

CATALOG PRODUCTS FROM THE MANUFACTURER MEASURE | INSPECT | CLEAN





WOHLER CATALOG 2018

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Service

Management and Sales



Greg ElliottVice President, CEO



Trent YeagerRegional Sales Manager



Sue Grenier Office Manager



Janice DiMare Sales and Marketing Associate

Device Service



Tom Powers Service Manager



Frank Costanzo Service Technican



Dear Customer,

We pursue two goals together in the building sector: best comfort of living and maximum energy efficiency. Both of these high level goals can now be achieved by using latest technology. We provide smart equipment and you the professional work.

With the catalog 2018, we present products and services to support you in your daily work. This applies to useful tools as well as to our smart devices, e.g. The Wohler A 450 Flue Gas Analyzer and the Wohler Vis 700 HD-Video Inspection System. Both products can be connected via Wireless-LAN with mobile devices. This allows you to streamline your technical workflows with best performance for you and your customers.

Elman Schrader



Corporate culture



Wohler USA is a technically oriented, family owned company operating on an international basis. We develop, produce and market innovative test and measurement equipment, visual inspection cameras and cleaning equipment for a variety of applications. We place the highest priority on ensuring our products are tailored to the requirements of our customers.

Flue Gas Analysis

Because we are passionate about technology

The new Wohler A 450

The new Wohler A 450 is our smallest and full featured Gas Analyzer. With rugged and compact housing, simple touch screen monitor and advanced sensor technology, the new Wohler A 450 provides the flexibility you need for your applications like checking furnace efficiency, boiler tuning, and water heater checks.

Pair the Wohler A 450 with the new A 450 App. for Android and iOS to take hands-free measurements, review previous measurements and send digital records via email.

More on page 16





Video Inspection

Because we are passionate about technology

The new Wohler VIS 700

The Wohler VIS 700 HD-Video Inspection System provides flexible features needed for a variety of inspection applications. The Wohler VIS 700 is an ideal Inspection Camera for waste water pipes, flue gas and ventilation lines as well as NDT and plumbing applications.

With its razor sharp high definition images, a focus function via joystick for precise inspection, connectivity to wireless LAN and the option of wireless locating with variable frequency, the Wohler VIS 700 is a must have for all inspection professionals.

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Measuring InstrumentsFlue Gas Analysis

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Flue Gas Analysis

Wohler A 450 L Wohler A 450 Flue Gas Analyzer Flue Gas Analyzer page 20 page 21 **APPLICATIONS** (depends on accessories) Residential Commercial Industrial Manifold and Differential Pressure Tuning Guide Data Management Stack gas velocity **SENSORS** 0, 0...21 % 0...21% CO 0...5,000 ppm 0...10,000ppm CO high NO optional optional SO, NO, Stack Temperature -4...1,472 °F -4...1,472 °F -4...212 °F Supply Air Temperature -4...212 °F Differential Pressure ±44 inWC ±44 inWC Warranty 2 years 4 years **OPERATION FEATURES** 5" Color Touch Screen Display 5" USB & infrared port for printer Bluethooth® port for computer Wireless LAN Interchangeable probe **SAFETY FEATURES** Self Diagnosis CO overload protection Filter Technology Filter and Pump Monitor

Field Replaceable/Longtime Sensors

Wohler A 550 L Flue Gas Analyzer	Wohler A 550 Flue Gas Analyzer	Wohler A 550 INDUSTRIAL Flue Gas Emission Analyzer
page 28	page 29	page 32
•	•	•
•	•	•
		•
•	•	•
•	•	•
•	•	•
		•
021 %	021 %	021%
035,000 ppm	04,000 ppm	0100,000 ppm
		0100,000 ppm
03,000 ppm	03,000 ppm	03,000 ppm
		05,000 ppm
		01,000 ppm
-41,472 °F	-41,472 °F	-41,472 °F
-4212 °F	-4212 °F	-4212 °F
±44 inWC	±44 inWC	±44 inWC
4 years	4 years	1 years
7"	7"	7"
•	•	•
	•	•
	•	•
•	•	•
	•	
•	•	•
•	•	•
	•	•





A 450 APP

(Android & iOS)

AMBIENT

SOFTWARE

Wohler A 450 Flue Gas Analyzer

The new compact class – sturdy and smart

A reasonably priced flue gas analyzer that offers all measurement and tuning functions. A small and lightweight flue gas analyzer enclosed in an eye-catching, sturdy housing. The Wohler A 450 is a handheld device with user friendly touchscreen control, displays all measurement data on screen or connect and view on your smart devices.



All measured values available at a glance thanks to high-resolution display



Wohler A 450 app: Displaying the measured data on a mobile device



Printout of the measured data on site.



The tuning guide offers an advanced guidance to the technician to properly adjust the burner.

WOHLER A 450 APP ADVANTAGES

- Remote control of measurements at locations where access is difficult
- Direct Wireless LAN connection to smart device
- Data can be sent from smartphone/tablet by email



Application

- · Residential flue gas analysis
- · Service and maintenance tasks
- · Determine flue gas loss and burner tuning
- · NO measurement (optional)
- · Differential pressure/gas pressure measurement

Tunctionality

- · Simple to use: Switch on read off done
- Large 5" color touchscreen:
 Displays up to 14 measurement readings
- · Intuitive to operate via on-screen keyboard
- · Graphic hotspot search

Safety / Reliability

- · 24/48 month guarantee
- · Effective condensate protection
- · Multistage filter technology incl. water stop filter
- · Electronic filter monitor with illuminated condensate trap
- · Analyzer and sensor diagnostics
- · Field replaceable sensors user-friendly
- · Rechargeable battery operating time: more than 6 h with lithium ion power
- · Hose assembly robust and flexible

Data management

- \cdot Store up to 1,000 customer records
- · Data transmission by USB, Wireless LAN or infrared
- · Wohler A 450 app included

TECHNICAL DATA

Oxygen concentration (02) in flue gas

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

Carbon monoxide (10,000 ppm) in flue gas

Display	. Volume ppm referenced	to dry flue gas
Measurement principle	Electrochemical sensor	
Range	.0-10,000 ppm; resoluti	on 1 ppm
Accuracy	+20 nnm (< 400 nnm)	otherwise 10% of reading

Carbon monoxide (5,000 ppm) in flue gas

Display	. Volume ppm referenced to dry flue gas
Measurement principle	.Electrochemical sensor
Range	.0-5,000 ppm; resolution 1 ppm
Accuracy	. +- 40 ppm or 10% of reading

Nitric oxide concentration in flue gas (optional)

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical Sensor
Range	.0-3,000 ppm, resolution 1 ppm
Accuracy	+5 Vol -ppm (< 100 ppm) otherwise 5 % of reading

Differential pressure (PD)

Display	.inWC
Measurement principle	.Semi-conductor diaphragm
Range	.0.00 to ±44.00
Accuracy	.0,01 inWC (< 0.20 inWC), otherwise 5 % of reading

Flue gas temperature (T_c)

Display	. TF
Measurement principle	.Thermocouple (NiCr-Ni)
Range	4-1472 °F
Accuracy	.±4 °F
	270-1472 °F: ±1.5 % of re

Combustion air temperature (TA)

Display	.°Fahrenheit
Measurement principle	Thermocouple (NiCr-Ni)
Range	.68-212 °F
Accuracy	.±1°F

Power supply

Wohler A 450 L....Lithium-lon, rechargeable battery 3.7 V, 2,250 mAh, charges via USB

Battery operating time

Wohler A 450 L.....approx. 6 h (depends on operating status and display illumination)

Charging time

Wohler A 450 L.....approx. 3 h **Storage temperature**...-4-122 °F

Length of the probe hose......5 ft.

TUV test registered for EN 50379

¹⁰ g sensor 48 months, CO sensors 5,000 ppm 24 months; excludes thermocouples, rechargeable battery and optional NO sensor. For more information see our Terms and Conditions.

♥ Product features

	Wohler A 450 L Flue Gas Analyzer 5,000 ppm	Wohler A 450 Flue Gas Analyzer 10,000 ppm
APPLICATIONS (depends on accessories)	Article no. 8174	Article no. 8387
Service tasks gas/oil systems	•	•
Burner adjustment assistant	•	•
FUNCTIONALITY		
5" color touchscreen	•	•
Wireless LAN	•	•
USB & infrared Printer Port	•	•
RELIABILITY		
Warranty	24 month	48 month
Device sensor diagnostics	•	•
Sensor replacement	•	•
Visual filter monitor	•	•
Rechargeable lithium ion battery	Up to 6 h operating time	Up to 6 h operating time
INCLUDES		
Fixed 10" probe with 5' hose	•	•
CO sensor	5,000 ppm	10,000 ppm
O ₂ sensor	021 %	021 %
NO sensor	Optional	Optional
USB charger	•	•

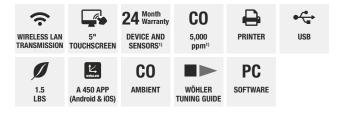


^{• =} included | optional = retrofit or upgrade ex works, contact us | optional = retrofit or upgrade ex works, contact us | optional NO sensor 48 months, CO sensors 5,000 ppm 24 months; excludes thermocouples, rechargeable battery and optional NO sensor. For more information see our Terms and Conditions.

Wohler A 450 L Flue Gas Analyzer NEW

5,000 ppm







Application

- · Residential flue gas analysis
- · Service and maintenance tasks
- · Burner tuning
- · Differential pressure / gas pressure measurement

Advantages

- · Switch on read off done
- Rugged and compact analyzer that offers all measurement and tuning functions
- High-resolution 5" color touchscreen:
 14 measured values available at a glance
- · Future-proof network connectivity with Wireless LAN
- · Wohler A 450 app included

Includes	Wohler A 450 L Basic Kit	Wohler A 450 L Heavy Duty Kit
Wohler A 450 L Flue Gas Analyzer	•	•
Pressure Hose	•	•
Metal Cone	•	•
Clamping Cone	•	•
Wireless LAN, USB and IR interfaces	•	•
Fixed 12" flue gas probe with 5 ft. hose	•	•
USB battery charger with micro USB cable	•	•
Rechargeable lithium ion battery	•	•
Wohler TD 100 Thermal Fast Printer	•	•
MIDI case	•	
Heavy Duty Case		•
Article no.	8174	8177

Wohler A 450 Flue Gas Analyzer NEW

10,000 ppm







Application

- · Residential flue gas analysis
- · Service and maintenance tasks
- · Burner tuning
- · Differential pressure / gas pressure measurement

Advantages

- · Switch on read off done
- Rugged and compact analyzer that offers all measurement and tuning functions
- High-resolution 5" color touchscreen:
 14 measured values available at a glance
- · Future-proof network connectivity with Wireless LAN
- · Wohler A 450 app included

Includes	Wohler A 450 Basic Set	Wohler A 450 Advanced Set	Wohler A 450 Professional Set
Wohler A 450 Flue Gas Analyzer	•	•	•
Wireless LAN, USB and IR interfaces	•	•	•
PTFE Cone		•	•
Clamping cone	•	•	•
Magnetic mount	•	•	•
Fixed 12" flue gas probe with 5 ft. hose	•	•	•
USB battery charger with micro USB cable	•	•	•
Ambient temp probe		•	•
Wohler TD 100 Thermal Fast Printer		•	•
Wohler RP 72 smoke test pump			•
Heavy Duty Case	•	•	•
Article no.	8387	8389	8390



Accessories Wohler A	450 L A 450 Flue Gas Analyzer	Article no.
and the same of th	Plastic case MIDI for Wohler A 450 L	6594
prince	Plastic case MAXI for Wohler A 450	4704
	Backpack for Wohler A 450 / A 550	5101
1	Threated cone for probes 0.3" dia. stainless steel	1235
4	Clamping Cone for probes 0.3" dia. stainless steel, to stabilize the gas probe in the flue pipe	2494
	Wadding filters pack with 25 pieces	4286
	Wadding filters pack with 150 pieces	4288
80	Water Stop Filters pack with 3 pieces	9621
	Wohler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160
	Thermal Paper 2.24" width, 40 ft. per roll, 10 rolls	4145
1	Charger for Wohler A 450	5502
	Probe 10" with 5 ft. hose for Wohler A 450	4498
8	Hose Assembly for Wohler A 450 5 ft. hose without flue gas probe	4476
Ø.	Hose Assembly Extension for Wohler A 450 / A 450 L 5 ft. triple hose assembly for larger boiler service	2045
	Air Temperature Probe for Wohler A 450 / A 550	
\cup	7" with 5.5 ft. cable 11" with 5.5 ft. cable	5521 5511
	Extenseion cable 9.2 ft. for Temperature Probes, for Wohler A 450 / A 550	7772
	PTFE Cone for probes 0.3" dia. to stabilize air temperature probes in openings 0.4" - 0.6"	2463

Article no.

