

Burner Test Sheet

for use by heating contractor



Riello Oil Burner

for use with: Vitorond 200 VR2

Safety and Installation Requirements

Please ensure that these instructions are read and understood before starting any service work. Failure to comply with these instructions may cause product/property damage, severe personal injury and/or loss of life.

Working on the equipment

The installation, adjustment, service and maintenance of this product must be performed by a licensed professional heating contractor who is qualified and experienced in the installation, service, and maintenance of hot water boilers. There are no user serviceable parts on the boiler, burner or control.



Refer to the Installation and Service Instructions applicable to this boiler.

Ensure that main power to the equipment being serviced is off.

Ensure that the main fuel supply valve to the boiler is closed.

Take precautions to avoid accidental activation of power or fuel during service work.

Do not perform service work on any component part without ensuring safe operation of the heating system.

When replacing parts, use original Viessmann or Viessmann approved replacement parts.



CAUTION

Do not overfire or underfire burner. Factory settings to be verified or changed by qualified heating contractor, depending on field measured combustion results.

Factory Calibrations

Burner Model No.:

Burner Serial No.:

Burner tested by:

Date:

_____ for VR2-_____

Burner Model	Boiler	F3 VR2-18	F3 VR2-22	F3 VR2-27	F5 VR2-33	F5 VR2-40	F5 VR2-50	F10 VR2-63
Input	MBH kW	77 23	91 27	105 31	140 41	161 47	196 57	245 72
Nozzle	Danfoss	n.a.	0.5x60xAS	0.6x60xAS*1 0.6x60xB	0.75x60xAS	0.85x60xH	1.10x60xH	n.a.
	Delavan	0.4x80xA	0.5x60xSS	0.6x60xW	0.75x60xA 0.75x60°xW*1	0.85x60xA 0.85x60xW	1.10x60xA*1	1.35x60xA 1.35x60xW
	Hago	0.4x80xH	0.5x60°xSS*1	0.6x60xES	n.a.	0.85x60xH	1.10x60xH 1.10x60xSS	1.35x45xSS
	Steinen	0.4x80xH*1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Nozzle flow	USGPH	0.55	0.65	0.75	1.00	1.15	1.40	1.75
Pump pressure	psig	190	175	175	175	175	175	175
	kPa	1310	1207	1207	1207	1207	1207	1207
Turbulator		0.0	0.0	1.5	0.8	1	2.0	1.9
Air gate		2.3	3.25	3.25	2.9	2.8	3.6	2.75
Air tube length	inches	7	7	7	6 5/16	6 5/16	6 5/16	7
	mm	178	178	178	160	160	160	178
Air tube insertion	inches	5 5/8	5 5/8	5 5/8	4 7/8	4 7/8	4 7/8	5 3/4
	mm	143	143	143	124	124	124	146

See Fig. 1, dimension "a" on page 2

n.a. not applicable

* 1 Factory supplied nozzle



CAUTION

The burner settings alone do not guarantee safe operation. Burner settings serve to help provide smooth operation at initial start-up.

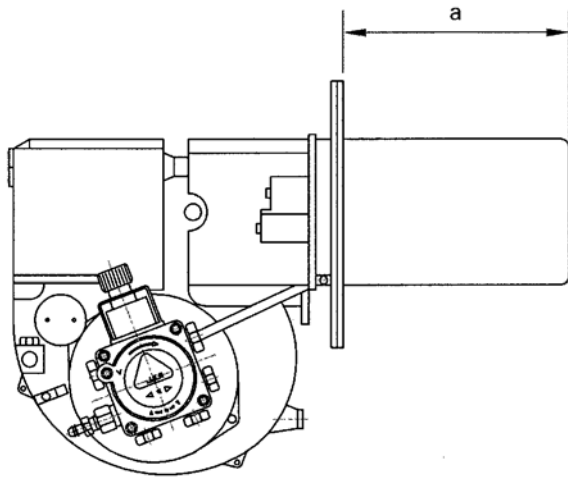
Factory Calibrations *(continued)*

Fig. 1
Air tube insertion

Technical data

FuelNo. 2 fuel oil
Average high heat value140 MBH/USG

Specifications

Smoke spot0 - 1
Overfire draft ± 0.01 " w.c.
Min. breeching draft-0.02" w.c.

Attach test results here

Burner test results

The indicated values for oil pressure, air gate and turbulator settings are the result of production line testing under ideal conditions.

Final burner adjustment to suit local field conditions is necessary for safe operation.

Verification of results

The burner adjustment values indicated serve as a starting point only.

Combustion results must be field verified using properly calibrated Bacharach or equivalent instruments.

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Technical information subject to change without notice.