WÖHLER



Visit us at www.TestEquipmentDepot.com



WORKING TOGETHER

For over 80 years, the name Wöhler has been synonymous with quality and progressive innovations in the field of measuring instruments, visual inspection systems and cleaning equipment for heating, ventilation and facility management applications.

Working on the basis of many years of experience, close contact to customers, comprehensive skills in all technical disciplines, Wöhler develops products that are tailored to each customers needs. Chimney sweeps, plumbing, heating and air conditioning contractors, construction specialists and industrial customers worldwide rely on technology made by Wöhler.

As an international family-owned business, we closely cooperate with customers and vendors on a partnership basis. Continual growth and long-term success are assured by both trust based cooperation and a passion for technology.

Schrade

Elmar Schrader

President of Wohler USA Inc.

HIGHLIGHTS

POWERFULLY SIMPLE.

Wohler A 550 FLUE GAS ANALYZER

Flue gas analysis at your finger tip

Page 24

UNIQUELY CLEAN VIEW.

Wohler VIS 350

VISUAL INSPECTION SYSTEM

Full color pan & tilt camera head with built-in recording and sonde, position indicator, home function and locator

Page 68



PENETRATING VIEWS THROUGH CONCRETE AND ASPHALT.

Wohler L 200

LOCATOR

Exact location of camera head

Page 85

MODULAR POINT OF VIEW.

Wohler VIS 400

MODULAR VISUAL INSPECTION SYSTEM

Professional visual inspection system

Page 74

DEVELOPMENT

FUTURE MADE BY WÖHLER

Our prescription for innovative product ideas is experience of many years, a lot of competence and fascination for technology. Also close cooperation with our customers and experts from business, trade organizations and universities are the basis for our long-lived products. Together we develop trend-setting and practice-oriented innovations for you for decades.



HARDWARE & SOFTWARE DESIGN – IN LINE WITH STANDARD USAGE & THOUGHT OUT CAREFULLY

Devices must be easy to use. That is possible only with a proven technology. The mechanics, electronics, instrument software and the supporting PC-programs must be user-friendly. Therefore we stay in close contact with you – ultimately the most important and best suggestions for improvement come from practical applications.



CONSTRUCTION – INNOVATIVE & ACCURATE TO SIZE

Together manufacturing and production work hand in hand. Each product is designed three-dimensionally on the computer - both technical requirements and ergonomic aspects play a primary role. Prepared program data is transferred directly into our CNC machines that produce the mechanical components for your equipment - in this way we guarantee a fast and error free production process.











MEASURING INSTRUMENTS – LEAKAGE AND PRESSURE 36 – 45

MEASURING INSTRUMENTS – IAQ/BUILDING
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Vohler	A:	550	L
Flue Gas	Ana	alyzer	

Flue Gas Analyzer

	Flue Gas Analyzer	Flue Gas Analyzer	Flue Gas Analyzer	Flue Gas Analyzer
	page 20	page 21	page 28	page 29
APPLICATIONS				
Residential	•	•	•	•
Commercial			•	
Manifold and Differential Pressure	•	•	•	•
Tuning Guide	•	•	•	•
Data Management	•	•	•	•
SENSORS				
O ₂	021%	021%	021%	021%
со	010,000 ppm	04,000 ppm	035,000 ppm	04,000 ppm
CO high				0100,000 ppm
NO		01,000 ppm	03,000 ppm	03,000 ppm
SO ₂				05,000 ppm
NO_2				01,000 ppm
Stack Temperature	321,472°F	321,472°F	-41,472°F	-41,472°F
Supply Air Temperature	-4248 °F	-4248°F	-4212°F	-4212°F
Differential Pressure	40.15 inWC	40.15 inWC	44.16 inWC	44.16 inWC
Warranty	2 years	4 years	4 years	4 years
OPERATION FEATURES				
Touch-Screen			•	•
Full Color Display	•	•	•	•
Infrared port for printer	•	•	•	•
Bluethooth port for computer				•

SAFETY FEATURES

Self Diagnosis for Sensors (S) and Instrument (I)

CO-valve (V) and CO purge-pump (P)

•

•

WÖHLER

4 or 6 Filter Technology 4 4 4 4

WÖHLER

GET A GRIP ON COMBUSTION WITH ONE HAND!

The Wohler A 400 Flue Gas Analyzers are multi-functional instruments (flue gas, differential pressure, ambient CO) for residential and light commercial applications. Its unique design allows a comfortable one-hand operation with a technicianfriendly 4 button key pad. Integrated magnets make even a hands-free operation possible. Your eyes will love the brilliant full color OLED display which shows all combustion values on one screen. The self-diagnosis functions with an alarm makes the instrument reliable and failsafe. We provide a full 4 year warranty for the instrument and LT-Sensors.





















FEATURES AND BENEFITS

- Color OLED display all combustion data values on one
- Zoom function
- Integrated magnetic holder
- Technician-friendly 4 button keypad
- Ergonomic shape: comfortable one-hand operation
- Graphic function
- User selectable units for temperature, pressure and CO

SAFETY / RELIABILITY

- Integrated 4-filter technology including water stop filter, cotton filter, sample conditioner and sensor protection
- Full 4 year warranty on instrument including sensors¹⁾
- · Continuous self-diagnosis with feedback for:
 - All sensors
 - Instrument functions
 - Condensate

DATA MANAGEMENT

- Memory for 100 customer records
- Date and time stamp

VARIETY OF APPLICATIONS

- Wohler Tuning Guide with graphical support
- Combustion and efficiency analyzer for residential and light commercial applications
- Ambient CO tester
- Flue gas CO tester (CO air free)
- Differential manometer for chimney draft and appliance manifold pressure
- · Graph feature for all combustion readings

APPROVALS

- TÜV approved
- EN 50379-2
- EN 50379-1 for CO

1) Wohler A 400/A400 Pro, except for thermocouples and batteries; for further information see our warranty guidelines

TECHNICAL DATA

Oxygen (O ₂)	
Sensor type	electrochemical
Range	0.021.0 Vol%
Resolution	0.1 Vol%
Assurant	. 0.2 Val. 0/

Carbon monoxide (CO) (Wohler A 400PRO)

Sensor type	electrochemical
Range	04,000 ppm
Resolution	1 Volppm
_oouraov	± 5 % f m absolute ±20 nnm

Carbon monoxide (CO) (Wohler A 400 L)

Sensor type	electrochemical
Range	010,000 ppm
Resolution	1 ppm
A .	10.07.5

.. ± 10 % f.m., absolute ±40 ppm Accuracy.

Nitric oxide (NO) (Wohler A 400PRO)

Resolution	1 Volppm
Accuracy	± 5 % f.m., ± 5 Volppm (<100 ppm)

Draft / Differential Pressure (PD)

Unit	inWC / psi / Pascal / mbar
Range	± 40 inWC
Docolution	0.004 inWC

.. ± 2 % f.m., absolute ± 0.020 inWC

Flue Gas Temperature (T_c)

Jnit	.°F/°C
Sensor type	thermoelement (NiCr-Ni)
Range	4 °F1,472 °F
Resolution	.0.2°F
Accuracy	.32257 °F:± 4 °F
	257482 °F: ± 6 °F
	482752 °F:± 8 °F
	2521472 °F: ± 1.5 % f. m.

Supply Air Temperature (T,)

Unit	°F/°C
Sensor type	semiconductor (Si-PTC-Ni)
Range	4 °F248 °F
Resolution	0.2 °F

Calculated Values

Effc. / SL:	efficiency and losses calculated in accordance to
	ASME standards
ETA / QS:	efficiency and losses calculated in accordance to EN
	European standards
CO2 in Vol%:	range 0 - CO ₂ max, resolution 0.1%
CO_:	CO concentration (COcorrected) air free,
-	adjustable O _{2ref} reference level
Dew point:	in °C/°F

..Lambda (theoretical air), Excess Air .. condensate quantity in condensing conditions

+41 °F...104 °F to meet specifications Work temperature Storage temperature -4 °F 122 °F

.AA batteries > 10 h (NiMH, 2000 mAh) **Battery lifetime** 1 4 lbs

..8" x 3.3" x 8.7" (without probe)

Length cable-hose

Wohler A 400 L Flue Gas Analyzer



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APPLICATION:

· Combustion and Efficiency Analyzer for residential and light commercial applications

ADVANTAGES:

- All combustion data values on a bright full color display
- Integrated magnetic holder
- Technician friendly 4 button keypad
- Ergonomic shape: comfortable one hand operation
- Integrated 4-filter technology including water stop filter, cotton filter, sample conditioner and sensor protection
- 2 year full warranty on instrument including sensors1)
- Memory for 100 customer records
- Date and time stamp

Wohler A 400PRO Flue Gas Analyzer



APPLICATION:

• Multifunctional Combustion Analyzer for residential and light commercial applications

ADVANTAGES:

- LT-sensors (full 4 year warranty incl.
- Ergonomic shape: one hand operation with a 4 button key pad
- Brilliant OLED full color display technology
- · Multi-functional: combustion and efficiency analyzer, ambient CO tester, flue gas CO tester (CO air free), differential manometer
- Safety: integrated smart filter technology, condensate control with LED warning light, sensor diagnostics, continuous self diagnosis with feedback



Wohler A 400 L Kit USA version

Wohler A 400 L

disposable AA batteries

Wohler TD 100 Thermal Printer

plastic case

→ Accessories on page 22

Part no. 4625

Wohler A 400PRO USA Set 1 (Standard)

Wohler A 400PRO USA

probe/hose assembly

disposable batteries

water stop filter

25 cotton filters

heavy duty carrying case

→ Accessories on page 22

Part no. 3356

Wohler A 400PRO USA Set 2 (Advanced)

Wohler A 400PRO USA probe/hose assembly rechargable batteries

charger water stop filter

25 cotton filters

air temperature probe Wohler TD 100 Thermal Printer

heavy duty carrying case

Part no. 3359

→ Accessories on page 22

Wohler A 400PRO USA Set 3 (Professional)

Wohler A 400PRO USA

probe/hose assembly rechargeable batteries

charger

water stop filter

25 cotton filters

air temperature probe

Wohler TD 100 Thermal Printer

Wohler RP 72 Smoke Test Kit

heavy duty carrying case

→ Accessories on page 22

Part no. 3361

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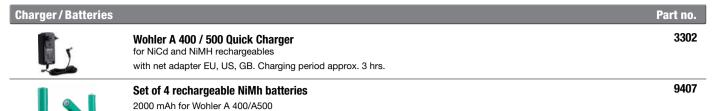


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Probes / Cable Hoses		Part no.
	Air Temperature Probe 11" for Wohler A 600 / A 400 with 67" cable, to measure the supply air temperature especially in fire places independent of ambient air	6019
2	Probe/hose assembly Wohler A 400 V2 Probe and hose assembly for A 400	5576
0	Flexprobe Wohler A 400 ^{PRO} with hose cable hose 67" with flexible probe 12"	3241
70	Extension for cable hose Wohler A 400, 110"	2077

Cones		Part no.
	Clamping Cone for probes 8 mm dia stainless steel, to stabilize the gas probe in the flue pipe	2494
	Threaded Cone for probes 8 mm dia	2495
Canal Indian	Plastic Cone for air temperature probe for probes 8mm in dia, to stabilize air temperature probes in openings of 10-15 mm	2463

WOHLER A 400 L / A 400 PRO | ACCESSORIES



Cases		Part no.
WONLER	Plastic case Wohler A 400L Plastic case for Wohler A400L	4681
WOHLER	Plastic case Wohler A 400 USA Heavy duty carrying case, with twin wall for document storage, for A 400	3319

Filter		Part no.
a@#	Service bag Wohler A 400 comes with: 1 water stop filter, 25 cotton filters, O-ring, cotton holder and filter connection	3776
80	Water Stop Filters 3 pack for Wohler A 600 / A 500 / A 550 / A 400	9621
be al	Wadding filters A 400 pack with 150 pieces for Wohler A 400	4288

88 88	Round foil test hole seals Ø 1.1" Aluminium (100 pcs)	4964
Sensors		Part no.



WÖHLER

POWERFULLY SIMPLE NEW

Wohler A 550 Flue Gas Analyzer

As robust as cast iron, but as easy to operate as a smartphone – that's what Wohler's new flue gas analyzer feels like in your hand. Appropriately, the advantages are equally substantial: A tap of your finger on the Wohler A 550 is all that is required to perform analyses, inspections and settings on residential and commercial appliances. The flue gas analyzer is equipped with coded connections for the 4 Pa test and even »NEW AND UNIQUE« a wood moisture content measurement function to VDI Guideline







¹⁾ Except thermocouple, rechargeable battery and special senfor further information please read our warranty guidelines













PRODUCT BENEFITS

- Simple to use: Switch on read off done
- Large, color touchscreen:
 Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Calibrate in the flue gas pipe via a fresh air pump (Wohler A 550)
- · Graphic hot spot search

EXTREMELY RELIABLE

- Effective condensate protection
- Automatic CO clean out pump protects CO sensor (Wohler A 550)
- 4-filter technology easily accessible
- Analyzer and sensor diagnostics
- Sensor replacement user-friendly
- Rechargeable battery operating time: more than 12 h with Lithium lon power
- Hose assembly robust and flexible

HUGE RANGE OF APPLICATIONS

- Expandable with up to 5 sensors
- For measurements: NO, NO, SO,
- Insertion probe for a variety of measurement tasks
- Spillage Test and much more
- First Flue Gas Analyzer incl. wood moisture content measurement (wood moisture probe included in scope of supply of Wohler A 550)

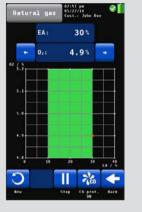
SIMPLE DATA MANAGEMENT

- 1,000 measurement records
- Data transfer via USB, Bluetooth or infrared

COMMUNICATION OF THE PARTY OF T

PRINTING OUT THE RESULTS OF MEASUREMENT
Printing out the results on the spot with the
Wohler TD 100 Thermal Printer.