4499

free

Accessories Wohler A 450 L | A 450 Flue Gas Analyzer

PC-Software Wohler A 450

Languages EN / FR / IT / CZ / NL / CN

for online measurements, diagram functions and export to MS Excel



Wohler A 450 App

for Wohler A 450

Available for Android and iOS devices!

The Wohler A 450 App is precisely what you need for your measuring and adjustment tasks.

Sensors for self-installation for Wohler A 450 L A 450 Flue Gas Analyzer O, sensor	Article no.
for all Wohler A 450 versions	0903
field replaceable	
CO sensor 5,000 ppm	8964
for Wohler A 450 L 5,000 ppm	
field replaceable	
CO sensor 10,000 ppm	8967
for Wohler A 450	
field replaceable	



POWERFULLY SIMPLE.



Wohler A 550 Flue Gas Analyzer

Flue gas analyzer that provides flexibility needed for a variety of applications

The Wohler A 550 is as robust as cast iron, and as easy to operate as a smart-phone. With the tap of your finger, you can perform analyses and inspections on residential and commercial appliances. The flue gas analyzer is equipped with coded connections for the 4 Pa test and even a wood moisture measurement function.



Printing out the results of measurements

Printing out the results on the spot with the Wohler TD 100 Thermal Printer.



Secure and reliable

The Wohler A 550 Flue Gas Analyzer with protective hinged lid.



Large 7" color Touchscreen

1) Except for thermocouples, rechargeable batteries and special sensors; for further information pleae see our Terms and Conditions.

All results of measurement at a glance. Simple to use menu navigation: Switch on - read off - done.



Wood Moisture Measurement

Optional probe available for wood moisture measurement.



Condensate status always in view

The bright blue condensate trap is able to be serviced quickly and easily.



 $\begin{tabular}{lll} \textbf{Convenient plug-in connection}\\ Analysis, temperature and draft -3 functions in a single hose: Simply plug them together and fold -3 functions in a single hose and -3 functions in a single hose in the simple ho$ down the protective lid.

Wohler A 550 Flue Gas Analyzer

☆ Functionality

- · Simple to use: Switch on read off done
- · Large, color touchscreen: Displays up to 14 values at a glance
- · Intuitive operation: What you see is what you get
- Instant measurement with 3 pump technology (Wohler A 550 only)
- · Graphical core flow search
- · 48 month warranty without maintenance contract1)

Safety/Reliability

- · Effective condensate protection
- · Automatic CO clean out pump protects CO sensor
- · 5-filter-technology easily accessible
- · Analyser and sensor diagnostics
- · Field-replacebale sensors
- Rechargeable battery operating time: more than 12 h with Lithium Ion power
- · Hose assembly robust and flexible

X Applications

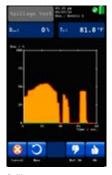
- · Expandable with up to 4 sensors (Wohler A 550 only)
- · For measurements NO, NO₂, SO₂
- Changebale probes for a variety of measurement tasks Spillage Test and much more
- First Analyser with optional probe for wood moisture measurement

Data management

- · 1,000 measurement records
- · Compatible with the Wohler A 550 APP INT for Android
- · Data transfer via USB, Bluetooth® or infrared

Approvals

· EN 50379 Part 2, VDI 4206



Spillage test Graphic representation of moisture exposure and temperature for back-draught check



Print previewGenerate a preview of the measurement before printing out the results.



Wood moisture
Unique in a Flue Gas Analyzer:
Integrated wood moisture
content measurement.

TECHNICAL DATA

IECHNICAL DATA	
Oxygen concentration (0,) i	n flue gas
Display	. Volume % referenced to dry flue gas
Measurement principle	. Electrochemical sensor
Range	0.0-21.0 vol. %
Accuracy	±0.3 Vol%
Carbon monoxide (CO 4,000	ppm) in flue gas (Wohler A 550)
Display	. Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-4,000 vol. ppm; resolution 1 vol. ppm
Accuracy	±20 ppm (< 400 ppm), otherwise 5% of reading
Carbon monoxide (CO) in flu	e gas (Wohler A 550 L)
Display	. Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-35,000 vol. ppm; resolution 1 vol. ppm
Accuracy	±100 ppm (< 1,000 ppm),
	otherwise 10% of reading (with $\rm H_2 < 5\%$ of reading)

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

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

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

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

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

Display	inWC
Measurement principle	. Semi-conductor diaphragm
Range	0.000 to ± 44.16 inWC; resolution 0.004 inWC (< 4.01 inWC),
	otherwise 0.004 inWC, with ventilation loss measurement 0.004 inWC
Accuracy	0.0012 inWC (< 0.04 inWC), otherwise 3 % of reading
	Drift < 0.00081 inWC in 5 minutes

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

Display	.inWC
Measurement principle	.Semi-conductor diaphragm
Range	$0.00 \text{ to} \pm 44.16 \text{ inWC}$; resolution 0.004 inWC
Accuracy	.0.008 inWC (< 0.16 inWC), otherwise 5 % of reading

Flue gas temperature (T_s)

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

Combustion air temperature (T_A)

Measurement principle.

Display

4 °F to 212 °F; resolution 32.2 °F
±2 °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
2.75 lbs
8.7" x 6.3" x 2.2" (without probe)
67"

Thermocouple (NiCr-Ni)

¹⁾ Except for thermocouples, rechargeable batteries and special sensors;

☼ Product features

	Wohler A 550 L Flue Gas Analyzer	Wohler A 550 Flue Gas Analyzer
APPLICATIONS (depends on accessories)	Article no. 7754	Article no. 7757
Flue Gas Analysis	•	•
4 Pa-Test (inWC)		•
Wood moisture	•	•
Backflow check	•	•
Wohler Tuning Guide	•	•
Possible sensors	3	4
FUNCTIONALITY		
7" color touchscreen	•	•
Fresh air pump, simultaneous hot spot search and calibration		•
Start-/stop function at probe	•	•
1,000 measurement records	•	•
USB & infrared	•	•
Bluetooth®		•
CO clean out pump		•
RELIABILITY		
48-month sensor and analyzer warranty ¹⁾	•	•
Analyzer self diagnostics	•	•
Field replaceable sensors	•	•
Visual filter alarm	•	•
Lithium Ion rechargeable battery with up to 12 h battery operating time	•	•
INCLUDES		
Interchangeable probe with 5' hose assembly & plug-in probe 10"		•
Probe with 5' hose assembly and fixed probe 10"	•	
Probe with 9' hose assembly		optional
Combustion air temperature probe	optional	•
Wood Moisture Probe	optional	optional
Pressure measurement adapter for 4 Pa-test (inWC)		optional
1 water stop filter and 1 coarse filter	•	•
Rechargeable battery and USB battery charger	•	•
Case	•	•

^{• =} included | I optional = retrofit or upgrade ex works, contact us 1) Except for thermocouples, rechargeable batteries and special sensors; for further information pleae see our Terms and Conditions.

Wohler A 550 L Flue Gas Analyzer

















Wohler A 550 APP **Advantages**



- · Graphical representation of the result
- · Possibillity to measure online
- · Evaluate the results directly on your smartphone and export data to Excel or as PDF document.



Application

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

Advantages

- · 7" color touchscreen as intuitive to use as a smartphone
- · 48 month warranty1) on the analyzer and sensor - without maintenance contract
- · Including wood moisture measurement and spillage test
- · Probe and hose assembly with start/stop function (Wohler A 550 only) for remote analyzer operation
- · Multiple communication capabilities including smartphones and tablets

Includes

Wohler A 550 L Flue Gas Analyzer USA Hose 5 ft. Gas probe 1 ft. USB-charger with Micro-USB cable Li-lon rechargeable battery Waterstop filter Coarse filters Wadding filters (25 pieces) Wohler TD 100 Thermal Fast Printer

Case

Article no.

Wohler A 550 Flue Gas Analyzer







Application

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

Advantages

- · 7" color touchscreen as intuitive to use as a smartphone
- 48 month warranty¹⁾ on the analyzer and sensor – without maintenance contract
- · Including wood moisture measurement and spillage test
- Probe and hose assembly with start/stop function (Wohler A 550 only) for remote analyzer operation
- · Multiple communication capabilities including smartphones and tablets

Includes	Wohler A 550 Basic Set	Wohler A 550 Professional Set
Wohler A 550 USA	•	•
Additional NO and NO2 sensor		•
Hose 10 ft.	•	•
Gas probe 1 ft.	•	•
Air temp. probe	•	•
Clamping cones	•	•
USB charger with micro USB cable	•	•
Li-lon battery	•	•
Waterstop filter	•	•
Coarse filter	•	•
Wadding filters (25 pieces)	•	•
Wohler TD 100 thermal fast printer	•	•
Case	•	•
Article no.	7757	7764



Except for thermocouples, rechargeable batteries and special sensors; for further information pleae see our Terms and Conditions.

