were taken. The germ carriers were soiled in accordance with ISO/TS 15883-5 with a load of bovine serum albumin, mucin, corn starch (RAMS) mixed with Murine Parvovirus. For the investigation, 7 germ carriers per run were attached to the bedpan, the bedpan lid, inside and outside the urine bottle and in the machine chamber. Then three independent test runs were carried out in accordance with the cleaning

Seite 1

Virucidal =
inactivation of viruses

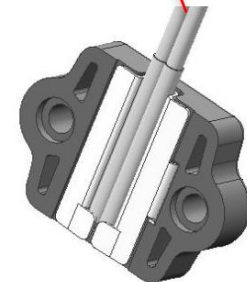


Thermo Control

Takes reliable disinfection to the next level by offering patented control of the freely selectable* A_0 value, carefully monitored by temperature sensors which cross-check each other's readings.

*from 60 to 3000.

Cross-checked Temperature Monitoring





Temperatur Control and Ao-value-control

Function:

- Temperature control using 2 electronically independent sensors
- Temperature sensors placed at the lowest point (=lowest temperature)

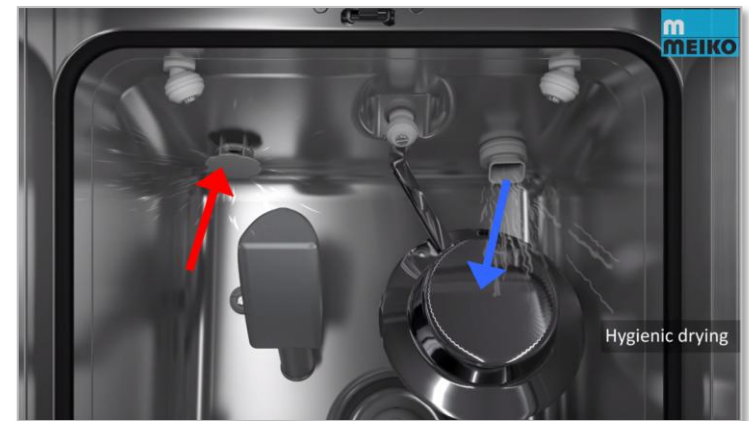
Your advantage:

- Hygienically safe disinfection
- Ideal program runtimes and reliable compliance with the A0 value



Uses filtered air to dry and cool, producing hygienically clean care utensils that are cool to the touch.

Filtered Air Dries and Cools





Germ-free Drying And Recooling Through Filtered Air Using A HEPA-13 Filter

Function:

- Blowing in **HEPA 13-filtered air** (patent protected)
 - **Draining** excess air **into the sewer system**

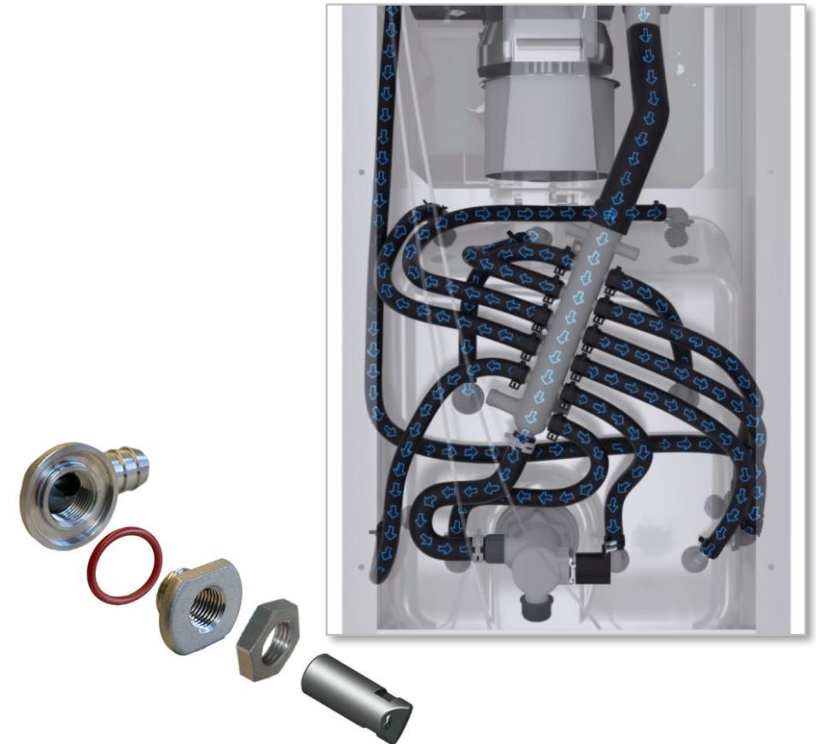
Your advantages:

- High hygiene safety
- No steam escapes into the room
- Cooled care utensils - high occupational safety



The *Total Auto Disinfection* (T.A.D.) function disinfects all the water pipes in the machine after each completed wash cycle to avoid the risk of re-contamination.

Automatic Disinfection Of All Components In Contact With Water





Total Auto Desinfection

Automatic disinfection of water tank, pipes and nozzles

Function:

- By generating steam in the tank-unit, the tank, all pipes and nozzles are automatically disinfected

Your advantages:

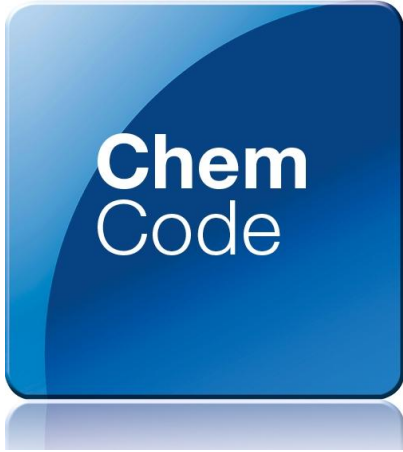
- No system contamination
- High operational safety
- High hygiene safety



Uses a unique suction lance coding system to eliminate the risk of mixing up rinse aid and detergent and to ensure a validated process.

Unique Suction Lance Coding System





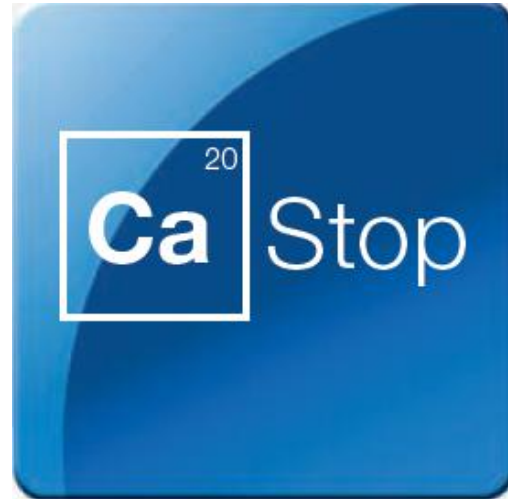
The Suction Lance Coding As Protection Against Mix-up Of Rinse Aid And Detergent

Function:

- Suction lances have **three or four ribs** and therefore only **fit into the container prepared** for them

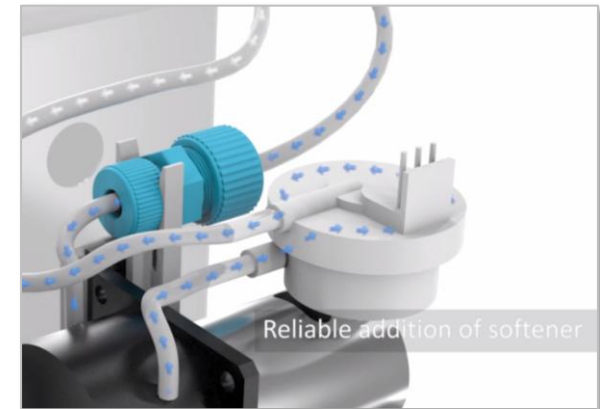
Your advantages:

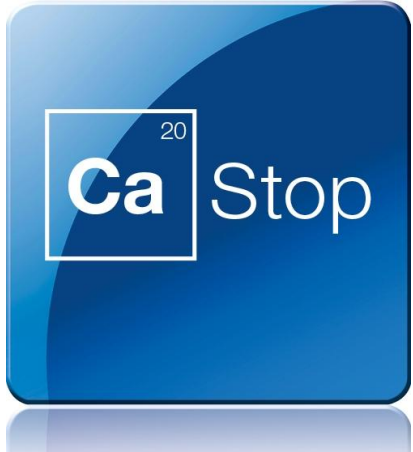
- Mix-up is impossible
- High operational safety
 - Increasing lifespan
 - High hygiene safety



Guarantees high operating reliability by using sensors to monitor dosing of the detergent and of the softener/rinse aid mix.