TUNING GUIDE

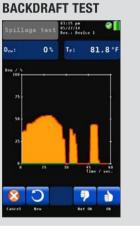


OLOTUBE



PRINT PREVIEW

Combustion



TÜV-APPROVED

• TÜV By RgG 297, EN 50379-2, VDI 4206, EN 50379-1 for CO



THOSE SPECIAL EXTRAS











4 Pa-test	•	
Wood moisture	•	•
Backflow check	•	•
Wohler Tuning Guide	•	•
Possible sensors	5	3
Para Para Pla		
Functionality		
7" color touchscreen	•	•
Fresh air pump, simulta- neous hot spot search and calibration	•	
Start-/stop function at probe	•	
1,000 measurement records	•	•
USB & infrared	•	•
Bluetooth®	•	
CO clean out pump	•	
Reliability		
	•	
4-year sensor and analyzer guarantee ¹⁾	•	•
Analyzer self diagnostics	•	•
Field replaceable sensors	•	•
Visual filter alarm	•	•
Lithium lon rechargeable battery with up to 12 h battery operating time	•	•
Scope of supply		
Interchangeable probe with 67" hose assembly and plug-in probe 12"	•	
Probe with 67"hose assembly and fixed probe 11"		•
Combustion air temperature probe	•	optional
Wood Moisture Probe	optional	optional
Pressure measurement adapter for 4 Pa test	optional	
1 water stop filter and 1 coarse filter	•	•
Rechargeable battery and USB battery charger	•	•
Case	•	•
●= included		
Except thermocouple, rechargeable bread our warranty guidelines.	attery and special sensors;	for further information please

A 550

FLUE GAS ANALYSIS | WOHLER A 550

Applications (depends on accessories)

Flue Gas Analysis

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com

A 550 L

TECHNICAL DATA	
Oxygen concentration (0	.) in flue gas
	Volume % referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0.0-21.0 vol. %
Accuracy	
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
	flue gas (Wohler A 550 L)
	Volume ppm referenced to dry flue gas
Measurement principle	
*	0-35,000 vol. ppm; resolution 1 vol. ppm
Accuracy	± 100 ppm (< 1,000 ppm),
	otherwise 10% of reading (with $H_2 < 5\%$ of reading)
Carbon monoxide (CO _{high})	in flue gas (optional)
	Volume ppm referenced to dry flue gas
Measurement principle	
	0-100,000 vol. ppm; resolution 1 vol. ppm
Accuracy	± 100 ppm (< 1,000 ppm),
Nitrio avido concentratio	otherwise 10% of reading (with H ₂ < 5 % of reading)
	n (NO) in flue gas (optional)
Measurement principle	Volume ppm referenced to dry flue gas
	electrochemical sensor 0-3,000 vol. ppm (continuously up to 1,000);
Resolution	
	± 5 Volppm (< 100 ppm), otherwise 5 % of reading
	tration (NO ₂) in flue gas (optional)
	Volume ppm referenced to dry flue gas
Measurement principle	
	0-1000 vol. ppm (continuously up to 200); resolution 1 vol. ppm
	±5 vol. ppm (< 100 ppm), otherwise 5 % of reading
Sulfur dioxide (SO ₂) in flu	
Display	Volume ppm referenced to dry flue gas
Measurement principle	
	0-5,000 vol. ppm; resolution 1 vol. ppm
Accuracy	± 10 vol. ppm (0200 ppm), otherwise 5 % of reading
Chimney draft / different	ial pressure (PD) with 4 Pa test (Wohler A 550)
Display	inWC
	Semi-conductor diaphragm
Range	\dots 0.00 to \pm 44.16 inWC; resolution 0.004 inWC (< 4.01 inWC),
	otherwise 0.004 inWC, with ventilation loss measurement 0.004 inW
Accuracy	0.0012 inWC (< 0.04 inWC), otherwise 3 % of reading
	Drift < 0.00081 inWC in 5 minutes
•	ial pressure (PD) (Wohler A 550 L)
Display	
	Semi-conductor diaphragm
	0.00 to ± 44.16 inWC; resolution 0.004 inWC
	0.008 inWC (< 0.16 inWC), otherwise 5 % of reading
	\
Flue gas temperature (T _s	
Flue gas temperature (T _s Display	°F
Flue gas temperature (T_s Display Measurement principle	°F Thermocouple (NiCr-Ni) (NiCr-Ni)
Flue gas temperature (T _s Display Measurement principle Range	°F Thermocouple (NiCr-Ni) (NiCr-Ni) 4°F to 1,472°F; resolution 32.18°F
Flue gas temperature (T_s Display Measurement principle	°F Thermocouple (NiCr-Ni) (NiCr-Ni) 4°F to 1,472°F; resolution 32.18°F 32-271.4°F: ± 35.6°F
Flue gas temperature (T _s Display	°F Thermocouple (NiCr-Ni) (NiCr-Ni) 4°F to 1,472°F; resolution 32.18°F 32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5% of reading
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat	°F Thermocouple (NiCr-Ni) (NiCr-Ni)4 °F to 1,472 °F; resolution 32.18 °F 32-271.4 °F: \pm 35.6 °F 271.4 -1,472 °F: \pm 1.5 % of reading ure (T_A)
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display	°FThermocouple (NiCr-Ni) (NiCr-Ni)4 °F to 1,472 °F; resolution 32.18 °F32-271.4 °F: ± 35.6°F 271.4-1,472 °F: ± 1.5 % of reading ure (T _A)°F
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display Measurement principle	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display Measurement principle	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display Measurement principle Range	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F
Flue gas temperature (T _s Display	°FThermocouple (NiCr-Ni) (NiCr-Ni)4 °F to 1,472 °F; resolution 32.18 °F32-271.4 °F: ± 35.6°F 271.4-1,472 °F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4 °F to 212 °F; resolution 32.2 °F±33.8°F
Flue gas temperature (T _s Display	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F
Flue gas temperature (T _s Display. Measurement principle Range. Accuracy. Combustion air temperat Display. Measurement principle Range. Accuracy. Wood moisture Display. Measurement principle.	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5% of reading ure (T _a)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F± 33.8°FMass of water referenced to dry fuel massElectrical resistance measurement
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display Measurement principle Range Accuracy Wood moisture Display Measurement principle Bange Measurement principle Measurement principle Bange Measurement principle Measurement principle Range	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5% of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F±33.8°FMass of water referenced to dry fuel mass
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display Measurement principle Range Accuracy Wood moisture Display Measurement principle Range Accuracy Measurement principle Accuracy Measurement principle Accuracy Measurement principle Range Accuracy	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5% of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F± 33.8°FMass of water referenced to dry fuel massElectrical resistance measurement10.0-40.0%; resolution 0.1%
Flue gas temperature (T _s Display Measurement principle Range Accuracy Combustion air temperat Display Measurement principle Range Accuracy Wood moisture Display Measurement principle Measurement principle Accuracy Measurement principle Accuracy Measurement principle Accuracy	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F± 33.8°FMass of water referenced to dry fuel massElectrical resistance measurement10.0-40.0%; resolution 0.1%±40% of reading tested to VDI 4206 Part 4
Flue gas temperature (T _s Display. Measurement principle Range	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F±33.8°FMass of water referenced to dry fuel massElectrical resistance measurement10.0-40.0%; resolution 0.1%±40% of reading tested to VDI 4206 Part 4Lithium-lon, rechargeable battery 3.7 V, 5800 mAh, charges via USBApprox. 12 h (depends on operating status and display illumination)
Flue gas temperature (T _s Display. Measurement principle Range. Accuracy. Combustion air temperat Display. Measurement principle Range. Accuracy. Wood moisture Display. Measurement principle Range. Accuracy. Measurement principle Range. Accuracy Power supply. Battery operating time. Storage temperature	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F± 33.8°FMass of water referenced to dry fuel massElectrical resistance measurement10.0-40.0%; resolution 0.1%±40% of reading tested to VDI 4206 Part 4Lithium-lon, rechargeable battery 3.7 V, 5800 mAh, charges via USBApprox. 12 h (depends on operating status and display illumination)4°F to +122°F
Flue gas temperature (T _s Display. Measurement principle Range. Accuracy. Combustion air temperat Display. Measurement principle Range. Accuracy. Wood moisture Display. Measurement principle Range. Accuracy. Measurement principle Range. Accuracy Power supply. Battery operating time. Storage temperature	°FThermocouple (NiCr-Ni) (NiCr-Ni)4°F to 1,472°F; resolution 32.18°F32-271.4°F: ± 35.6°F 271.4-1,472°F: ± 1.5 % of reading ure (T _A)°FThermocouple (NiCr-Ni)4°F to 212°F; resolution 32.2°F±33.8°FMass of water referenced to dry fuel massElectrical resistance measurement10.0-40.0%; resolution 0.1%±40% of reading tested to VDI 4206 Part 4Lithium-lon, rechargeable battery 3.7 V, 5800 mAh, charges via USBApprox. 12 h (depends on operating status and display illumination)
Flue gas temperature (T _s Display. Measurement principle Range. Accuracy. Combustion air temperat Display. Measurement principle Range. Accuracy. Wood moisture Display. Measurement principle Range. Accuracy. Measurement principle Range. Accuracy Power supply. Battery operating time. Storage temperature	°F Thermocouple (NiCr-Ni) (NiCr-Ni)4 °F to 1,472 °F; resolution 32.18 °F 32-271.4 °F; ± 35.6 °F 271.4-1,472 °F; ± 1.5 % of reading °F Thermocouple (NiCr-Ni)4 °F to 212 °F; resolution 32.2 °F ± 33.8 °F Mass of water referenced to dry fuel mass Electrical resistance measurement 10.0-40.0%; resolution 0.1% ±40% of reading tested to VDI 4206 Part 4 Lithium-lon, rechargeable battery 3.7 V, 5800 mAh, charges via USB Approx. 12 h (depends on operating status and display illumination)4 °F to +122 °F +41-104 °F to maintain stated accuracy

Wohler A 550 L Flue Gas Analyzer





for further i

special

28

Wohler A 550 L Flue Gas Analyzer USA

Wohler A 550 L USA

hose 5.6 ft

gas probe 0.9 ft

USB charger with micro USB cable

Li-lonen battery

water stop filter

coarse filter

25 wadding filters

case

→ Accessories on page 30

Part no. 7753



APPLICATION

- For burner adjustment and determination of combustion loss
- For residential and commercial applications
- Burner maintenance

ADVANTAGES

- Large 7"color-touch screen:
 Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Data transfer via integrated USB- & IR-Interface
- Large CO-measurement range: 35,000 ppm
- · Robust plastic case for safe transport









Wohler A 550 L Flue Gas Analyzer USA with Wohler TD 100 Thermal Fast Printer

Wohler A 550 L USA

hose 5.6 ft

gas probe 0.9 ft

USB charger with micro USB cable

Li-lon battery

water stop filter

coarse filter

25 wadding filters

Wohler TD 100 Thermal Fast Printer case

→ Accessories on page 30

Part no. 7754

Wohler A 550 Flue Gas Analyzer



APPLICATION

- Flue gas analysis
- Backflow Check (optional)
- Wood Moisture Measurement
- 4 Pa-Test

ADVANTAGES

- Large 7"color-touch screen:
 Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Data transfer via integrated Bluetooth®-, USB- & IR-Interface
- Start-/Stop-Button on the probe handle
 When measuring in difficult conditions, you can also simply stop and save the measurement at the press of the button on the probe handle
- 1,000 measurement records
- $\,^{\circ}$ Huge range of applications: NO, NO $_{\!_2},$ SO $_{\!_2}$ (in connection with the Wohler Peltier cooler), ...









Wohler A 550 Flue Gas Analyzer USA with Wohler TD 100 Thermal Fast Printer

Wohler A 550 USA

hose 10 ft

gas probe 1 ft

air temperature probe

clamping cone

USB charger with micro USB cable

Li-lon battery

water stop filter

coarse filter

25 wadding filters

Wohler TD 100 Thermal Fast Printer

→ Accessories on page 30

Part no. 7757

case

Wohler A 550 Flue Gas Analyzer USA with ${\rm NO/NO_2}$ with Wohler TD 100 Thermal Fast Printer

Wohler A 550 USA

NO and NO₂ sensor
hose 10 ft
gas probe 1 ft
air temperature probe
clamping cones

USB charger with micro USB cable
Li-lon battery
water stop filter
coarse filter
25 wadding filters

Wohler TD 100 Thermal Fast Printer

→ Accessories on page 30

Part no. 7764

Wohler A 550 Flue Gas Analyzer USA NO/NO_a/SO_a

with Wohler TD 100 Thermal Fast Printer

Wohler A 550 USA

 $\mathrm{NO,\,NO_{_2}}$ and $\mathrm{SO_{_2}}$ sensor

hose 10 ft gas probe 1 ft

air temperature probe

clamping cone

USB charger with micro USB cable

Li-lon battery

water stop filter

coarse filter

25 wadding filters

Wohler TD 100 Thermal Fast Printer

case

→ Accessories on page 30

Part no. 7765



for Wohler A 600 / A 500 / A 550

Wadding filters A 400 pack with 150 pieces for Wohler A 400

4288

ohler A 550 Upgr	ade Kit	Part no
1	Wohler A 550 Upgrade Kit Wohler A 550 air temperature probe 11" with 67" cable, clamping cone	7758
obes		Part no
	Wohler A550 air temperature probe 11", with 67" cable	5511
	Wohler Probe 20 " Wohler A 550/A 500/ A 97	9614
——	Wohler Probe 12 " Wohler A 550/A 500/ A 97	9622
	Wohler Probe 7 " Wohler A 550/A 500/ A 97	9613
	Wohler Probe 5 " Wohler A 550/A 500/ A 97	9652
	Wohler Flexible Probe 12" Wohler A 550 / 500	3242
	Wohler A 550 dew point indicator probe	5512
	Wood Moisture Probe Wohler A 550	5513
0	Hose assembly 10 ft for Wohler A 550 Gas Probe	7179
nes		Part no
	Magnetic Holder for air temperature probes	6142
	Clamping Cone for probes 8 mm dia stainless steel, to stabilize the gas probe in the flue pipe	2494
	Plastic Cone for air temperature probe for probes 8mm in dia, to stabilize air temperature probes in openings of 10-15 mm	2463
e Gas Preparatio	on	Part no.
	Filter granulate for BHKW Filter Wohler A 550 3.4 oz	4398
	Peltier cooler Wohler A 550 / A 400 incl. power supply	5535
	Extension Wohler Cable hose	2076

Printer		Part no.
	Wohler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160
	Thermal Paper 2.24" width, 10 rolls for thermal printer Wohler TD 100 and TD 600	4145

harger		Part no.
1	Charger Wohler A 550	5502
1 Se S		Part no.
new real	Plastic case Wohler A 550 L	5516
Wince	Wohler A 550 Heavy duty carrying case twin-wall case Heavy duty carrying case, with twin wall for document storage, for Wohler A 550	5577
onsumables		Part no.
80	Water Stop Filters 3 pack for Wohler A 600 / A 500 / A 550 / A 400	9621
•••	Coarse Filters pack with 5 pieces	9632

ensors		Part no.
0	0 ₂ sensor Wohler A 550 field replaceable	5594
	CO-Sensor 4,000 ppm Wohler A 550 field replaceable	8166
	CO-Sensor 35,000 ppm Wohler A 550 L field replaceable	4496
	CO _H sensor 100,000 ppm Wohler A 550 field replaceable	5596
	NO sensor Wohler A 550 field replaceable	5597
	NO ₂ sensor 3,000 ppm Wohler A 550 field replaceable	5598
	SO ₂ sensor 5,000 ppm Wohler A 550 field replaceable	5665

Part no.