Accessories Wohler A 5	550 L A 550 Flue Gas Analyzer	Article no.
1 -	Wohler A 550 Upgrade Kit	7758
*	Air temperature probe 11" with 67" cable, clamping cone	
	Wohler A550 air temp. probe	5511
Q	11" long with 67" cable	3311
	Wohler Probe 20"	9614
	Wohler A 550/A 500/A 97	3014
	Wohler Probe 12"	9622
	Wohler A 550/A 500/A 97	
	Wohler Probe 7 " Wohler A 550/A 500/A 97	9613
	Wohler Probe 5"	9652
	Wohler A 550/A 500/A 97	5552
-	Wohler Flexible Probe 12"	3242
~	Wohler A 550/A 500	
0	Wood Moisture Probe Wohler A 550	5513
0		
	Hose assembly 10 ft	7179
	For Wohler A 550 Gas Probe	
A	Magnetic Holder	6142
	For air temperature probes	
	Clamping Cone	2494
	Plastic Cone	2463
	For air temperature probe	
	Extension Wohler Cable hose	2076
	Wohler A 550 L, 9 ft.	
	Wohler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160
	Thermal Paper	4145
elelele)	2.24" width, 40 ft. per roll, 10 rolls	
	Air Temperature Probe 11" For Wohler A 600 / A 400	6019
	with 67" cable, to measure the supply air temperature especially in fire places independent of ambiant air	
	Charger Wohler A 550	5502
B &		
2007	Wohler A 550 Heavy duty carrying case	
	Twin-wall case	5577
and the same of th		
	Plastic case Wohler A 550 L	5516

Accessories Wohler A 550 L A 550 Flue Gas Analyzer		Article no.
80	Water Stop Filters 3 pack	9621
13.	Coarse Filters Pack with 5 pieces	9632
(S)	Wadding filters A 400 Pack with 150 pieces	4288

Sensors	Article no.
O ₂ -Sensor field replaceable For Wohler A 550	5594
CO-Sensor 4,000 ppm field replaceable (not H ₂ compensated)	8166
For Wohler A 550	
CO-Sensor 35,000 ppm field replaceable	4496
For Wohler A 550 L CO _H -Sensor 100,000 ppm field replaceable	5500
For Wohler A 550	5596
NO-Sensor field replaceable	5597
For Wohler A 550	
NO ₂ -Sensor 3,000 ppm field replaceable For Wohler A 550	5598



POWERFULLY TOUGH.



Wohler A 550 INDUSTRIAL

Portable Flue Gas Emissions Analyzer with superior accuracy

The Wohler A 550 INDUSTRIAL is as robust as cast iron, and as easy to operate as a smart-phone. The flue gas emissions analyzer is designed to be used in tough industrial heat process settings. The in-stack stainless steel sinter filter probe helps protect the analyzer against heavy dust loads.



Sinter-Filter Probe

Removes dust ($> 20 \mu m$) from the sample gas to protect the analyzer against heavy dust loads.



Battery-driven Peltier cooler

Removes condensate from the sample gas for accurate NOx and SOx measurements.

TECHNICAL DATA

Oxygen concentration (0,) in flue gas

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

Carbon monoxide (CO 100,000) in flue gas

Display ..Volume ppm referenced to dry flue gas

Measurement principle Electrochemical sensor

0 - 100,000 vol. ppm; resolution 1 vol. ppm Range. ±100 vol. ppm (< 1,000 vol. ppm), Accuracy

otherwise 10 % of reading (with H2 < 5 % of reading)

Nitric oxide concentration (NO) in flue gas

Volume ppm referenced to dry flue gas

Measurement principle. Electrochemical sensor

Range. .0 - 3,000 vol. ppm (continuously up to 1,000); resolution 0.1 vol.

ppm (< 1,000 vol. ppm), otherwise 1 vol. ppm

Accuracy ±5 vol. ppm (< 100 vol. ppm), otherwise 5 % of reading

Nitrogen dioxide concentration (NO2) in flue gas

.Volume ppm referenced to dry flue gas Display

Measurement principle Electrochemical sensor

0 - 1,000 vol. ppm (continuously up to 200 vol. ppm); Range

resolution 0.1 vol. ppm

Accuracy ±5 vol. ppm (< 100 ppm), otherwise 5 % of reading

Sulfur dioxide concentration (SO₂) in flue gas

Display Volume ppm referenced to dry flue gas

Measurement principle Electrochemical sensor 0 - 5,000 vol. ppm; Range

resolution 0.1 vol. ppm (< 1,000 vol. ppm), otherwise 1 vol. ppm

±10 vol. ppm (< 200 vol. ppm), otherwise 5 % of reading

Accuracy Differential pressure (Pn)

Display

Measurement principle Semi-conductor diaphragm

0.00 to ±44.16 inWC; resolution 0.004 inWC Range. Accuracy

0.008 inWC (< 0.16 inWC), otherwise 5 % of reading

Flue gas temperature (T_s) Display

Measurement principle Thermocouple (NiCr-Ni) (NiCr-Ni)

-4 °F to 1,472 °F; resolution 0.1 °F Range

32-271.4 °F: ±4 °F Accuracy

271.4-1,472 °F: ±1.5 % of reading

Combustion air temperature (T,)

Display

Measurement principle Thermocouple (NiCr-Ni)

-4 °F to 212 °F; resolution 32.2 °F Range.

+2 °F Accuracy

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

Battery operating time Approx. 7 h (depends on operating status and display illumination)

Storage temperature 4 °F to +122 °F

Operating temperature +41-104 °F to maintain stated accuracy Weight 2 75 lbs

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

Length of cable-hose

☆ Functionality

- · 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
- · Graphic hot spot search

Safety / Reliability

- Effective dust and condensate protection
- · 4-filter technology easily accessible
- Analyzer and sensor diagnostics
- Sensor replacement user-friendly
- Rechargeable battery operating time: more than 7 h with Lithium Ion power
- · Hose assembly robust and flexible

X Applications

- Expandable with up to 5 sensors
- · For measurements: NO, NO, SO,
- · Probe for a variety of measurement tasks
- · In-stack sinter-filter for heavy dust loaded samples

Data management

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

Approvals

. DIN EN 50379 Part 2

Wohler A 550 INDUSTRIAL Flue Gas Analyzer







Application

- · Expandable with up to 5 sensors
- · For measurements: NO, NO₂, SO₂
- · Probe for a variety of measurement tasks
- · In-stack sinter-filter for heavy dust loaded samples

Advantages

- · 7" color-touchscreen as intuitive to use as a smartphone
- NOx and SOx emissions measurement with 0,1 ppm resolution
- In-stack Sinter-filter probe for dust protection
- Battery-driven peltier cooler device more than 4 h off-grid operation time
- High-power sample pump for differential pressures up to 300 mbar
- Built-in logger function with user selectable configuration

Includes

Wohler A 550 INDUSTRIAL with $\rm O_2$, NO, $\rm CO_{HY}$ $\rm NO_2$, $\rm SO_2$ Bluetooth-, USB- and IR Interface

Hose 9' and Modular Probe 3' with sinter filter

Flue Gas Temperature Probe

USB-Charger with Micro-USB-Cable

Li-Ion Battery

Waterstop Filter

Plastic Case

Article no. 599

ries Wohler	A 550 INDUSTRIAL	Article no.
	Flue Gas Probe	418
	3 ft. With filter holder and stainless steel sinter filter	
	Gas Probe	061
	1.5 ft.	9614
	Gas Probe	9622
	Flue gas probe	9695
	3 ft. With protective cap	3333
	Air temperature probe	5511
	11" With 5.5 ft. cable	
	Velocity probe Type S	F.F.70
)	To measure gas velocity	5579
	Magnetic Holder	6142
Ŷ.	To stabilize the air temperature probe For air temperature probes	32
	Clamping Cone	
	Stainless steel	2494
	For probes 8 mm dia stainless steel, to stabilize the gas probe in the flue pipe	
	PTFE Cone For probes 0.3" dia, to stabilize air temperature probes in 0.4"-0.6" openings	2463
Store 4	USB Peltier Cooler	4435
6	With battery and USB cable 10 ft.	
	Stainless steel Sinter-filter Replacement filter	4187
7	Pitot tube 40" long, 0.3 dia. for Wohler DC 410 and DC 2000PRO	9489
_	Pitot tube	9488
	20" long, 0.3 dia. for Wohler DC 410 and DC 2000PRO	
	Wohler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160
	Thermal Paper	4145
	2.25" width, 40 ft. long, 10 rolls For thermal printer Wohler TD 100	
	Wohler A 550 Heavy duty carrying case	5577
	Twin-wall case	
	Water Stop Filters	9621
	Pack with 3 pieces	
	Coarse Filters	9632
•	Pack with 5 pieces	
80.	Wadding filters	4288
	Pack with 150 pieces	
	PC-Software Wohler A 550	4428
	For online measurements, diagram functions and export to MS Excel	



Wohler RP 72 Soot Test Pump





Application

· For measuring the soot level manually

Advantages

- 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

ROBUST Housing





Includes	Wohler RP 72 Basic Set	Wohler RP 72 Professional Set
Wohler RP 72 Soot Test Pump	•	•
Hose 3 ft	•	•
Hose 40"		•
Extraction probe 7.98"		•
Extraction probe 9"	•	•
Smoke spot comparison scale		•
Threaded cone		•
Oil test bottle		•
Servicing Oil		•
Filter papers (300 pieces)		•
Short wadding		•
Long wadding		•
Probe brush		•
Article no.	2412	9152

Accessories Wohler R	P 72 Soot Test Pump	Article no.
	Probe Holder with Probe	7547
	9" incl. spiral	
	Probe Connector	3879
	Spiral	20401
	Probe Brush 0.2 dia. for the Wohler RP 72	2419
0=	PTFE Cone For probes 0.3" dia., to stabilize air temperature probes in openings 0.4" to 0.6" dia.	2463
=	Clamping Cone For probes 0.3" dia., to stabilize air temperature probes in openings 0.4" to 0.6" dia.	2494
· •	Comparison Scale From soot number 1 to 10 1 piece	2416
0 0 0 0	2 pcs.	369
700000	Smoke Pump Filters Bag	
	300 pcs.	2415
to have	1,800 pcs.	590
99	Filter Paper Dispenser 300 pcs.	3700
61	Wadding Rolls Short	
603-576	25 pcs.	5000
	150 pcs.	5289
	Wadding Rolls	5290
0 - 0	Long	
	50 pcs.	2450
	150 pcs.	621
	Special Servicing Oil	2418



Wohler HF 550 Wood Moisture Meter NEW

Moisture measurements of firewood logs and bulk materials









Application

- · Determine the moisture of fuel when inspecting the fireplace
- · Acceptance test of fireplaces for solid fuels
- Professional customer advice service following the installation of a solid fuel heating system
- · Wood and fuel outlets

Advantages

- Unconditional versatility: Measure moisture of firewood logs and bulk materials with just one instrument
- · Unconditional precision: TÜV tested
- Unconditionally standards compliant: Measurements according to VDI 4206 Part 4
- Unconditionally robust: Robust instrument robust probe
- Unconditionally user-friendly: Intuitive menu navigation, color display, integrated data management



TECHNICAL DATA	
Moisture measurement of f	irewood logs
Display	Wood moisture <i>u</i> displayed in % relative to the dry mass of the fuel; user can switch to water content <i>w</i> displayed in % relative to the moist mass of the fuel
Wood species	14 wood species to choose from
Temperature compensation	Measures temperature of material by means of a temperature probe
Measurement principle	
Measurement range moisture	resolution 0.1 % u
Measurement range water conten	resolution 0.1 % w
Accuracy	±40 % of reading, tested to VDI 4206 Part 4
Connections	Wohler Wood Moisture Hammer Probe, Wood Moisture Lance Probe, Wohler FW 550 Moisture Scale bulk material, temperature probe, USB data transmission
Power supply	Lithium-lon, rechargeable battery 3.6 V, 2,250 mAh, charges via USB
Battery operating time	Approx. 20 h (depends on operating status and display illumination)
Storage temperature	4122 °F
Operating temperature	41104 °F to maintain accuracy
Weight	0.5 lbs. (without probe)
Dimensions	2" x 1.5" x 8" (W x D x H, without temperature probe)

Includes

Article no.	1141
Bag Wohler HF 550	
USB Power Supply	
Wood Moisture Lance Probe	
Temperature Probe HF 550	
Wohler HF 550 Wood Moisture Meter	

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 hand-held 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 codes
- Calibration kit facilitates on-the-spot measurement value verification
- · Adjustable alarm threshold



TECHNICAL DATA	
Resistence measurement	wood
Range	approx. 040 %
Needles	0.5 inch, 10 kind of wood
Dielectrical measurement	(non destructive)
Effective depth	approx. 1.2 inch
	20 material codes
Alarm	3 color LED (green, yellow,
Auto-Off-Function	red), adjustabe limit adjustable
AUIO-OII-FUIIGIIOII	aujustabie
Operation conditions	0104 °F, < 90 % r.H.
Size	6.5" x 2.44" x 1.02"
Weight	0.38 lbs. (without batteries)
Power Supply	4 x 1.5 V AAA-batteries

Includes

Wohler HBF 420 Moisture Meter

2 replacement electrodes

4 batteries 1.5 V AAA

Leather bag

Article no. 8440



Wohler HF 300 Wood Moisture Meter





TECHNICAL DATA	
Range	540 %
Resolution	1 % Wood moisture
Power Supply	9 V battery
Operating temperature	540 °C
Relative Ambient Humidity	070 % r.H.
Needle length	0.5"
Size	5" x 2.5" x 1.3"
Weight	0.25 lbs. (including battery)

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 0.2 inch into the log.

