

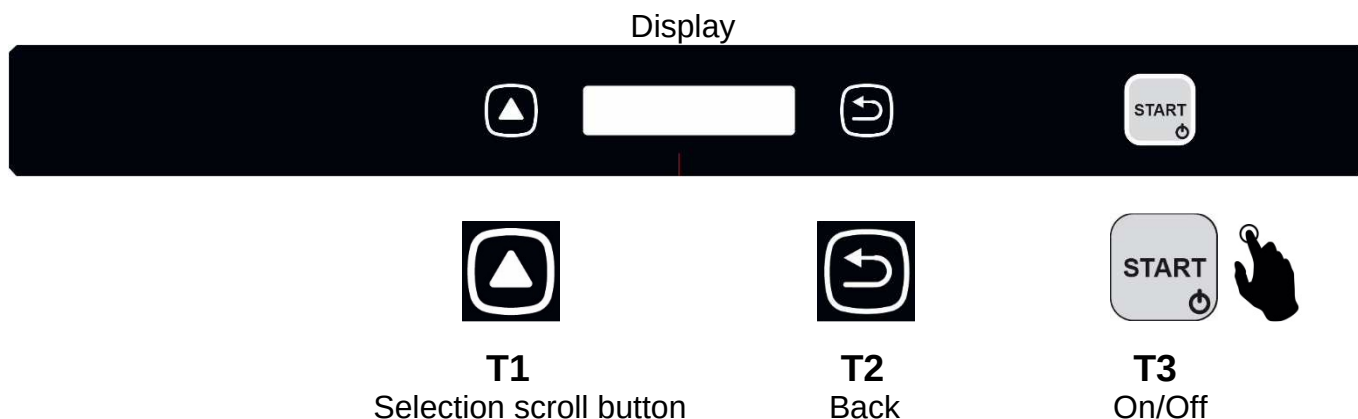
Prime Series - TECHNICAL MANUAL

Valid for **Firmware** version **1.11** and subsequentes

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1. Technical menu (first and second level)

- **First level : parameters L (all), d (all), S01, S05**

OPERATION

Power ON (display shows OFF)
Door open
Press T2 for 10 sec., (Display shows "Technical menu")
Press T2 to select parameter
Press T3 to choose parameter setting (display flashing)
Press T1 to increase or T2 to decrease.
Press T3 to confirm
Scroll T1 or T2 until reach ESC
Press T3 to confirm exit

- **Second level: all parameters**

OPERATION

Power ON (display shows OFF)
Door open
Press T1 and T2 both for 20 sec., (Display shows "Technical menu")
Press T2 to select parameter
Press T3 to choose parameter setting (display flashing)
Press T1 to increase or T2 to decrease.
Press T3 to confirm
Scroll T1 or T2 until reach ESC
Press T3 to confirm exit

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2. Language selection

Parameter **S01**

3. Factory configuration (pls. see below)

Parameter **S02 (only available in second level technical menu)**

Please refer to “**Type**” and “**Conf**” in diagram below

Glasswashers / Lavabicchieri / Gläserspülmaschinen / Lave-verres / Lavavasos

Type PB24 / PB34 PB24-A / PB34-A

Conf. AA01 AA02

Undercounter dishwashers/Lavastoviglie sottobanco/Untertischgeschirrspüler/Lave-vaisselle/Frontales

Type PF45 PF45-A PF45-R PF45-RA PF45-RA UK* PF46-R PF46-RA PF46-RA UK*
PF46

Conf. AB01 AB02 AB03 AB05 AB04 AB06 AB08 AB07

Pass-through dishwashers / Lavastoviglie passanti / Korbdurchschubmaschinen / Capot / Capota

Type PC07 PC07-R PC07-RA PC07-RA UK*

Conf. AC01 AC03 AC05 AC04

Type PC09 PC09-R PC09-RA

Conf. AD01 AD02 AD04

Type PC12 PC12-R PC12-RA

Conf. AE01 AE02 AE04

Utensils washer/ Lavautensili frontali / Mehrzweckspülmaschine/ Laveuse multifonctions / Lavautensilios

Type PFS90 PFS90-RA UK* PFS90-RA

Conf. AF02 AF03 AF04

***UK Version**

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4. Drain pump

Parameter **S16** (only available in second level technical menu)

5. CRC (Heat recovery unit)

Parameters **S08, S12** (only available in second level technical menu)