Sensor-based Monitoring Of Chemical Dosing





Sensor-controlled Dosing Monitoring

Function:

- Checking **flow rate and amount** when dosing the chemicals, **lack of liquid** is indicated by errors

Your advantages:

- Active protection against device calcification
 - Increasing lifespan
- Guaranteed consistent cleaning results

TOP Features of TopLine M2



The optimized **cleaning system** with new wash mechanics and higher pressure
>>> *increases cleaning performance, hygiene and efficiency*



The intuitive **operating concept** with glass panel and signal concept
>>> makes it safer and more effective



The new **load detection**, the smart assistant system
>>> simplifys the work and saves time



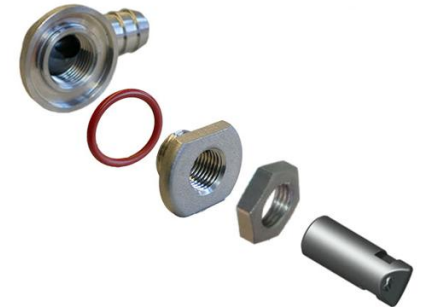
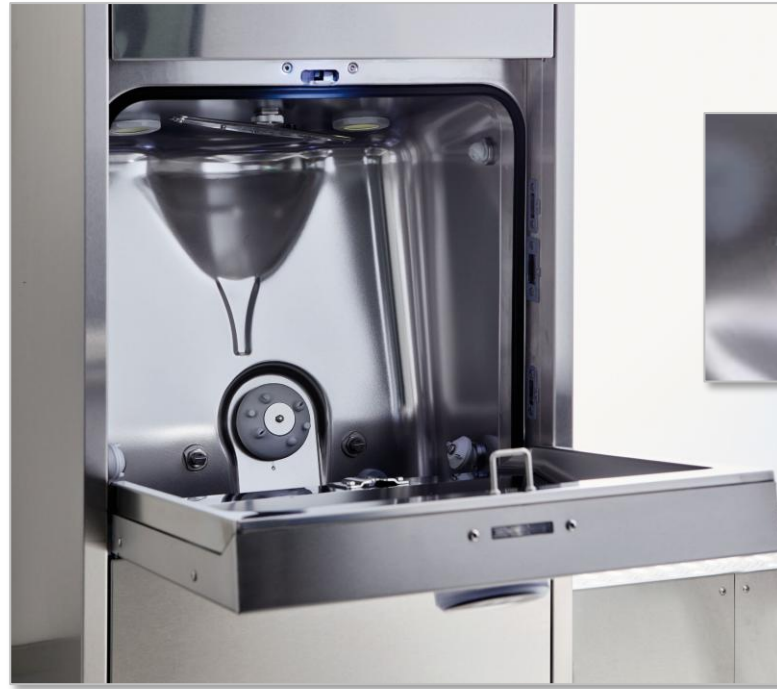
The new **connectivity** of the MEIKO Connect app
>>> simplifies monitoring & validation



Improved **safety** with a selectable A_0 value of up to 12,000
>>> meets current and future requirements



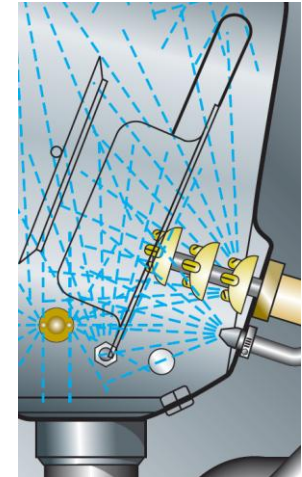
...cleaning system...



- With new wash chamber, new nozzles and a high water pressure



...cleaning system...



- **With new designed telescopic rotary jet**



...cleaning system...



- With an upper washing arm



...cleaning chamber...



- With interior lighting (for improved visual inspection)



...operating concept...



1. Glass operating panel



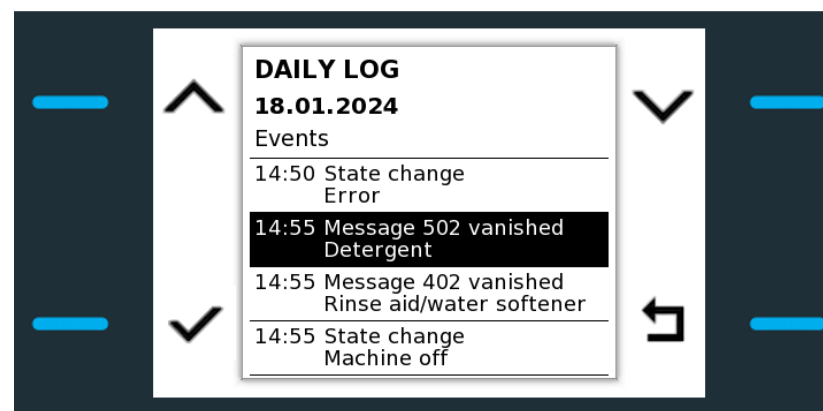
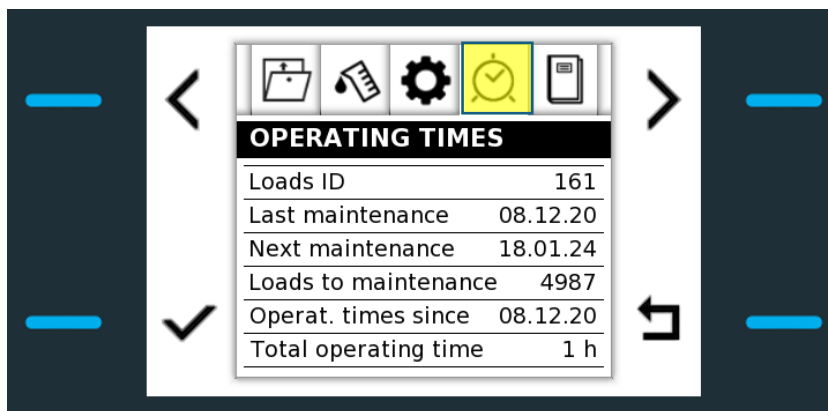
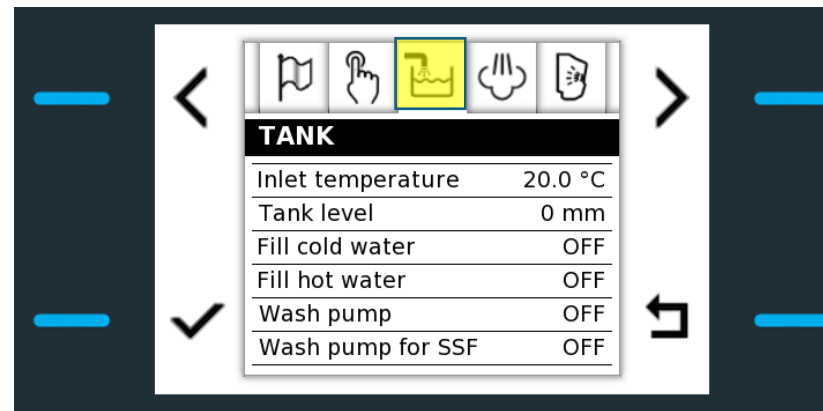
INTUITIVE:

- One-touch operation
- Self-explanatory icons
- Plain text display



...operating concept...