- · Large, easy-to-read display
- · Ready for immediate use
- · Small, handy, ergonomic

Includes	
Wohler HF 300 Moisture Meter	
9V battery	
Protective bag	
1 pair of replacement pins	
Article no.	7180

Accessories Wood & B	Building Materials Moisture Measurement	Article no.
N'N	Replacement Pins (for Wohler HF 300) 2 pcs.	3661
XXXXXXX XXXXXX	Replacement Pins (for Wohler HF 300) 6 pairs of 2 pcs.	7181
	Wohler Wood Moisture Probe (for Wohler HF 550 / HBF 420) Incl. connecting cable, 2 electrodes length 1.3", 2 electrodes length 2", protective cap tool for changing the electrodes is integrated in the probe; storage opportunity for the electrodes within the probe	2522
//	Electrodes Hammer Probe (for Wood Moisture probe) 8 electrodes 1.3" and 2 electrodes 2" Shank insulated, appropriate for precise depth measurement	2527
7	Connection Cable Hammer Probe (for Wood Moisture probe) Length 55"	2525
*	Wood Temperature probe (for Wohler HF 550)	1567
	Wood Moisture Probe (for Wohler HF 550)	5513



Measuring Instruments Leakage and Pressure

> Measuring Instruments IAQ/Ventilation

> > HD-Video Inspection Technology



Measuring Instruments Leakage and Pressure

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Wohler DM 2000 Digital Manometer

Wohler DC 410FLOW Pressure Differential & Flow Meter





APPLICATIONS (depends on accessories)

page 46

page 48

Gas Detection			
Manifold and Differential Pressure	•	•	
Flow Measurement in ducts and chimneys		•	
Backdraft testing		•	
CO ambiant			
Datalogger for pressure and temperature		•	

SENSOR SPECIFICATIONS

Differential Pressure	± 800 inch WC	± 40 inch WC 0 - 400 inch FPS
Air Velocity		
Temperature (internal/external)	external 0212 °F	internal 0150 °F external 01,472 °F
Humidity		0100 % r.H.
CO		
Methane/Propane		

Wohler GS 300 Gas Sniffer	Wohler CM 220 CO-Meter	Wohler TI 410 Dew Point Indicator
	archine an	
page 50	page 51	page 51
•		
		•
	•	
		-40 °F212 °F
	999 ppm	
0 - 1,200 ppm		



Wohler DM 2000 Digital Manometer



Application

- · Fine tuning of burners (resolution 1 Pa)
- · Draft measurement
- · Differential pressure measurement
- · Optional temperature measurement
- Contains all necessary parts for burner tuning and manifold pressure adjustment

- · Switch on measure finish
- Extra wide pressure range from 0.01...2,000 hPa
- · Quick response time
- · Easiest one button operation
- For a variety of all differential and manifold pressure applications

TECHNICAL DAT	`A
Differential pressure	9
Range	±2 bar / ±800 inWC
Accuracy	< 3 % from measuring,
•	in range < ±0.60 inWC
	than ±6 Pa
Resolution	±0.02 inWC
Temperature (extern	al Si-PTC)
Range	0212 °F
Accuracy	better than 4 °F
Resolution	0.1 °F
Dimension	
Weight	1 lbs. with protection bag
Size	0.0110.011011
Power	2 AA batteries

Includes	Wohler DM 2000 Digital Manometer US Version	Wohler DM 2000 Digital Manometer – Kit – US Version
Wohler DM 2000 Digital Manometer	•	•
5 ft hose	•	•
Rubber boot		•
Hand loop		•
Batteries (installed)	•	•
Carrying Case		•
Article no.	7006	7335

Accessories Wohler D	DM 2000 Digital Manometer	Article no.
(Formal)	Rubber Boot With magnets	7202
	Plastic Case Mini Internal size 9.6" x 6.3" x 2.6" With protection foam	7204
	Combustion Air Temperature Probe For use with DM 2000 and A 550 11", with 5 ft. cable to analyze chimneys independent from ambient air.	9611
(magnetic state)	Air Temperature Probe Plug form	9605
	Air Temperature Probe 4 ft. cable	9651
_	Handloop	9805



Wohler DC 410FLOW US-Version

Standard Version



Application

- · For measurement of pressure, air flow, temperature and relative humidity
- 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 color OLED display
- · Technician friendly one hand operation with 4 button keypad
- · Highly accurate with "no drift technology"
- · Pressure resolution of 0.01 inWC
- · Differential temperature with two probes
- · Data logger function
- · USB port

Range	+ 40 inWC
Accuracy	
•	absolute ± 0.002 inWC
Resolution	0.001 inWC between
	± 4.000 inWC;
Air speed	0.01 inWC
Range	400 FPM
Temperature (internal	
Range	•
Accuracy	
Resolution	0.1 °F
External temperature	probe
Range	2 channels, 0°F to 1,472 °F
Accuracy	± 1.5% o.r., absolute 4 °F
Resolution	0.1 °F
Relative humidity	
Range	
Λοομγαον	humidity), non condensing
ricourdoy	r.H., otherwise < 3 % r.H.
Resolution	
Barometric Pressure	
Range	± 120.44 inWC bis
	441.61inWC
Accuracy	
Resolution	0.04 inWC
Batteries	4 AA rechargeable batteries
	or 4 AA disposable batteries
Interfaces	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 Printer
Operating temperatur	
	3.2" x 9" x 2.4"



Includes

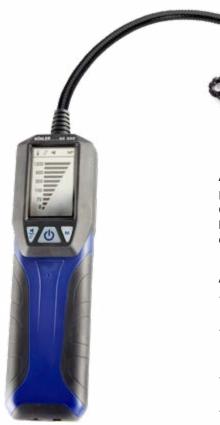
Wohler DC 410^{FLOW} Pressure Differential & Flowmeter
Rechargeable bateries
Charger
2 Capillary hoses
Plastic case
Article no. 9286

Accessories Wohl		Article no.
1	S-Tube Probe	9244
	For use with DC 4xx to measuring the flow speed	
la /		
	Pitot tube	
	Pitot tube	
	14" long, 0.3" dia.	9487
,		
	20" long, 0.3" dia.	9488
	39" long, 0.3" dia.	9489
	Wohler Flexible Capillary 3 m	4515
	Wohler A 400, A 600, DC 100PRO, DC 410	
The same of the sa		
	Thermal Paper	4145
- P (F (F) (F)	2.24" width, 40 ft. per roll, 10 rolls	
	Surface Temperature Probe	6679
	For Wohler DT 310 / A 400 / DC 410FLOW	
0		
*	Special Wall Temperature Probe Type W-02	4054
	For Wohler A 400 or Wohler DT 310	4651
- Charles and the Control of the Con	To World A 400 of World DT 310	
4		
	Special Wall Temperature Probe Type W-02	4718
	Angulate	4710
-	, 11gu	
4		
-	Surface tempeature probe TF1	6625
4	For Wohler A 500 / DT 310	
-		
	Surface temp. probe TF2	6626
-	For Wohler A 500 / DT 310	
	Section 1981	
	Surface temp. probe TF3 angulate	6628
-8	For Wohler A 500 / DT 310	
	ona B. L. P. L. T.	
	Penetration temp. probe TF4	6629
	For Wohler A500 / DT 310	
1.50	Flue gas temp. probe TF5	0005
-	For Wohler A 500 / DT 310	6635
-	i S. Hallidi /1000 / DT 010	



Wohler GS 300 Gas Sniffer NEW

Display in twelve Stages from 0 to 1,200 ppm



Application

Highly sensitive and quick responsive Gas Sniffer for tightness control and leakage detection of gas lines carrying combustible gases

Advantages

- · Acoustic signal and vibration alarm to display even the smallest leaks
- · Display of gas concentration via bar graph in twelve levels from 0-1,200 ppm
- · Perfect tool to control natural gas, as well as liquefied gas installations
- · Additional LED lighting turns on automatically in dark places, to search for leaks in hard to reach spots (flashlight function)



	ΠΔ٦	

Sensitivity

Methane	.0 - 1,200 ppm
Propane	.0 - 1,200 ppm
Sensor	.Semiconductor
Alarm Function	'
	alarm
Warm-up time	.approx. 60 sec.
Response time	.approx. 10 sec.
Environmental Conditions	

Operating Temperature	23 °F113 °
Storage Temperature	4 °F113 °I
Rel. Humidity	< 85 %

Auto-off Function	after 20 min.
LC- Display	.1.2" x 2"
Flashlight	.2 LEDs
Connections	headphone and power supply unit

Power Supply .. .4 Mignon-cells AA Current consumption... .approx. 100 mA Dimensions. .2.17" x 7.48" x 1.58" Weight

Includes

Wohler GS 300 Gas Sniffer 17" gooseneck

Batteries Plastic case

Article no.

Accessories Wohler GS 300 Gas Sniffer

Article no.

Headphone with volume control

55145

4486

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 zero
- · Visual and acoustic indicators
- · Backlight
- · Precise electrochemical sensor
- Calculation of the MWC-value (Maximum Workplace Concentration)

Dongo	0 000 nnm
Range	
Accuracy	
	±15 % at 100 - 500 ppm
Resolution	1 ppm
Supply	3 AAA batteries
Response time	up to 60 sec.
Humidity range	5 - 99 % r.H.
	(non-condensing)
Storage temp	40158 °F
Operating temp	14140 °F
Size	6.9" x 1.9" x 1.1"
Weight	0.5 lbs

Includes

Wohler CM 220 CO-Detector

17" Gooseneck

Article no.

