

# ISO 5714:2023-08 (E)

## Clean cookstoves and clean cooking solutions - Test protocols for institutional cookstoves

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<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>1</b>
<b>4</b>	<b>Abbreviated terms .....</b>	<b>4</b>
<b>5</b>	<b>Emissions and energy performance of institutional cookstoves tested in the laboratory ....</b>	<b>4</b>
5.1	General .....	4
5.2	ISO 19867-1:2018, Clauses 5 and 6, laboratory test methods with exceptions for institutional cookstoves .....	5
5.2.1	Volume of water .....	5
5.2.2	Cooking vessel lids .....	6
5.2.3	Platform scale method .....	6
5.2.4	Pre-evaporation method .....	6
5.2.5	Char remaining after a test phase .....	7
5.2.6	Test phase duration(s) and power level(s) .....	7
5.2.7	Institutional cookstove testing protocol .....	7
5.3	ISO 19869:2019, 7.6, controlled cooking test with exceptions for institutional cookstoves ..	8
5.4	Emissions testing for institutional cookstoves with multiple chimneys .....	8
<b>6</b>	<b>Emissions and energy performance of institutional cookstoves tested in place (in situ) ....</b>	<b>9</b>
6.1	General .....	9
6.2	Water-heating test (in situ), ISO 19867-1:2018, Clauses 5 and 6, with exceptions for institutional cookstoves .....	9
6.3	Controlled cooking tests (in situ), ISO 19869:2019, 7.6, with exceptions for institutional cookstoves .....	9
6.3.1	General .....	9
6.3.2	Controlled cooking tests with a water boiling cooking task .....	9
6.3.3	Controlled cooking tests without a water boiling cooking task .....	9
6.4	Uncontrolled cooking tests (in situ), ISO 19869:2019, 5.3.3, with exceptions for institutional cookstoves .....	10
6.5	Emissions testing for institutional cookstoves with multiple chimneys .....	10
<b>7</b>	<b>Safety testing .....</b>	<b>10</b>
7.1	General .....	10
7.2	Chimney shielding and insulation test .....	11
7.3	Safety scoring system .....	11
<b>8</b>	<b>Durability testing .....</b>	<b>12</b>
8.1	General .....	12
8.2	Specific equipment requirements for durability stress testing of institutional cookstoves	12
8.3	Extended run test .....	12
8.4	External and internal impact testing .....	12
<b>9</b>	<b>Reporting .....</b>	<b>13</b>

9.1	General .....	13
9.2	of the test report .....	13
	Bibliography .....	17