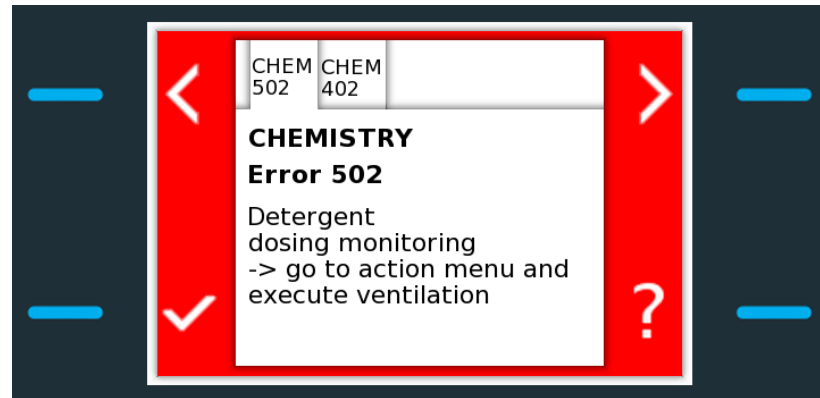
Example - Information menu





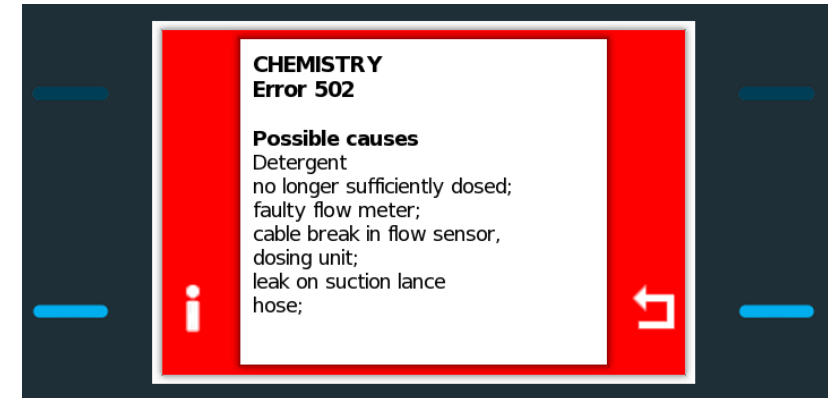
...operating concept... messages

Error messages



>>>

Helptext

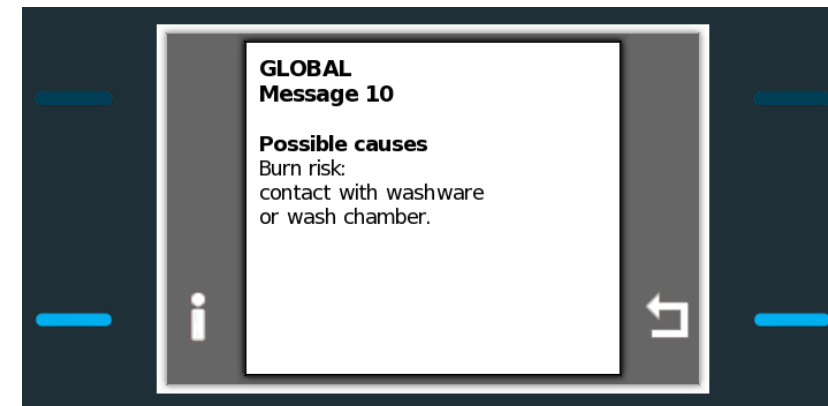


Warning messages



>>>

Helptext





...operating concept...



1. Glass operating panel
2. Blue operating concept



BLUE = ready for operation

- elements and functions lit in blue can be used or selected



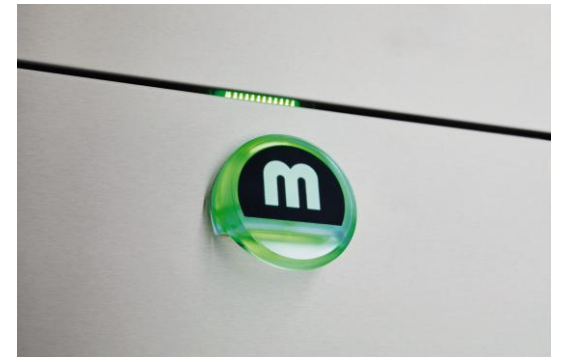
...signal concept...



Blue = Ready for operation



Green = Programme is running



Red = important message





...operating concept...



1. Glass operating panel
2. Blue operating concept
3. **Signal concept**



GREEN = in operation e.g. disinfection

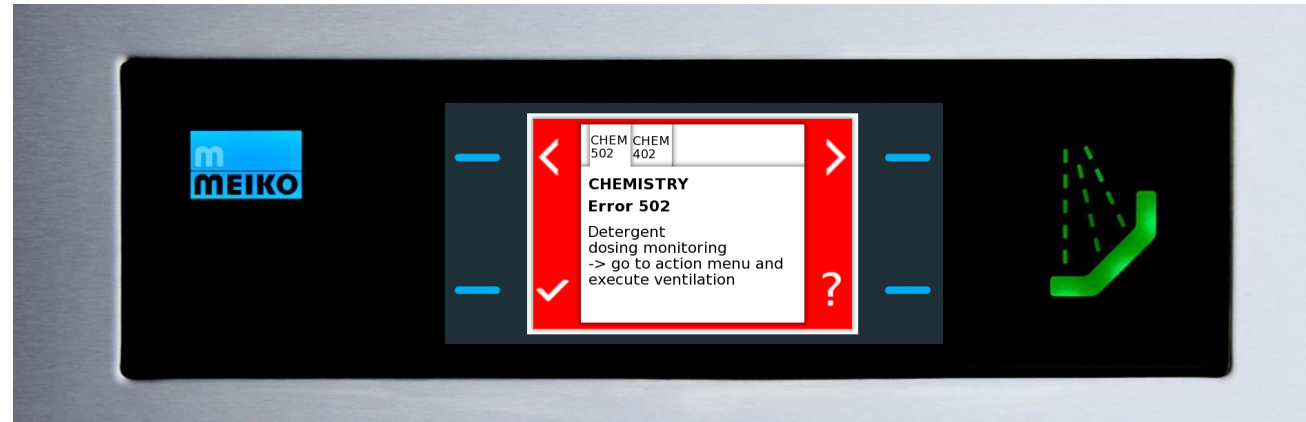
- Intuitive, with colors



...operating concept...



1. Glass operating panel
2. Blue operating concept
3. **Signal concept**



RED = important message

- Intuitive, clear communication guaranteed



...operating concept...



Benefits:

- Easy-to-clean safety glass
- Clearly guides the operator through the menu
- Optimum communication between human and machine
- Saves time because operating status can be seen from a distance

