

Burner Test Sheet



Vitoflame 100, VEM

for Vitola 200

Please file in Service Binder

Working on the equipment

The installation, adjustment, service, and maintenance of this product must be done by a **licensed professional heating contractor** who is qualified and experienced in the installation, service, and maintenance of hot water boilers.



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 VB2-_____

Burner Model	VEM-18	VEM-22	VEM-33	VEM-40	VEM-50	VEM-63
Input Btu/h	83 000	107 000	135 000	170 000	219 000	300 000
Nozzle - Steinen	0.40 x 45°S	0.60 x 45°S	0.75 x 45°S	1.00 x 45°S	1.25 x 45°S	1.65 x 45°S
Nozzle - Hago	0.40 x 45°B	0.60 x 45°B	0.75 x 45°B	1.00 x 45°B	1.25 x 45°B	n.a.
Oil Discharge Pressure ¹	240 psig	170 psig	170 psig	180 psig	180 psig	175 psig
Fan Discharge Pressure (Air)	1.0 "w.c.	1.0 "w.c.	1.1 "w.c.	0.75 "w.c.	1.2 "w.c.	1.15 "w.c.
Air Gate	5.5	7.5	9	9.5	11	19
Turbulator	4.5	7	9	11	12	23
Two-Pipe Bypass Plug	Installed	Installed	Installed	Installed	Installed	Installed

¹The oil pressure may deviate from the stated values due to nozzle tolerances and varying oil consistency.

Checkmarks indicate burner tested.

The above specifications are for 0-2000 ft. above sea level.



CAUTION

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

Technical data

Fuel No. 2 fuel oil or lighter

Average high

heat value 140 MBH/USG

Specifications

Smoke spot 0-1

Draft regulator M-6"

Overfire draft +0.01 "w.c.

Min. breeching draft -0.02 "w.c.

CO₂ % range 12-13%

See reverse for information on burner test results and verification of results.



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Factory Calibrations (continued)

Attach test results here

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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. Each burner is certified for one input only. Do **not** overfire or underfire burner.

Please note that measured CO₂ % *without* hood installed will be approx. 0.5% higher than CO₂ % *with* hood installed.

Technical information subject to change without notice.