

of **GASTEC Certification B.V.**  
**Laboratory Appliances and Flue Systems**  
**APELDOORN**

Valid from: **08-05-2008** to **30-09-2010**

Replaces annex d.d.: **20-09-2006**

Nr.	Material or product	Parameter / Analytical method	Internal reference number
<b>Product Group Appliances</b>			
1	Gas-fired central heating boilers. Type B11 and B11BS boilers, fitted with atmospheric burners of nominal heat input not exceeding 70 kW	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	297T conforming to EN 297*, Staatsblad 344:1995
2	Gas-fired central heating boilers. Type C boilers of nominal heat input not exceeding 70 kW	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	483T conforming to EN 483*, Staatsblad 344:1995
3	Gas-fired central heating boilers. Specific requirements for condensing boilers with a nominal heat input not exceeding 70 kW	Efficiency tests Functional tests Temperature tests Energy quantity tests	677T conforming to EN 677, Staatsblad 344:1995
4	Gas-fired hot water boilers with atmospheric burners. Type B boilers of nominal heat input exceeding 70 kW but not exceeding 300 kW	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	656T conforming to EN 656*, Staatsblad 344:1995

\* Including all amendments and corrigenda

This annex is approved by:

Ir. J.C. van der Poel  
Chief Executive

of **GASTEC Certification B.V.**  
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5	Heating boilers with forced draught burners (-1), Gas-fired central heating boilers: assembly comprising a boiler body and a forced draught burner (-3), Boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar (-4)	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	303-1T, 303-3T, 303-4T conforming to EN 303-1*, EN 303-3*, EN 303-4, Staatsblad 344:1995
6	Gas-fired Instantaneous water Heaters for sanitary uses, fitted with atmospheric burners	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	26T conforming to EN 26*, Staatsblad 344:1995
7	Gas- fired storage water heaters for sanitary uses. Gas-burning storage water heaters for sanitary uses with atmospheric burner and sealed combustion circuit with a fan incorporated in the "combustion air" or "combustion products" circuit Storage water heaters equipped with an electrically operated mechanical flue damper	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	89T conforming to EN 89*, Staatsblad 344:1995
8	Domestic hot water operation or combination boilers of nominal heat input not exceeding 70 kW	Efficiency tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	625T conforming to EN 625, Staatsblad 344:1995
9	Domestic cooking appliances burning gas. Appliances having forced-convection ovens and/or grills Domestic cooking appliances using combustible gases	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	30T conforming to EN 30-1-1, EN 30-1-2, EN 30-2, EN 30-2-1, EN 30-2-2

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Nr.	Material or product	Parameter / Analytical method	Internal reference number
10	Gas heated catering equipment	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	203-1T, 203-2T, 203-3T conforming to EN 203-1*, EN 203-2, prEN 203-3
11	Non- domestic gas-fired overhead luminous radiant heaters	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	419T conforming to EN 419-1*
12	Dedicated liquefied petroleum gas appliances-domestic flueless space heaters. (including diffusive catalytic combustion heaters) Rubbers seals and diaphragms used in non-industrial LPG appliances and their associated controls Hoses for use with LPG in vapour phase	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	449T conforming to EN 449*
13	Dedicated liquefied petroleum gas appliances Small non-domestic space heaters	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	461T conforming to EN 461
14	Dedicated liquefied petroleum gas appliances Independent hotplates, including those incorporating a grill for outdoor use	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	484T conforming to EN 484

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**Laboratory Appliances and Flue Systems**  
**APELDOORN**

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Replaces annex d.d.:**20-09-2006**

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15	Dedicated liquefied petroleum gas appliances Multi purpose boiling burners for outdoor use	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	497T conforming to EN 497
16	Dedicated liquefied petroleum gas appliances – Barbecues for outdoor use	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	498T conforming to EN 498
17	Non-domestic high efficiency deep frying appliances	Efficiency tests Temperature tests Energy quantity tests Pressure tests	174T own method GASTEC QA Criteria 174
18	Non-domestic low emission deep frying appliances	Combustion tests Temperature tests Energy quantity tests Pressure tests	175T own method GASTEC QA Criteria 175
19	Decorative fuel-effect gas appliances	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	509T conforming to EN 509, Staatsblad 344:1995
20	Independent gas-fired convection heaters	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	613T conforming to EN 613, Staatsblad 344:1995

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**Laboratory Appliances and Flue Systems**  
**APELDOORN**