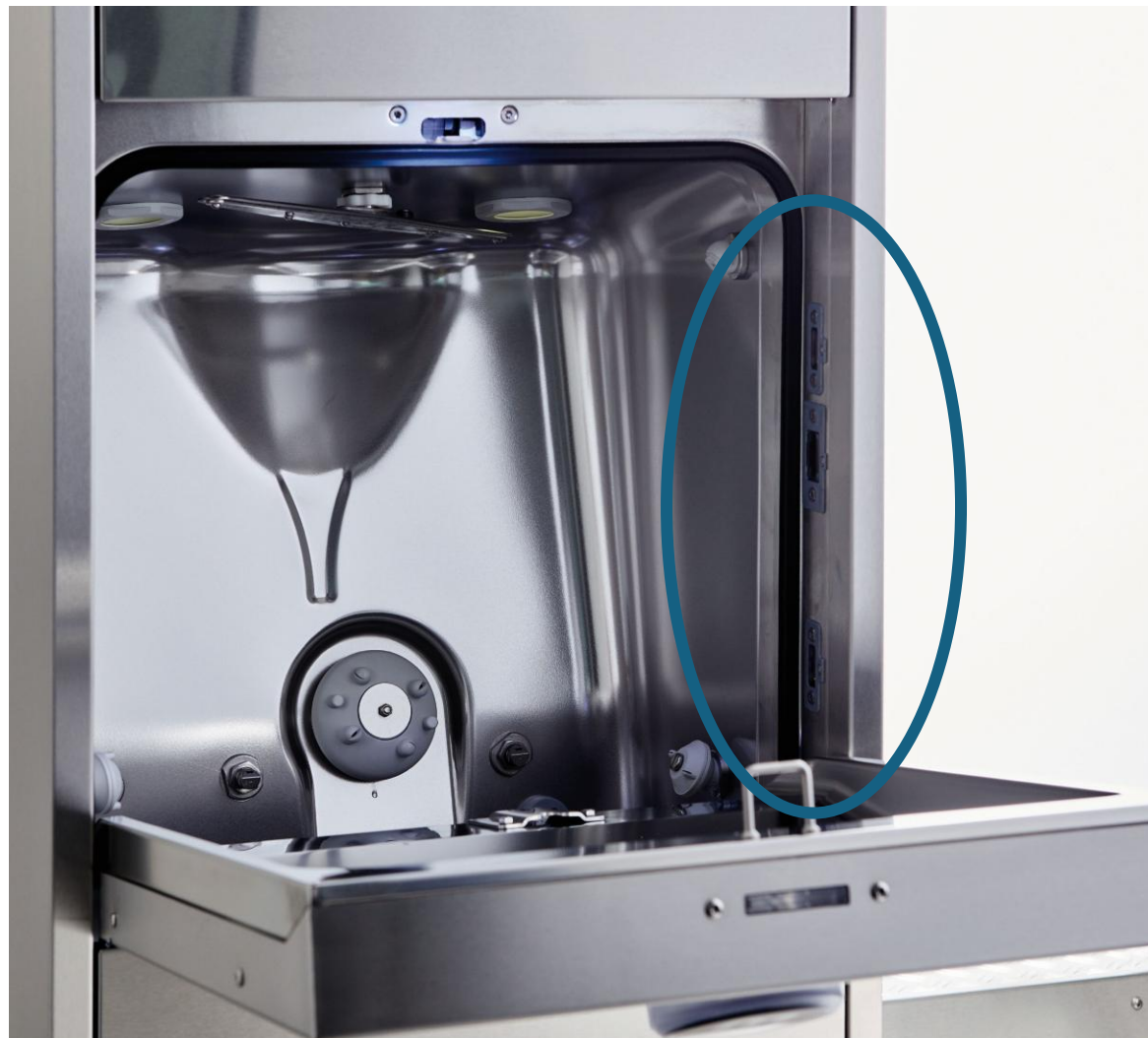


...load detection...





...load detection...



SUH 1.78 (9738699)

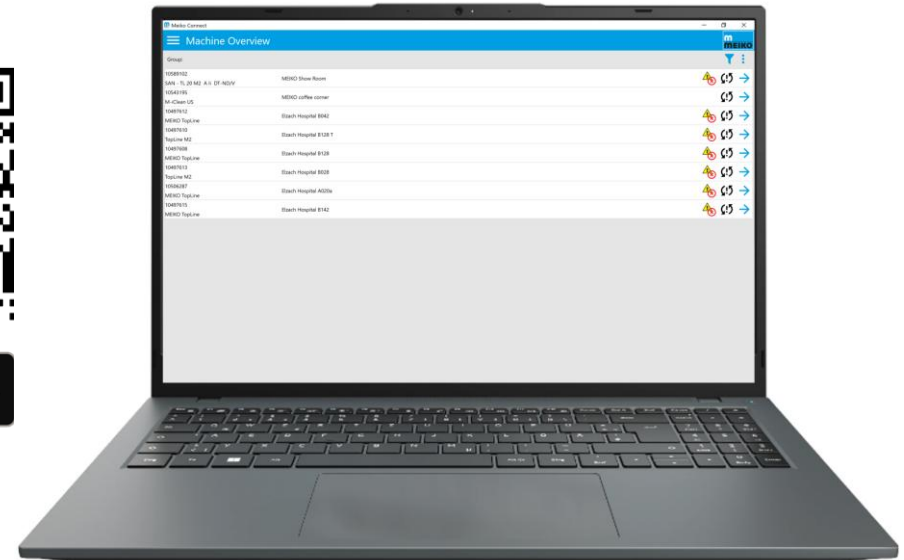




...connectivity...

MEIKO Connect App

- For your laptop, tablet, smartphone (Android)
- Data can be transmitted via Bluetooth (direct communication with the machine)
- Connectivity via LAN or WLAN (optional)





...connectivity...

The **MEIKO Connect App** allows you to view and manage all relevant data from the TopLine M2


















Benefits:

- View all process settings, program details, error messages, etc.
- Daily protocol with documented hygiene results
- Stay informed even outside of the sluice room (with connectivity via WLAN or LAN)
- Quick troubleshooting


































































Mobile Version for Smartphone

Machine overview

| Machine Overview | | | m MEIKO |
|------------------|---------------------|---|---------|
| Group: | | | |
| 10589102 | MEIKO show room |    | |
| 10543195 | MEIKO coffee corner |   | |
| 10497612 | Elzach B042 |   | |
| 10497610 | Elzach B128 |   | |
| 10497608 | Elzach B228 |   | |
| 10497613 | Elzach B028 |   | |
| 10506287 | Elzach A020a |   | |
| 10497615 | Elzach B142 |   | |

>>>

Daily overview

| 10497610 | | | m MEIKO |
|------------|---|--|---|
| Month | January | Year | 2024 |
| 16.01. Tue |  2h 11min 14 Cycles |  0  0 |  |
| 15.01. Mon |  2h 39min 17 Cycles |  0  0 |  |
| 14.01. Sun |  1h 25min 9 Cycles |  0  0 |  |
| 13.01. Sat |  1h 36min 10 Cycles |  0  0 |  |
| 12.01. Fri |  2h 2min 13 Cycles |  0  0 |  |
| 11.01. Thu |  2h 29min 16 Cycles |  0  0 |  |
| 10.01. Wed |  2h 25min 16 Cycles |  1  0 |  |
| 09.01. Tue |  2h 41min 17 Cycles |  0  0 |  |
| 08.01. Mon |  2h 43min 17 Cycles |  0  0 |  |
| 07.01. Sun |  2h 39min 17 Cycles |  0  0 |  |
| 06.01. Sat |  2h 9min 15 Cycles |  0  0 |  |
| 05.01. Fri |  3h 3min 21 Cycles |  0  0 |  |
| 04.01. Thu |  2h 51min 20 Cycles |  0  0 |  |
| 03.01. Wed |  2h 42min 17 Cycles |  0  0 |  |
| 02.01. Tue |  2h 15min 14 Cycles |  3  0 |  |
| 01.01. Mon |  0h 0min |  0 |  |

>>>

Daily report

| 10497610 - 16.01.24 | | | m MEIKO |
|------------------------|-------|-------|---------|
| ▼ Maintenance | Value | | |
| ▼ Operating times | Day | Total | |
| ▼ Counter | Day | Total | |
| ▼ Water consumption | Day | Total | |
| ▼ Chemical consumption | Day | Total | |
| ▼ Hygiene settings | Value | | |
| ▼ Events[0] | | | |

Mobile Version for Smartphone

Daily Report

10497610 - 16.01.24

m

MEIKO

Water consumption

Day

Total

Cold water

228l

120m³

Hot water

683l

371m³

Chemical consumption

Day

Total

Detergent

176ml

56l

Rinse aid

22ml

13l

Hygiene settings

Value

Disinfection mode

2

A0 value (global)

600

Minimum A0 value

60

Min. temperature A0

70°C

Events[2]