Wohler TI 410 Dew Point Indicator



Application:

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

Advantages:

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

TECHNICAL DATA

Temperature

 Range
 -40...212 °F

 Resolution
 0.1 °F

 Accuracy
 0.1 °F

Size

 Housing.
 4.8" x 2.4" x 1"

 Flexarm.
 12"

 Sensor plate.
 0.4" x 1.2"

 Weight.
 1 lbs

 Supply.
 9 V block battery

Includes

Wohler TI 410 Dew Point Indicator

17" flex arm

Article no. 6808



WÖHLER

bbw

COS GOOD

Hour Min B28F 492

CDL 210

SC DECET LOG

Measuring Instruments IAQ/Building

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Wohler FA 410 Fan Anemometer	62
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Air velocity/flow rate in ductwork			
Differential temperature measurement, e.g. flow/return	•		•
Evaluation of the efficiency of an air ventialation system			
CO Ambiant			
Air humidity management in rooms/air ducts			• (Room)
Surface temperature measurement	•	•	•
Building material moisture measurement			•

MESAURED VARIABLES/ INSTRUMENT TECHNOLOGY

Air velocity			
Flowrate			
Temperature	•	•	•
Air humidity			•
Dew Point/Wet bulb temperature			•
CO ₂			
CO			
Data-interface printer, PC			• (PC)
Datalogger			
PC-Software			•

(FA 430)(FA 430)(FA 430)

Wohler RF 220 Hygrotemp	Wohler CDL 210 CO ₂ -Datalogger	Wohler KM 410 Indoor Air Quality Meter	Wohler FA 410/430 Fan Anemometer
	867 8E 183	\$93.) 	
page 59	page 60	page 61	page 62/63
			•
	•	•	•
		•	
•	• (Room)	• (Room)	• (FA 430)
			•
			•

• (PC)

• (PC)



• (Printer)

Wohler DT 310 Differential Thermometer



Application

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

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

Resolution	000 1 000 % 0 1 %
K	
J	
J	9301,400 °F 1 °F
T	
Accuracy	
K	2002,500 °F
	± 0.3 % f.m. + 0.7 °F
J	2001,400 °F
	± 0.3 % f.m. + 0.7 °F
T	
	± 0.3 % f.m. + 0.7 °F
Supply	1 x 9 V Block battery
Humidity	085 % RH (not condensing
Operating temperatu	ıre0120 °F
Size	7" x 3" x 1" (L x W x T)

Includes	
Wohler DT 310 Differential Thermometer	
2 surface probes (type K)	
Battery	
Plastic carrying case	
Article no.	6622

Accessories DT 310 Di	fferential Thermometer	Article 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	6625
	Surface temp. probe TF2 for Wohler A 500 / DT 310	6626
	Surface temp. probe TF3 angulate for Wohler A 500 / DT 310	6628
	Penetration temp. probe TF4 for Wohler A500 / DT 310	6629
	Flue gas temp. probe TF5 for Wohler A 500 / DT 310	6635
6	Surface Temperature Probe for Wohler DT 310 / A 400 / DC 410 ^{FLOW}	6679

Wohler IR Temp 210 Infrared Thermometer



Application

Non-contact temperature measurement of surfaces

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

TECHNICAL DATA	
Range	-40+932 °F
Accuracy	± 2 °F, ± 2 % f. m.
Resolution	0.1 °F
Reaction time	500 msec.
Display	LCD, 3 figure
Emission factor	
Supply	9 V battery
Size	7" x 3" x 2"

ı	Includes	
١	Wohler IR Temp 210 Infrared Thermometer	
ŀ	Hand loop	
E	Battery	
,	Article no.	6612



Wohler IR Hygrotemp 24



ECHNICAL DATA	
emperature range	4140 °F
Accuracy	±1 °F
Resolution	0.1 °F
nfrared Temperatue rang	je 40932 °F
Accuracy	±2 % o.r., absolute
	±4 °F between
	-4842 °F
	±3% or ±37.4 °F
Resolution	0.1 °F
Response time	500 msec.
Ratio	8:1
lumidity range	0 to 100% (not
	condensing), ± 3 % at
	1090 %, rest ± 5 %
Resolution	0.1 %
Vet bulb temperature	8 to 122 °F
mission factor	0.300.99 adjustable
Display	3 line LCD
Current supply	4 x 1.5V micro battery
Size	7" x 2" x 3"
Veight	

Application

- · Non-contact surface temperature measurement
- Measurement of air temperature and relative humidity
- \cdot 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

Includes

Wohler IR Hygrotemp 24

Battery

Plastic case

Article no. 6603

licie no.

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



ange	
Rel.Humidity	099 % r.H.
emperature	50140 °F
Dew point	148139.82 °F
Wet bulb temp	273.2~139.82 °F
Accuracy	
Rel. Humidity	±3 % r.H. (1090 %) otherwise ±5 % r.H.
Temperature	±1 °F
Storage temperature	4140 °F
Operating temperature	32122 °F
Weight	approx. 0.6 lbs

Includes

Wohler RF 220 with probe

Telescope tube

4 x AAA batteries

plastic carrying case

Article no.

Accessories Wohler RF 220 Hygrotemp

Article no.



Calibration Set for Wohler RF 220 / KM 410

6605

6615

Wohler CDL 210 CO₂-Datalogger



Application

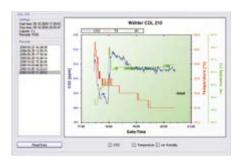
- Determination of the indoor air quality through combination of measurement and identification of:
- · The CO₂-concentration
- · The air temperature
- · The air humidity
- · For CO₂-monitoring of:
- · Housing spaces (comfortableness, humidity problems, etc.)
- Conference rooms and lounges (e.g. schools)

Advantages

- · Comfort level indicator with adjustable alarm values
- · Acoustical and visual alarm function with adjustable limit
- · Large display to show CO₂, humidity, temperature, date/time
- · Max/Min-values
- \cdot Infrared-CO $_2$ -measurement
- · Automatic calibration function
- · Non-volatile memory



TECHNICAL DATA	
CO ₂ -Measurement	
Range	
Accuracy	
°C-Measurement	
Range Resolution Accuracy	0.1 °F
Measurement of air hun	nidity
Range	595 % r.H.
List of measurement	
Readings	5,300 total
Logrates	3/10/30 sec. 1/3/10/30 min. 1/3/4 h.



Includes Wohler CDL 210 CO₂-Datalogger Power supply Data cable PC Software Article no. 6648

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:

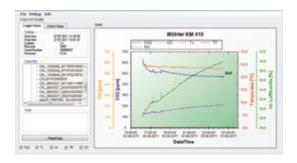
- · CO₂-content
- · Air temperature
- · Air humidity
- · CO-content
- · Dew point
- · Wet bulb temperature

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



TECHNICAL DATA	
CO ₂ -Measurement (NDIR-S	Sensor)
Range	
Resolution	1 ppm
Accuracy	
Warming phase	
Response time	< 30 sec
CO-Measurement	0 1000
Range	
Resolution Accuracy	
ricouracy	100 ppm; ±10 % between
	101500 ppm; ±20 % more
	than 501 ppm
Response time	< 60 sec.
Temperature	
Range	
ResolutionAccuracy	
Relative air humidity	±3.9 F)
	0.1 00.0 % - 11
Range	
Accuracy	
, , , , , , , , , , , , , , , , , , , ,	and 170.6 °F, ±5 % r.H. at
	other readingsand 170.6 °F
Response time	
Working temp	32122 °F
Storage temp.	4140 °F, 10-90 % r.H.
	non-condensing
Current supply	4 AA-batteries or mains
	operation via a 9 V-DC-
	adapter (not included in delivery)
	*** ***
PC	
Memory	6,000 per list of measurement readings CO ₂ , temp., r.H., CO
Logrates	1s4h 49m 59s
Size	8.2" x 2.8" x 2.2"
Weight	



Includes

Wohler KM 410 Indoor Air Quality Meter	
4 AA-batteries	
USB Data cable	
PC Software	
Manual	
Plastic case	
Article no. 428	30



Wohler FA 410 Fan Anemometer



Application

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

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



Range	
Flow velocity	
Volume flow	
Temperature Resolution	4140 F
	0.4/.
Flow velocityVolume flow	
volulite ilow	1 (10,000 – 99,999) m ³ /h
Temperatur	. , , , ,
Accuracy	
•	±(1.5 % of reading +0.3 m/s
,	for under 20 m/s,
	\pm (3 % of reading +0.3 m/s)
	for above 20 m/s
Temperature	±33.8 °F
Operating conditions	
(to avoid condensation)	32122 °F, < 90 % RH
Storage conditions	14122 °F, < 90 % RH
Power supply	4 micro batteries AAA
Dimensions	10.6" x 4.2" x 2"
Fan diameter	4"
Weight (without funnel)	0.6 lbs

Includes	Wohler FA 410 Basic Set	Wohler FA 410 Measuring funnel set
Wohler FA 410 Fan Anemometer	•	•
4 x AAA batteries	•	•
Plastic carrying case	•	•
Handy carrying bag (funnels can be clipped onto the fan anemometer)		•
Rectangular funnel: 13.62" x 13.62"		•
Round funnel: 8.3" dia.		•
Article no.	4146	4155

Wohler FA 430 Fan Anemometer





Application

- Measurement of air velocity, temperature, humidity, CO₂ 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

- Two measurements in one step: determination of flow rate and evaluation of the inlet and exhaust air quality via CO₂, T, RH
- · 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/s, 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	
Range	
Flow velocity	
Volume flow	
Temperature	
Dew point	
Wet-bulb temperature	
CO ₂	
Resolution	э,эээ ррш
Flow velocity	0.1 m/s
Volume flow	
	1 (10,000 – 99,999)
Temperature	
Relative humidity (RH)	
Dew point	
Wet-bulb temperature	
CO ₂	1 ppm
Accuracy	
Flow velocity	±(1.5 % of reading +0.3 m/ for under 20 m/s.
	±(3 % of reading +0.3 m/s)
	for above 20 m/s
Temperature	
	±3 % (at 77 °F), otherwise ±5
	±30 ppm ±5 % of reading
2	(05,000 ppm)
CO ₂ warm-up time	30 seconds
Operating conditions	
(to avoid condensation)	32122 °F, < 80 % RH
•	14122 °F, < 90 % RH
Power Supply	,
Dimensions	
Fan diameter	
Weight (without funnel)	

Includes	Wohler FA 430 incl. CO ₂ -Measurement Basic Set	Wohler FA 430 incl. CO ₂ -Measurement Measuring funnel set
Wohler FA 430 Fan Anemometer	•	•
4 x AAA batteries	•	•
Plastic carrying case	•	•
Handy carrying bag (funnels can be clipped onto the fan anemometer)		•
Rectangular funnel: 13.62" x 13.62"		•
Round funnel: 8.3" dia.		•
Article no.	4147	4156





HD-Visual Inspection

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Wohler VIS 700 HD-Visual Inspection System



MAIN APPLICATIO	NS	p. 74	
Dry environments	3" dia. or larger	•	
e.g. Flue Gas Systems	2" dia. or larger	•	
	1.5" dia. or larger	•	
Wet environments e.g. Waste Water Pipes	2" dia. or larger	•	
	1.5" dia. or larger	•	
Twin walls, cavaties, duct	s	•	

FEATURES

Focus: electronically adjustable focus range	•	
Quick Keys: Photo, Video and Focus	•	
Live image transmission via Wireless LAN	•	
Documentation: damage descriptions via touch screen and recording of voice recording	•	
DM = digital meter counter (resolution > 1") MC = metered cable	DM	
Easy to clean	•	
Locating the camera head with Wohler L 200 Locator	•	
Centering of the pan and tilt camera head (home function)	•	
SD and USB storage	•	

TECHNICAL DATA

Display	7" TFT / 1280 x 800 px (HD)
Battery Voltage & Technology/Main Support	1 x Internal Li-lon battery/ Charged by USB
Photo format/Video format	PNG / AVI
Operation time with batteries	approx. 4h
Dimensions	1.5" x 2.4" (pan & tilt)
Pan- and tilt range	360°/180°
Protection class	IP 67
Field of View (FoV)	75°
Lightning	10 x LED white
Length / Diameter	100 ft., 0.33" x 0.22"
	7" x 17" x 19"
	21 lbs
	Battery Voltage & Technology/Main Support Photo format/Video format Operation time with batteries Dimensions Pan- and tilt range Protection class Field of View (FoV) Lightning

Wohler VIS 700 HD-Cable Camera



p. 76

- •
- •
- •
- from top down

from top

- •
- •
- - •

MC

- •
- •
- •
- •

7" TFT / 1280 x 800 px (HD)

3,7 V, 11,4 Ah Li-Ion / (N)

PNG / AVI

approx. 4h

1.5" x 2.4" (pan & tilt)

360° / 180°

IP 67

75°

10 x LED white

65 ft. / 0.22"

10" x 6" x 2"

4 lbs



COMPACT AND RUGGED HIGH DEFINITION CAMERA



Wohler VIS 700 HD-Video Inspection System

The new fully digital Wohler camera generation

The Wohler VIS 700 offers exactly what professionals have been waiting for: razor sharp high definition images, a focus function for precise inspection, and wireless locating with variable frequency. The Wohler VIS 700 is the ideal inspection camera for waste water pipes, flue gas and ventilation lines as well as NDT and plumbing applications.