6. Times and temperatures

Parameters **"L.."**

7. Automatic / manual cycle start

Parameter **S05**

8. Soft-start

Parameter **S19** (only available in second level technical menu)

9. Fast forwarding

Parameter **S11** (only available in second level technical menu)

10. Softener regeneration

Parameters **R01, (R02, R03, R04 only UK Version)**
(only available in second level technical menu)

11. Cycles counter

Parameter **L16**

12. Temperature measuring unit (°C / °F)

Parameter **S04** (only available in second level technical menu)

13. Exit

Parameter **Esc**

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14. Technical Menu Parameters description

PARAMETER	DESCRIPTION	SETTING / MEASURING UNIT
S01	Language setting	-
S02	Machine-specific parameters Preset profile (pls. refer to section "Standard configuration")	-
S03	----	-
S04	Temperature measuring unit: °C / °F	°C \ °F
S05	Start mode: NO = Manual start (START push button) YES = Automatic start (door/hood)	NO \ YES
S06	Booster/tank heating 0 = commutation (default) 1 = simultaneous	0 \ 1
S07	Tank temperature control on cycle start 0 = cycle start without control of tank temperature (default) 1 = cycle start allowed only with tank at right temperature	0 \ 1
S08	Heat recovery unit (CRC) activation time 0 = CRC not present 120 sec. = CRC present	seconds
S09	Rinse pump activation on dishwasher switch-on (RCD reset function)	seconds
S10	Rinse pump (RCD) activation during first tank filling.	seconds
S11	Wash pump soft start (PC09-PC12 = NO) YES = soft start active NO = soft start not active	YES \ NO
S12	Activation of Expansion PCB n° 2 (YES if CRC is present, but NO RCD)	NO \ YES
S13	Timeout first tank filling	30 min. PB-PF 50min. PC
S14	Timeout booster filling	8 min. PB-PF 15 min. PC
S15	Tank filter presence detection NOT USED	NO / YES
S16	Drain pump YES = drain pump present NO = drain pump not present	NO \ YES
S17	Control of detergent and rinse-aid level in external tanks NOT USED	NO / YES
S19	Fast washing forward (this function allows speed-up of washing phase for test purposes – press START push button repeatedly) NO = function disabled during standard service YES = function enabled	NO / YES
S29	Tank temperature max configurable setpoint NO = max configurable tank setpoint 65 °C (default) YES = max configurable tank setpoint 80 °C	NO / YES

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S30	Water leakage sensor (A8 alarm) NO = leakage sensor not present (default) YES = leakage sensor present	NO / YES
L01	Wash time cycle Eco	seconds
L02	Wash time cycle Glasses	seconds
L03	Wash time cycle Dishes	seconds
L04	Wash time cycle Intensive	seconds
L06	Pause time cycle Eco	seconds
L07	Pause time cycle Glasses	seconds
L08	Pause time cycle Dishes	seconds
L09	Pause time cycle Intensive	seconds
L11	Rinse time cycle Eco	seconds
L12	Rinse time cycle Glasses	seconds
L13	Rinse time cycle Dishes	seconds
L14	Rinse time cycle Intensive	seconds
L16	Total cycles counter	N°
L17	Tank set-point temperature cycle Eco	°C \ °F
L18	Booster set-point temperature cycle Eco	°C \ °F
L19	Tank set-point temperature cycle Glasses	°C \ °F
L20	Booster set-point temperature cycle Glasses	°C \ °F
L21	Tank set-point temperature cycle Dishes	°C \ °F
L22	Booster temperature cycle Dishes	°C \ °F
L23	Tank set-point temperature cycle Intensive	°C \ °F
L24	Booster set-point temperature cycle Intensive	°C \ °F
L27	Negative difference on tank set-point temperature after 30 min. stand-by NO = no negative difference (default) 1...10 °C = negative difference 1...10 °C after 30 min. stand-by.	NO / 1...10 °C
L28	Negative difference on booster set-point temperature: - after 30 minutes stand-by - during washing (consent to rinse activation) - during first filling (models PB-R , PF-R , PC-R)	10 °C
L29	Activation time of rinse solenoid valve and drain pump during Self cleaning and drain cycle (C1).	60 sec.
L30	Booster set-point temperature during Self cleaning and drain cycle (C1).	65 °C
L31	Drain cycle (C2) total time.	80 sec.- PB-PF 180 sec.- PC
L32	Drain pump activation time during final part of Self cleaning and drain cycle (C1)	30 sec.
d01	Tank capacity – NOT USED	L
d02	Booster capacity – NOT USED	L
d03	Flow rate of detergent peristaltic pump – NOT USED	L/h
d04	Flow rate of rinse aid peristaltic pump – NOT USED	L/h
d05	Detergent concentration during first filling NOT USED	g/L