00:00

End of programme

03:46

✓ Ready for operation

04:29

⚙️ Operation

04:29

Programme 26

+

04:29

Set A0 value 600

04:39

End of programme

05:29

✓ Ready for operation

05:29

⚠️ Rinse aid/water softener dosing critically low

05:29

Rinse aid/water softener dosing critically low

05:30

⚙️ Operation

05:30

Programme 26

+

05:30

Set A0 value 600

05:39

End of programme

07:46

✓ Ready for operation

07:46

⚙️ Operation

<

□

|||

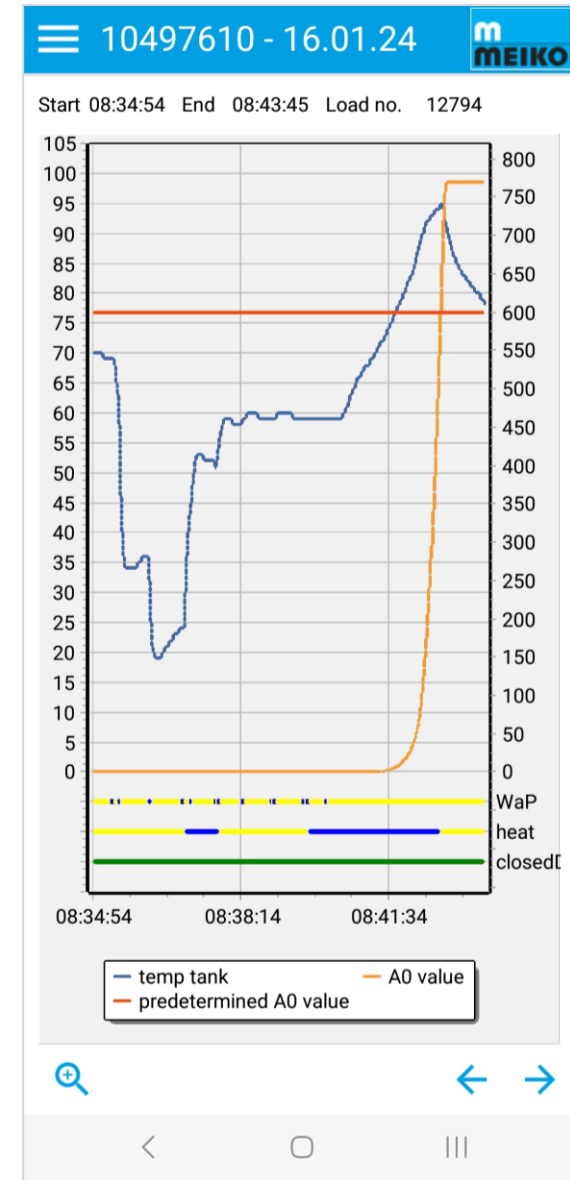
>>>

Daily Report

| <div> <div></div> <div>10497610 - 16.01.24</div> <div>MEIKO</div> </div> | |
|--|--------------------------|
| 08:01 | ✓ Ready for operation |
| 08:01 | ⚙ Operation |
| 08:01 | Programme 26 <div></div> |
| 08:01 | Set A0 value 600 |
| 08:10 | End of programme |
| 08:23 | ✓ Ready for operation |
| 08:24 | ⚙ Operation |
| 08:24 | Programme 26 <div></div> |
| 08:24 | Set A0 value 600 |
| 08:33 | End of programme |
| 08:34 | ✓ Ready for operation |
| 08:34 | ⚙ Operation |
| 08:34 | Programme 26 <div></div> |
| 08:34 | Set A0 value 600 |
| 08:43 | End of programme |
| 08:52 | ✓ Ready for operation |
| 08:52 | ⚙ Operation |
| 08:52 | Programme 26 <div></div> |
| 08:52 | Set A0 value 600 |
| 09:02 | End of programme |
| 10:16 | ✓ Ready for operation |
| 10:16 | ⚙ Operation |
| 10:16 | Programme 26 <div></div> |
| 10:16 | Set A0 value 600 |
| 10:26 | End of programme |
| 10:48 | ✓ Ready for operation |
| 10:48 | ⚙ Operation |
| 10:48 | Programme 26 <div></div> |
| 10:48 | Set A0 value 600 |

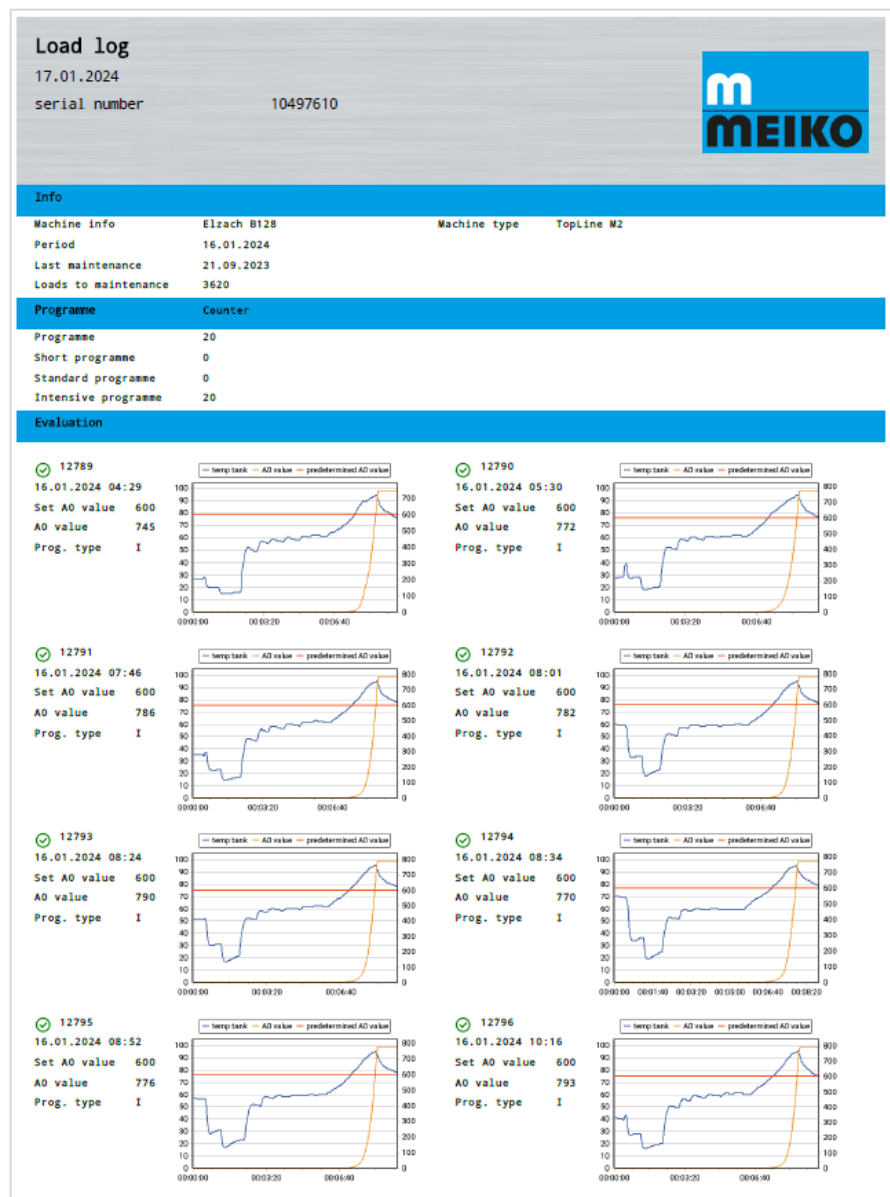
>>>

Program Sequence



Mobile Version for Smartphone

Create PDF to Log / Hygiene Report



Daily Protocol (Settings / Technical)

Daily protocol

16.01.2024

serial number10497610

m

MEIKO

| Maintenance | Value |
|----------------------|------------|
| Last maintenance | 21.09.2023 |
| Next maintenance | 5941h |
| Loads to maintenance | 3620 |

| Operating times | Day | Total |
|--------------------------|----------|-------|
| Total time | 3h 7min | 1681h |
| Wash pump | 0h 12min | 76h |
| Wash pump for SSF | 0h 0min | 0h |
| Dose detergent | 0h 2min | 12h |
| Dose rinse aid | 0h 0min | 6h |
| Heating in LPSG | 1h 41min | 1004h |
| Cold water filling valve | 0h 19min | 148h |
| Hot water filling valve | 1h 1min | 396h |
| Unlock main nozzle | 0h 12min | 60h |
| Blower | 0h 52min | 561h |
| Open door | 0h 1min | 18h |
| Close door | 0h 1min | 19h |
| Unlock door | 0h 0min | 3h |
| Lock door | 0h 0min | 3h |

| Counter | Day | Total |
|----------------------|-----|-------|
| Total loads | 20 | 1380 |
| Programme position 1 | 0 | 40 |
| Programme position 2 | 0 | 2 |
| Programme position 3 | 20 | 1338 |
| External start 1 | 0 | 0 |
| External start 2 | 0 | 0 |
| C&O time switch | 0 | 0 |
| SSF time switch | 0 | 0 |
| Ventilate rinse aid | 0 | 4 |
| Ventilate detergent | 0 | 3 |

| Water consumption | Day | Total |
|-------------------|------|-------|
| Cold water | 324l | 120m³ |
| Hot water | 979l | 371m³ |

