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ULC/ORD-C795:2021

Commercial-Industrial Gas-Fired Package Boilers

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Contents

FOREWORD **10**

PREFACE **12**

INTRODUCTION 11

1 Scope 11

2 Glossary 11

3 Units of Measurement 16

4 Reference Publications 16

4.1 Undated References 16
4.2 Referenced Publications 17

5 Components 19

CONSTRUCTION – MECHANICAL 6 General 19

7 Corrosion Protection 20

8 General Components and Devices 20

CONSTRUCTION – ELECTRICAL 21

9 General 21

10 Servicing and Adjustment 21

11 Electrical Enclosures 22

12 Field Wiring Connections 30

13 Internal Wiring 33

14 Separation of Circuits 36

15 Mounting of Components 37

16 Motors and Motor Overcurrent or Overload Protection 38

17 Overcurrent Protection of Low-Voltage Control-Circuit Conductors 41
17.1 General 41
17.2 Tapped low-voltage control circuits 42
17.3 Overcurrent-protective devices 43

18 Overcurrent Protection of Transformers 44
18.1 Low-voltage transformers 44
18.2 Thermal protection 44
18.3 Extra-low-voltage transformers 45

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18.4 Overcurrent protective devices ... 45

19 Switches and Controllers ... 46

20 Capacitors ... 47

21 Electrical Insulating Material ... 47

22 Spacings – Low-Voltage Circuits ... 48

23 Spacings – Extra-Low-Voltage Circuits ... 49

24 Accessibility of Uninsulated Live Parts ... 49

25 Bonding for Grounding ... 51

CONSTRUCTION – BURNER ASSEMBLIES ... 54

26 General ... 54

27 Combination Gas-Oil Burner Assemblies ... 55

CONSTRUCTION – BOILER ASSEMBLIES ... 55

28 General ... 55

29 Accessibility ... 56

30 Baffles ... 56

31 Limit Controls ... 57
31.1 General ... 57
31.2 Liquid level limit (protective) controls ... 57
31.3 Pressure limit (protective) controls ... 58
31.4 Temperature limit (protective) controls ... 59

32 Installation of External Controls and Fittings ... 60

33 Flue Dampers, Draft Regulators, and Draft Hoods ... 61

34 Bleeds and Vents ... 62

35 (Reserved for future use in development of a standard) ... 62

36 Heating Surfaces and Combustion Chambers ... 63

37 Radiation Shields ... 63

38 (Reserved for future use in development of a standard) ... 63

39 (Reserved for future use in development of a standard) ... 63

40 (Reserved for future use in development of a standard) ... 63

41 Flue Collars ... 63

42 Air Filters ... 63

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PERFORMANCE ... 63

43 General 63

44 Test Installations 64
44.1 Floor-mounted boiler assemblies 64

45 Test Methods 65
45.1 Firing conditions 65
45.2 Temperature measurements 65

46 Burner Assembly Tests 67
46.1 Combustion test 67
46.2 Combustion air failure test 69
46.3 Undervoltage test 70
46.4 Power interruption test 70
46.5 Pilot supervision test 72
46.6 Ignition, gas-electric high tension test 72
46.7 Ignition, gas-electric hot-wire – Undervoltage test 73
46.8 Ignition, gas-electric hot-wire – Igniter endurance test 73
46.10 Ignition, multiple burner test 74
46.11 Delayed ignition test 74

47 Operation Tests 75
47.1 Boiler assembly limit control cutout test 75

48 Temperature Tests 75
48.1 General 75
48.2 Continuous operation test 79

49 Low Water Cutoff of Boilers Test 79

50 Short-Circuit Test 80

51 Overload Test, Low-Voltage Transformers 82

52 Burnout Test, Low-Voltage Transformers 82

53 Dielectric Voltage-Withstand Test 83

54 Draft Hood Equipped Boiler Assemblies 84
54.1 Blocked outlet test 84
54.2 Downdrafts and updrafts test 84
54.3 Spillage test 86
54.4 Condensing-type boiler assemblies 87

55 Blocked Outlet of Forced or Induced Draft Equipped Condensing Appliances Test 87

56 Direct Vent Tests 88
56.1 Direct vent system leakage test 88
56.2 Direct vent wind tests 89
56.3 Direct vent rain test 90
56.4 Direct vent load test 90
56.5 Direct vent impact test 91

57 (Reserved for future use in development of a standard) 93

58 Strain Relief Test 93

OUTDOOR-USE EQUIPMENT 93

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59 General 93

60 Enclosures 93

61 Field Wiring Connections 95

62 Wiring 95

63 Outdoor-Use Equipment Tests 96
63.1 General 96
63.2 Rain test 96
63.3 Wind test 99

64 Gaskets 100

65 (Reserved for future use in development of a standard) 101

MANUFACTURING AND PRODUCTION INSPECTION AND TESTS 101

66 General 101

MARKINGS 102

67 General 102

INSTRUCTIONS 105

68 General 105

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FOREWORD

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PREFACE

This is the First Edition of the Other Recognized Document ULC/ORD-C795, Commercial-Industrial Gas-Fired Package Boilers.

Only metric SI units of measurement are used in this ORD. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

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This ORD is intended to be used for conformity assessment.

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INTRODUCTION

1 Scope

1.1 These requirements apply to factory-built gas-fired package boilers having input ratings of more than 117,228 W (400,000 Btu/h), per individual combustion chamber, and intended primarily for commercial and industrial installation.

1.2 These requirements also apply to all high pressure steam and high temperature water gas-fired boiler assemblies regardless of kW (Btu/h) input.

1.3 Package boilers covered by these requirements are designed to be automatically operated without a competent attendant being constantly on duty at the burners while the appliances are in operation.

1.4 Additional installation and operation requirements are available for commercial-industrial gas-fired package boilers as defined by the Natural gas and propane installation code, CSA B149.1, and the Code for the field approval of fuel-related components on appliances and equipment, CSA B149.3, as applicable.

2 Glossary

2.1 For the purposes of this Standard the following definitions apply.

2.2 AIR SHUTTER – An adjustable device for varying the size of the air inlet or inlets regulating primary or secondary air.

2.3 APPLIANCE FLUE – The flue passages within an appliance.

2.4 ALUMINUM COATED STEEL – An aluminum coated steel in which the bond between the steel and the aluminum is an iron-aluminum alloy.

2.5 BAFFLE – An object placed in an appliance to direct the flow of air or flue gases.

2.6 BAROMETRIC DRAFT REGULATOR – A device which functions to maintain a desired draft by automatically reducing the chimney draft to the desired value.

2.7 BASE – The main supporting frame or structure of the assembly, exclusive of legs.

2.8 BOILER – A closed vessel in which water or some other liquid is heated or steam is generated or superheated, under pressure or vacuum, by direct application of heat.

2.8.1 HIGH PRESSURE STEAM BOILER – A boiler in which steam is generated at a pressure higher than 103 kPa (15 psig);

2.8.2 HIGH TEMPERATURE WATER BOILER – A boiler intended for operation at a pressure exceeding 1103 kPa (160 psig) and at a temperature exceeding or at a temperature exceeding 121 °C (250 °F);

2.8.3 HOT WATER BOILER – A boiler that furnishes hot water at a pressure not exceeding 1103 kPa (160 psig) and at a temperature not exceeding 121 °C (250 °F);

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