

BPW1260 – BPW4260 PROGRAM TABLE

BPW1260: Sanitary bedpan washer – Hospital Sector

WARNING

This document specifies the characteristics of the washing programs and constitutes an appendix to the device's user manual; it must be consulted together with the manual for proper, safe use of the device. Programs may vary depending on the firmware version installed. If in doubt, have authorised staff check that the installed version is the same as the version to which the document refers, stated in the concluding table.

BRIEF TABLE OF PROGRAMS

N°	NAME	TYPE OF LOAD	A0	COLD WATER CONSUMPTION (L)	HOT WATER CONSUMPTION (L)	ELECTRICITY CONSUMPTION (kWh)	TOTAL DESCALER CONSUMPTION (ml)			TOTAL DETERGENT CONSUMPTION (ml) (when installed)				CYCLE AVERAGE DURATION (min)	
							MIN 0,5 ml/l	MAX 2 ml/l	...	MIN 0,5 ml/l	MAX 10 ml/l	...	3 ml/l		...
1	URINE BOTTLES	ONLY URINE BOTTLES	300	28,5	22	0,42	**14,5	58	...	5,5	...	**33	...	110	9
2	NORMAL BEDPANS	URINE BOTTLES + BEDPAN	300	28,5 (*39,5)	44 (*55)	0,43	**14,5	58	...	5,5 (*11)	...	**33 (*66)	...	110 (*220)	11 (*14)
3	INTENSIVE BEDPANS	URINE BOTTLES + BEDPAN	300	28,5 (*39,5)	66 (*88)	0,44	**14,5	58	...	11 (*16,5)	...	**66 (*99)	...	220 (*330)	15 (*18)
4	ECO URINE BOTTLES	ONLY URINE BOTTLES	60	24,8	14,6	0,37	**14,5	58	...	**3,7	...	21,9	...	73	8
5	ECO NORMAL BEDPANS	URINE BOTTLES + BEDPAN	60	24,8 (*32,1)	32,9 (*40,2)	0,40	**14,5	58	...	**3,7 (*7,3)	...	21,9 (*43,8)	...	73 (*146)	9 (*11)
6	ECO INTENSIVE BEDPANS	URINE BOTTLES + BEDPAN	60	24,8 (*32,1)	47,5 (*62,1)	0,40	**14,5	58	...	**7,3 (*11)	...	43,8 (*65,7)	...	146 (*219)	11 (*14)
7	MULTIPURPOSE RACK	BUCKETS + VARIOUS CONTAINERS	60	39,5	44	0,34	**14,5	58	...	5,5	...	**33	...	110	11
8	CLOSTRIDIUM	URINE BOTTLES + BEDPAN	600	28,5 (*39,5)	77 (*99)	0,42	**14,5	58	...	N/A	...	**253 (*286)	...	**253 (*286)	20 (*23)

***Note 1:** the value in brackets refers to consumption with device fitted with the support for washing two bedpans (ref. "BPW-2B", code 905423). The difference in electricity consumption between the two scenarios is negligible.

****Note 2:** the descaler and detergent values in **bold type** refer to the standard default setup. Dosages can be set depending on requirements (except for program no.8 CLOSTRIDIUM, where the default value cannot be changed).

ABBREVIATIONS and TERMS USED

CODE	DESCRIPTION
CW	Cold water
HW	Hot Water
P1	Peristaltic dispensing pump P1, for detergent – optional. When the washing program indicates P1: if the optional accessory is installed, the relative detergent is dispensed; otherwise the device performs the phase without chemical additives.
P2	Peristaltic dispensing pump P2, for acid.
Pi(n)	Refers to: dosage of n ml/litre of the product dispensed by pump P_i . [P1 (3) indicates dosage of alkaline detergent with concentration of 3ml/litre]
A₀	Thermal disinfection parameter, see specific point.
IdProg	Unique identifier of the program, used in the internal memory of the electronic circuit board and in the printout (if the printer is installed).
Ph	Phase. “Ph 1” refers to Phase 1 of the washing cycle.
TD	Thermal disinfection phase, performed using steam: the spray systems are not activated and instead the steam generated by the device heats the load to a high temperature to reach the target value of parameter A_0 .
T_target	Target temperature during the final steam removal phase.
-R	Suffix applied to a specific phase (e.g. P1-R) to indicate that the phase is performed when washing of Bedpan 2 (on the right) is enabled and is actually a repetition of the previous phase, performed for Bedpan 1 (left). N.B.: when bedpan 2 is not placed in the device, the phase is bypassed.
Steam removal	At the end of the thermal disinfection process, the device removes the steam from the chamber: <ul style="list-style-type: none"> - By fan-assisted convection: if the specific system is installed. - By natural convection: otherwise. The process ends when the target temperature in the chamber (T_{target}), generally set around 65 °C, is reached. N.B.: this process is intended to remove the steam and not for washing and disinfection purposes; it is not marked as a specific phase on the display.
Pause	A controlled period of time between one phase and the next. Pauses only occur in specific cycles and are included in the parameters in the table.


