

Wohler A 550 / A 500 L Flue Gas Analyzer

TECHNICAL DATA

Oxygen concentration (O₂) in flue gas

Display Volume % referenced to dry flue gas
 Measurement principle Electrochemical sensor
 Range 0.0-21.0 vol. %
 Accuracy ± 0.3 Vol.-%

Carbon monoxide (CO 4,000 ppm) in flue gas (Wohler A 550)

Display Volume ppm referenced to dry flue gas
 Measurement principle Electrochemical sensor
 Range 0-4,000 vol. ppm; resolution 1 vol. ppm
 Accuracy ±20 ppm (< 400 ppm), otherwise 5% of reading

Carbon monoxide (CO) in flue gas (Wohler A 550 L)

Display Volume ppm referenced to dry flue gas
 Measurement principle Electrochemical sensor
 Range 0-35,000 vol. ppm; resolution 1 vol. ppm
 Accuracy ± 100 ppm (< 1,000 ppm),
 otherwise 10% of reading (with H₂ < 5% of reading)

Carbon monoxide (CO_{high}) in flue gas (optional)

Display Volume ppm referenced to dry flue gas
 Measurement principle Electrochemical sensor
 Range 0-100,000 vol. ppm; resolution 1 vol. ppm
 Accuracy ± 100 ppm (< 1,000 ppm),
 otherwise 10% of reading (with H₂ < 5 % of reading)

Nitric oxide concentration (NO) in flue gas (optional)

Display Volume ppm referenced to dry flue gas
 Measurement principle Electrochemical Sensor
 Range 0-3,000 vol. ppm (continuously up to 1,000);
 Resolution 1 vol. ppm
 Accuracy ± 5 Vol.-ppm (< 100 ppm), otherwise 5 % of reading

Nitrogen dioxide concentration (NO₂) in flue gas (optional)

Display Volume ppm referenced to dry flue gas
 Measurement principle Electrochemical sensor
 Range 0-1000 vol. ppm (continuously up to 200); resolution 1 vol. ppm
 Accuracy ±5 vol. ppm (< 100 ppm), otherwise 5 % of reading

Sulfur dioxide (SO₂) in flue gas (optional)

Display Volume ppm referenced to dry flue gas
 Measurement principle Electrochemical sensor
 Range 0-5,000 vol. ppm; resolution 1 vol. ppm
 Accuracy ± 10 vol. ppm (0...200 ppm), otherwise 5 % of reading

Chimney draft / differential pressure (PD) with 4 Pa test (Wohler A 550)

Display inWC
 Measurement principle Semi-conductor diaphragm
 Range 0.00 to ± 44.16 inWC; resolution 0.004 inWC (< 4.01 inWC),
 otherwise 0.004 inWC, with ventilation loss measurement 0.004 inWC
 Accuracy 0.0012 inWC (< 0.04 inWC), otherwise 3 % of reading
 Drift < 0.00081 inWC in 5 minutes

Chimney draft / differential pressure (PD) (Wohler A 550 L)

Display inWC
 Measurement principle Semi-conductor diaphragm
 Range 0.00 to ± 44.16 inWC; resolution 0.004 inWC
 Accuracy 0.008 inWC (< 0.16 inWC), otherwise 5 % of reading

Flue gas temperature (T_g)

Display °F
 Measurement principle Thermocouple (NiCr-Ni) (NiCr-Ni)
 Range -4 °F to 1,472 °F; resolution 32.18 °F
 Accuracy 32-271.4 °F: ± 35.6 °F
 271.4-1,472 °F: ± 1.5 % of reading

Combustion air temperature (T_a)

Display °F
 Measurement principle Thermocouple (NiCr-Ni)
 Range -4 °F to 212 °F; resolution 32.2 °F
 Accuracy ± 33.8 °F

Wood moisture

Display Mass of water referenced to dry fuel mass
 Measurement principle Electrical resistance measurement
 Range 10.0-40.0%; resolution 0.1 %
 Accuracy ±40% of reading tested to VDI 4206 Part 4

Power supply Lithium-Ion, rechargeable battery 3.7 V, 5800 mAh,
 charges via USB

Battery operating time Approx. 12 h (depends on operating status and display illumination)

Storage temperature -4 °F to +122 °F

Operating temperature +41-104 °F to maintain stated accuracy

Weight 2.75 lbs

Dimensions 8.7" x 6.3" x 2.2" (without probe)

Length of cable-hose: 67"