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d06	Rinse aid concentration NOT USED	g\L
d07	Rinse water quantity NOT USED	L
d08	Detergent injection coefficient (during washing) NOT USED	(no measuring unit)
r01	Cycles counter to notification A9 ("softener regeneration required")	20 (PB-PF) 40 (PC)
r02	(only UK models) Filling solenoid valve activation time. It controls the frequency of automatic softener regenerations. Value to be increased for water hardness below 25°F (20 Clarke/14 °dH). Value to be decreased for water hardness over 25°F (20 Clarke/14 °dH).	460 seconds (default)
r03	Softener decantation time during total resins regeneration. (only UK models)	2 minutes
r04	Softener decantation time during partial resins regeneration. (only UK models)	120 seconds
Esc	Exit programming mode	-

Parameter	Function	unit	PB (24/34)		PF 45				PC07				PC09				PC12			
			PB	PB..A	PF45	PF45-R	PF45-RA	PF45-RA	PC07	PC07-R	PC07-RA	PC07-RA	PC09	PC09-R	PC09-RA	PC09-RA	PC12	PC12-R	PC12-RA	PC12-RA
							U.K.				U.K.				U.K.				U.K.	
S2	Factory configuration (cont.)		AA01	AA02	AB01	AB03	AB04	AB05	AC01	AC03	AC04	AC05	AD01	AD02	AD03	AD04	AE01	AE02	AE03	AE04
L1	Wash time - Cycle Eco	Seconds	76	76	76	76	76	76	76	76	76	76	52	52	52	52	32	32	32	32
L2	Wash time - Cycle Glasses	Seconds	71	71	71	71	71	71	71	71	71	71	65	65	65	65	65	65	65	65
L3	Wash time - Cycle Dishes	Seconds	102	102	102	102	102	102	102	102	102	102	95	95	95	95	95	95	95	95
L4	Wash time - Cycle Intensive	Seconds	222	222	222	222	222	222	222	222	222	222	215	215	215	215	215	215	215	215
L6	Pause time - Cycle Eco	Seconds	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
L7	Pause time - Cycle Glasses	Seconds	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
L8	Pause time - Cycle Dishes	Seconds	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
L9	Pause time - Cycle Intensive	Seconds	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
L11	Rinse time - Cycle Eco	Seconds	9	9	9	9	9	9	9	9	9	9	18	18	18	18	18	18	18	18
L12	Rinse time - Cycle Glasses	Seconds	12	12	12	12	12	12	12	12	12	12	18	18	18	18	18	18	18	18
L13	Rinse time - Cycle Dishes	Seconds	11	11	11	11	11	11	11	11	11	11	18	18	18	18	18	18	18	18
L14	Rinse time - Cycle Intensive	Seconds	11	11	11	11	11	11	11	11	11	11	18	18	18	18	18	18	18	18
L17	Tank set-point temperature cycle Eco	°C \ °F	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
L18	Booster set-point Temperature cycle Eco	°C \ °F	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
L19	Tank set-point temperature cycle Glasses	°C \ °F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
L20	Booster set-point Temperature cycle Glasses	°C \ °F	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
L21	Tank set-point temperature cycle Dishes	°C \ °F	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
L22	Booster set-point Temperature cycle Dishes	°C \ °F	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
L23	Tank set-point temperature cycle Intensive	°C \ °F	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
L24	Booster set-point Temperature cycle Intensive	°C \ °F	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
L27	Tank set-point temperature during stand-by NOT USED	°C \ °F	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
L28	Temperatura di anticipo set-point boiler	°C \ °F	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
L29	Activation time of rinse solenoid valve and drain pump during Self cleaning and drain cycle (C1)	Seconds	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
L30	Booster set-point temperature during Self cleaning and drain cycle (C1).	°C	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
L31	Drain cycle (C2) total time.	Seconds	80	80	80	80	80	80	180	180	180	180	180	180	180	180	180	180	180	180
L32	Drain pump activation time during final part of Self cleaning and drain cycle (C1)	Seconds	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

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