ABBREVIATIONS REFERRING TO THE TYPE OF SPRAYING AND WASHING PERFORMED

CODE	DESCRIPTION
U.B.	<i>Urine Bottles.</i> Washing process for this type of sanitary aids.
BP.1	<i>Bedpan 1, left.</i> Washing process for this type of load.
BP.2	<i>Bedpan 2, right.</i> Washing process for this type of load, only active if the specific circuit is installed.
U.S.	<i>Upper Spraying.</i>
M.W.	<i>Multipurpose wash,</i> "multipurpose" rack washing for various types of support
ALL	All the spraying systems installed in the device are activated simultaneously.

N.B.: the different types of spraying can also be combined.

For example "**M.W. + U.B.**" indicates that both spraying systems, M.W. and U.B. as identified above, are activated.

PARAMETER A₀

	Parameter A₀ – referred to below as a specific characteristic of each program – is used in the EN ISO 15883-1 product standard to assign a numerical value to the thermal disinfection efficacy achieved.
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A₀ is calculated by performing an addition, as follows:


$$A_0 = \sum 10^{\left[\frac{T-80}{z}\right]} \times \Delta t$$

Where:

z = 10 °C	T = temperature in °C	t = time in seconds of the interval considered
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For calculation of the parameter, the device considers:

1. The final, Thermal disinfection phase.
2. The moments during which the temperature is above 75 °C, adding them up in accordance with the formula.

	The A ₀ parameter values in the table refer to the standard default values. Any changes to the parameter can be made by an operator with "Superuser" credentials, using the relative password.
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RECOMMENDED CHEMICAL PRODUCTS


P1 – Detergent:

- *Smeg DETER-BPW*
- *Neodisher Mediclean Forte*

P2 – Acid neutralising agents:

- *Smeg DEKAL 100*
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	The chemical concentration values in the table refer to the standard default values. Any changes to these values can be made by an operator with "Superuser" credentials, using the relative password.
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	<p>Programs were tested in accordance with the relevant performance and safety standards, with reference to the chemical agents mentioned in this document and recommended by the authorised staff.</p> <p>Programs were tested with positive outcome both with and without the optional pump P1.</p> <p>The use of other chemical products may cause unsatisfactory washing results or lead to damage for the device or the surrounding environment and harm to users. The manufacturer declines all liability for uses other than those specified in the documentation accompanying the product.</p>
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WASHING PROGRAMS

INTRODUCTORY NOTES

Below, each program is subdivided into its constituent phases, explaining, by means of abbreviations:


- the type and quantity of water taken in,
- The type of chemical agent dispensed,
- The spraying mode used in the phase, since the device has different spraying circuits depending on the type of load (urine bottles, bedpans or other items).

The descriptive name of the program, as provided below in full (e.g. "URINE BOTTLES"), is used in this document to clarify the intended type of load, and is saved in the device's internal memory but does not appear on the display.

The type of load which can be processed depends on the washing support used and the device's actual equipment. Consult authorised after-sales service staff for information about the supports compatible with the device.

"Preparation" is the initial phase which prepares the device for the washing cycle as such, in which it takes in cold water.