Part no.

Wohler RP 72 Smoke Test Pump





APPLICATION

For measuring the soot level manually

- Rugged and reliable 10 stroke Soot Test Pump
- Long hose: ideal for difficult to reach measurement openings
- · Non centered soot spot, allows many tests on one filter, easy to compare
- 2 filter technology

Part no. 9152

rugged · reliable · established

Wohler RP 72 Smoke Test Pump Kit

Wohler RP 72 Smoke Test Pump 40" hose extraction probe 7.9" smoke spot comparison scale threaded cone oil test bottle servicing oil 300 filter papers short wadding long wadding probe brush → Accessories on page 33

Wohler RP 72 Smoke Test Pump

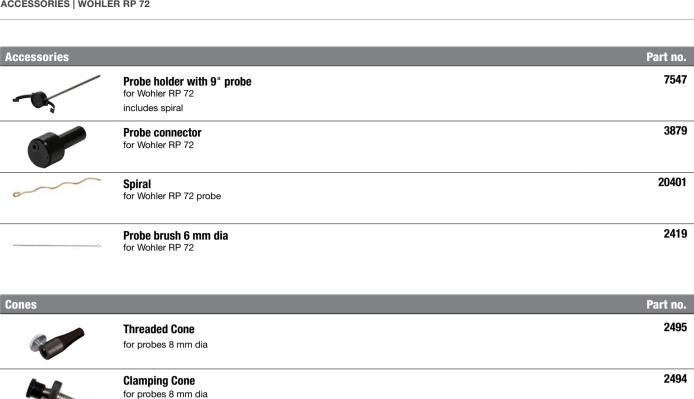
Wohler RP 72 Smoke Test Pump

3 ft hose

extraction probe 9"

→ Accessories on page 33

Part no. 2412





WÖHLER

Wohler RP 72 Soot Spot Comparison Scale

stainless steel, to stabilize the gas probe in the flue pipe

2416 from soot number 1 to 10

311	Soot test filters, bag with 300 pcs for Wohler RP 72	2415
	Wohler RP 72 Filter Paper Dispenser with 300 pieces of filter paper	3700
	Wadding Filters for Wohler A 500 / RP 72 condensate trap, pack with 150 pieces	5290
000	Wohler RP 72 Wadding Filters Long pack with 150 pieces	621
	Special servicing oil for Wohler RP 72	2418



APPLICATION

The Wohler HF 300 is an easy to use instrument for determination of wood moisture. Depending on the kind of wood the needles can be pushed up to 3/16" into the log.



TECHNICAL DATA ...LCD Display. ...5 % to 40 % Range . ..+1% absolute Accurancy Needle length... ...0.5" Operating temperature.....42 to 112 °F ..0.5 lbs. ...9 V battery Current supply ...5" x 1.7" x 0.8"

Wohler HF 300 Wood Moisture Meter

Wohler HF 300 Wood Moisture Meter 9V battery protective bag 1 pair of replacement pins

Part no.

7181

Part no. 7180



6 pairs of Replacement Pins for Wohler HF 300

Wohler HBF 420 Moisture Meter



APPLICATION

With its unique combination of electrical resistance measuring technique and dielectric measurement the Wohler HBF 420 wood and building materials moisture meter represents an ideal handheld instrument to assess the moisture content of materials in a wide range of applications:

- · Building diagnostics: Damage analysis, leak detection
- · Building work: Preparatory measurements before applying paint, installing floor coverings etc.
- Fuel management: Assessing wood fuel materials

ADVANTAGES

- Ability to assess building and wood moisture with one instrument
- Dielectric measuring technique, ideal to quickly assess moisture and measure the moisture profiles of building materials
- Resistance measurements to precisely determine the moisture content of wood
- Automatic temperature compensation after entering the material temperature
- Wood species correction via material
- Calibration kit facilitates on-the-spot measurement value verification
- Adjustable alarm threshold



TECHNICAL DATA

Resistence measurement wood

..approx. 0 to 40 % Range... Needles . ..0.5", 10 kind of wood

Dielectrical measurement (non destructive)

..approx. 1.2" - 1.6" Effective depth ...

20 material codes ..3 color LED (green, yxellow, red),

adjustabe limit

...0.4 lbs (without batteries)

Auto-Off-Function: adjustable

.....32...+104 °F, < 90 % r.H. Operation conditions.

..6.5" x 2.4" x 1.0"

...4 x 1.5 V AAA-batteries Power Supply...

Wohler HBF 420 Moisture Meter for wood and building materials

Wohler HBF 420 Moisture Meter

2 replacement electrodes

4 batteries 1.5 V AAA

leather bag

Part no. 8440

Pair of replacement pins for Wohler HBF 420

Part no.

3661





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- 43 Accessories Wohler DC 410FLOW Pressure Differential & Flow Meter
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- 45 | Wohler CM 220 CO-Meter
- 45 Wohler TI 410 Dew Point Indicator

PRODUCT OVERVIEW LEAKAGE AND PRESSURE













		F	and the same of th	WONLER	
	Wohler DM 2000 Digital Manometer	Wohler DC 410 ^{FLOW} Pressre Differential & Flow Meter	Wohler GS 220 Gas Sniffer	Wohler CM 220 CO-Meter	Wohler TI 410 Dew Point indicator
	page 40	page 42	page 44	page 45	page 45
APPLICATIONS					
Measurement of Gas Leakage	•		•		
Manifold and Differential Pressure	•	•			
Flow Measurement in ducts and chimneys		from approx. 2.0 m/s			
Backdraft Testing					•
4 Pa-test for supply air		•			
Ambient Air Quality				со	
CO Concentrations in rooms and workplaces				•	
Datalogger for pressure and temperature		•			
Oil throughput measurement on burner					
SENSOR SPECIFICATIONS					
Differential Pressure	± 800 inch WC				
Air Flow					
Temperature (internal/external)	external 0212 °F	internal 0150 °F external 01,472 °F			-40 °F212 °F
Humidity		0100 % r.H.			
co					
Methane/Propane			•	•	
FEATURES					
Infrared port to connect with printer		•			

Wohler DM 2000 Digital Manometer



TECHNICAL DA	TA
Pressure:	
Range:	± 800.00 inch WC
Accuracy:	
	\pm 0.02 inch WC
	whichever is greater
Resolution:	0.01 inch WC
Temperature (option	nal):
Range:	0 to 212 °F
Accuracy:	better than 4 °F
Resolution:	0.1 °F
Dimensions:	
Size:	2.2" x 6.6" x 2."
Weight:	1 lbs.
Power:	2 AA batteries

APPLICATION

- Measures gas line and manifold pressure
- Fine tune burners with 0.01" WC resolution
- Measure draft and differential pressure
- Troubleshoot and balance HVAC systems
- Measure temperature with optional

Advantages:

- Simple one button operation
- Wide measurement range (± 800.00" WC)
- Measures differential pressure
- IrDA output to PC/PDA
- Optional temperature measurement
- German technology designed for and by the American Technician

/ohler	DM 2000) Digital	Manomet	ter Kit
S Vers	sion			

hand batte

Wohler DM 2000 Digital Manometer

→ Accessories on page 41

Wohler DM 2000 Digital Manometer

Part no. 7006

US Version

5 ft. hose

S Version
ohler DM 2000 Digital Manometer
ft. hose
bber boot
and loop
atteries (installed)
arrying case
Accessories on page 41
art no. 7335

Accessories		Part no.
	Wohler Air Temperature Probe, plug A 500 / A 97 / E 98 / DC 100 / DC 2000 / DM 2000	9605
	Air Temperature Probe, 4" probe 4 ft. cable A 500 / A 97 / E 98 / DC 100 / DC 2000/ DM 2000	9651
	Combustion Air temperature probe, 11" for Wohler DM 2000 / Wohler A 550 with 5 ft. cable	9611
	Magnetic rubber boot for Wohler DM 2000 / DC 2000	7202
	Carrying Case Internal size 9.6" x 6.3" x 2.6" mini plastic case with protection foam	7204
	Handloop Hand Loop w/ swivel E98	9805

WÖHLER

Wohler DC 410FLOW **Pressure Differential & Flow Meter**



APPLICATION

- One instrument for measurement of pressure, air flow, temperature and relative humidity
- Is tested to comply with standards for 'Ventilation for buildings – test procedures & measuring methods for handing over installed ventilation and air conditioning systems'

ADVANTAGES:

- Brillant full colour OLED display
- Technician friendly one hand operation with 4 button keypad
- Highly accurate with 'no drift technology'
- Pressure resolution of 0.01 inch WC
- Differential temperature with two probes
- Data logger function
- USB port

TECHNICAL DATA Differential Pressure: ...± 40 inWC Range:.... Accuracy:.. ...± 3 % o.r., absolute ± 0.002 inWC Resolution:. ..0.001 inWC between +4.000 inWC: 0.01 inWC Air speed: ...0.3 m/s to 120 m/s Continuous density correction: automatic, with temperature signal Temperature (internal sensor):0 °F to 150 °F Range:....± 2 °F Accuracy:. Resolution:. ...0.1 °F External temperature probe: ...2 channels, 0°F to 1,472 °F Range:... Accuracy:.. ... ± 1.5% o.r., absolute 4 °F ...0.1 °F Resolution: Relative humidity: Range:... ...0 % bis 100 % r.H. (relative humidity), non condensing $.. < \pm 2 \%$ r.H., at 0 to 90 % r.H., Accuracy:.. otherwise < 3 % r.H. Resolution: ...0.1 % r.H. **Barometric Pressure:** ... ± 120.44 inWC bis 441.61inWC Range:... ...< ± 0.60 inWC Accuracy:.. ...0.04 inWC Resolution: Batteries: ..4 AA rechargeable batteries or 4 AA disposable batteries .USB interface for data transfer to a PC. It is possible to transfer the data directly from the meter to the Wohler TD 100 Thermal







Wohler DC 410^{FLOW} US-Version Standard Version

Operating temperature:....41...104 °F

..3.2" x 9" x 2.4"

Wohler DC 410^{Flow} Pressure Differential & Flowmeter rechargeable batteries

charger

2 capillary hoses

plastic case

→ Accessories on page 43

Part no. 9286

Accessories		Part no.
F	S-Tube Probe for Wohler DC 4xx for measuring the flow speed, including: temperature probe	9244
	Pitot tube for Wohler DC 410 and Wohler DC 2000PRO	
\	length 14", 0.3" diameter	9487
	length 20", 0.3" diameter	9488
	length 39", 0.3" diameter	9489
Accessories		Part no.
	Wohler Flexible Capillary 3 m Wohler A 400, A 600, DC 100PRO, DC 410	4515
	for differential pressure measurement between adjoining rooms. 1 x capillary hose 3 m, connector, silicone hose	
	Wohler TD 100 Thermal Fast Printer	4160
	Infrared printer with 1 roll thermal paper and four batteries	
	Thermal Paper 57 mm width, 10 rolls for thermal printer Wohler TD 100 and TD 600	4145
ccessories		Part no.
6	Surface Temperature Probe for Wohler DT 310 / A 400 / DC 410Flow	6679
	with clamp, range up to 212 °F, clamp for pipes 0.2" - 1.4" diameter	
	Special Wall Temperature Probe Type W-02 for Wohler A 400 or Wohler DT 310	4651
0	Special Wall Temperature Probe Type W-02 angulate for Wohler DT 310 / A 400 / DC 410Flow	4718
	Surface tempeature probe TF1 for Wohler A 500 / DT 310 / DC 410 ^{Flow} Thermoelement type K, up to max. 392 °F	6625
	Surface temp. probe TF2 for Wohler A 500 / DT 310 / DC 410Flow Thermoelement type K, up to max. 932 °F	6626
	Surface temp. probe TF3 angulate for Wohler A 500 / DT 310 / DC 410Flow Thermoelement Typ K, up to max. 932 °F	6628
	Penetration temp. probe TF4 for Wohler A500 / DT 310 / DC 410 ^{Flow} Thermoelement type K, up to max. 1,112°F	6629
-	Flue gas temp. probe TF5 for Wohler A 500 / DT 310 / DC 410Flow	6635

Thermoelement type K, up to max. 1,652°F

WÖHLER

Wohler GS 220 Gas Sniffer



TECHNICAL DATA Sensitivity: .40 ppm Indicators: ..acoustic signal and optically by stage-LED Flex holder: Warm up time: ...max. 50 sec Refresh time: ...2 sec. 23 113 °F Work temperature:4 AA batteries, 1.5 V Supply: ...6.6" x 2.5" x 1.4"

..1.5 lbs

APPLICATION

Weight:

- Leakage detection at gas lines
- Examination of heating systems and exhaust ways on combustible gases

ADVANTAGES:

- Calibrated for methane (CH4) and liquid petrol gas (LPG) (2 indicator scales)
- Optical and acoustical output
- 16" flexible goose neck for easy access of hard to reach spots
- · Highly sensitive and fast response

Wohler CM 220 CO-Meter



APPLICATION:

- Test CO leakage from furnaces, water heaters, stoves
- Measurement of CO concentration in the ambient air
- MWC-Value-Measurement (Maximum Workplace Concentration)

ADVANTAGES:

- Quick response for testing safe entry conditions
- Easy operation-one button, manual
- · Visual and acoustic indicators
- Backlight
- Precise electrochemical sensor
- · Calculation of the MWC-value (Maximum Workplace Concentration)

TECHNICAL DATA

..0...999 ppm Range: .. ±20 % at 0...99 ppm Accuracy: ±15 % at 100 - 500 ppm Resolution: ..3 AAA batteries Supply:.. ..up to 60 sec. ...5 - 99 % r.H. **Humidity range:** (non-condensing) .-40...158 °F Operating temp.:. ...14...140 °F ..6.9" x 1.9" x 1.1" ..0.5 lbs

Wohler CM 220 CO-Detector

Wohler CM 220 CO-Detector

Part no. 6613

Wohler TI 410 Dew Point Indicator



APPLICATION:

· Testing for backdraft conditions between the chimney and the boiler room.

ADVANTAGES:

- · Ssmall sensor plate for inaccessible locations
- Reliable result through 3 indicators: visual, audible and temperature raise

TECHNICAL DATA

Temperature:

Range:.. .-40...212 °F ...0.1 °F Resolution: Accuracy:. ..0.1 °F

Size:

..4.8" x 2.4" x 1" Housing: Flexarm: .. Sensor plate: ..0.4" x 1.2" Weight:9 V block battery Supply: .