Sharp picture, clear menu and ergonomic design



Precise location of the camera head with the Wohler L 200 Locator



Secure drain inspection with the waterproof camera head



Inspection of flue gas lines from 2.2" dia. easily negotiates tight bends of 87°



Easy inspection of ventilation systems with the 100 ft. camera rod



Flexible and durable 100 ft. camera rod



Overview of Functions

Razor sharp HD-Video Inspection

Digital recording and high-resolution photo / video playback allow a sharp image.

Flexible Operation

The monitor can be attached to the case holder in two different positions. The image rotate automatically.

Individual control of sharpness

The motorized focus can be adjusted by touchscreen or joystick.



Far range

Close range

Comments & Voice Notes

A comments function allows you to add descriptions to captured photos. It is also possible to add voice notes to video footage.

Position and angle meters

Ensures the user knows where top and bottom are in the pipe at all times. The length of unwound cable is sensed electronically and displayed for pinpoint positioning.

Easy cleaning and a lot of space for accessories

The case is easy to clean thanks to the easily removable top shell. Moreover, the twinwall hard case also protects the camera head and the monitor.





Solid Hand-held (possible to pull-out)

The individually adjustable holder ensures a secure hold by tapping the touchscreen monitor.



Anti-glare protection

The anti-glare protection is stored in the case. If necessary it can be fixed to the monitor.

Transmission of life images by Wireless-LAN

To transmit the video signal to an external monitor or your smartphone / tablet.

Powerful Li-ion battery

With a respective operating battery life of 4 hours – high speed charging via the latest USB standard (USB-C connection).

USB stick & SD card slot

Save your pictures and videos directly to the SD card or an USB stick.

1.5" Pan & tilt color camera head

Tilts 180° from left to right and pans through 360°. Precisely adjustable depth of focus.

Durable Camera Rod

The 100 ft. camera rod is at the same time flexible and durable because of its construction.



X Applications

Analyze damage and inspect:

- · House connection pipes up to 8"
- · NDT applications
- · Flue gas systems of 2.5" and larger
- · Ventilation system ductwork
- · False ceilings, hollow spaces, shafts
- · Industrial machines / plant
- · Waste water lines of 2.5" and larger

Functionality

- HD touchscreen razor sharp recordings from any perspective
- · Adjustable depth of focus
- Optics pan 360° and tilt 180° even the smallest amount of damage is viewable
- · Camera head with integrated variable frequency transmitter
- · Electronically determined position and angle of the camera head shown on the display
- Home function aligns the camera head to a straight forward position – display parallel to the ground above
- Brightly illuminating color camera head, 1.5" in diameter and 2.5" in length, easily negotiates tight bends
- · Electronic distance counter displays position on monitor
- · Bright TFT color monitor for razor-sharp images
- · Battery operating time of 4 hours with a rechargeable Li-ion battery
- · Fully equipped mobile solution in a rugged twinwall hard case
- · Comments features touch screen keyboard for typed notes
- · Voice notes
- · Fast and effective cleaning of the camera rod

Data management

- Simply record and store photos and videos on the 32 GB SD card for documentation and archiving purposes for you and your customers
- · Wireless LAN interface

Q Locator (optional)

- · Transmitter integrated in camera head makes it possible to precisely locate the camera head
- · Pinpoint damage repairs to pipelines
- · Telescopic holder makes it easy to locate damage under floors or in ceilings
- Chalk holder with lithographic chalk to mark located damage immediately
- \cdot Long-lasting rechargeable Li-ion battery

TECHNICAL DATA

Monitor

Dimensions housing	9.8" x 6" x 2"
TFT display	7" / 16:9 format; 1280 x 800 px
Video out	HDMI
Weight	2 lbs
Power supply	USB C 5 V / 3 A
Power supply	3.7 V, 11.4 Ah, rechargeable Li-lon battery
Battery operating time	4 h (battery status in display)
Operating temperature	32104 °F
Storage temperature	4122 °F

Wohler pan & tilt camera head Ø 40 mm

Type	1/2.7" Color CMOS
Viewing angle, diagonal	75°
Focus distance	1"∞
Light source	10 white LEDs
Protection	Waterproof to IP 67 (up to 3 ft. depth for 30 mins.)
Dimensions	1.5" dia. x 2.4"
Transmit frequency of Locator.	variable

Camera rod

100 IL.
0.33" x 0.22"
1"
5% of reading

Memory

iviax. capacity of 3D caru	.32 UD
Technology	.SD or SDHC, speed class 10
Recording capacity	.Approx. 3 GB/h
Resolution recording	.1280 x 720 HD, max. 25 fp
Recording format	AVI (H264)

Double-walled plastic case

Dimensions7" x 17" x 19" (L x W x H
Total weight incl. monitor,
camera head and push rod22 lbs

Locator receiver

Display	Graphic camera position indicator
Output impedance,	
headphones	Typ. 32 Ohm
Frequency	~9 kHz
Power supply	3.7 V rechargeable Li-lon battery
Operating temperature	32104 °F
Storage temperature	14104 °F
Weight	1.33 lbs
Dimensions	12.5" x 5.5" x 2.75" (L x W x H)

☼ Product features

	Wohler VIS 700 HD-Videoinspection System	Wohler VIS 700 HD-Cable camera
FEATURES	Article no. 7082	Article no. 7447
Pan and tilt color camera head 1.5"	•	•
Detachable camera head	•	•
Position and angle display	•	•
Monitor Swivel and rotatable Removable monitor, 5 ft. connecting cord Image rotates automatically by 180° Operation via touchscreen or joystick as required Individual sharpening control via touchscreen or joystick	•	•
Digital records	•	•
High-resolution photo / video playback	•	•
Damage descriptions about commentary	•	•
Comments & Voice Notes	•	•
Position, angle and digital meters	•	•
Home-Function	•	•
Live image transmission via Wireless LAN	•	•
32 GB SD card, USB optional	•	•
Powerful Li-Ion battery	•	•
Double sling case with 100 ft. camera strap	•	
GFK camera rod 0.33x0.22 dia, 100 ft. for pushing the camera head	•	
Camera cable 65 ft. long for the camera head		•

^{• =} included | optional = retrofit or upgrade ex works, contact us

Display resolution in comparison High Definition www. Crystal Clear Screen



High Definition Display (Wohler VIS 700): razor sharp images



Crystal Clear Screen (Wohler VIS 350)



¹⁾ Excepted from this: Opening of the housing, inappropriate handling; For further information please see our guarantee guidlines.

Wohler VIS 700 HD-Video Inspection System NEW

Inspection of house connection pipes, flue gas and ventilation lines







Application

- · House connections
- · NDT Applications
- · Flue gas systems
- · Ventilation lines
- · Waste water pipes

Advantages

- · High Definition picture
- · Focus control via joystick
- · Adjustable sonde frequency
- · Voice recording/photo function
- · Touch screen keyboard for written commentary

Includes

Wohler VIS 700 Monitor with HD TFT monitor 7" incl. 60 inch cable and Li-lon battery

Wohler pan and tilt color camera head 1.5", detachable

SD memory card 32 GB

Camera rod 0.33×0.22 inch, 100 ft. long (dismountable for cleaning)

5 replacement domes

Anti slide mat

USB-charger with USB-C-cable

Plastic case

Article no.

Accessories VIS 700 I	HD-Video inspection system	Article no.
	Wohler HD 1" Camera Head	7613
	with Pan and Tilt	
	Wohler HD 1.5" Camera Head	8859
1	Wohler Guidance Set 100 Pan and tilt camera head 1.5" dia	4240
₩ •6	Pan and tilt camera nead 1.5 dia	
	Wohler Camera Holder Faces down	7068
X	Wohler VIS Centering Brush For Wohler VIS 700/VIS 400 / VIS 2xx / VIS 3xx	3850
	WILL O BUILDING	
砂等	Wohler Camera Roller Guide For pan and tiltable camera head 1.5"	3681
	Wohler VIS Spare brushes 24 pieces	3858
×	Wohler VIS Centering Star For Wohler VIS 700/VIS 2xx / 3xx	3854
×	Wohler VIS Centering Brush Extension	3853
	Wohler VIS Stabilization Tube For Wohler VIS 700/VIS 400 / 2xx / 3xx	2173€
(1)	Wohler Guidance Ball For flex part of camera push rod	3634
ng.	Wohler VIS Camera Trolley More details on page 108	4705
WE S	Wohler L 200 Locator (Receiver) More details on page 109	7430
	Wohler Protection Sleeve For camera head 1.5" dia.	2641

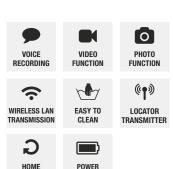


FUNCTION

Wöhler VIS 700 HD-Cable camera NEW

for visual inspection of flues, chimneys and ventilation ducts





UP TO 4h



Damage inspection and documentation for:

- · Flues from 2.2" dia.
- · Chimneys
- · Ventilation ducts according to DIN 18017



Advantages

- · Particularly suitable for top-bottom chimney inspection from the roof
- · Adjustable motor focus
- · HD picture quality
- · Watertight pan&tilt camera head Ø 40
- · Intuitive operation via 7" HD touch screen and joystick
- · Locator sender integrated in camera head
- · Orientation help display
- · Comment function: text descriptions for pictures and voice comments for videos
- · Live broadcast via WLAN

udes

Wöhler VIS 700 monitor 7" Glare protection Li-lon battery pack Carrying strap Pan&tilt camera head 1.5" dia. SD card 32 GB Camera cable 20 m with metric marking 3 replacement plastic domes USB charger with USB cable Plastic case Article no.