SERVICE PROGRAMS

	Programs PRDIS, FILL, PRSR1, RESET and TEST [Also saved in the memory with IdProg. 800, 801, 802, 803 and 804] are service programs marked with the relative icon (as shown in the illustration) and cannot be used to process the load.
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NAME	TYPE OF LOAD	A ₀	COLD WATER CONSUMPTION (L)	HOT WATER CONSUMPTION (L)	ELECTRICITY CONSUMPTION (kWh)	AVERAGE DESCALER CONSUMPTION (ml)	AVERAGE DETERGENT CONSUMPTION (ml)	CYCLE AVERAGE DURATION (min)
PRDIS	URINE BOTTLES + BEDPAN	600	24,8	14,6	0,45	23,5	-	9
FILL	-	-	11	-	-	5,5	-	2
PRSR1	-	-	-	29,3	-	110	110	7
RESET	-	-	-	-	-	-	-	-
TEST	-	6000	28,5	33 (*44)	0,77	108	99 (*198)	24 (*27)

PROGRAM 01 – URINE BOTTLES

On display: Pr 01 – IdProg. 701

Intended purpose: washing and thermal disinfection of Urine Bottles.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	11	-	U.B. [Urine Bottles]
Ph.3	Wash	HW	11	P1(3)	U.B. [Urine Bottles]
Ph.4	Rinse	HW	11	P2(0,5)	ALL
Ph.5	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 300
-	Steam removal	-	-	-	T_target = 55 °C

PROGRAM 02 – NORMAL BEDPANS

On display: Pr 02 – IdProg. 702

Intended purpose: washing and thermal disinfection of sanitary bedpans and urine bottles.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	11	-	BP.1 [Bedpan 1, left]
Ph.2-R	Prewash	CW	11	-	BP.2 [Bedpan 2, right]
Ph.3	Prewash	HW	11	-	U.B. [Urine Bottles]
Ph.4	Wash	HW	11	P1(3)	BP.1 [Bedpan 1, left]
Ph.4-R	Wash	HW	11	P1(3)	BP.2 [Bedpan 2, right]
Ph.5	Rinse	HW	11	-	U.S. [Upper Spraying]
Ph.6	Rinse	HW	11	P2(0,5)	ALL
Ph.7	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 300
-	Steam removal	-	-	-	T_target = 55 °C

PROGRAM 03 – INTENSIVE BEDPANS

On display: Pr 03 – IdProg. 703

Intended purpose: washing and thermal disinfection of sanitary bedpans and urine bottles - intensive washing validated under **15883**.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	11	-	BP.1 [Bedpan 1, left]
Ph.2-R	Prewash	CW	11	-	BP.2 [Bedpan 2, right]
Ph.3	Wash	HW	11	P1(3)	U.B. [Urine Bottles]
Ph.4	Wash	HW	11	P1(3)	BP.1 [Bedpan 1, left]
Ph.4-R	Wash	HW	11	P1(3)	BP.2 [Bedpan 2, right]
Ph.5	Rinse	HW	11	-	U.S. [Upper Spraying]
Ph.6	Rinse	HW	11	-	BP.1 [Bedpan 1, left]
Ph.6-R	Rinse	HW	11	-	BP.2 [Bedpan 2, right]
Ph.7	Rinse	HW	11	-	U.B. [Urine Bottles]
Ph.8	Rinse	HW	11	P2(0,5)	ALL
Ph.9	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 300
-	Steam removal	-	-	-	T_target = 55 °C

PROGRAM 04 – ECO URINE BOTTLES

On display: Pr 04 – IdProg. 704

Intended purpose: washing and thermal disinfection of Urine Bottles – Eco: water and energy saving.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	7.3	-	U.B. [Urine Bottles]
Ph.3	Wash	HW	7.3	P1(0,5)	U.B. [Urine Bottles]
Ph.4	Rinse	HW	7.3	P2(0,5)	ALL
Ph.5	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 60
-	Steam removal	-	-	-	T_target = 55 C