Wohler TI 410 Dew Point Indicator with 17" flex arm

Wohler TI 410 Dew Point Indicator

Part no. 6808



Part no. 6606

7.3" gooseneck

batteries

plastic case

Wohler GS 220 Gas Sniffer Wohler GS 220 Gas Sniffer



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- 51 Wohler IR Hygrotemp 24
- 52 Wohler TA 420 Thermoanemometer
- 53 Wohler RF 220 Hygrotemp
- 54 Wohler CDL 210 CO₂-Datalogger
- 55 Wohler KM 410 Indoor Air Quality Meter

56 AIR SPEED MEASUREMENT

- 56 Wohler FA 410 Fan Anemometer NEW
- 57 Wohler FA 430 Fan Anemometer NEW

PRODUCT OVERVIEW IAQ/BUILDING













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Wöhler DT 310
Differential Temperature
Meter

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Wöhler IR Temp 210
Infrared Thermometer
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Wöhler IR Hygrotemp 24

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Wöhler TA 420 Thermoanemometer

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Wöhler RF 220 Hygrotemp

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Wöhler CDL 210 CO₂-Datalogger

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Wöhler KM 410 Wöhler FA 410 WW Fan Anemometer

Wöhler FA 430 NEW Fan Anemometer

page 57

• (room)

APPLICATION							
Air velocity / flow rate in ductwork				•			
Differential temperature measurement, e.g. flow/return	•		•				
Evaluation of the efficiency of an air ventilation system						•	•
CO-impact in rooms, workplaces & garages							•
Air humidity measurement in rooms & air ducts			• (room)		•	• (room)	• (room)
Surface temperature measurement	•	•	•				
Building material moisture measurement			•				
Mold potential			•				
MEASURED VARIABLES/INSTRUMENT TECHNOLOGY							
Air velocity				•			
Elouveto							

Temperature
Air humidity
Dew Point/Wet bulb temperature
CO ₂
CO

Datalogger
PC-Software

CO ₂			
CO			
Data-interfac	e printer, PC		

-
• (PC)

•	
•	

• (printer)

•	
•	



• (PC)	• (PC)	
•	•	
•	•	

Wohler DT 310 Differential Temperature Meter



APPLICATION

- Simple measurement of differential temperature
- Temperature measurement of flow and return surface temperature of water and flue lines

ADVANTAGES

- Display of differential temperature (two probes required)
- Simultaneous display of both temperature readings
- Optional temperature probes, classes K, J, T
- Run / Hold Function
- Back light
- MIN and MAX memory with date and time stamp



-2001,200 °F	
1,2002,500 °F	
-200930 °F 0.1 °F 9301,400 °F 1 °F	
9301,400 °F 1 °F	
complete range 0.1 °F	
2002,500 °F ± 0.3 % f.m.	
+ 0.7 °F	
2001,400 °F ± 0.3 % f.m.	
+ 0.7 °F	
-200734 °F ± 0.3 % f.m.	
+ 0.7 °F	
1 x 9 V Block battery	
1 x 9 V Block battery 085 % RH (not condensing)	
32122 °F	

Wohler DT 310 Differential Thermometer

Wohler DT 310 Differential Thermometer

2 surface probes (type K)
battery
plastic carrying case

Part no. 6622

Temperature Probes	s	Part no.
6	Special Wall Temperature Probe Type W-02 for Wohler A 400 or Wohler DT 310	4651
	Surface tempeature probe TF1 for Wohler A 500 / DT 310 Thermoelement type K, up to max. 392 °F	6625
	Surface temp. probe TF2 for Wohler A 500 / DT 310 Thermoelement type K, up to max. 932 °F	6626
	Surface temp. probe TF3 angulate for Wohler A 500 / DT 310 Thermoelement Typ K, up to max. 932 °F	6628
	Penetration temp. probe TF4 for Wohler A500 / DT 310 Thermoelement type K, up to max. 1,112 °F	6629
	Flue gas temp. probe TF5 for Wohler A 500 / DT 310 Thermoelement type K, up to max. 1,652 °F	6635
6	Surface Temperature Probe for Wohler DT 310 / A 400 / DC 410 ^{Flow} with clamp, range up to 212 °F, clamp for pipes 0.2" - 1.4" diameter	6679

Wohler IR Temp 210 Infrared Thermometer



APPLICATION

Non-contact temperature measurement of surfaces

ADVANTAGES

- · Detection of heat sinks
- Measurement focus ratio Ø 10:1
- Laser-pointer
- Back light
- Adjustable emission factor
- Quick response time

TECHNICAL DATA

Range	40+932 °F
Accuracy	±2 % o.r., absolute ±4 °F
Resolution	0.1 °F
Reaction time	500 msec.
Display	LCD, 3 figure
Emission factor	0.30 - 0.99 adjustable
Supply	9 V battery
Size	7" x 3" x 2"

Wohler IR Temp 210 Infrared Thermometer

Wohler IR Temp 210 Infrared Thermometer

battery hand loop

Part no. 6612

Wohler IR Hygrotemp 24



APPLICATION

- Non-contact surface temperature measurement
- Measurement of air temperature and relative humidity
- Dew point and wet bulb calculation

ADVANTAGES

- One instrument for evaluation of the room climate
- Determination of air temperature, humidity and wall temperature via infrared measuring
- IR temperature measurement ratio 8:1
- Adjustable emissivity factor 0.30...0.99
- Calculation of dew point temperature, temperature difference, wet bulb temperature and dew point distance temperature

TECHNICAL DATA

Temperature range4...140 °F

Accuracy	±1°F
Resolution	0.1 °F
Infrared Temperatue range: -40932 °F	
Accuracy	= - /,
	± 4 °F between
	-4842 °F;
	$\pm 3\%$ or ± 3 °C f.m.
Resolution	0.1 °F
Response time	500 msec.
Ratio	8:1
Humidity range	0 to 100% (not
	condensing), ± 3 % at
	1090 %, rest ± 5 %
Resolution	0.1 %
Wet bulb temperature	8 to 122 °F
Emission factor	0.300.99 adjustable
Display	3 line LCD
Current supply	4 x 1.5 V AAA battery
Size	7" x 2" x 3"
Weight	0.6 lbs (without case)

Wohler IR Hygrotemp 24

Wohler IR Hygrotemp 24

batteries

plastic case

Part no. 6603

Wohler TA 420 Thermoanemometer



APPLICATION

· Measurement of airspeed, flow and temperature

ADVANTAGES

- 2 simultaneous values
- Telescopic probe
- Auto-off function



TECHNICAL DATA Flow velocity ..0.2 - 20.0 m/sec Range .. 0.7 - 72.0 km/h Resolution ...0.1 m/sec 0.1 km/h Accuracy.. ..+5% Flow rate ..0 - 1,271,329.2 cfm Range0.035 - 35.31 cfm Resolution Accuracy... ...0.00 - 30.0 m² Air temperature ...0 – 122 °C 32 °F - 122 °F Resolution ...0.1 °C 0.1 °F ...± 33.44 °C Accuracy... ± 1.5 °F ..8" x 3" x 1.5" Size ..1.14 lbs **Current supply** ..4 x AA batteries



Wohler TA 420 Thermoanemometer

Wohler TA 420 Thermoanemometer telescope tube 4 batteries 1,5 V Typ AA plastic case

_	_				
Par	ь н	•	7. T	м.	n
		ш.	44	• 11	

Air Flow Funnels		Part no.
φ	Air Flow Funnel K120 for Wohler A 600 / TA 420 range 29.43 - 706.32 cfm size 1.5 x 1.5 x 2 ft	53789
p	Air Flow Funnel K35 for Wohler A 600 / TA 420 range 5.886-235.44 cfm size 0.7 x 0.7 x 1 ft	53794
φ.	Air Flow Funnel K 75 for Wohler A 600 / TA 420 range 17.658 - 441.45 cfm size 1 x 1 x 1.2 ft	53793
φ.	Air Flow Funnel K 150 for Wohler A 600 / TA 420 range 29.43 - 1,177.2 cfm size 1.8 x 0.3 x 2 ft	53788

Wohler RF 220 Hygrotemp



APPLICATION

- Quick test of relative humidity within buildings and offices
- Air conditioning test
- Building inspection for mold and other humidity related problems
- The dew point and wet bulb temperature are calculated online from the current air humidity and temperature

ADVANTAGES

- Remote probe
- Hold function
- Min/max/average memory
- Backlight

TECHNICAL DATA

Range Rel.Humidity ...0...99 % r.H. ...14...140 °F Temperature-100...140 °F Dew point8...140 °F Wet bulb temp.

Accuracy .. ± 3 % r.H. (10 - 90 %) Rel. Humidity otherwise ± 5 % r.H. ..± 1 °F

Storage temperature0...+140 °F Operating temperature 32...112 °F .. 0.6 lbs

Wohler RF 220 Hygrotemp

Wohler RF 220 with probe

4 x AAA batteries

Temperature ..

plastic carrying case

Part no. 6615

Accessories Part no. 6605 **Calibration Set**



WÖHLER

for Wohler RF 220 / KM 410 33% and 75 % humidity reference

not for IR Hygrotemp 24!

Relative Humidity Remote Probe Wohler RF 220

6624

Wohler CDL 210 CO₂-Datalogger





TECHNICAL DAT	A
Resolution:	0 - 2,000 ppm 1 ppm ± 50 ppm ± 5 %
PF-Measurement Range Resolution: Accuracy:	0.1 °F
Resolution	5 - 95 % r.H.
List of measurement	t readings 5,300 readings
Logrates	3/10/30 Sec. 1/3/10/30 min. 1/3/4 h.

APPLICATION

- · Determination of the indoor air quality through combination of measurement and identification of:
- The CO₂-concentration
- The air temperature
- The air humidity
- For CO₂-monitoring of:
- Housing spaces (comfortableness, humidity problems, etc.)
- · Conference rooms and lounges (e.g. schools)

ADVANTAGES

- · Comfort level indicator with adjustable alarm values
- · Acoustical and visual alarm function with adjustable limit
- Large display to show CO_a, humidity, temperature, date/time
- Max/Min-values
- Infrared-CO_a-measurement
- Automatic calibration function
- Non-volatile memory

Wohler CDL 210 CO₂-Datalogger CO₂, humidity and temperature

Wohler CDL 210 CO, Datalogger

power supply data cable

Part no. 6648

PC software

Wohler KM 410 Indoor Air Quality Meter







APPLICATION

The Wohler KM 410 Indoor Air Quality Meter is the perfect instrument for verifying HVAC system performance and air ventilation control.

It measures:

- CO₂-content
- Air temperature
- Air humidity
- CO-content
- Dew point
- Wet bulb temperature

V CO2 V TL V ↔ V TP V CO

WÖHLER

ADVANTAGES

- · Big LC display with blue backlight to use in dark area
- Acoustical and visual alarm function
- Max/Min-values
- · Hold function freezes current readings
- · Mini USB output to PC for analysis
- Data logger

Wöhler KM 410

15:00:00 17:00:00 19:00:00 21:00:00 23:00:00 01:00:00 30:08:2011 30:08:2011 30:08:2011 30:08:2011 30:08:2011 30:08:2011

0 - 5,000 ppmResolution. .1 ppm . ± 30 ppm ± 5 % Accuracy . Warming phase. .30 sec Response time. .<30 sec CO-Measurement 0.0 - 1,000 ppmResolution .± 10 ppm or less than 100 ppm ± 10 % between 101-500 ppm \pm 20 % more than 501 ppm Response time .<60 sec. Temperature .-5 °F...140 °F Resolution. ..0.1 % r.H. Accuracy . .± 0.9 °F Relative air humidity Range . .0.1...99.9 % r.H. .0,1 % r.H. Resolution . ± 3 % at 10 to 90 % r.H. and 77 °F, ± 5 % r.H. at other readings and 77 °F .<10 sec Response time Operating temp ..32 °F... 112 °F .. 23 °F... 140 °F, Storage temp. 10-90 % rH non-condensing . 4 AA-batteries or **Current supply** mains operation via a 9 V-DC-adapter (not included in delivery) ..USB-interface .6,000 records .1s...4h49m59s Logrates ..8.2" x 2.8" x 2.2"

.0.5 lbs

TECHNICAL DATA

Wohler KM 410 IAQ Instrument CO₂, CO, humidity and temperature Wohler KM 410 IAQ Instrument

4 AA-batteries

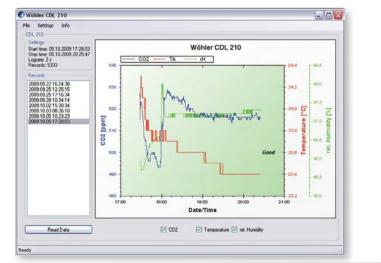
USB data cable

PC software

manual

plastic case

Part no. 4280



Wohler FA 410 Fan Anemometer NEW



AIR SPEED MEASUREMENT | WOHLER FA 410



APPLICATION

- Measurement of air speed, temperature and humidity at the air vents
- · Detection of air leaks
- Integrated measurement of volume
- · Direct measurement of volume flow at air vents in combination with the cone

TECHNICAL DATA

Range	
Flow velocity	
Valuma flau	

..39.3...5,906 fpm ..0 - 58.000 cfm -4...140 °F Temperature.

Flow velocity

..20 fpm Volume flow ..0...99,999 cfm Temperature.

Accuracy

 $..\pm (1.5 \% \text{ of reading} + 0.3 \text{ m/s})$ Flow velocity for under 20 m/sec. \pm (3 % of reading +0.3 m/sec) for above 20 m/sec

+ 33 08 °F Temperature.