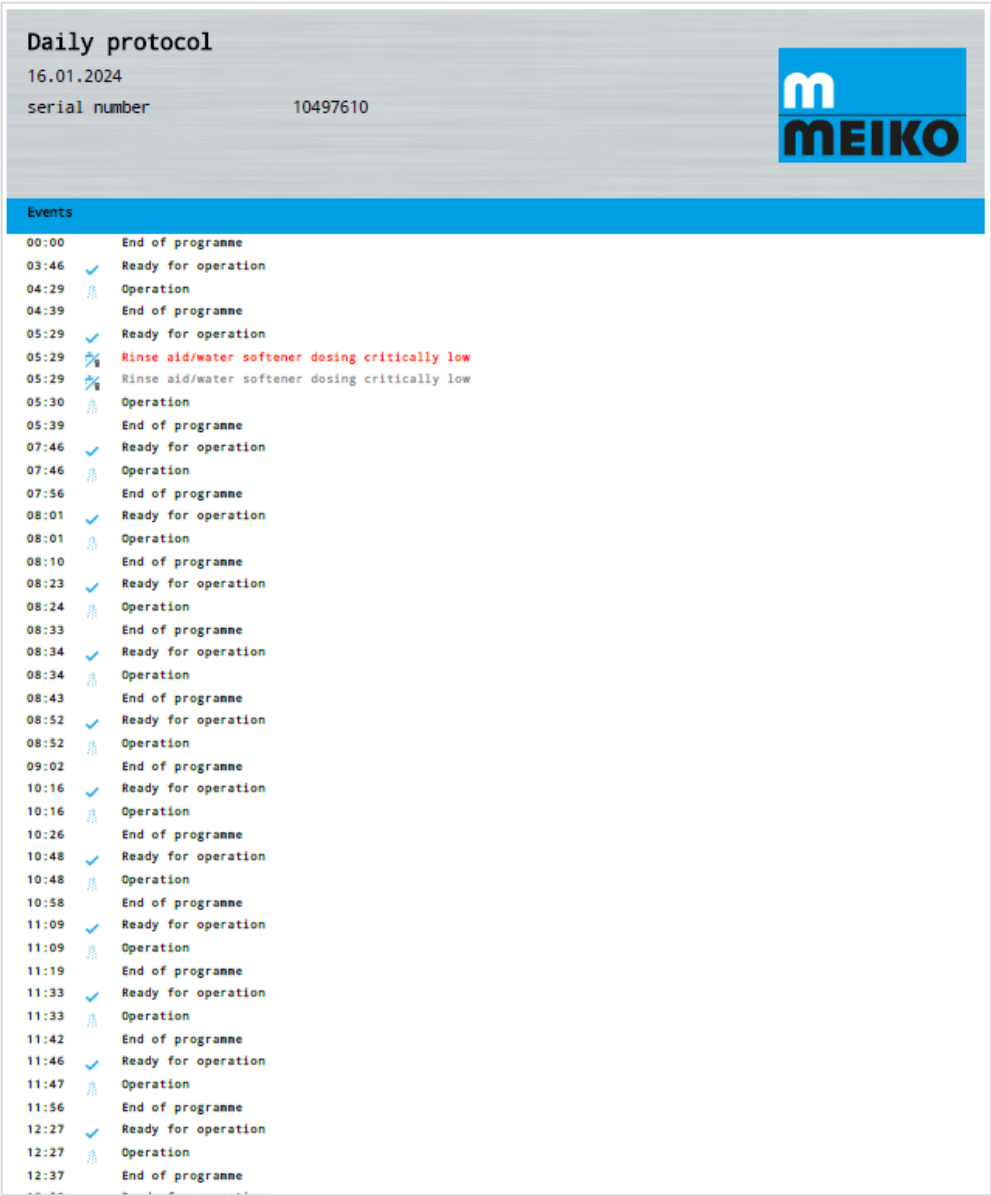
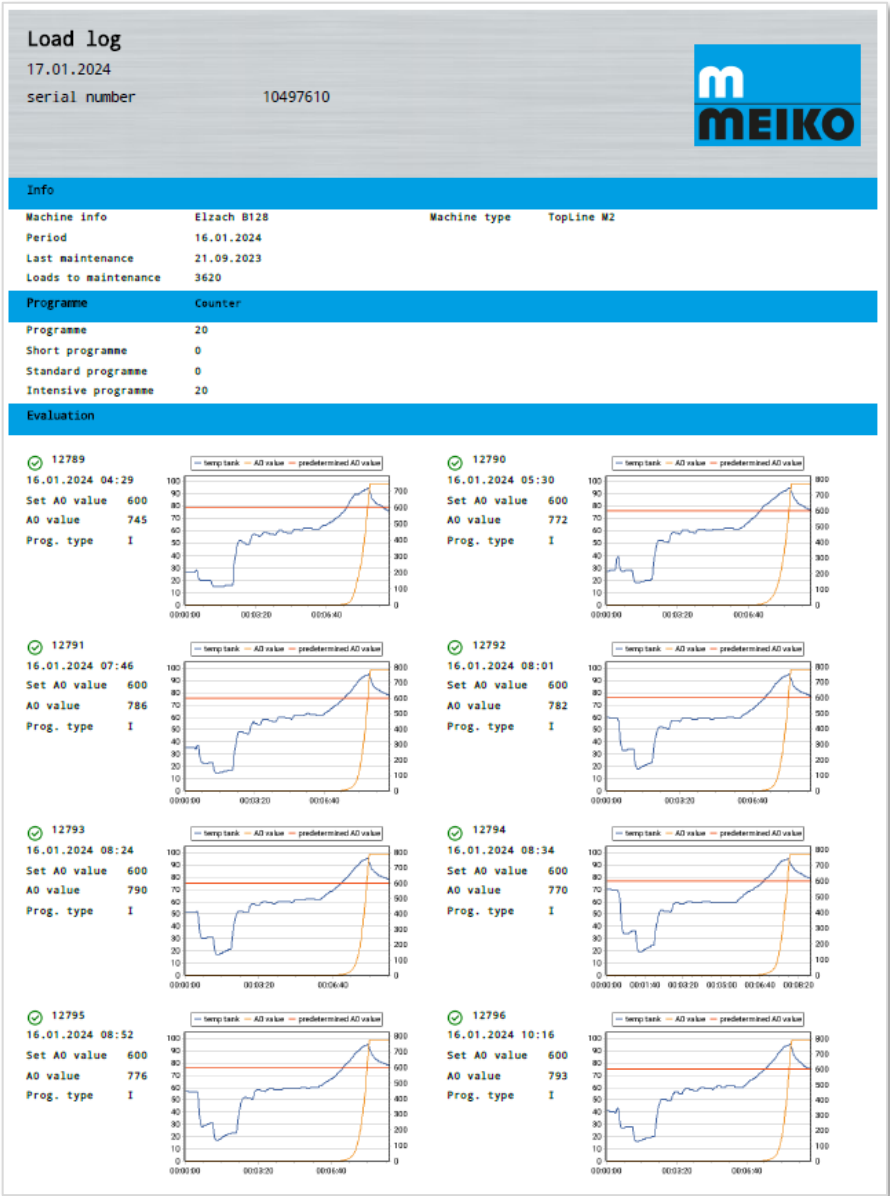
| Chemical consumption | Day | Total |
|----------------------|-------|-------|
| Detergent | 251ml | 57l |
| Rinse aid | 32ml | 13l |

| Hygiene settings | Value | Value | |
|---------------------|-------|--------------------------|-------|
| Disinfection mode | 2 | Disinfection temperature | 85°C |
| A0 value (global) | 600 | Disinfection time | 75sec |
| Minimum A0 value | 60 | | |
| Min. temperature A0 | 70°C | | |

Mobile Version for Smartphone

Create PDF to Log / Hygiene Report

Daily Protocol (Settings / Technical)





...connectivity...

