



# Fresenius Medical Care SERVICE BULLETIN

Equipment: DRS4™  
Bulletin: 02-DRS-001 Rev A  
Subject: DRS4™ Conversions Tables

Written By	Reviewed By	Approved By	Effective Date
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## 1.0 PURPOSE

To inform all Field Service and Technical Support personnel of the requirements necessary to convert the disinfectant/cleaning agent combination used on the DRS4™.

## 2.0 SCOPE

Before the DRS4™ disinfectant/cleaning agent conversion process can be attempted, a specific kit is required in most cases and in some cases unique replacement parts for the specific conversion are required. This process can be confusing. On the following pages, there are three (3) tables to assist in the preparation for a conversion. These tables are:

- **Table 1 – Disinfectant VS Cleaning Agent Compatibility**

This table shows the workable combinations of disinfectant and cleaning agents.

- **Table 2 – Conversion Kit Requirement**

This table shows the requirements for the conversion. This includes part numbers for kits and extra components if required to perform a specific conversion.

- **Table 3 – Conversion Kit & Installation Instruction Part Numbers**

This table shows the description of all conversion kits, there part numbers, and the part number of the installation instructions that are included in each kit.

Disinfectant & Cleaning Agent Combinations	CLEANING AGENT						MPU Software Version
	Bleach	Hydrogen Peroxide	21% Peracetic Acid	33% Peracetic Acid	Puristeril 340	Water	
Formaldehyde 4.0%	X						RU9819 or equiv.
Formaldehyde 2.5%	X						RU9819 or equiv.
Formaldehyde 1.5%	X						RU9819 or equiv.
Full Strength	X						RU9819 or equiv.
Peracetic Acid 21%			X				RU9819 or equiv.
Peracetic Acid 33%		X		X			RU9819 or equiv.
Puristeril 340					X		RU9819 or equiv.
No Disinfectant (H <sub>2</sub> O)						X	RU9A06 or equiv.
No Disinfectant (Citric Acid)						X	RU9909 or equiv.
<b>D I S I N F E C T A N T</b>							

**Table 1 Disinfectant VS Cleaning Agent Compatibility**

CONVERTING FROM:									
Disinfectant & Cleaning Agent Combinations	Formaldehyde (4.0%) & Bleach	Formaldehyde (2.5%) & Bleach	Formaldehyde (1.5%) & Bleach	Formaldehyde (33%) & Hydrogen Peroxide	21% Peracetic Acid & Peracetic Acid	33% Peracetic Acid & Peracetic Acid	Puristeryl 340 & Puristeryl 340	No Disinfectant (H <sub>2</sub> O Fill) & Water	No Disinfectant (Citric Acid Fill) & Water
Formaldehyde (4.0%) & Bleach	Software Configuration Only	130336 (FS2) & Software Configuration	130661 & 130336 (FS2)	130662 & 130336 (FS2)	130662, 130336 (FS2) & 130318 (Fres P1 Pump)	130662 & 130336 (FS2)	130662, 130336 (FS2) & 130318 (Fres P1 Pump)	Factory Refurb Required	Factory Refurb Required
Formaldehyde (2.5%) & Bleach	Software Configuration Only	130336 (FS2) & Software Configuration	130661 & 130336 (FS2)	130662 & 130336 (FS2)	130662, 130336 (FS2) & 130318 (Fres P1 Pump)	130662 & 130336 (FS2)	130662, 130336 (FS2) & 130318 (Fres P1 Pump)	Factory Refurb Required	Factory Refurb Required
Formaldehyde (1.5%) & Bleach	130223 (FS2) & Software Configuration	130223 (FS2) & Software Configuration	130661 & 130223 (FS2)	130662 & 130223 (FS2)	130662, 130223 (FS2) & 130318 (Fres P1 Pump)	130662 & 130223 (FS2)	130662, 130223 (FS2) & 130318 (Fres P1 Pump)	Factory Refurb Required	Factory Refurb Required
Full Strength & Bleach	130519	130519	Obsolete – No Kit Available	130662 & 130519	130662, 130519 & 130318 (Fres P1 Pump)	130662 & 130519	130662, 130519 & 130318 (Fres P1 Pump)	Factory Refurb Required	Factory Refurb Required
Peracetic Acid (33%) & Hydrogen Peroxide	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available
21% Peracetic Acid & Peracetic Acid	130687	130687	130661 & 130687	130687	130687	130687	No Kit Available – Contact Tech Support	Factory Refurb Required	Factory Refurb Required
33% Peracetic Acid & Peracetic Acid	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available
Puristeryl 340 & Puristeryl 340	130687 & 130706	130687 & 130706	130705	130687 & 130706	130706	130687 & 130706		Factory Refurb Required	Factory Refurb Required
No Disinfectant (H <sub>2</sub> O Fill) & Water	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available	Obsolete – No Kit Available
No Disinfectant (Citric Acid Fill) & Water	130660 & Specific Software	130660 & 130336 (FS2) & Specific Software	130661, 130660, 130336 (FS2) & Specific Software	130662, 130660, 130336 (FS2) & Specific Software	130662, 130660, 130336 (FS2) & Specific Software	130662, 130660, 130336 (FS2) & Specific Software	130662, 130660, 130336 (FS2) & Specific Software	No Kit – Software Configuration Only	

**CONVERTING TO**

- 130519 Formaldehyde to Full Strength
- 130535 Hydrogen Peroxide Conversion as a Cleaning Agent
- 130660 Conversion to No Disinfectant (Includes Kit P/N 130663)
- 130661 Full Strength to Formaldehyde Conversion
- 130662 33% Peracetic Acid/Hydrogen Peroxide to Formaldehyde/Bleach
- 130663 Conversion to H<sub>2</sub>O as Cleaning Agent (Includes Kit P/N 130535)
- 130687 Conversion to 21% Peracetic Acid (Includes Kit P/N 130535)
- 130705 Full Strength to Puristeryl 340 (Includes Kit P/N 130535)
- 130706 21% Peracetic Acid to Puristeryl 340

**Table 2 Conversion Kit Requirement**

<b>CONVERSION KIT PART NUMBER</b>	<b>KIT DESCRIPTION</b>	<b>KIT INSTALLATION INSTRUCTIONS</b>
130519	- Formaldehyde to Full Strength Disinfectant Conversion.	430069
130535	- Hydrogen Peroxide as Cleaning Agent Conversion	430089
130660	- Conversion to No Disinfectant (Includes Kit P/N 130663)	430087
130661	- Full Strength to Formaldehyde Conversion	430083
130662	- 33% Peracetic Acid/Hydrogen Peroxide to Formaldehyde/Bleach Conversion	430086
130663	- Conversion to H <sub>2</sub> O as Cleaning Agent (Includes Kit P/N 130535)	430088
130687	- Conversion to 21% Peracetic Acid Agent (Includes Kit P/N 130535)	430096
130705	- Full Strength to Puristeril 340 Conversion Agent (Includes Kit P/N 130535)	507202
130706	- 21% Peracetic Acid to Puristeril 340 Conversion	507213

**Table 3 Conversion Kit & Installation Instruction Part Numbers**

If there are any questions regarding this bulletin, contact Fresenius Technical Support at 800-227-2572.