Operating conditions (to avoid condensation)

...32 - 122 °F, < 90 % RH

..14 - 122 °F, < 90 % RH

4 micro batteries AAA

.10.6" x 4.2" x 2"

Fan diameter

Weight (without funnel) 0.6 lbs

ADVANTAGES

- · Easy handling with automatic identification of the cone
- Measurement report via IR-transfer to the Wohler TD 100 Thermal Fast Printer
- Hold-Function
- Selectable units: m/sec, fpm, m³/h, CFM, °C, °F, cm², Inch²
- · Wohler Telescope Handle e.g. for ceiling vents
- · Parallel measurement of volume flow, air velocity and air temperature
- Backlight LC display

Wohler FA 410 Fan Anemometer Set with Wohler FA 4xx Measuring Funnel Set

Wohler FA 410 Fan Anemometer

4 x AAA batteries

plastic case

Wohler FA 4xx measuring Funnel Set with rectangular and round measuring funnel in a handy carrying bag; funnels can be clipped onto the fan anemometer rectangular funnel: 1 x 1 ft round funnel: 0.7 ft diameter

Part no. 4146 Part no. 4155

Wohler FA 430 Fan Anemometer NEW



APPLICATION

- · Measurement of air velocity, temperature, humidity, CO_o at the air vents
- Integrated measurement of flow rate
- Direct measurement of flow rate at the air nozzle in combination with a funnel
- · Determination of the inlet and exhaust air quality

ADVANTAGES

- Two measurements in one step: determination of flow rate and evaluation of the inlet and exhaust air quality via CO_a,
- · Easy handling with automatic identification of the cone
- Measurement report via IR-transfer to the Wohler TD 100 Thermal Fast Printer
- · Wohler Telescope Handle e.g. for ceiling vents
- Selectable units: m/sec, fpm, m3/h, CFM, °C, °F, cm², Inch², ppm, %, RH, WBT, DP
- Determination of the dew point and wet bulb temperature
- Hold-Function
- Min-/Max-Function
- Backlight LC display
- · Simultaneous measurement of wet bulb temperature and dew point

TECHNICAL DATA

Flow velocity	39.3 – 5,906 fpm
Volume flow	0 - 58.000 cfm
Temperature	4 °F − 140 °F
Relative humidity	0.1% - 99.9%
Dew point	4 °F – 139.82 °F
Wet-bulb temperature	4 °F – 139.82 °F
CO	0 - 9 999 nnm

Resolution

Flow velocity	.20 fpm
Volume flow	.0.1 99,999 cfm
Temperature	.0.1 °F
Relative humidity (RH)	.0.1 %
Dew point	.0.1°F
Wet-bulb temperature	.0.1°F
CO ₂	.1 ppm

Accuracy

Flow velocity±(1.5 % of readility +
0.3 m/s) for under 20 m/s,
\pm (3 % of reading + 0.3 m/s) f
above 20 m/s
Temperature33.08 °F
Relative humidity± 3 % (at 77 °F),
otherwise ± 5 %
CO ₂ ± 30 ppm ±5 % of reading
(0 - 5,000 ppm)

CO, warm-up time... ..30 seconds

Operating conditions

(to avoid condensation) $32 - 122 \, ^{\circ}F$, $< 80 \, \%$ RH

..14 °F – 122 °F, < 90 % RH Storage conditions

.4 micro batteries AAA **Power Supply** .10.6" x 4.2" x 2"

Fan diameter

Weight (without funnel) 0.6 lbs



Wohler FA 430 Fan Anemometer Set with Wohler FA 4xx Measuring Funnel Set

Wohler FA 430 Fan Anemometer

4 x AAA batteries

plastic case

Wohler FA 4xx Measuring Funnel Set with rectangular and round measuring funnel in a handy carrying bag; funnels can be clipped onto the fan anemometer rectangular funnel: 1 x 1 ft round funnel: 0.7 ft diameter

Part no. 4156

Wohler FA 430 Fan Anemometer incl. CO₂-Measurement

Wohler FA 430 Fan Anemometer

4 x AAA batteries

plastic carrying case

Part no. 4147

WÖHLER

Wohler FA 410 Fan Anemometer

Wohler FA 410 Fan Anemometer

4 x AAA batteries

plastic carrying case



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PRODUCT OVERVIEW VISUAL INSPECTION

APPLICATIONS

Dry environments - e.g. Flue Gas Systems.:

5" dia or larger





page 62-67



Wohler VIS 350 Visual Inspection System

page 68-73



Wohler VIS 400 Modular Visual Inspection System page 74-84



Miniature Color Camera Head 1" dia page 79



Pan & Tilt Color
Camera Head
1 1/2" dia

Pan & Tilt
Color Camera Head
2" dia

page 79

page 79



Wohler Camera Viper with push rod

page 80



Wohler Cable Reel with soft video cable

page 80

	4" dia to 5" dia	•	•	•	•	•	•	•	• (1)
	3" dia to 4" dia	•	•	•	•	•	• (2)		• (1)
	1.5" dia to 3" dia	•		•	•				• (1)
Wet environments -	- e.g. Waste Water Pipes: 5" dia or larger		• (4)	•		• (4)	• (3)	•	
	3" dia to 5" dia	• (4,5)	• (4)	•		• (4)	• (2, 3)	•	
	1.5" dia to 3" dia	• (4,5)		•	● (4, 5)				
Twin walls, cavatie	es, ducts		•	•		•	•	•	
FEATURES									
Video Memory		2 GB SD-Card (VIS 250)	2 GB SD-Card (VIS 350)	2 GB SD-Card					
DM = Digital Meter	er Counter (Increments of 0.10 ft)	DM	DM	DM with Camera Viper or Cable Reel				DM	DM
Video Output		RCA	RCA	RCA					
Built-in sonde for le	location (8.9 kHz)	with Wohler L 200 Locator	with Wohler L 200 Locator		with Wohler L 200 Locator	with Wohler L 200 Locator			
Audio recording				•					
TECHNICAL DATA	Α								
Monitor:	Display	7" TFT	7" TFT	7" TFT					
	Battery Voltage & Technology / Main Supply	1 x 12 V NiMH battery (Space to store 2 rechargeable NiMH batteries) / Main Supply	2 x 12 V NiMH batteries / Main Supply	1 x 12 V NiMH battery / Main Supply					
	Operation Time with batteries	1 x 120 min = approx. 2 h	2 x 120 min = approx. 4 h	approx. 2 h					
Camera Head:	Dimensions	1" x 1.5"	Ø 1.5" x 2.4"		1" x 1.5"	1.5" x 2.4"	2" x 4"		
Carriora Froda.									
Curriora Froda.	Pan-and tilt range		360°/180°			360°/180°	360°/180°		
Cantora ricaa.	Pan-and tilt range Protection class	IP 68 ⁽⁵⁾	360°/180° IP 67		IP 68 ⁽⁵⁾	360° / 180° IP 67	360°/180° IP 64		
cano a ricad.		IP 68 ⁽⁵⁾ 120°			IP 68 ⁽⁶⁾ 120°				
Cumora ricad:	Protection class		IP 67			IP 67	IP 64		
Cable/Push Rod:	Protection class Field of View (FOV) Lighting	120°	IP 67		120°	IP 67	IP 64 98° x 75° 4 x bulbs,	100 ft, 0.27"	100 ft, 0.2"
	Protection class Field of View (FOV) Lighting	120° 12 x LED white	IP 67 120° 12 x LED white	8" x 8" x 1.6" (without bag)	120°	IP 67	IP 64 98° x 75° 4 x bulbs,	100 ft, 0.27" 16" x 4"	100 ft, 0.2" 14" x 4"

CLEAR VIEW, WHEN SPACE IS TIGHT NEW

Wohler VIS 200/250 - Visual inspection, distance measurement and built-in sonde

Wohler's innovative VIS 200/250 Visual Inspection System enables you to easily view damage in pipes of 1 1/2" dia and larger – no power outlet required. Compact by design and powered by a rechargeable battery, this complete camera-system is contained in a robust plastic case. The camera head features a powerful, integrated light to allow you to clearly view damage in waste water pipes (at least 1 1/2" dia) and inspect downpipes as well as flue gas lines. Absolutely essential for locating obstructions or damage quickly!





















WIDE RANGE OF APPLICATIONS

Locate damage and inspect:

- Waste water pipes of 1 1/2" dia and larger
- Ventilation lines of 1 1/2" dia and larger
- · Inspect hollow spaces, e.g. in front-wall installations
- Flue gas lines up to approx. 6" dia

FUNCTIONALITY

- Waterproof, light-sensitive camera head with a diameter of just 1" easily takes bends in stride
- Store video footage on a 2 GB SD card (Wohler VIS 250)
- Digital Indication of the camera head angle (Wohler VIS 250)
- Electronic distance measurement displayed on monitor
- Fully equipped mobile solution in a robust, plastic case
- · Does not require main power supply
- Bright TFT color monitor for razor-sharp images
- Tiltable and removable monitor with 6' cable
- Integrated video output for documentation purposes
- Battery operating time: 120 min. (second rechargeable battery optional)
- Transmitter (8.9 kHz) integrated into camera head for locating
- Data exchange via mini USB cable (Wohler VIS 250)

LOCATOR (OPTIONAL)

- Transmitter integrated in camera head makes it possible to precisely locate the camera head
- Facilitates targeted repairs to damaged pipelines
- Telescopic holder makes it possible to locate damage under floors or in ceilings
- Chalk holder with lithographic chalk makes it easy to mark located damage immediately
- Powerful rechargeable battery

DOCUMENTATION

Simply record and store photos and videos on a 2 GB SD card (Wohler VIS 250) for documentation and archiving purposes for you and your customers



TECHNICAL DATA

Vionitor	
Dimensions housing7" x 4.5" x 1.3	3"
FFT-display7" / 16:9 form	nat
/ideo outFBAS signal	

Miniature color camera head, 1" diameter

1,50
Resolution420 lines
Pixels
Light sensitivity0.5 Lux
Lensf = 0.09", F = 2.5
Viewing angle115°

Operation temperature......32...104 °F, RH 95 % MAX Storage temperature......4...122 °F, RH 95 % MAX

Push rod

ength	.100 ft.
Diameter	.0.24"
Distance measurement	digital distance meter

Plastic case

ensions	.20" x 17" x 7" (l x w x h)	
la+	1 E Ibo	

Locator receiver

Display......Graphic visualization of transmitted position

..13" x 6" x 3" (l x w x h)

Output impedance

Headphones	.32 Ohm
Power supply	.12 V NiMH battery (rechargeable)
Operating temperature	.32104 °F
Storage temperature	.14104 °F

Memory (Wohler VIS 250)

Recording	2 GB SD card (2.5 h recording capacity)
Interface	Mini USR nort

PRODUCT FEATURES

	Flues, ventilation lines, waste water pipes	
Wohler VIS	200	250
Features		
Color camera head 1" dia	•	•
Digital distance counter	•	•
Photo and video record		•
Menu		•
Video settings		•
Transmitter/Sonde	•	•
Angle and gravity indicator		•



with Wohler L 200 Locator **Wohler VIS 200 Visual Inspection System**

Visual inspection for sewer and water pipes, drain and flue lines, ductwork, etc.

with digital meter counter

miniature color camera head 1" dia, V2 NTSC

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft. push rod 0.24" diameter

100 ft push rod 0.24" diameter

1 guidance ball for flex part of camera push rod

Wohler L 200 Locator (Receiver)

heavy duty carrying case

1 NiMH batterie with charger

→ Accessories on page 66

Part no. 6261

100 ft NTSC Set

and flue lines, ductwork, etc.

with digital meter counter

7" TFT color monitor

1 anti- slide mat

Wohler VIS 200 Visual Inspection System

Wohler VIS 200 NTSC Visual Inspection System

anti-slide mat

1 NiMH battery with charger

1 guidance sleeve for mini camera head

heavy duty carrying case

→ Accessories on page 66

Part no. 8937

Wohler VIS 250 Visual Inspection System NEW

VISUAL INSPECTION | WOHLER 250 VISUAL INSPECTION SYSTEM



Wohler VIS 250 Visual Inspection System 100 ft NTSC Set

Visual inspection for sewer and water pipes, drain and flue lines, ductwork, etc.

Wohler VIS 250 NTSC Visual Inspection System with digital meter counter

miniature color camera head 1" dia. V2 NTSC

2 GB SD card and mini USB cable

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft. push rod 0.24" diameter

1 anti-slide mat

1 NiMH battery with charger

1 guidance sleeve for mini camera head

1 guidance ball for flex part of camera push rod

heavy duty carrying case

→ Accessories on page 66

Part no. 6253

Wohler VIS 250 Visual Inspection System with Wohler L 200 Locator

Visual inspection for sewer and water pipes, drain and flue lines, ductwork, etc.

INTEGRATED LOCATOR

Wohler VIS 250 NTSC Visual Inspection System with digital meter counter

miniature color camera head 1" dia, V2 NTSC

2 GB SD card and mini USB cable

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft. push rod 0.24" diameter

anti-slide mat

1 NiMH battery with charger

1 guidance sleeve for mini camera head

1 guidance ball for flex part of camera push rod

Wohler L 200 Locator (Receiver)

heavy duty carrying case → Accessories on page 66

Part no. 8932

Visual inspection for sewer and water pipes, drain

Wohler VIS 200 NTSC Visual Inspection System

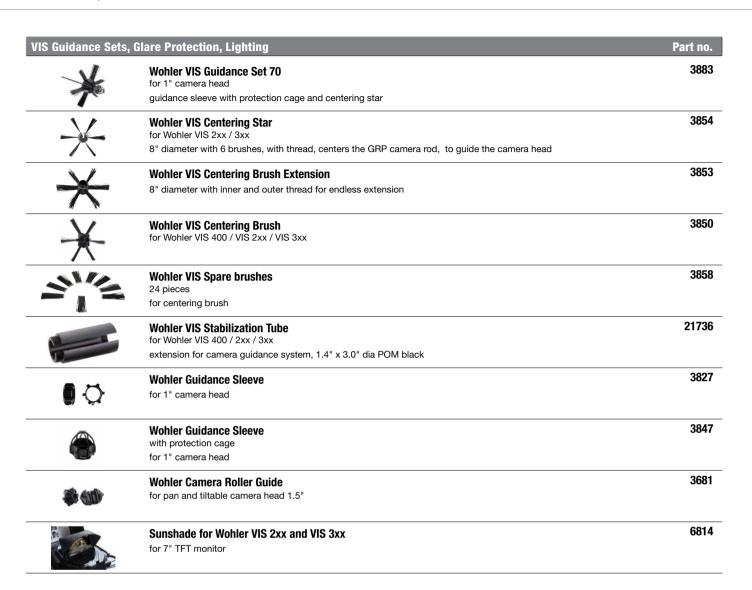
miniature color camera head 1" dia, V2 NTSC

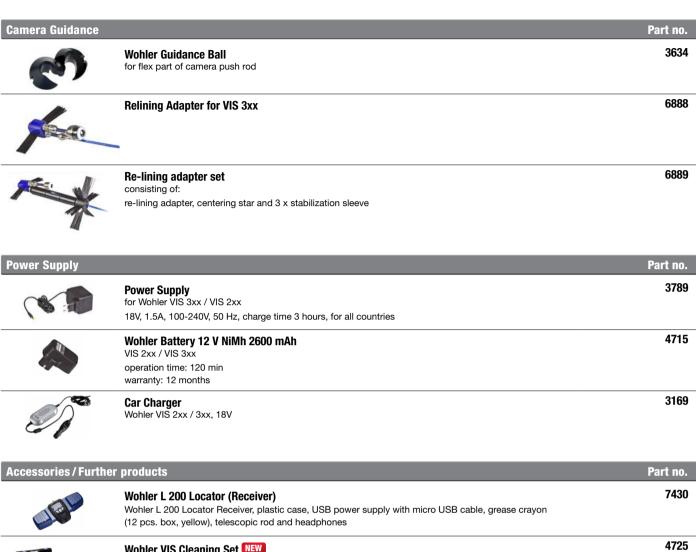
6 ft connection cable (removable monitor)

1 quidance sleeve for mini camera head

1 guidance ball for flex part of camera push rod

4726







Wohler VIS Cleaning Set NEW

34 oz disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 7 oz lubricant, plastic case; for approx. 50 applications.