Valid from: **08-05-2008** to **30-09-2010**

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21	Non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW. without a fan to assist transportation of combustion air and/or combustion products	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	621T conforming to EN 621*, Staatsblad 344:1995
22	Domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW. without a fan to assist transportation of combustion air and/or combustion products	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	778T conforming to EN 778, Staatsblad 344:1995
23	Non domestic gas-fired convection air heaters for space heating incorporating a fan to assist transportation of combustion air and/or combustion products	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	1020T conforming to EN 1020, Staatsblad 344:1995
24	Gas-fired condensing air heaters for domestic and non domestic use	Efficiency tests Functional tests Temperature tests Energy quantity tests Pressure tests	1196T conforming to EN 1196, Staatsblad 344:1995
25	Domestic gas-fired forced convection air heaters with fan-assisted atmospheric burners for space heating	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	1319T conforming to EN 1319, Staatsblad 344:1995
26	Dedicated liquefied petroleum gas appliances. Mobile and Portable non domestic forced draught direct fired air heaters	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	1596T conforming to EN 1596

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**Laboratory Appliances and Flue Systems**  
**APELDOORN**

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27	Single burner gas-fired overhead radiant-tube heaters	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	416T conforming to EN 416-1, Staatsblad 344:1995
28	Automatic forced draught burners for gaseous fuels	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	676T conforming to EN 676*, Staatsblad 344:1995
29	Domestic direct gas-fired tumble dryers of nominal heat input not exceeding 6 kW	Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	1458T conforming to EN 1458-1
30	Hot-water boilers fired with liquid or gaseous fuels	Efficiency tests Temperature tests Energy quantity tests Pressure tests	9042T conforming to 90/42/EEC
31	Gas-fired central heating appliances: Appliances with a nominal heat input not exceeding 600 kW (H <sub>i</sub> )	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	CV-1-2002T own method CV:2002
32	Gas-fired high efficiency central heating appliances: Appliances with a nominal heat input not exceeding 900 kW (H <sub>i</sub> )	Efficiency tests Functional tests Temperature tests Energy quantity tests	CV-HR-1T own method CV-HR-1
33	Gas-fired central heating boilers with a clean combustion: Appliances with a nominal heat input not exceeding 900 kW (H <sub>i</sub> )	Combustion tests Temperature tests Energy quantity tests	CV-SVT own method CV-SV:2001

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**Laboratory Appliances and Flue Systems**  
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34	Gas-fired tap water heaters with additional efficiency and comfort aspects: Appliances with a nominal heat input not exceeding 70 kW (H <sub>i</sub> )	Efficiency tests Functional tests Temperature tests Energy quantity tests Pressure tests	CWHRwwT own method CW-HRww
35	Gas-fired tap water heaters suitable for use as secondary heater in a solar water heating system : Appliances with a nominal heat input not exceeding 70 kW (H <sub>i</sub> )	Efficiency tests Functional tests Temperature tests Energy quantity tests Pressure tests	NZ-1T own method NZ-1
36	Gas-fired tap water heaters: Appliances with a nominal heat input not exceeding 45 kW (H <sub>i</sub> )	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	WD-1T own method WD-1
37	Gas-fired tap water boilers: Appliances with a nominal heat input not exceeding 115 kW (H <sub>i</sub> )	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	WV-1T own method WV-1
38	Gas-fired air heaters for domestic use: Appliances with a nominal heat input not exceeding 70 kW (H <sub>i</sub> )	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	LV-1T own method LV-1
39	Gas-fired high efficiency air heaters for domestic use: Appliances with a nominal heat input not exceeding 70 kW (H <sub>i</sub> )	Efficiency tests Functional tests Temperature tests Energy quantity tests Pressure tests	LV-HR-1T own method LV-HR-1
40	Gas-fired air heaters for domestic use with a clean combustion: Appliances with a nominal heat input not exceeding 70 kW (H <sub>i</sub> )	Combustion tests Functional tests Temperature tests Energy quantity tests Pressure tests	LV-SV-1T own method LV-SV-1

of **GASTEC Certification B.V.**  
**Laboratory Appliances and Flue Systems**  
**APELDOORN**

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41	Portable vapour pressure liquefied petroleum gas appliances	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	521T conforming to EN 521
42	Dedicated liquefied petroleum gas appliances: Absorption refrigerators	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests	732T conforming to EN 732
43	High temperature radiation appliances with low NO <sub>x</sub> & CO emission.	Combustion tests Temperature tests Energy quantity tests Pressure tests	149T own method GASTEC QA criteria 149
44	Gas-fired forced draught burners with low NO <sub>x</sub> & CO emission.	Combustion tests Temperature tests Energy quantity tests Pressure tests	153T own method GASTEC QA criteria 153
45	Gas fired central heating boilers: type B boilers of nominal heat input exceeding 300 kW, but not exceeding 1000 kW	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests (testing limited to 700 kW nominal heat input)	13836T conforming to EN 13836
46	Gas fired central heating boilers; condensing boilers with a nominal heat input greater than 70 kW but not exceeding 1000 kW	Efficiency tests Functional tests Temperature tests Energy quantity tests (testing limited to 700 kW nominal heat input)	15417T conforming to EN 15417
47	Gas-fired domestic appliances producing hot water: appliances not exceeding 70 kW heat input and 300 l water storage capacity	Functional tests Temperature tests Energy quantity tests Pressure tests	13203-1T, 13203-2T conforming to EN 13202-1, EN 13202-2
48	Thermal solar systems and components - Solar collectors	Thermal performance characterisation for liquid heating solar collectors under quasi-dynamic conditions (QDT)	12975-2AT conforming to EN 12975-2