PROGRAM 05 – ECO NORMAL BEDPANS

On display: Pr 05 – IdProg. 705

Intended purpose: washing and thermal disinfection of sanitary bedpans and urine bottles - Eco: water and energy saving.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	7.3	-	BP.1 [Bedpan 1, left]
Ph.2-R	Prewash	CW	7.3	-	BP.2 [Bedpan 2, right]
Ph.3	Prewash	HW	7.3	-	U.B. [Urine Bottles]
Ph.4	Wash	HW	7.3	P1(0,5)	BP.1 [Bedpan 1, left]
Ph.4-R	Wash	HW	7.3	P1(0,5)	BP.2 [Bedpan 2, right]
Ph.5	Rinse	HW	7.3	-	U.S. [Upper Spraying]
Ph.6	Rinse	HW	7.3	P2(0,5)	ALL
Ph.7	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 60
-	Steam removal	-	-	-	T_target = 55 °C

PROGRAM 06 – ECO INTENSIVE BEDPANS

On display: Pr 06 – IdProg. 706

Intended purpose: washing and thermal disinfection of sanitary bedpans and urine bottles - Eco: water and energy saving.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	7.3	-	BP.1 [Bedpan 1, left]
Ph.2-R	Prewash	CW	7.3	-	BP.2 [Bedpan 2, right]
Ph.3	Wash	HW	7.3	P1(3)	U.B. [Urine Bottles]
Ph.4	Wash	HW	7.3	P1(3)	BP.1 [Bedpan 1, left]
Ph.4-R	Wash	HW	7.3	P1(3)	BP.2 [Bedpan 2, right]
Ph.5	Rinse	HW	7.3	-	U.S. [Upper Spraying]
Ph.6	Rinse	HW	7.3	-	BP.1 [Bedpan 1, left]
Ph.6-R	Rinse	HW	7.3	-	BP.2 [Bedpan 2, right]
Ph.7	Rinse	HW	7.3	-	U.B. [Urine Bottles]
Ph.8	Rinse	HW	7.3	P2(0,5)	ALL
Ph.9	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 60
-	Steam removal	-	-	-	T_target = 55 °C

PROGRAM 07 – MULTIPURPOSE RACK

On display: Pr 07 – IdProg. 707

Intended purpose: washing and thermal disinfection of other non-critical, non-invasive aids and containers similar to bedpans.

Optional accessory R-UNIV (multipurpose rack) must be installed in order to use this program.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	11	-	M.W. [Multipurpose Wash]
Ph.3	Prewash	HW	11	-	U.S. [Upper Spraying]
Ph.4	Wash	HW	11	-	M.W. [Multipurpose Wash]
Ph.5	Rinse	HW	11	P1(3)	U.S. [Upper Spraying]
Ph.6	Rinse	HW	11	-	M.W. + U.S. [Multipurpose Wash + Upper Spraying]
Ph.7	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 300
-	Steam removal	-	-	P2(0,5)	T_target = 55 °C

PROGRAM 08 – CLOSTRIDIUM

On display: Pr 08 – IdProg. 708

Intended purpose: washing and thermal disinfection of sanitary bedpans and urine bottles, with special treatment for removal of “Clostridium Difficile” bacteria.

In order to use this program, P1 must have been installed and enabled within the program (by the engineer).

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Prewash	CW	11	-	BP.1 [Bedpan 1, left]
Ph.2-R	Prewash	CW	11	-	BP.2 [Bedpan 2, right]
Ph.3	Prewash	HW	11	-	U.B. [Urine Bottles]
Ph.4	Wash	HW	11	P1(3)	BP.1 [Bedpan 1, left]
Ph.4-R	Wash	HW	11	P1(3)	BP.2 [Bedpan 2, right]
Ph.5	Wash	HW	11	P1(10)	BP.1 + U.B [Bedpan 1 + Urine Bottles]
-	Wash	HW	11	P1(10)	BP.2 + U.B [Bedpan 2 + Urine Bottles]
-	-	-	-	-	[+ Pause 60 sec.]
Ph.6	Rinse	HW	11	-	U.S. [Upper Spraying]
Ph.7	Rinse	HW	11	-	BP.1 [Bedpan 1, left]
Ph.7-R	Rinse	HW	11	-	BP.2 [Bedpan 2, right]
Ph.8	Rinse	HW	11	P2(0,5)	ALL
Ph.9	Thermal disinfection	CW	11	P2(0,5)	TD, A₀ = 6000
-	Steam removal	-	-	-	T_{target} = 55 °C

CUSTOM PROGRAMS

On display: PrC 01, PrC02 ... – **IdProg.** 751, ..., 760

Intended purpose: Washing and thermal disinfection of sanitary bedpans, urine bottles or other non-critical, non-invasive aids, such as containers similar to bedpans – programs customisable by “Superuser” user.

