

# ISO 15883-1:2006-04 (E)

## Washer-disinfectors - Part 1: General requirements, terms and definitions and tests

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Performance requirements .....</b>	<b>8</b>
4.1	General .....	8
4.2	Cleaning .....	10
4.3	Disinfection .....	10
4.4	Rinsing .....	11
4.5	Drying .....	11
4.6	Process chemicals .....	12
<b>5</b>	<b>Mechanical and process requirements .....</b>	<b>12</b>
5.1	Materials, design and manufacture/construction .....	12
5.2	Safety .....	14
5.3	Calorifiers and tanks .....	14
5.4	Loading and unloading doors and their controls .....	15
5.5	Pipework and fittings .....	17
5.6	Spray systems .....	17
5.7	Dosing systems .....	18
5.8	Load temperature protection .....	18
5.9	Process temperature control limits .....	19
5.10	Switches, gauges and indicating devices .....	20
5.11	Process verification .....	20
5.12	Instrumentation and controls .....	21
5.13	Temperature indicating systems .....	22
5.14	Pressure indicating systems .....	23
5.15	Timing equipment .....	23
5.16	Operating cycle indicating equipment .....	23
5.17	Recording instruments (if fitted) .....	23
5.18	Control systems .....	25
5.19	Override of automatic control .....	26
5.20	Microprocessor control systems .....	27
5.21	Access to software .....	27
5.22	Fault indication systems .....	27
5.23	Water supply .....	28
5.24	Venting and drainage systems .....	28
5.25	Drainage .....	29
5.26	Air filters installed within the WD .....	29
5.27	Load handling and supports for use within the WD .....	29
5.28	Trolleys .....	30
5.29	Environment .....	31
<b>6</b>	<b>Testing for conformity .....</b>	<b>31</b>
6.1	General .....	31
6.2	Test equipment .....	34

6.3	Tests on doors, interlocks and fault indications .....	35
6.4	Tests on water quality and water volume .....	37
6.5	Tests on pipework .....	39
6.6	Tests on instrumentation fitted to the WD .....	41
6.7	Tests on load carriers .....	42
6.8	Thermometric tests .....	43
6.9	Chemical dosing tests .....	46
6.10	Tests of cleaning efficacy .....	47
6.11	Tests of air quality .....	48
6.12	Load dryness test .....	49
6.13	Automatic control test .....	49
7	Documentation .....	50
8	Information to be supplied by the manufacturer .....	50
8.1	General .....	50
8.2	Before delivery of the WD and for installation .....	51
8.3	At delivery of the WD .....	51
9	Marking, labelling and packaging .....	53
9.1	Marking and labelling .....	53
9.2	Packaging .....	53
10	Information to be requested from the purchaser by the supplier of the WD .....	53
	Annex A (informative) Test programme .....	55
	Annex B (informative) A0 concept -- Comparative lethality of moist heat processes .....	59
	Annex C (normative) Test methods for the detection and assessment of residual proteinaceous contamination .....	63
	Annex D (normative) Microbiological recovery medium for estimation of bacterial contamination of water .....	68
	Bibliography .....	69