PC version (Microsoft)

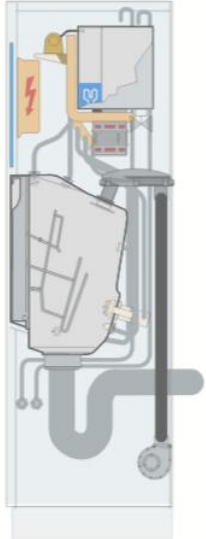
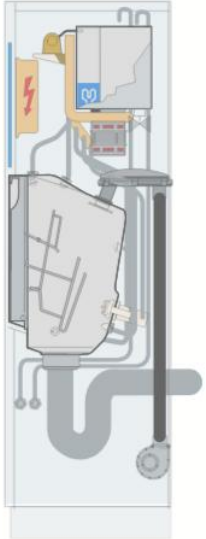
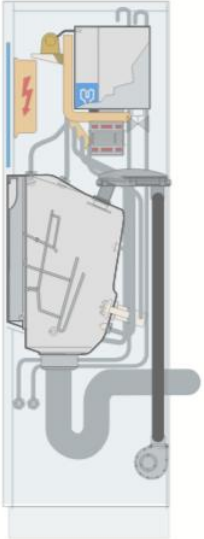
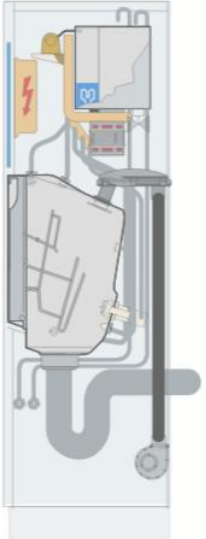
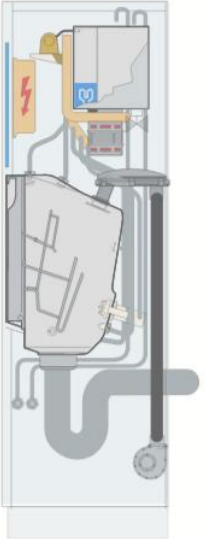
BlueVision 4

Machine Overview

Machine Overview

Group1

- Machine 1 (Warning icon) 10497611
- Machine 2 (Error icon) 10423979
- Machine 3 (Warning icon) 10421618
- Machine 4 (Warning icon) 10477794
- Machine 5 (Error icon) 10421616

| Machine 5 (10421616 - TopLine M2) | Machine 4 (10477794 - TopLine M2) | Machine 3 (10421618 - TopLine M2) | Machine 2 (10423979 - TopLine M2) | Machine 1 (10497611 - MEIKO TopLine) |
|--|--|--|--|--|
|  |  |  |  |  |

PC version (Microsoft)

Machine Overview

Group1

| | | |
|-----------|--|----------|
| Machine 1 | | 10497611 |
| Machine 2 | | 10423979 |
| Machine 3 | | 10421618 |
| Machine 4 | | 10477794 |
| Machine 5 | | 10421616 |

Machine Overview

Daily protocol

Load log

Operation

[02.01.2024]

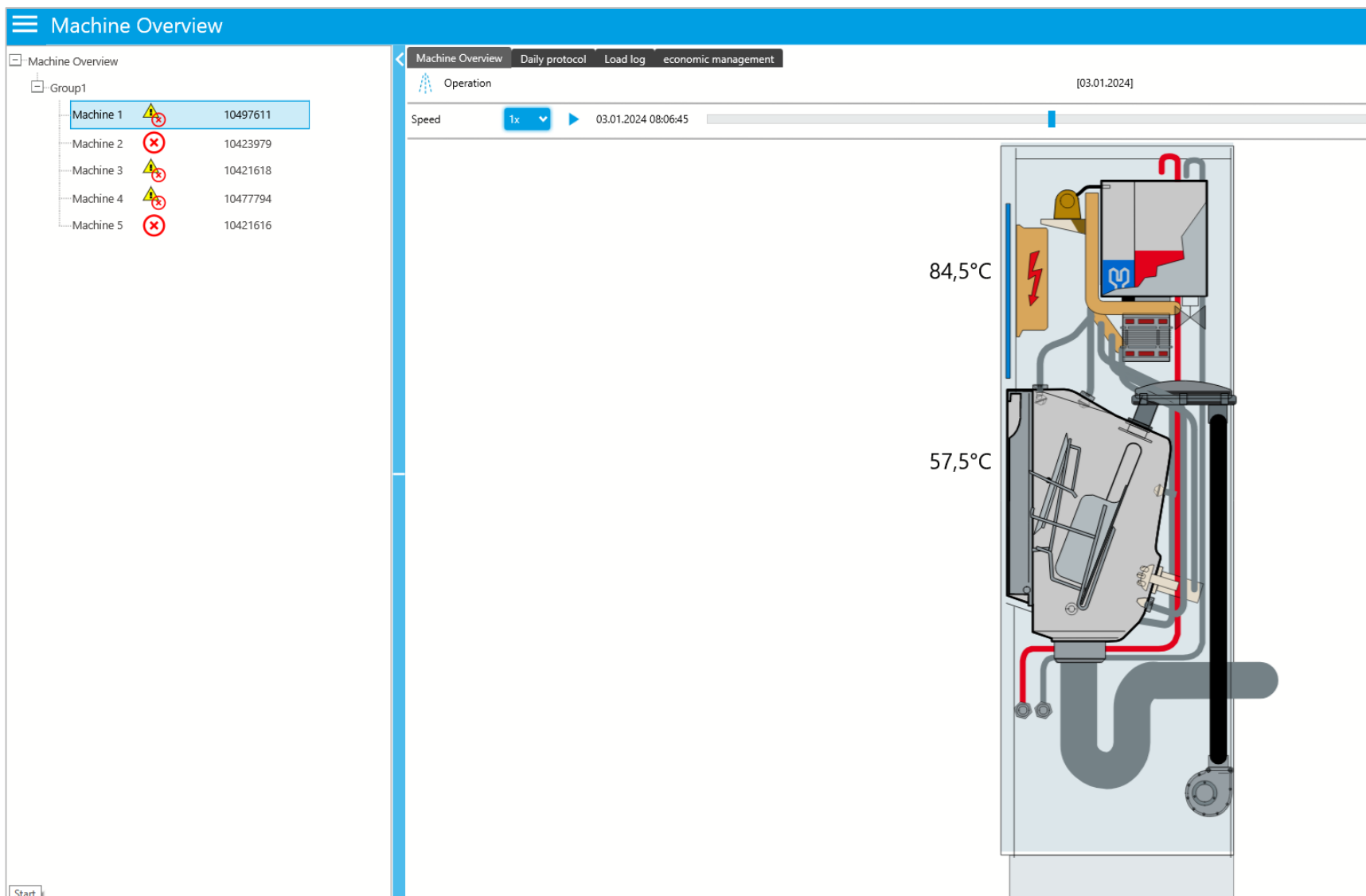
Speed

1x

▶

02.01.2024 07:09:51

PC version (Microsoft)



PC version (Microsoft)