The fixed phases of every Custom program which cannot be edited by the user are listed in the table below.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive	Washing Type / Target
Ph.1	Preparation	CW	6,5	P2(0,5)	-
Ph.2					
Ph.3					
...					
...					
Ph.15	Rinse	HW	11	P2(0,5)	ALL
Ph.16	Thermal disinfection	CW	11	P2(0,5)	TD, A ₀ = 60
-	Steam removal	-	-	-	T _{target} = 55°C

The other, intermediate phases can be activated and customised using the parameters shown in the WD-Connect Multi app.

These are the programs which can be modified to meet specific requirements. Modifications can be made using the Smeg WD-CONNECT MULTI software or by authorised engineers on request. For minimum installation requirements, contact your authorised dealer.

Always keep a record of the various phases and characteristics of the new custom programs.

Note 1: construction of a custom washing program requires specific knowledge both of the load treatment process and of the parameters of the device being used. This function is password-protected.

Note 2: always proceed in compliance with the regulations in force in the place of installation: a custom program used for processing the load must be validated by the user in accordance with the relevant regulations and standards. Consult the authorised technical service for further information.

Note 3: For the thermal disinfection phase, it is possible to edit the A₀ value.

SERVICE PROGRAMS



The following Programs, identified as Service, must not be considered as washing programs.

PrDis – SELF-DISINFECTION

On display: PrDis – IdProg. 800

Intended purpose: thermal disinfection of the chamber, without load.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Service	CW	7.3	-	ALL
Ph.3	Service	HW	7.3	P2(2)	ALL
Ph.4	Service	HW	7.3	-	BP.1 [Bedpan 1, left] ALL
Ph.5	Thermal disinfection	CW	11	P2(0,5)	TD, A ₀ = 600
-	Steam removal	-	-	-	T_target = 55 °C

Fill – PREPARATION

On display: Fill – IdProg. 801

Intended purpose: filling of the steam generator, to be used after a procedure which requires emptying of the generator (e.g. replacement of the heating element).

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	11	P2(0,5)	-

PrSr1 – SERVICE PERISTALTIC PUMP

On display: PrSr1 – IdProg. 802

Intended use: priming of the additive circuits (e.g. after replacement of a jerry can which has run out).

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Wash	HW	11	P1(10)	ALL
Ph.2	Rinse	HW	11	P2(10)	ALL
Ph.3	Rinse	HW	7.3	-	ALL

ReSet – RESET

On display: ReSet – IdProg. 803

Intended purpose: emptying of the tank.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	-	-	-	-	ALL

TeSt – TESTING

On display: TeSt – IdProg. 804

Intended purpose: test program after an installation/procedure by the engineer.

Phase No.	Phase Type	Water Type	Water Intake [Litres]	Additive (ml/litre)	Washing Type / Target
Ph.1	Preparation	CW	6.5	P2(0,5)	-
Ph.2	Service	CW	11	-	U.B. [Urine Bottles]
Ph.3	Service	HW	11	P1(9)	BP.1 [Bedpan 1, left]
Ph.3-R	Service	HW	11	P1(9)	BP.2 [Bedpan 2, right]
Ph. 4	Service	HW	11	P2(9)	M.W. [Multipurpose Wash]
Ph. 5	Service	HW	11	-	U.S. [Upper Spraying]
Ph.6	Thermal disinfection	CW	11	P2(0,5)	TD , A ₀ = 6000
-	Steam removal	-	-	-	T_target = 55 C

195920397				
	01 - EN	Program set code 16 812 0040 02	02/10/2023	Initial summary table updated and phase data in detailed table corrected. Custom program section added. Service Programs: names updated.
	00 – EN	Program set code 16 812 0040 00	15/02/2023	First issue.
Doc.	Rev.	Firmware version	Doc. Date	Update notes

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