Wohler VIS Cleaning Set Refill NEW

34 oz disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 7 oz lubricant, in plastic bag, for approx. 50 applications.

UNIQUELY CLEAR VIEW NEW

Unique pan & tilt camera head, position indicator, home function and sonde with the Wohler VIS 350

Visual inspection in a case: With the new Wohler VIS 350 camera system, you not only have everything you need to inspect waste water pipes, flue gas, ventilation lines and industrial piping - you can also precisely locate the damage and accurately document the results of the inspection.







head can easily be located with the new

Wohler L 200 Locator.



BRIGHT ILLUMINATION Thanks to the excellent lighting system of the color camera head, the camera supplies razor sharp images of even the darkest corners of the section under inspection.















WIDE RANGE OF APPLICATIONS

Locate damage and inspect:

- Waste water lines of 2" dia and larger
- · House connections up to 8" dia
- Flue gas systems of 2" dia and larger
- Ventilation lines of ventilation systems
- · False ceilings, hollow spaces, shafts

FUNCTIONALITY

- Optics pan 360° and tilt 180° providing maximum movement radius and insures even the smallest damage is not hidden
- Store video footage and photos on a 2 GB SD card (Wohler
- · Camera head with integrated transmitter facilitates camera head location detection with the Wohler L 200 Locator
- Digital position and angle of the camera head displayed on
- Home function aligns the camera head to a straight position display parallel to the ground above
- Brightly illuminating color camera head, 2" in length and 1 1/2" in diameter, easily negotiates tight bends
- Electronic meter counter in increments of 0.10 ft. displayed on the monitor
- Bright TFT color monitor (tiltable and removable) supplies razor sharp images
- Battery operating time: 2 x 120 min. with 2 rechargeable batteries included
- Fully equipped mobile solution in a robust plastic case

LOCATOR (OPTIONAL)

- Transmitter integrated in camera head makes it possible to precisely locate the camera head
- Facilitates targeted repairs to damaged pipelines
- · Telescopic holder makes it possible to locate damage under floors or in ceilings
- Chalk holder with lithographic chalk ensures it is possible to mark located damage immediately
- Long-lasting LI-ION rechargeable battery

DOCUMENTATION

Simply record and store photos and videos on a 2 GB SD card (Wohler VIS 350) for documentation and archiving purposes for you and your customers.

TECHNICAL DATA

Monitor
Dimensions housing7" x 4.5" x 1.3"
TFT-Display7" / 16:9 format
Video-OutFBAS signal
Weight1 lbs

Power Supply Power supply

.. Space for 2 rechargeable batteries, each 12 V or via power supply

Battery operating time.. .. Max. 2 rechargeable batteries, each 120 mins. = 4 h (battery status in display)

Pan & tilt 1.5" dia color camera head

Type	. 1/3" COLOR CIVIOS
Pixels	.656 x 492 (NTSC)
Light sensitivity	.0.5 Lux
Lens	.f = 0.09", F = 2.5
Viewing angle	.115°
Light source	.12 white LEDs
Degree of protection	. Waterproof to IP 67
Dimensions	.1 1/2" dia x 2"
Operating temperature	.32104 °F, RH 95 % MAX
Storage temperature	-4 122 °F RH Q5 % M∆X

Locator transmitter Transmission frequency

Push rod

Length ..

Diameter

Plastic case

Dimensions ..20" x 17" x 7" (l x w x h) Weight..

8.9 kHz

Distance measurement

Wohler VIS 350 / VIS 300......Electronic meter counter

Locator receiver

Display... .. Graphic visualization of transmitted position

Output impedance

Headphones. .12 V MiMH battery (rechargeable) Power supply. ..32...104 °F Operating temperature.

..14 °F...104 °F Storage temperature... Weight. Dimensions ..13" x 6" x 3" cm (l x w x h)

Memory (Wohler VIS 350)

...2 GB SD card (2.5 h recording capacity) Recording Interface . .. Mini USB port

PRODUCT FEATURES

	Chimneys, vents and waste water pipes	
Wohler VIS	350	350 ^{PLUS}
Features		
Pan and tilt color camera head 1.5" dia	•	•
Detachable 1" dia camera head		•
Digital distance measurement	•	•
Photo & video record	•	•
Menu/Video settings	•	•
Transmitter/Sonde	•	•
Angle and gravity indicator	•	•
Home-function	•	•

WÖHLER

Wohler VIS 350 VISUAL INSPECTION SYSTEM NEW



















The 1.5" diameter color camera head can be located with the Wohler L 200 Locator- more information see page 85

Wohler VIS 350 Visual Inspection System 100 ft NTSC

Viusal inspection for sewer and water pipes, drain and flue lines, ductwork, etc.

Wohler VIS 350 NTSC Visual Inspection System with attached 1.5" color pan & tilt camera head

video and still picture recording function

pan and tilt color camera head 1.5" dia. V2 NTSC

2 GB SD card

mini USB cable

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft. push rod (0.26" dia)

5 plastic domes

1 anti-slide mat

2 NiMH batteries with charger

heavy duty carrying case

→ Accessories on page 72

Part no. 7354

Wohler VIS 350 Visual Inspection System 100 ft push rod & detachable camera head

Visual inspection for sewer and water pipes, drain and flue lines, ductwork, etc.

Wohler VIS 350 NTSC Visual Inspection System with detachable 1.5" color pan & tilt camera head

video and still picture recording function

detachable pan and tilt color camera head 1.5" dia, V2 NTSC

2 GB SD card

mini USB cable

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft. push rod (0.26" dia)

5 plastic domes

1 anti-slide mat

2 NiMH batteries with charger

heavy duty carrying case

→ Accessories on page 72

Part no. 6352

Wohler VIS 350PLUS VISUAL INSPECTION SYSTEM NEW



















The 1.5" diameter color camera head can be located with the Wohler L 200 Locator - more information see page 85

1" color camera head and flue lines, ductwork, etc.

detachable 1.5" pan & tilt color camera head detachable 1" miniature color camera head

Wohler VIS 350Plus Visual Inspection System with 1.5" color pan & tilt camera head and

Visual inspection for sewer and water pipes, drain

Wohler VIS 350 NTSC Visual Inspection System with two camera heads

video and still picture recording function

detachable pan and tilt color camera head 1.5" dia, V2 NTSC

detachable miniature color camera head 1" dia incl. guidance sleeve

guidance ball for push rod

2 GB SD card and mini USB cable

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft. push rod 0.26" dia

5 plastic domes

1 anti-slide mat

2 NiMH batteries with charger

heavy duty carrying case

→ Accessories on page 72

Part no. 8927

Wohler VIS 350^{Plus} Visual Inspection System with 1.5" color pan & tilt camera head and 1" color camera head and Wohler L 200 Locator

Visual inspection for sewer and water pipes, drain and flue lines, ductwork, etc.

Wohler VIS 350 NTSC Visual Inspection System with two camera heads and Wohler L 200 locator

video and still picture recording function

detachable pan and tilt color camera head 1.5" dia, V2 NTSC

detachable miniature color camera head 1" dia, incl. guidance sleeve

guidance ball for push rod

2 GB SD card and mini USB cable

7" TFT color monitor

6 ft. connection cable (removable monitor)

100 ft push rod 0.26" dia

5 plastic domes

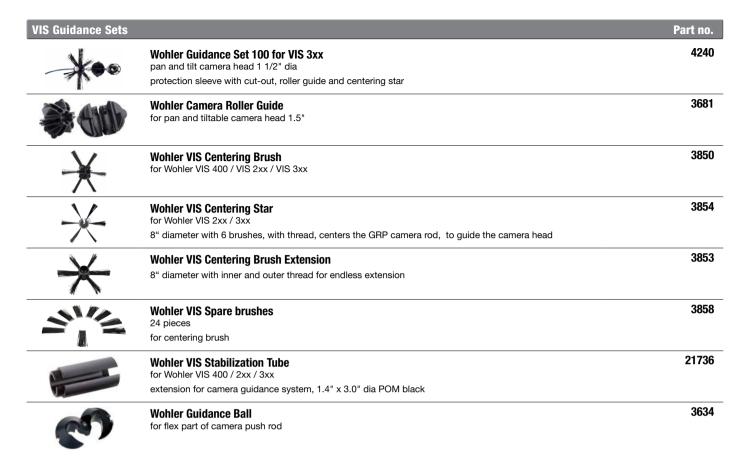
1 anti-slide mat

2 NiMH batteries with charger

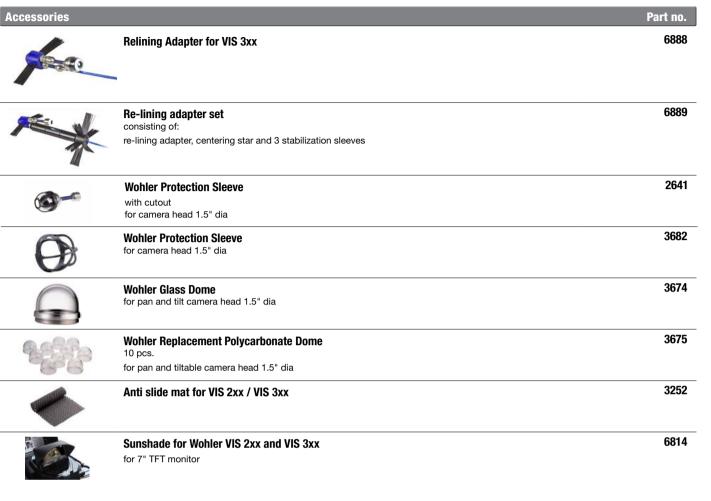
Wohler L 200 Locator

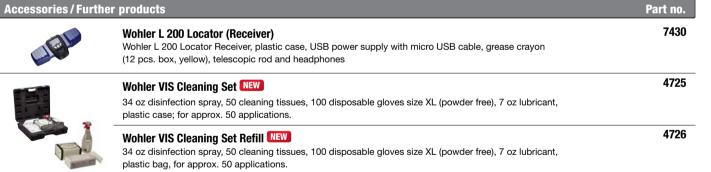
heavy duty carrying case → Accessories on page 72

Part no. 8931



Power Supply		Part no.
(Power Supply for Wohler VIS 3xx / VIS 2xx 18V, 1.5A, 100-240V, 50 Hz, charge time 3 hours, for all countries	3789
	Wohler Battery 12 V NiMh 2600 mAh VIS 2xx / VIS 3xx	4715
	operation time: 120 min warranty: 12 months	
	Car Charger Wohler VIS 2xx / 3xx, 18V	3169



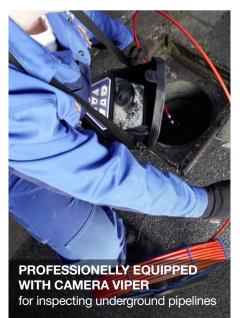


MODULAR POINT OF VIEW NEW

Wohler VIS 400 Modular Visual Inspection System

The carry strap around your neck and the monitor in front of your chest, one hand guides the camera cable, the other controls the camera head via the familiar Wohler keypad: That is how stable the new Wohler VIS 400 video inspection system is and how easy it is to work with while inspecting chimneys or inspecting house supply lines.

















WIDE RANGE OF APPLICATIONS

Analyze damage and visually inspect:

- Flue gas systems, chimneys
- · Building drains, house connections
- Ventilation systems

PRODUCT BENEFITS

- Modular system components are modular by design to support extensive expansion options
- Pan & Tilt color camera heads with integrated power lighting easily negotiate bends in the line
- · Voice recording allows you to document each inspection with verbal notes
- Mini USB port for data transfer

DOCUMENTATION

Integrated video output - simply record and store photos, videos and voice annotations on a 2 GB SD card for documentation and archiving purposes for you and your customers.

TECHNICAL DATA

..7" / 16:9 format TFT display. Video out . ..FBAS signal 12 V NiMH rechargeable battery, 2.000 mAh Power supply...

Battery operating time.... ... 2 h (battery status in display) .. Digital meter counter in conjunction with the camera viner and cable reel

... 2 GB SD card (2.5 h recording capacity) Interface . .. Mini USB port

Operating temperature.... 32 104 °F Storage temperature... -4...122 °F Dimensions housing

..8" x 8" x 2" without pouch .. Dimensions housing

9" x 9" x 3" with pouch... Weight.... .Without pouch 3 lbs; with pouch 4 lbs

Connection, stand... Standard

MODULAR SYSTEM DESIGN

Put your camera system together to suit your requirements and wishes. Select your components from the list below and more:







2" dia color pan & tilt camera head



1 1/2" dia color pan & tilt camera head



1" dia waterproof color camera head for smaller pipe diameters

CABLE REEL WITH SOFT VIDEO CABLE

VIPER REEL WITH A PUSH ROD

CAMERA HEADS



Wohler VIS 400 7" TFT monitor NTSC

Wohler VIS 400 7" TFT color monitor NTSC

leather protection bag with sunshade and shoulder

mini USB cable

Part no. 4106

2 GB SD card, charger, case

→ Accessories on page 79

Wohler VIS 400 Visual Inspection System NTSC Standard Kit

Wohler VIS 400 7" TFT color monitor NTSC with and pan and tilt camera head 2" dia

camera cable 100 ft

2 GB SD card

power supply

leather protection bag with sunshade and shoulder belts

plastic case

→ Accessories on page 79

Part no. 4133

Wohler VIS 400 Visual Inspection System – Chimney NEW



APPLICATION

- Bottom-up chimney inspection
- Inspection of vents and flues

ADVANTAGES

- 2" color pan & tilt camera head
- Additional LEDs "high beam" setting
- Modular system
- Available with push rod or video cable
- Incl. carrying belt and protection bag
- On- screen digital distance measurement



Wohler VIS 400 Visual Inspection System Viper Kit

Wohler VIS 400 7" TFT color monitor NTSC

pan and tilt color camera head 2" dia

stabilization sleeve for color camera head

2 GB SD card

camera roller guide with protection cage

camera viper with 100 ft push rod, 0.28" dia

leather protection bag with sunshade and shoulder

aluminium case XXL

→ Accessories on page 79

Part no. 4152

Wohler VIS 400 Visual Inspection System Reel Kit

Wohler VIS 400 7" TFT color monitor NTSC

cable reel with integrated distance measurement (resolution 0.05 m, shown on screen

camera holder for bottom-up chimney inspection

2 GB SD card

pan and tilt color camera head 2" dia with camera holder

replacement glass dome for camera head

camera cable 100 ft with distance counter

leather protection bag with sunshade and shoulder

aluminium case XXL

→ Accessories on page 79

Part no. 4153

2 GB SD card, charger, case

Wohler VIS 400 Video Inspection System – Cavities NEW



APPLICATION

• Inspection of cavities or machines

ADVANTAGES

- Incl. telescope with flex and stay
- gooseneck up to 11 ft



Wohler VIS 400 Cavity Kit USA with camera head 1" V2 NTSC

Wohler VIS 400 color 7" TFT monitor NTSC

camera head 1" V2 NTSC

telescopic pole with gooseneck 3-5 ft

plastic case

→ Accessories on page 79

Part no. 7783

Wohler VIS 400 Cavity Kit USA with 1 1/2" pan & tilt head V2 NTSC

Wohler VIS 400 color 7" TFT monitor

pan & tilt camera head 1 1/2" V2 NTSC

telescopic pole with gooseneck 3-11 ft

→ Accessories on page 79

Part no. 7784



mera Heads		Part no.
9	Wohler Camera Head 1 1/2" dia, V2 NTSC, detachable with leather bag	8926
0	Wohler Camera Head 1" dia, V2 NTSC, detachable with leather bag	8934
	Wohler Camera Head 2" dia NTSC, detachable with leather bag	7853