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**APELDOORN**

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49	Thermal solar systems and components - Solar collectors	Durability, reliability and safety testing of liquid heating solar collectors	12975-2BT conforming to EN 12975-2
50	Factory made solar domestic hot water systems	Thermal performance characterisation for domestic hot water systems under outdoor conditions (DST)	12976-2AT conforming to EN 12976-2
51	Factory made solar domestic hot water systems	Durability, reliability and safety testing of domestic hot water systems	12976-2BT conforming to EN 12976-2
52	Gas-fired central heating boilers: type C boilers of nominal heat input exceeding 70 kW, but not exceeding 1000 kW	Efficiency tests Combustion tests Leakage tests Functional tests Temperature tests Energy quantity tests Pressure tests (testing limited to 700 kW nominal heat input)	15420T conforming to prEN 15420
53	Gas fired absorption and adsorption air conditioning and/or heat pump appliances with a net heat input not exceeding 70 kW	Combustion tests Leakage tests Functional tests Temperature Tests Energy quantity tests Pressure tests	12309-1T Conforming to EN 12309-1
<b>Product Group Flue Systems</b>			
54	Combustion products evacuation duct for non gas fired appliances serving one appliance	Gas tightness measurements Pressure measurements Thermal performance tests Aerodynamic tests Functional tests	5101T conforming to GASTEC BRL 5101
55	Combustion products evacuation duct for gas fired appliances serving one appliance	Gas tightness measurements Pressure measurements Thermal performance tests Aerodynamic tests Functional tests	5102T conforming to GASTEC BRL 5102
56	Concentric metal combined air supply and combustion products evacuation duct systems serving more than one appliance	Gas tightness measurements Pressure measurements Thermal performance tests Aerodynamic tests Functional tests	5103T conforming to GASTEC BRL 5103

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57	Single wall aluminium combustion products evacuation ducts and support parts	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Functional tests	7203T conforming to NEN 7203
58	Gas installations, double wall combustion products systems	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Functional tests	7207T conforming to NEN 7207
59	Combustion products terminals	Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	19T own method GASTEC QA criteria 19
60	Vertical terminals for fan assisted room sealed appliances (83/1). Horizontal terminals for fan assisted room sealed appliances (83/2). Aluminium non thin wall, aluminium thin wall and stainless steel airtight combustion products evacuation ducts and support parts (83/3; 83/4; 83/5)	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	83T own method GASTEC QA criteria 83/1, GASTEC QA criteria 83/2, GASTEC QA criteria 83/3, GASTEC QA criteria 83/4, GASTEC QA criteria 83/5
61	Air supply ducts and support parts for room sealed appliances	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	100T own method GASTEC QA criteria 100
62	Combined air supply and combustion products evacuation duct systems serving more than one appliance	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	138T own method GASTEC QA criteria 138

of **GASTEC Certification B.V.**  
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63	PVDF-combustion products evacuation systems for condensing appliances	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	141T own method GASTEC QA criteria 141
64	Concentric ducts 80-125 mm (air supply and combustion products evacuation)	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	161T own method GASTEC QA criteria 161
65	Combined combustion products evacuation systems for fan assisted room sealed appliances	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	163T own method GASTEC QA criteria 163-1, GASTEC QA criteria 163-2
66	Stainless steel flexible ducts and duct systems	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	166T own method GASTEC QA criteria 166
67	Multi-purpose roof transits situated in all-purpose outlet areas and in free outlet areas	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	170T own method GASTEC QA criteria 170
68	Metal chimneys	Gas tightness measurements Pressure measurements Mechanical resistance and stability tests Thermal performance tests Aerodynamic tests Functional tests	1859T conforming to EN 1859-2000

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<b>Emission and environmental measurements in the framework of the Dutch Emission Guidelines (NeR), Resolution regarding emission demands for burner installations (BEES A/B) and NO<sub>x</sub>/CO<sub>2</sub> emission trading</b> (Emissie- en milieumetingen in het kader van de Nederlandse emissierichtlijnen (NeR), Besluit emissie-eisen stookinstallaties (BEES A/B) en de NO <sub>x</sub> /CO <sub>2</sub> emissiehandel)			
69	Emitted combustion and process gases.	Determination of NO <sub>x</sub> , O <sub>2</sub> , CO <sub>2</sub> & CO content by means of chemo-luminescence, paramagnetism and infrared methods, including the determination / calculation of the flow rate on behalf of the determination of the emission load; Mobile laboratory	NO <sub>x</sub> : conforming to NEN-EN 14792 O <sub>2</sub> , CO, CO <sub>2</sub> : conforming to NEN-EN 14789