

ISO 22968:2010-11 (E)

Forced draught oil burners

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
3.1	General	2
3.2	Fuel mass flow rate and performance	3
3.3	Test rig and combustion chamber	4
3.4	Composition of the gaseous combustion products	5
3.5	Adjustment, control and safety devices	6
3.6	Sequencing times	7
3.7	Diagrams	9
4	Classification of oil burners	9
4.1	General	9
4.2	Types of atomization	9
4.3	Automatic oil burner control methods	9
4.4	Means of ignition	10
5	Constructional and operational requirement	10
5.1	Construction and operation	10
5.2	Safety devices	20
5.3	Spurious light signals	22
5.4	Combustion	22
5.5	Combustion product quality	23
5.6	Combustion quality of the combustion products for other liquid fuels	24
5.7	Excess air ratio	24
5.8	Operational requirements	24
6	Test methods	26
6.1	General	26
6.2	Ambient test conditions	26
6.3	Combustion test chamber	26
6.4	Measuring equipment	34
6.5	Measuring accuracies	34
6.6	Test conditions	35
6.7	Test programme	36
6.8	Replacement of individual parts and equivalent components	43
6.9	Electrical safety	43
7	Conformity evaluation	44
8	Marking, labelling and packaging	44
8.1	General	44
8.2	Data plate	44
8.3	Other markings	44
8.4	Instructions for application, installation, commissioning, adjustment, maintenance and operation	45

8.5	Marking on the packaging	46
	Annex A (normative) Smoke number	47
	Annex B (normative) Emission measurements and corrections	48
	Annex C (informative) Conversion factors	50
	Annex D (normative) FID measuring method for recording the unburnt hydrocarbons	52
	Annex E (informative) Conformity evaluation	53
	Annex F (informative) Examples of equipping of burners	56
	Annex G (informative) Additional recommendations for specific applications	60
	Annex H (informative) Air-proving device check	62
	Annex I (normative) Regional requirements specific to European countries	63
	Annex J (normative) Requirements specific to Japan	64
	Annex K (normative) Requirements specific to Australia	66
	Annex L (normative) Requirements specific to Korea	67
	Annex M (normative) Requirements specific to the USA	69
	Annex N (informative) Electrical interfaces for burners	71
	Bibliography	75