Domes for Camera Head 2" dia		Part no.
	Wohler Replacement Glass Dome for Wohler 2" pan & tilt camera head	7802
	Replacement Glass Dome with protection cage for Wohler 2" pan & tilt camera head	3494
	Plastic domes for 2" camera head pack of 5 pieces	7075

Protection Sleeves & Domes for Camera Head 1 1/2"dia		
	Wohler Protection Sleeve with cutout for camera head 1.5" dia	2641
0	Wohler Protection Sleeve for camera head 1.5" dia	3682
	Wohler Glass Dome for pan and tilt camera head 1.5" dia	3674
	Wohler Replacement Polycarbonate Dome 10 pcs. for pan and tiltable camera head 1.5" dia	3675

for Wohler VIS 400

Part no. 7430

Camera Cable

Wohler VIS 400 Camera Cable
with distance marking



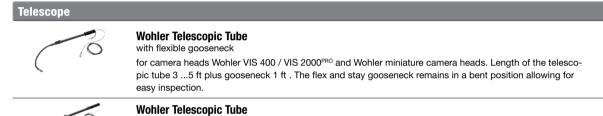
 with distance marking
 32 ft, extension cable
 8636

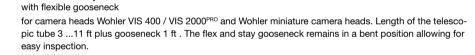
 65 ft
 9172

 100 ft
 7812

 165 ft, without distance marking
 7845

Camera Rods		Part no.
	Wohler GRP Camera Rod (2x Wohler 8-pin plugs)	
	red rugged, 0.28" dia, 65 ft long	7829
	red rugged, 0.28" dia, 100 ft long	7306
	Special Cable Connector	9184





Camera Viper and Cable Reel		Part no.
	Wohler Camera Viper 42 with digital distance counter	
	with GRP camera rod red, 0.28" dia, 98 ft long	7307
and the same of th	with GRP camera rod red, 0.28" dia, 65 ft long	7309
	Wohler VIS 400 Cable Reel with integrated distance measurement (shown on monitor display), shoulder strap and connection cable to monitor, without video cable	7816



Wohler Camera Rod Reel 42 with digital distance counter for GRP camera rod 0.26" dia, 98 ft long (comes without camera rod) ACCESSORIES | WOHLER VIS 400 MODULAR VISUAL INSPECTION SYSTEM

Woh!

Localization

Wohler L 200 Locator (Receiver)

Wohler L 200 Locator Receiver, plastic case, USB power supply with micro USB cable grease crayon (12 pcs. box, yellow), telescopic rod and headphones

Guidance Sets for	Wohler Camera Head 2" dia	Part no.
***	Wohler VIS Guidance Set 150 for 2" camera head protection cage, stabilization sleeve, centering star and centering star extension	3882
	Wohler VIS Guidance Set 110 for 2" camera head camera roller cage with protection cage and stabilization sleeve with star holder	3881
	Wohler Camera Spring Guide for 2" camera head for centering of the camera head in vertical vents. A stainless steel spring prevents a rotating and oscillating of the camera head. The spring is adjustable on the tubing size up to 14".	8633
	Wohler Camera Holder faces down for camera heads 1", 1 1/2" and 2"	3720
	Wohler Camera trolley for 2" camera head with M10 and M5 connection for pushing, size: 6.3" x 4.9" x 4.9"	9548
7	Wohler VIS Maxi Adaptor for camera trolley for the inspection of larger ventilation ducts (from about 12")	9549

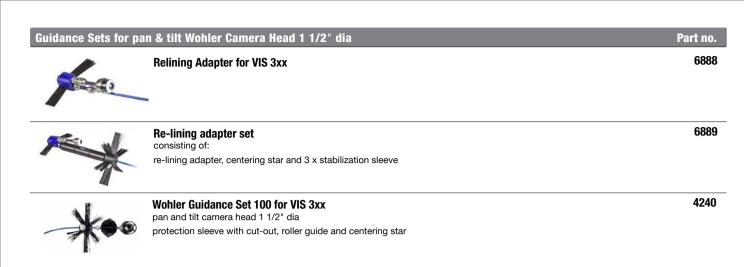


Part no. 7005

7024

7822

Guidance Sets for pan & tilt Wohler Camera Head 1" dia



Park No.	Re-lining adapter set consisting of: re-lining adapter, centering star and 3 x stabilization sleeve	6889
V.	Wohler VIS Guidance Set 70 for 1" camera head	3883
	guidance sleeve with protection cage and centering star	

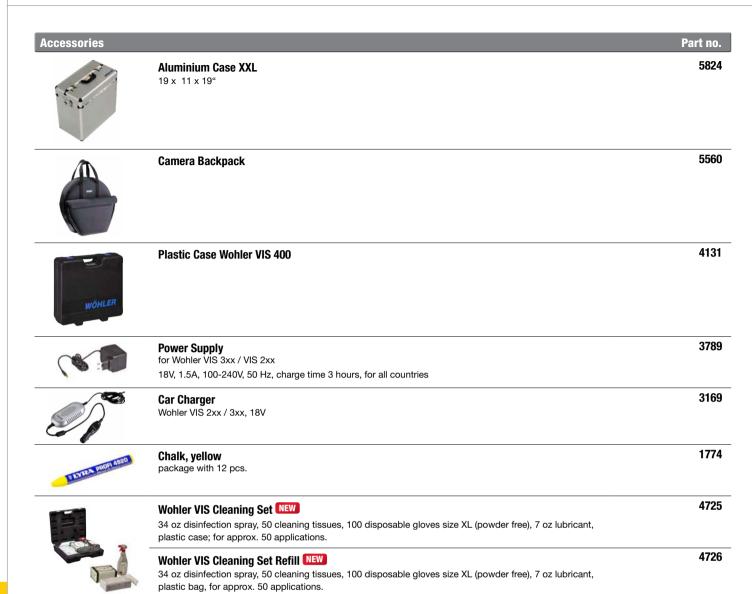
Components for V	Vohler Camera Head 2" dia	Part no.
*	Wohler camera protection with brushes for 2" camera head	3855
	Wohler camera roller guide with protection cage for 2" camera head	7826
	Wohler stabilization sleeve for 2" camera head	3590
	Wohler stabilization sleeve for 2" camera head with M10 male thread	3591

Components for Wohler Miniature Camera Head 1" dia		Part no.
	Wohler Guidance Sleeve for 1" camera head	3827
	Wohler Guidance Sleeve with protection cage for 1" camera head	3847

Components for Wo	hler Camera Heads 1 1/2" and 1"	Part no.
X	Wohler VIS Centering Brush for Wohler VIS 400 / VIS 2xx / VIS 3xx	3850
	Wohler Guidance Weight Stainless Steel 1.7 lbs. for top to bottom inspections	3857
砂砂	Wohler Camera Roller Guide for pan and tiltable camera head 1.5"	3681
	Wohler Supplementary Light Ring with white LEDs for 2" pan&tilt camera head for 1 1/2" pan&tilt camera head in combination with guidance weight (art. 3857), incl. battery pack with four AA batteries 1.5 V in cordura bag.	9377
Accessories		Part no.
		2050

Accessories		Part no.
21/2	Wohler VIS Spare brushes 24 pieces for centering brush	3858
-1/-	Wohler VIS Centering Star for Wohler VIS 2xx / 3xx	3854
	8" diameter with 6 brushes, with thread, centers the GRP camera rod, to guide the camera head	
*	Wohler VIS Centering Brush Extension 8" diameter with inner and outer thread for endless extension	3853
	Wohler VIS Stabilization Tube for Wohler VIS 400 / 2xx / 3xx extension for camera guidance system, 1.4" x 3.0" dia POM black	21736
	Wohler Guidance Ball for flex part of camera push rod	3634





Wohler L 200 Locator NEW







TECHNICAL DATA

Locator Receiver

. 12" x 6" x 3" (L x W x H)

APPLICATION

The Wohler L 200 Locator makes it possible to locate the Wohler VIS Camera heads VIS 200/250/350 wirelessly. The location of the camera head is indicated on the display screen as well as by an audible signal.

ADVANTAGES

- Locates the radio signal transmitted by the camera head – rapidly pinpoints the location
- Easy to handle user guided via display throughout the locating process
- Bright, easy-to-read color display
- Telescopic pole allows the user to place the locator closer to the signal source
- Chalk holder for chalk to mark the position where the camera head is located





Wohler L 200 Locator (Receiver)

Wohler L 200 Locator Receiver

USB power supply with micro USB cable

Chalk (12 pcs. box, yellow)

telescopic rod

headphones

plastic case

Wohler VE 200 Video-Endoscope NEW







TECHNICAL DATA

Signal transmission	
WI AN	

802.11 a/b/g/n up to 150 Mbit/s **Recording**

Kecoraing	
Camera Head	0.33" dia
Image Resolution	2.0 Megapixels
Focus	2.36" to 4"
Video Resolution	800 x 600 Pixel
	1,024 x 768 Pixel
	1,280 x 720 Pixel

File formats	
Image formatj	og
Video format	ıvi

Light source	6	adjustable LEDs
Additional light source	1	watt LED
Power Supply	4	AA batteries

APPLICATION

- For inspection of inaccessible cavities from 3/4" in diameter (for example: roof insulation, exhaust pipes, sinks, fireplaces)
- Transmission of image and video data via wireless (WiFi) on laptop, tablet PC or Smartphone

ADVANTAGES

- Snapshot and Video Functions
- Direct forwarding of data no further data transmission necessary
- Image display via wireless at all
- Compatible devices (such as netbooks, Smartphone, tablet)
- 4' gooseneck
- Video Recording
- Variable Light intensity of the flashlight for Illumination of cavities

Wohler VE 200 Video Endoscope

Wohler VE 200 Video Endoscope

4 ft probe, 0.33" dia

4x AA batteries

plastic case

(The VE 200 is not compatible with Windows Phone)

Part no. 7792

Wohler Glass Mirror



APPLICATION

- Inspection of objects hard to reach
- Inspection of chimneys
- Building inspection

ADVANTAGES

- Best view with glass mirror plates
- Pan and tilt
- Aluminium frame for protection
- Easy to replace
- Telescopic handle, extendable from 6" to 40 cm

Wohler Glass Hand Mirror

2" x 3"

Wohler Glass Hand Mirror 2" x 3"

lleather cover

Part no. 5064

Wohler Glass Mirror small with telescopic handle

Wohler Glass Mirror small up to 40" extendable

ball joint (pan and tilt)

mirror plate 1" x 2.8"

aluminium frame

lleather cover

Part no. 8064

Wohler Glass Mirror medium with telescopic handle

Wohler Glass Mirror small up to 40" extendable

ball joint (pan and tilt)

mirror plate 2" x 3"

aluminium frame

leather cover

Part no. 8059

Wohler Glass Mirror large with telescopic handle

Wohler Glass Mirror large up to 40" extendable

ball joint (pan and tilt)

mirror plate 3" x 6"

aluminium frame

leather cover



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PRODUCT OVERVIEW SWEEP INSTRUMENTS

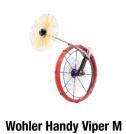


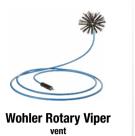
Wohler Viper XL/XXL













APPLICATIONS								
Chimneys (sizes in cm):	6"8"		•	•		•		
	8"16"		•					
	16" and bigger	•						
Flue Gas lines (sizes in mm):	2"6"			•	•	•	•	
	6"10"		•	•		•	•	
	10" and bigger	•	•					
Air duct (sizes in mm):	3"6"			•	•	•	•	
	6"10"		•	•		•	•	•
	10"16"	•						•
	16" and bigger	•						•
FEATURES & BENEFITS								
Horizontal and vertical clean	ning	•	•	•	•	•	•	•
Sweeping top down			•	•	•	•	•	•
Stainless steel approved		•	•	•	•	•	•	•
Portable		•	•	•	•	•	•	•
Lock/brake CW/CCW rotation		•	•	•	•	•		
							•	
Extendable		•	•	•		•		•
TECHNICAL DATA								
Length / diameter		165 or 328 ft / GRP-Rod 0.5" dia	50 or 65 ft / GRP-Rod 0.4" dia	50 or 65 ft / GRP-Rod 0.3" dia	50 ft / GRP-rod 0.2" dia	50 or 65 ft / GRP-rod 0.3" dia	16 or 33 ft / 0.6" dia	33 ft / 0.4" dia
Size / weight		32" or 39" dia / 46 - 75 lbs	23" dia / 9 - 12 lbs	17" dia / 4 lbs	13" dia / 2.5 lbs	17" dia / 4 lbs	3 lbs / 4 lbs	17" dia / 6 lbs
Thread		M10 thread	M10 thread	M10 thread	M5 thread	M10 thread	M10 thread	compressed air supply

Wohler Viper L



SWEEPING OF CHIMNEYS, VENTILATION SYSTEMS, PIPES | WOHLER VIPER L

TECHNICAL DATA

eight	24"
eight	9.5 lbs - 12 lbs
ake	adjustable,
	additional lock for transportation

APPLICATION

For sweeping chimneys, ventilation systems or pipes

ADVANTAGES

- Adjustable brake and safety lock
- · Can be used standing upright or in horizontal position
- Integrated holder for up to 3 stars
- GRP Rod with resistant coat and length marking



Wohler Viper L 50 ft. (brush not included)

GRP Rod 0.35" dia

50 ft. long

two stainless steel endpieces M10

GRP-starholder 1.1" dia

protection tube 31.5" long (without stars)

Part no. 9412

Wohler Viper L 65 ft. (brush not included)

GRP Rod 0.35" dia

65 ft. long

two stainless steel endpieces M10

GRP-starholder 1.1"dia

protection tube 31.5" long (without stars)

Part no. 9413



GRP Rod Repair Kit

with stainless steel endpiece, screws and allen wrench 0.35" dia.



with 2 stainless steel end pieces, M10 internal thread

0.35" dia, 50 ft. long	9015
0.35" dia, 65 ft. long	9020



Stars Stainless Steel Flat Wire

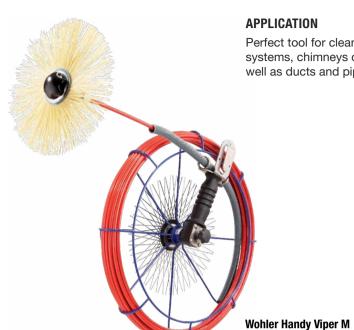
	7.8" dia, soft	14020
	10" dia, medium hard	14125
-	11.8" dia, hard	14130



Threaded Brushes Perlon

Inreaded Brusnes Perion	
7.9" dia, 0.02" bristles	18720
9.8" dia, 0.02" bristles	18725
11.9" dia, 0.02" bristles	18730
13.8" dia, 0.02" bristles	18735

Wohler Handy Viper M



APPLICATION

Perfect tool for cleaning flue gas systems, chimneys of up to 10" dia as well as ducts and pipework

50 ft. with push head (brush not included)

Wohler Handy Viper M

GRP rod, 50 ft.

