

# DIN EN 498:2012-04 (E)

## Specification for dedicated liquefied petroleum gas appliances - Barbecues for outdoor use contact grills included

---

<b>Contents</b>		<b>Page</b>
Foreword .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	7
4	Classification .....	12
4.1	Classification of gases used .....	12
4.2	Classification of appliances .....	12
5	Constructional characteristics .....	13
5.1	Conversion to different gases .....	13
5.2	Materials .....	13
5.3	Ease of cleaning .....	14
5.4	Strength .....	14
5.4.1	General .....	14
5.4.2	Characteristics of glass panels .....	14
5.5	Assembly .....	14
5.6	Stability .....	15
5.6.1	Stability of the appliance on a horizontal plane .....	15
5.6.2	Stability of the appliance placed on a slope .....	15
5.7	Soundness of the gas circuit assembly .....	15
5.8	Connections .....	16
5.9	Locking of wheels and castors .....	16
5.10	Taps .....	16
5.10.1	General .....	16
5.10.2	Taps with marked positions .....	17
5.10.3	Taps with variable positions .....	17
5.11	Control handles .....	17
5.11.1	Construction .....	17
5.11.2	Marking .....	17
5.12	Injectors .....	18
5.13	Ignition devices .....	18
5.14	Flame supervision devices .....	19
5.15	Burners .....	19
5.16	Grid .....	20
5.17	Turnspits .....	20
5.18	Appliance incorporating a gas cylinder .....	20
5.19	Durability of markings .....	21
5.20	Auxiliary energy .....	21
6	Performance characteristics .....	21
6.1	Soundness .....	21
6.2	Verification of heat inputs .....	21
6.2.1	Verification of individual nominal heat inputs .....	21
6.2.2	Verification of full heat input .....	22
6.3	Flame supervision devices .....	22
6.4	Safety of operation .....	22
6.4.1	Ignition, crosslighting .....	22

6.4.2	Flame stability .....	22
6.4.3	Resistance to draught .....	22
6.4.4	Resistance to overheating .....	22
6.5	Temperatures .....	22
6.6	Overheating of the gas cylinder(s) .....	23
6.7	Combustion .....	24
6.8	Sooting .....	24
7	Test methods .....	24
7.1	General .....	24
7.1.1	Test gases .....	24
7.1.2	Test pressures .....	25
7.1.3	Test procedures .....	26
7.2	Verification of the constructional characteristics .....	26
7.2.1	Conversion to different gases .....	26
7.2.2	Materials .....	26
7.2.3	Ease of cleaning .....	26
7.2.4	Strength .....	27
7.2.5	Assembly .....	27
7.2.6	Stability of the appliance .....	27
7.2.7	Soundness of the gas circuit assembly .....	28
7.2.8	Connections .....	28
7.2.9	Locking of wheels and castors .....	28
7.2.10	Taps .....	28
7.2.11	Control handles .....	28
7.2.12	Injectors .....	28
7.2.13	Ignition devices .....	28
7.2.14	Flame supervision devices .....	28
7.2.15	Burners .....	28
7.2.16	Grid .....	28
7.2.17	Turnspit .....	29
7.2.18	Appliances incorporating a gas cylinder(s) .....	29
7.2.19	Durability of markings .....	29
7.2.20	Auxiliary energy .....	29
7.3	Verification of the performance characteristics .....	29
7.3.1	Soundness .....	29
7.3.2	Verification of the nominal heat input .....	29
7.3.3	Flame supervision device .....	29
7.3.4	Safety of operation .....	30
7.3.5	Temperatures .....	32
7.3.6	Overheating of the gas cylinder .....	32
7.3.7	Combustion .....	33
7.3.8	Sooting .....	34
7.3.9	Durability of the marking .....	34
8	Marking .....	34
8.1	Appliance marking .....	34
8.2	Packaging marking .....	35
8.3	Instructions for assembly, use and maintenance .....	35
Annex A (normative) National situations .....		42
A.1	General .....	42
A.2	Categories marketed in the various countries and corresponding pressures .....	42
A.3	Types of connection used in various countries .....	44
A.4	Connection of appliances .....	46
Annex B (normative) Method of calculation of the nominal heat input .....		48
B.1	Heat input determination .....	48
B.2	Correction formulas for reference conditions .....	48
B.3	Use of wet gas meter .....	49

<b>B.4</b>	<b>Pressure correction .....</b>	<b>49</b>
<b>Annex C (normative) Composition of test gases .....</b>		<b>51</b>
<b>C.1</b>	<b>Gas used .....</b>	<b>51</b>
<b>C.2</b>	<b>Acceptance criteria for test gases .....</b>	<b>51</b>
<b>C.3</b>	<b>Purity .....</b>	<b>51</b>
<b>Annex D (informative) Mandatory sentences .....</b>		<b>52</b>
<b>D.1</b>	<b>English .....</b>	<b>52</b>
<b>D.2</b>	<b>French .....</b>	<b>52</b>
<b>D.3</b>	<b>German .....</b>	<b>52</b>
<b>D.4</b>	<b>Italian .....</b>	<b>53</b>
<b>D.5</b>	<b>Polish .....</b>	<b>53</b>
<b>D.6</b>	<b>Spanish .....</b>	<b>53</b>
<b>D.7</b>	<b>Dutch .....</b>	<b>54</b>
<b>D.8</b>	<b>Czech .....</b>	<b>54</b>
<b>D.9</b>	<b>Greek .....</b>	<b>54</b>
<b>D.10</b>	<b>Hungarian .....</b>	<b>55</b>
<b>D.11</b>	<b>Portuguese .....</b>	<b>55</b>
<b>D.12</b>	<b>Swedish .....</b>	<b>55</b>
<b>D.13</b>	<b>Danish .....</b>	<b>56</b>
<b>D.14</b>	<b>Finnish .....</b>	<b>56</b>
<b>D.15</b>	<b>Lithuanian .....</b>	<b>56</b>
<b>D.16</b>	<b>Norwegian .....</b>	<b>57</b>
<b>D.17</b>	<b>Slovak .....</b>	<b>57</b>
<b>D.18</b>	<b>Estonian .....</b>	<b>57</b>
<b>D.19</b>	<b>Latvian .....</b>	<b>58</b>
<b>D.20</b>	<b>Slovenian .....</b>	<b>58</b>
<b>D.21</b>	<b>Icelandic .....</b>	<b>58</b>
<b>D.22</b>	<b>Maltese .....</b>	<b>59</b>
<b>D.23</b>	<b>Romanian .....</b>	<b>59</b>
<b>Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives .....</b>		<b>60</b>
<b>Bibliography .....</b>		<b>63</b>