Accessories VIS 700 HD	O-Video inspection system	Article no.
***	Wohler Guidance Set 100 Pan and tilt camera head 1.5" dia	4240
	Wohler Camera Holder Faces down	7068
X	Wohler VIS Centering Brush For Wohler VIS 700/VIS 400 / VIS 2xx / VIS 3xx	3850
多如	Wohler Camera Roller Guide For pan and tiltable camera head 1.5"	3681
	Wohler VIS Spare brushes 24 pieces	3858
\times	Wohler VIS Centering Star For Wohler VIS 700/VIS 2xx / 3xx	3854
*	Wohler VIS Centering Brush Extension	3853
	Wohler VIS Stabilization Tube For Wohler VIS 700/VIS 400 / 2xx / 3xx	21736
(1)	Wohler Guidance Ball For flex part of camera push rod	3634
S. S.	Wohler VIS Camera Trolley More details on page 108	4705
WE IS	Wohler L 200 Locator (Receiver) More details on page 109	7430
9 ~	Wohler Protection Sleeve For camera head 1.5" dia.	2641





Visual Inspection

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Wohler VIS 200 Visual Inspection System







APPLICATIONS page 89

Dry environments e.g. Flue Gas Systems	3" dia or larger		
	2" dia or larger	•	•
	1.5" dia or larger	•	•
Wet environments e.g. Waste Water Pipes	2" dia or larger	•	•
	1.5" or larger	•	•
Twin walls, cavaties, ducts			

FEATURES

Video memory		• (4 GB SD-Card)
DM = Digital Meter Counter (increments of 0.10 ft)	•	•
Video Output		• (RCA)
Built-in sonde for location (8.9 kHz) with Wohler Locator	•	•
Still photo		•
Audio recording		

TECHNICAL DATA

TECHNICAE DATA			
Monitor	Display	7" TFT	7" TFT
	Battery Voltage & Technology/Main Support	1 x 12 V NiMH battery (Space to store 2 rechargeable NiMH batteries)/Main Supply	1 x 12 V NiMH battery (Space to store 2 rechargeable NiMH batteries)/Main Supply
	Operation Time with batteries	1 x 120 min = approx. 2 h	1 x 120 min = approx. 2 h
Camera Head	Dimensions	1" x 1.5	1" x 1.5
	Pan and tilt range		
	Protection class	IP 67	IP 67
	Field of View (FoV)	120°	120°
	Lighting	12 x LED white	12 x LED white
Cable/Push Rods	Length/Diameter	100 ft, 1/4" dia	100 ft, 1/4" dia
Total Dimensions		20" x 17" x 7"	20" x 17" x 7"
Weight		18 lbs	18 lbs

Wohler VIS 350 Visual Inspection System Wohler VIS 350 PLUS Visual Inspection System





Wohler VIS 400 Visual Inspection System

page 96	page 95	page 100
page 96	page 95	page 100

•	•	•
•	•	•
	•	•
•	•	•
	•	•
•	•	•

• (4 GB SD-Card)	• (4 GB SD-Card)	• (4 GB SD-Card)
•	•	(with Camera Viper or Cable Reel)
• (RCA)	• (RCA)	• (RCA)
•	•	
•	•	•
		•

7" TFT	7" TFT	7" TFT
2 x 12 V NiMH batteries/ Main Supply	2 x 12 V NiMH batteries/ Main Supply	1 x 12 V NiMH battery/ Main Supply
2 x 120 min = approx. 4h	2 x 120 min = approx. 4h	1 x 120 min = approx. 2h
1.5" x 2.4"	1.5" x 2.4" and 1" x 1.5	2" x 2.4"
360°/180°	360°/180°	360°/180°
IP 67	IP 67	
120°	120°	120°
12 x LED white	12 x LED white	
100 ft, 1/4" dia	100 ft, 1/4" dia	
20" x 17" x 7"	20" x 17" x 7"	8" x 8" x 1.6" (without bag)
18 lbs	18 lbs	2.6 lbs (without bag) 2.6 lbs. (monitor only) 30 lbs. (kits)



Wohler VE 200 Video-Endoscope



APPLICATIONS page 112

Dry environments e.g. Flue Gas Systems	0.4" dia to 1.5" dia	•
	1.5" dia or larger	•
Wet environments e.g. Waste Water Pipes	0.4" dia to 1.5" dia	•
	1.5" dia to 2.35" dia	•
Twin walls, cavaties, ducts		•

FEATURES

Camera head 0.33" dia	•
Attachable 2 and 3 meter probes	•
Video memory	• (Depending on the device type)

TECHNICAL DATA

Monitor	Display	Depending on the device type		
	Battery Voltage & Technology/Main Support	4 x AA Batteries		
	Operation Time with batteries			
Camera Head	Dimensions	0.33" dia		
	Protection class	IP 67		
	Field of View (FoV)	60°		
	Lighting	6 x LED adjustable		
Cable/Push Rods	Length/Diameter	4 ft., 6.5 ft., 10 ft./0.33" dia		
Total Dimensions		2" x 8.3" x 2.7"		
Weight		0.7 lbs		

Wohler VE 300 Video-Endoscope



page 113

• (8 GB SD-Card)

3.5" TFT

3.6 V Li-lon 2,600 mAh

approx. 5 to 6h

0.33" dia

IP 67

60°

Head: 6 x LED adjustable Device: Additonal lamp 4 x LED

3 ft./0.33" dia

3.5" x 5.1" x 1.5"

0.8 lbs



CLEAR VIEW, WHEN SPACE IS TIGHT.



Wohler VIS 2001250 Service Camera

Visual Inspection with crystal clear view

Wohler's innovative VIS 250 service camera enables you to easily analyze damage in pipes of 1.5" dia. and larger – and no power outlet required. Compact by design and powered by a rechargeable battery, this complete camera set is supplied in a plastic case. The camera head features a powerful, integrated light to allow you to precisely analyze damage in waste water pipes (at least 1.5" dia.) and inspect downpipes as well as flue gas lines. Absolutely essential to analyze damage quickly!



The robust color camera head is waterproof to 100 $^{\circ}$. With a diameter of just 1 $^{\circ}$ it easily negotiates 87 $^{\circ}$ bends in pipes of 1.5 $^{\circ}$ diameter and larger.



The actual distance count and the position of the head are displayed on the monitor. The Wohler L 200 Locator makes it possible to locate the camera head.



Wohler's new camera system is both compact and safely stored in a plastic case for transport and mobility.



Tiltable and removable TFT wide-screen color monitor

X Applications

Analyze damage and inspect:

- · Waste water pipes of 1.5" dia and larger
- · Ventilation lines of 1.5" 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 inch easily takes bends
- · Store video footage on a 4 GB SD card (Wohler VIS 250)
- Digital Position Indication of the camera head (Wohler VIS 250)
- · Electronic metering 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
- · Integrated video output for documentation purposes
- Battery operating time: 2 x 120 min. with 2 rechargeable batteries (optional)
- · Data exchange via mini USB cable (Wohler VIS 250)

Documentation

 Simply record and store photos and videos on a 4 GB SD card (Wohler VIS 250) for documentation and archiving purposes for you and your customers

Q Locator (optional)

- Transmitter integrated in camera head makes it possible to precisely locate the camera head
- · L 200 for 8.9 kHz frequency only
- · 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
- · Powerful rechargeable battery

TECHNICAL DATA

Monitor

Dimensions housing	7" x 5" x 1"
TFT-display	7"/16:9 format
Video out	RCA signal
Weight	18 lbs
Power supply	Space for 2 rechargeable batteries,
	each 12 V or via power pack
Battery operating time	Max. 2 rechargeable batteries, each 120 mins. = 4

1/2" COLOR CMOS

(battery status in display)

Miniature camera head, color 1"

турб	I/S COLUIT GIVIOS
Resolution	420 lines
Pixels	768 x 576 (PAL), 656 x 492 (NTSC)
Light sensitivity	0.5 Lux
Lens	f = 2.3", F = 2.5
Viewing angle	120°
Light source	12 white LEDs
Degree of protection	Waterproof to IP 67
Dimensions	1" x 1.5"
Weight	0.53 lbs
Operation temperature	32104 °F, RH 95 % MAX
Storage temperature	4122 °F, RH 95 % MAX
Transmitter frequency	8.9 kHz
Push rod	100', .26" dia

Distance measurement

Wohler VIS 200 | 250 Electronic meter counter

Plastic case

Memory (Wohler VIS 250)

Locator transmitter

Transmitter frequency8.9 kHz

Locator receiver

Dimensions

Display. Graphic visualization of transmitted position
Output impedance Headphones. 32 Ohm
Power supply. 3.7 V Li-lon rechargeable battery
Operating temperature. 32...104 °F
Storage temperature. 14...104 °F
Weight 1.33 lbs

.12.5" x 5.5" x 3" (L x W x H)

☼ Product features

	Wohler VIS 200 Service Camera	Wohler VIS 250 Service Camera
FEATURES	Article no. 6261	Article no. 6253
Fixed color camera head 1" diameter	•	•
Digital meter counter	•	•
Photo and Video recording		•
Menu		•
Video settings		•
Transmitter / Probe	•	•
Angle and gravity indicator		•

 $\bullet = \mathsf{included}$



Wohler VIS 200 Visual Inspection System













Application

Analyze damage and inspect:

- · Waste water pipes of 1.5" dia. and larger
- · Ventilation lines of 1.5" dia. and larger
- · Inspect hollow spaces, e.g. in front-wall installations
- · Flue gas lines up to approx. 6" dia.

- · Ideal for analyzing household waste water pipes of 1.5" dia and larger
- Flexible The camera is capable of maneuvering through several turns
- Position of waterproof camera head indicated on the display
- · Integrated locator transmitter precisely locates damage
- Up to 4 hours flexibility-storage space for 2 batteries (2nd battery optional)
- · 100 ft. push rod
- · Compact and safely stored for transport and mobility in a plastic case

Includes	Wohler VIS 200 Basic Set	Wohler VIS 200 with Locator	
Wohler VIS 200 Visual Inspection System – NTSC	•	•	
Digital meter counter	•	•	
Heavy duty carrying case	•	•	
Miniature color camera head 1" dia. V2 - NTSC	•	•	
7" TFT color monitor	•	•	
6 ft. connection cable (removable monitor)	•	•	
100 ft. push rod 0.26" dia.	•	•	
Anti-slide mat	•	•	
NiMH battery with charger	•	•	
Guidance sleeve for mini camera head	•	•	
Guidance ball for flex part of camera push rod	•	•	
Wohler L 200 Locator (Receiver)		•	
Article no.	6261	8937	

Wohler VIS 250 Visual Inspection System



1"
diameter
MINIATURE COLOR
CAMERAHEAD













Application

Analysis of defects and inspection of:

- · Waste water pipes 1.5" 6" diameter
- · Exhaust systems from 1.5" 6" diameter
- · Air lines of ventilation ducts
- · Industrial equipment / machines
- · Cavities (e.g., drywall installations)

- · Ideal for analyzing household waste water pipes of 1.5" dia. and larger
- · Flexible The camera is capable of maneuvering through several turns
- Position of waterproof camera head indicated in the display
- · Integrated locator transmitter precisely locates damage
- Up to 4 hours flexibility-storage space for 2 batteries (2nd battery optional)
- · 100 ft. push rod
- Compact and safely stored for transport and mobility in a plastic case

Includes	Wohler VIS 250 Basic Set	Wohler VIS 250 with Locator	
Wohler VIS 250 Visual Inspection System - NTSC	•	•	
Digital meter counter	•	•	
Heavy duty carrying case	•	•	
Miniature color camera head 1" dia, V2 - NTSC	•	•	
4 GB SD card and mini USB cable	•	•	
7" TFT color monitor	•	•	
6 ft. connection cable (removable monitor)	•	•	
100 ft. push rod 0.26" dia.	•	•	
Anti-slide mat	•	•	
NiMH battery with charger	•	•	
Guidance sleeve for mini camera head	•	•	
Guidance ball for flex part of camera push rod	•	•	
Wohler L 200 Locator (Receiver)		•	
Article no.	6253	8932	