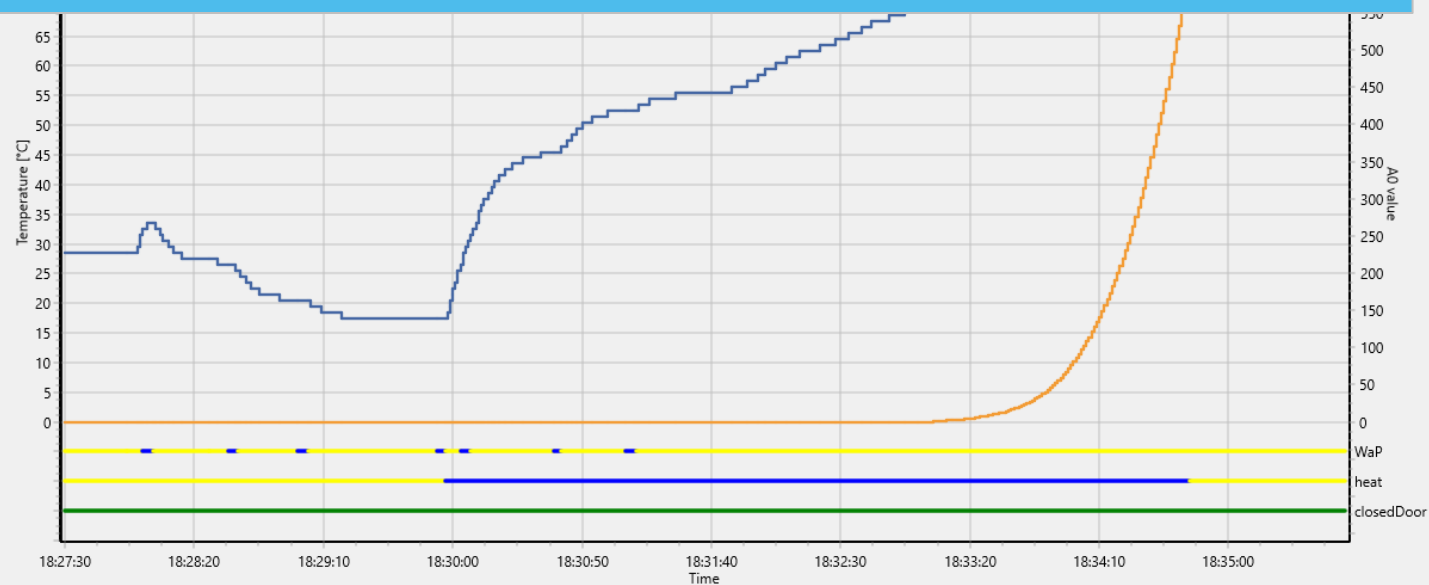


14.01.2024

Group1

| | | |
|-----------|--|----------|
| Machine 1 | | 10497611 |
| Machine 2 | | 10423979 |
| Machine 3 | | 10421618 |
| Machine 4 | | 10477794 |
| Machine 5 | | 10421616 |

| Load no. | Start | | | | Result | Status |
|----------|-------|---------------------|----------------------|----------------|----------------|--------|
| 14309 | 18:27 | Short programme | A0 value calculation | A0 value : 600 | A0 value : 738 | ✓ |
| 14308 | 17:35 | Intensive programme | A0 value calculation | A0 value : 600 | A0 value : 751 | ✓ |
| 14307 | 17:14 | Short programme | A0 value calculation | A0 value : 600 | A0 value : 734 | ✓ |
| 14306 | 11:43 | Short programme | A0 value calculation | A0 value : 600 | A0 value : 757 | ✓ |
| 14305 | 11:27 | Intensive programme | A0 value calculation | A0 value : 600 | A0 value : 757 | ✓ |
| 14304 | 11:05 | Short programme | A0 value calculation | A0 value : 600 | A0 value : 746 | ✓ |
| 14303 | 09:18 | Intensive programme | A0 value calculation | A0 value : 600 | A0 value : 770 | ✓ |

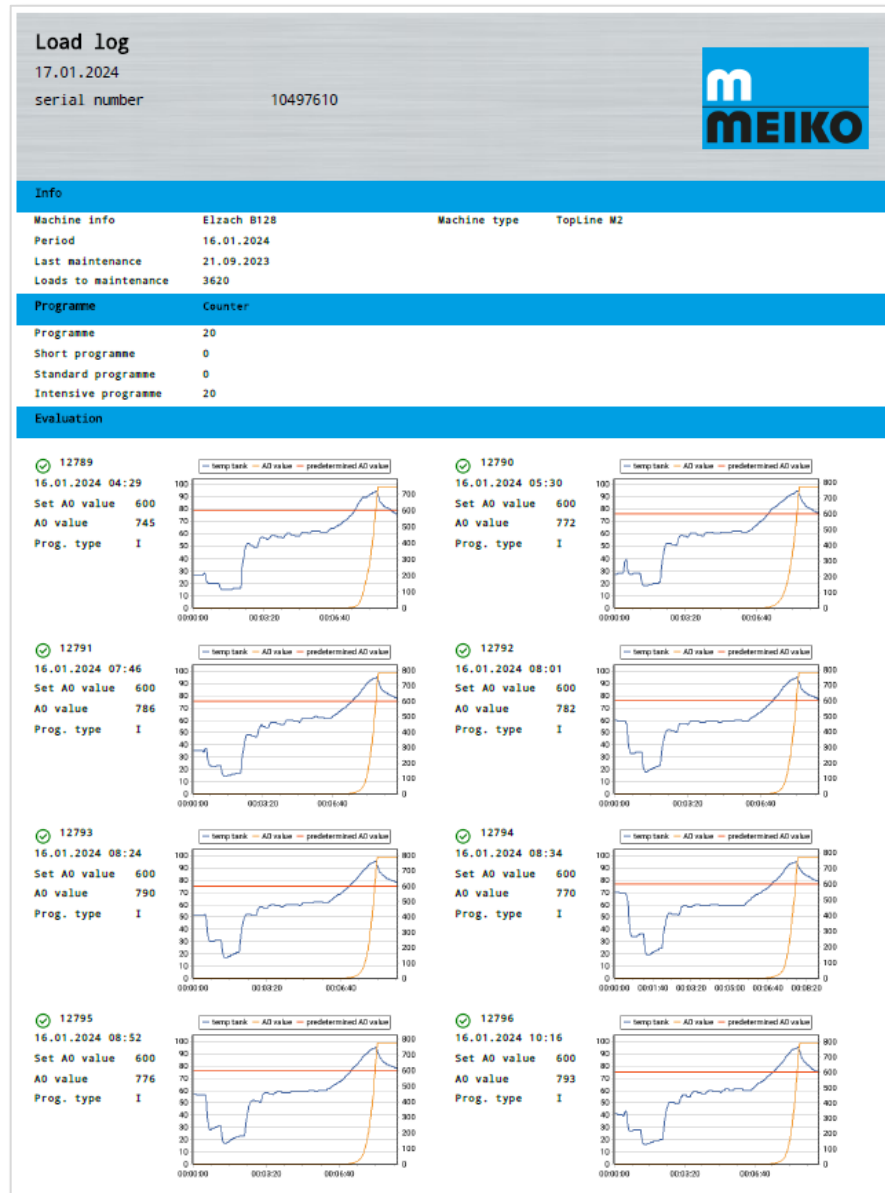


Create PDF to:

PC version (Microsoft)

Load log / hygiene report


Daily protocol (settings / technical)



Daily protocol

16.01.2024

serial number10497610



| Maintenance | Value |
|----------------------|------------|
| Last maintenance | 21.09.2023 |
| Next maintenance | 5941h |
| Loads to maintenance | 3620 |

| Operating times | Day | Total |
|--------------------------|----------|-------|
| Total time | 3h 7min | 1681h |
| Wash pump | 0h 12min | 76h |
| Wash pump for SSF | 0h 0min | 0h |
| Dose detergent | 0h 2min | 12h |
| Dose rinse aid | 0h 0min | 6h |
| Heating in LPSG | 1h 41min | 1004h |
| Cold water filling valve | 0h 19min | 148h |
| Hot water filling valve | 1h 1min | 396h |
| Unlock main nozzle | 0h 12min | 60h |
| Blower | 0h 52min | 561h |
| Open door | 0h 1min | 18h |
| Close door | 0h 1min | 19h |
| Unlock door | 0h 0min | 3h |
| Lock door | 0h 0min | 3h |

| Counter | Day | Total |
|----------------------|-----|-------|
| Total loads | 20 | 1380 |
| Programme position 1 | 0 | 40 |
| Programme position 2 | 0 | 2 |
| Programme position 3 | 20 | 1338 |
| External start 1 | 0 | 0 |
| External start 2 | 0 | 0 |
| C&D time switch | 0 | 0 |
| SSF time switch | 0 | 0 |
| Ventilate rinse aid | 0 | 4 |
| Ventilate detergent | 0 | 3 |

| Water consumption | Day | Total |
|-------------------|------|-------|
| Cold water | 324l | 120m³ |
| Hot water | 979l | 371m³ |

| Chemical consumption | Day | Total |
|----------------------|-------|-------|
| Detergent | 251ml | 57l |
| Rinse aid | 32ml | 13l |

| Hygiene settings | Value | Value | |
|---------------------|-------|--------------------------|-------|
| Disinfection mode | 2 | Disinfection temperature | 85°C |
| A0 value (global) | 600 | Disinfection time | 75sec |
| Minimum A0 value | 60 | | |
| Min. temperature A0 | 70°C | | |



...safety...

Up to A_0 value 12.000 possible



- Hygiene safety
- A_0 value selectable as per ISO 15883
- Investment in the future



MEIKO predicts the TopLine M2 will revolutionize the current imperfect patient room cleaning and disinfection processes and will contribute to operational, sustainability, and patient safety improvements.