(without stars)

Part no. 7649

TECHNICAL DAT	·
Cage diameter	17"
Width	4"
Weight	5 lbs
	incl. 50 ft GRP rod
Freewheel brake	precisely adjustable

ADVANTAGES

- GRP Rod with resistant coat and length
- Precisely adjustable brake (DGBM patented)
- Integrated holder for up to 2 stars
- Belt clip for sweeping and carrying
- For threaded brushes and stars
- Very light weight

Wohler Handy Viper M 65 ft. with push head (brush not included)

Wohler Handy Viper M

GRP rod, 65 ft.

(without stars)

Part no. 7648

Accessories		Part no.
\Longrightarrow	GRP Rod Repair Kit with stainless steel endpiece, srews and allen wrench 0.3" dia	3696
	GRP Rod with 1 stainless steel end piece, M10 internal thread	
	0.35" dia, 50 ft long	7015
	0.35" dia, 65 ft long	7020
cMWWw.	Stars Stainless Steel Flat Wire	
	7.8" dia, soft	14020
	10" dia, medium hard	14125
MANNA MANNA	11.8" dia, hard	14130
willer a	Threaded Brushes Perlon	
	7.9" dia, 0.02" bristles	18720
	9.8" dia, 0.02" bristles	18725
	11.9" dia, 0.02" bristles	18730
Miller	13.8" dia, 0.02" bristles	18735
A SALINA	Stars, PEK	
	6" dia	13815
9	7.9" dia	13820
SOUTH THE PARTY OF	9.8" dia	13825

Wohler Viper XL/XXL



TECHNICAL DATA

Wohler Viper XL	
0	

age diameter3	1.5"
Vidth20)"
leight37	7"
Veight46	6 lbs

Wohler Viper XXL

Cage diameter4	40"
Width	20"
Height4	46"
Weight	75 lbs

APPLICATION

· For sweeping large chimneys, ventilation systems or pipes

ADVANTAGES

- · GRP Rod with resistant coat and distance marking
- A camera trolley with a Wohler VIS 400 camera head can be installed and pushed

Wohler Viper XL (brush not included)

viper cage 31.5" and wheels

GRP Rod 0.4" dia

with stainless steel endpieces M10, 164 ft long

GRP-starholder 1.1" dia, without stars

Part no. 3332

Wohler Viper XXL (brush not included)

viper cage 40" and wheels

GRP Rod 0.4" dia with stainless steel endpieces M10, 328 ft long

GRP-starholder 1.1" dia, without stars

Part no. 3337

Accessories Part no. 3691 **GRP Rod Repair Kit** with stainless steel end piece, screws and allen wrench 0.43" dia. **Stars Stainless Steel Flat Wire** 14020 7.8" dia, soft 10" dia, medium hard 14125 14130 11.8" dia, hard **Threaded Brushes Perlon** 18720 7.9" dia, 0.02" bristles 18725 9.8" dia, 0.02" bristles 18730 11.9" dia, 0.02" bristles 18735 13.8" dia, 0.02" bristles

Wohler H 420 Viper M

Digital Meter Counter

WÖHLER



Wohler H 420 Handy Viper, 50 ft. with digital distance measurement

GFK-rod 0.28" dia

threaded star holder (brush not included)

Part no. 3770

TECHNICAL DATA

Cage diameter.. Width.. Weight 4.4 lbs incl. 50 ft GRP rod

Freewheel brake... precisely adjustable resolution meter counter ... 0.1 m

APPLICATION

Perfect tool for cleaning flue gas systems, chimneys of up to 10" dia as well as ducts and pipework

ADVANTAGES

- Digital meter counter
- Precisely adjustable brake (DGBM) patented)
- Integrated holder for up to 2 stars
- Belt clip for sweeping and carrying
- For push head brushes, stars and sponges
- Very light weight

Wohler H 420 Handy Viper 65 ft. with digital distance measurement

GFK-rod 0.28" dia

fast change star holder (brush not included)

Accessories		Part no.
	GRP Rod Repair Kit with stainless steel endpiece, srews and allen wrench 0.3" dia	3696
	GRP Rod with 1 stainless steel end piece, M10 internal thread	
	0.35" dia, 50 ft long	7015
	0.35" dia, 65 ft long	7020
MWWW	Stars Stainless Steel Flat Wire	
	7.8" dia, soft	14020
	10" dia, medium hard	14125
MANNAMA	11.8" dia, hard	14130
an 1196	Threaded Brushes Perlon	
	7.9" dia, 0.02" bristles	18720
	9.8" dia, 0.02" bristles	18725
	11.9" dia, 0.02" bristles	18730
1 Sellen	13.8" dia, 0.02" bristles	18735

BRUSH TYPES AND RECOMMENDED APPLICATIONS/USES

Stainless Steel Crimped Wire:

Thin Stainless steel wires that have been crimped. Excellent for soft to medium soot in all chimneys

Stainless Steel Flat Wire:

Premium flat wire for harder deposits in masonry/tile Chimneys

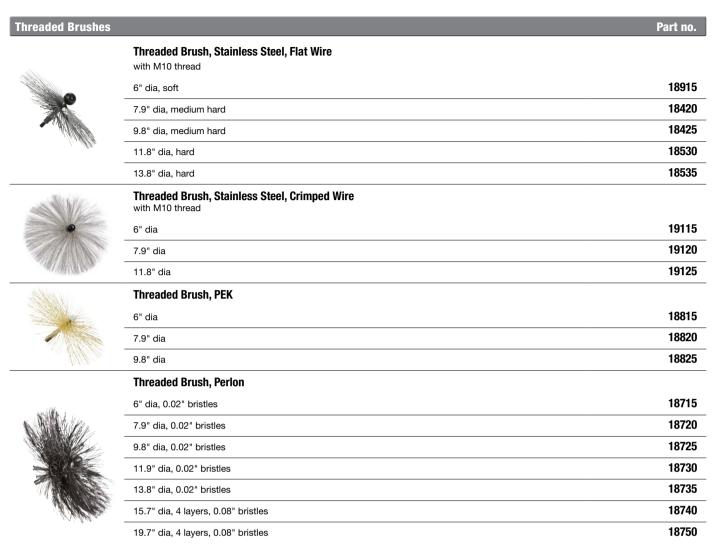
Perlon:

Black Plastic Fiber for light condition sweeping in stainless steel chimneys. Heat tolerant to 122 °F

DEK

High Tech Synthetic Fiber for light condition sweeping in Stainless steel chimneys, ducts, pellet stoves. Heat Tolerant to 300 °F

Stars		Part no.
	Star, Stainless Steel, Flat Wire	
NIN MAR	6" dia, soft	14015
	7.8" dia, soft	14020
	10" dia, medium hard	14125
	11.8" dia, hard	14130
NWW Way	13.8" dia, hard	14135
	15.8" dia, very hard	14240
Sall Mary	Star, Stainless Steel, Crimped Wire	
	6" dia	14315
	7.8" dia	14320
	9.8" dia	14325
A Mary	11.8" dia	14330
- ANIENTE	Star, PEK	
	6" dia	13815
	7.9" dia	13820
	9.8" dia	13825
AND THE STREET	11.8" dia	13830
	Star, Perlon	
	6" dia 0.05" bristles	2019
	7.9" dia 0.05" bristles	2752
	9.8" dia 0.05" bristles	2755
A Walley	11.8" dia 0.05" bristles	2018
	15.7" dia 0.08" bristles	8140



Wohler Mini Viper

Accessories

GRP Rod Repair Kit

with stainless steel end piece, screws and allen wrench 0.18"



TECHNICAL DATA

Cage diameter13"
Weight 2.2 lbs incl. 50 ft GRP rod
Freewheel brake precisely adjustable

ADVANTAGES

- · lightweight, 2.2 lbs only
- GRP-Rod with resistant PA coating and distance marking
- Foldable handle
- Belt clip
- Ergonomic shape

Wohler Mini Viper with handle and belt clip (brush not included)

GRP Rod 0.2" dia, 50 ft long stainless steel endpiece M5 guidance adapter protection tube

Part no.

3687

Part no. 8872

Accessories		Part no.
	Mini hole star, PEK	
W. W.	2.8" dia	8644
	3.9" dia	8645
	5.1" dia	8646
A Walle	6" dia	8647
	7.9" dia	8648
Willes	Threaded Brush, PEK with M5 male thread	
	2.8" dia	3803
	3.9" dia	8076
	5.1" dia	7091
Mark Market	5.9" dia	3839
1 (7.9" dia	7990

Wohler Compressed Air Cleaning – Standard Set

COMPRESSED AIR CLEANING | STANDARD SET/PROFESSIONAL SET



APPLICATION

Appropriate for small, round ventilation pipes up to 5" dia.

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com



ADVANTAGES

- · Counterclockwise rotating helicopter nozzle causes a forward movement
- Easy operation
- · Cleaning of pipes up to 23 ft possible

Wohler Compressed Air Cleaning Standard Set

compressed air hose 23 ft incl. cock

Wohler counterclockwise rotating helicopter nozzle

Part no. 7560

Wohler Compressed Air Cleaning – Professional Set



APPLICATION

Appropriate for round and angular ventilation pipes

ADVANTAGES

- Easy operation of the Pneumatic Viper due to the belt holder
- Appropriate for small and big pipes
- Extension possible due to the hose reel

TECHNICAL DATA

Pneumatic Viper Weight .. 5 lbs (incl. hose 33 ft)

Braking effect...

GRP-barrel

stainless plastic coated

Measuring Unit. .. meter or feet (m or ft)

adjustable break

Demands on a connecting compressor unit up to 10 bar

120 V Output power Boilercontent.

Wohler Compressed Air Cleaining

Wohler DH 420 Air Operating Viper

33 ft compressed air GRP hose incl. cock and compressed air connection

compressed air hose reel with 65 ft hose

Wohler compressed air planishing mallet 7-time 1.6 ft long

Wohler counterclockwise rotating helicopter nozzle

guidance roller ball

XXL-plastic case

Professional Set

Wohler DH 420 Pneumatic Viper





APPLICATION

The ideal instrument for cleaning ventila-

ADVANTAGES

- Easy operation due to the belt holder you have free hands!
- · Cleaning of 10 m pipes possible
- Due to the glass fiber reinforced plastic the hose can be pushed easily

Wohler DH 420 Pneumatic Viper with 33 ft compressed air hose

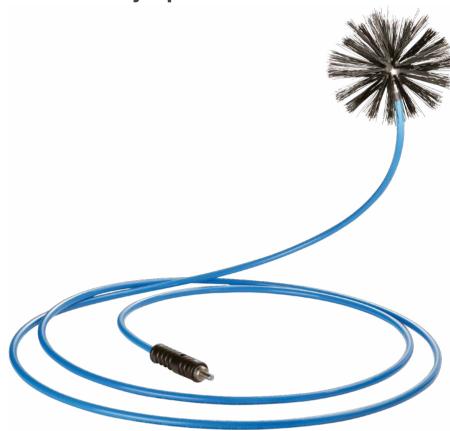
GRP hose incl. cock

compressed air connection

Part no. 7580

Accessories		Part no.
	Wohler Roller guide ball Compressed Air Cleaning for guiding the Wohler DH 420 Air Operating Viper in angular shaped ventilation pipes	7552
	Wohler helicopter nozzle backwards rotating appropriate for compressed air cleaning, combined with brushes and blast pipe effect for persistant contamination in small ducts	7556
	Wohler helicopter nozzle forwards rotating appropriate for compressed air cleaning, combined with brushes and blast pipe effect for persistant contamination in small ducts	7557
	Wohler Compressed Air Whip with 7 ends Compressed Air Cleaning inside Ø 2.0 mm, 1.6 ft long, particular suitable for bigger pipe diameters	7562
6	Hose Reel - 65 ft hose Compressed Air Cleaning incl. 5 ft connecting hose and adapter plug	7565
-	Wohler Sealing Set Ventilation includes: sealing bladder size 3 for 4 – 9.8" dia and size 5 for 7.9" – 15.7" dia, with release valve	7506
	Wohler TA 420 Thermoanemometer includes: Wohler TA 420 with telescope tube, 4 batteries 1,5 V Typ AA plastic case	4605
	Wohler FA 430 Fan Anemometer (MEW) incl. CO ₂ -Measurement Wohler FA 430 Fan Anemometer, 4 x AAA batteries, plastic carrying case	4147
Ť	Air Flow Funnel K 75 for Wohler A 600 / TA 420 range 30-750 m ³ /h size 1 x 1 x 1.2 ft	53793
	Aluminium Case XXL 19" x 11" x 19"	5824

Wohler Rotary Viper Vent



TECHNICAL DATA

Length 16 ft or 33 ft
Coatvery flexible,
0.6" dia
Threaded connection internal M10
Tap for drill chuck 0.4" dia
Core 0.4" dia,
CW/CCW rotation

ADVANTAGES

- CW/CCW rotation
- Due to a small end piece also applicable for smaller bends
- Very light weight 2.2 lbs
- Extremely flexible shaft
- Can be operated with battery driven drill

APPLICATION

Effective cleaning of dryer vents, duct and piping

wonier Rotary viper vent
5 ft long
Rotary Viper Vent

Perlon brush 7"

Part no. 4882

Wohler Rotary Viper Vent 9.8 ft long

Wohler Rotary Viper Vent

Perlon brush 7'

Part no. 4867

Wohler Rotary Viper Vent 16.4 ft long

Wohler Rotary Viper Vent

Perlon brush 7"

Part no. 4832

Wohler Rotary Viper Vent 33 ft long

Wohler Rotary Viper Vent

Perlon brush 7"

Part no. 4866

Wohler Rotary Viper Vent Set 33 ft long

Wohler Rotary Viper Vent 33 ft long

Perlon brush 7'

Perlon brush 7.9"

Perlon brush 11.8"

Part no. 7511