Accessories VIS 200/VI	S 250 Visual Inspection System	Article no.
*	Wohler VIS Guidance Set 70 For 1" camera head Includes: Wohler Guidance Sleeve with protection cage, Wohler VIS Centering Brush for Wohler VIS 400/VIS 2xx/VIS 3xx/VIS 700	3883
×	Wohler VIS Centering Star For Wohler VIS 2xx/3xx 8" diameter with thumb screw	3854
*	Wohler VIS Centering Brush Extension 8" diameter with inner and outer thread for endless extension	3853
X	Wohler VIS Centering Brush For Wohler VIS 400/VIS 2xx/VIS 3xx Include that this brush is 8" diameter	3850
	Wohler VIS Spare brushes 24 pieces	3858
N. T.	Wohler VIS Stabilization Tube For Wohler VIS 400/2xx/3xx	21736
	Wohler Guidance Sleeve For 1" camera head	3827
	Wohler Guidance Sleeve With protection cage For 1" camera head	3847
砂等	Wohler Camera Roller Guide For pan and tiltable camera head 1.5"	3681
	Sunshade for Wohler VIS 2xx and VIS 3xx	6814
	Case VIS 2xx / VIS 3xx / A 400	52929

Accessories VIS 200/	VIS 250 Visual Inspection System	Article no.
	Wohler Guidance Ball	3634
(A)	For flex part of camera push rod	
	Relining Adapter	6888
₹¥	Relining Adapter Set Includes: Relining adapter for the VIS 3xx, Wohler VIS stabilization tubes (Wohler VIS 2xx, 3xx and 400), VIS centering star for Wohler VIS 2xx/3xx	6889
	Power Supply For Wohler VIS 3xx/VIS 2xx	4798
	Battery 12 V NiMh 2600 mAh For Wohler VIS 2xx/VIS 3xx	4715
WE IS	Wohler L 200 Locator (Receiver)	7430
	Wohler VIS Cleaning Set	4725
	Wohler VIS Cleaning Set Refill	4726
	Quick-Charger For Wohler VIS 2xx and 3xx	53648
	Wohler Light Ring 1/1.5, detachable For camera heads 1" diameter and 1.5" diameter	8894
Q.	Wohler VIS Camera Trolley	4705
a R	Wohler VIS Camera Trolley - Set Includes: Stabilizing sleeve for light ring, Stabilizing sleeve with M10 thread	4753



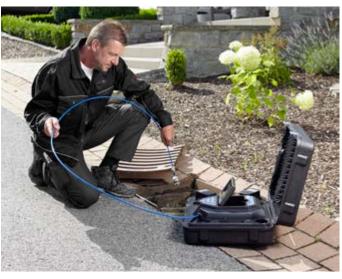
UNIQUELY CLEAR VIEW.



Wohler VIS 350 Visual Inspection System

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

With the Wohler VIS 350 camera system, you not only have everything you need to inspect waste water pipes, flue gas and ventilation lines as well as industrial systems – you can also precisely locate the damage and accurately document the results of the inspection.



The 100 $\,$ ft. push rod and the pan&tilt color camera head make sure nothing in the house supply line remains hidden from your view.



The Wohler VIS 350 precisely locates radio waves transmitted by the camera head through concrete and asphalt to save a lot of time and further building damage.



The 360° pan and 180° tiltable color camera head easily negotiates 87° bends.



The camera head is equipped with a transmitter – that means the camera head can easily be located with the Wohler L 200 Locator.



The Home button realigns the camera head to its initial position.



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.

X 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 from your view
- · Store video footage and photos on a 4 GB SD card
- 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 the monitor
- 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

Documentation

 Simply record and store photos and videos on a 4 GB SD card for documentation and archiving purposes for you and your customers.

♦ Locator (optional)

- · Transmitter integrated in camera head makes it possible to precisely locate the camera head
- · Facilitates targeted repairs to damaged pipelines
- · L 200 for 8.9 kHz frequency only
- 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

TECHNICAL DATA Dimensions housing. .7" x 4.5" x 1.25" TFT-Display .7" / 16:9 format Video-Out . .RCA signal Weight... .0.88 lbs Power Supply. .Space for 2 rechargeable batteries, each 12 V or via power pack Battery operating timeMax. 2 rechargeable batteries, each 120 mins. = 4 h (battery status in display) Pan & tilt color camera head 1.5" diameter Type....1/3" COLOR CMOS Pixels. .768 x 576 (PAL), 656 x 492 (NTSC) .f = 0.09", F = 2.5 Lens. Viewing angle... ..160° Light source12 white LEDs Degree of protection...... .Waterproof to IP 67 .1.5" dia. x 2.4"; 100', 0.33" dia Dimensions... .32...104 °F, RH 95 % MAX Operating temperature... Storage temperature-4...122 °F, RH 95 % MAX Push rod Lenath... 67 ft Diameter. .0.26" Plastic case .20" x 17" x 6.7" (L x W x H) Dimensions Weight. .18 lbs Distance Measurement Wohler VIS 300 | 350Electronic meter counter Accuracy. +5 % Memory (Wohler VIS 350) Recording .4 GB SD card (5 h recording capacity) Interface. .Mini USB port Locator transmitter Transmission frequency..... .8.9 kHz Locator receiver .Graphic visualization of transmitted position Display Output impedance .32 Ohm Headphones Power supply... .3.7 V Li-lon rechargeable battery Operating temperature... .32...104 °F .14...104 °F Storage temperature ...

.1.33 lbs

.12.6" x 5.5" x 2.75" (L x W x H)

Weight.

Dimensions.

☼ Product features

	Wohler VIS 350 Visual Inspection System	Wohler VIS 350 Visual Inspection System	Wohler VIS 350 ^{PLUS} Visual Inspection System
FEATURES	Article no. 7354	Article no. 6352	Article no. 8927
Color camera head 1.5" dia., pan and tilt, fixed	•		
Color camera head 1" dia.		•	•
Color camera head 1.5" dia., removable		•	•
Digital distance measurement	•	•	•
Photo and Video recording	•	•	•
Menu	•	•	•
Video settings		•	•
Transmitter / Probe		•	•
Level indicator		•	•
Home-Function		•	•



^{• =} included | I optional = retrofit or upgrade, contact us

1) Excepted from this: Opening of the housing, inappropriate handling; For further information please see our guarantee guidlines.

sual Inspection

Wohler VIS 350 Visual Inspection System





Application

Analysis and verification of:

- · 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

- Video inspection system proven over many years – now developed even further
- · Position of camera head indicated in the display
- Keep your sense of orientation with the home function – camera aligns itself automatically
- · 4 hours flexibility 2 rechargeable batteries for lasting mobility
- · Built-in location transmitter facilitates wireless location detection

1 1 " diameter	64°	(**)		0	
PAN & TILT COLOR	POSITION &	LOCATOR	VIDEO	PHOTO	POWER
CAMERA HEAD	Angle Display	TRANSMITTER	FUNCTION	Function	UP TO 4h

Includes	Wohler VIS 350 Fixed Pan and tilt color camera head 1.5"	Wohler VIS 350 Detachable Pan and tilt color camera head 1.5"
Wohler VIS 350 NTSC Visual Inspection Camera	•	•
Pan and tilt color camera head 1.5" – NTSC – detachable		•
Pan and tilt color camera head 1.5" – NTSC – Fixed	•	
Digital meter counter	•	•
Heavy duty carrying case	•	•
Video and still picture recording function	•	•
4 GB SD card and mini USB cable	•	•
7" TFT color monitor	•	•
80" connection cable (removable monitor)	•	•
100 ft. push rod 0.33" diameter	•	•
5 plastic domes	•	•
Anti-slide mat	•	•
2 NiMH batteries with charger	•	•
Article no.	7354	6352

Wohler VIS 350PLUS Visual Inspection System





Application

Analysis and verification of:

- · Waste water pipes from 2.75" dia.
- · Exhaust systems from 2.3" dia.
- · House connections up to 7.87" dia.
- · Ventilation system duct work
- · Suspended ceilings, shafts
- · Industrial machinery / equipment

- Video inspection system proven over many years – now developed even further
- · Position of camera head indicated in the display
- Keep your sense of orientation with the home function – camera aligns itself automatically
- · 4 hours flexibility 2 rechargeable batteries for lasting mobility
- · Built-in location transmitter facilitates wireless location detection

Includes	Wohler VIS 350 ^{PLUS} with 1" and 1.5" camera head	Wohler VIS 350 ^{PLUS} with Locator
Wohler VIS 350 NTSC Visual Inspection Camera	•	•
Digital meter counter	•	•
Heavy duty carrying case	•	•
Video and still picture recording function	•	•
Detachable pan and tilt color camera head 1.5" diameter – NTSC	•	•
Detachable miniature color camera head 1" diameter incl. guidance sleeve	•	•
Guidance ball for push rod	•	•
4 GB SD card and mini USB cable	•	•
7" TFT color monitor	•	•
6 ft. connection cable (removable monitor)	•	•
100 ft push rod 0.33" dia	•	•
5 plastic domes	•	•
Anti-slide mat	•	•
2 NiMH batteries with charger	•	•
Wohler L 200 Locator (Receiver)		•
Article no.	8927	8931



Accessories VIS 350/VI	S 350 ^{PLUS} Visual Inspection System	Article no.
. 1	Wohler Guidance Set 100 for VIS 3xx	4240
Va	Pan and tilt camera head 1.5" dia	.2.0
100	Includes: Wohler Camera Roller Guide for pan and tiltable camera head 1.5", Wohler Protection Sleeve for camera head 1.5" dia, Wohler VIS Centering Star for Wohler VIS 2xx/3xx	
Abres des	Wohler Camera Roller Guide	3681
	For pan and tiltable camera head 1.5"	
X	Wohler VIS Centering Brush For Wohler VIS 400/VIS 2xx/VIS 3xx With brush is 8"	3850
*	Wohler VIS Centering Star For Wohler VIS 2xx/VIS 3xx 8" diameter, threaded with thumb screw	3854
*	Wohler VIS Centering Brush Extension 8" diameter, inner and outer thread for endless extension	3853
21/2	Wohler VIS Spare brushes 24 pieces	3858
	Wohler VIS Stabilization Tube For Wohler VIS 400/2xx/3xx	21736
(1)	Wohler Guidance Ball For flex part of camera push rod	3634
	Power Supply	4700
(4.5	For Wohler VIS 3xx/VIS 2xx	4798
	Battery 12 V NiMh 2600 mAh For Wohler VIS 3xx/VIS 2xx	4715
	Quick-Charger For Wohler VIS 2xx and 3xx	53648
•	Wohler Guidance Sleeve For 1" camera head	3827
	Wohler Guidance Sleeve With protection cage For 1" camera head	3847
	Case VIS 2xx / VIS 3xx / A 400	52929



Accessories VIS 350/V	IS 350 ^{PLUS} Visual Inspection System	Article no.
	Relining Adapter for VIS 3xx	6888
 *	Re-lining adapter set Includes: Relining adapter for the VIS 3xx, Wohler VIS stabilization tubes for VIS 2xx, 3xx and 400, VIS centering star for VIS 2xx/3xx	6889
	Wohler Protection Sleeve For camera head 1.5" dia. with cutout	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.	3675
	Anti slide mat for VIS 2xx/VIS 3xx	3252
	Sunshade for Wohler VIS 2xx/VIS 3xx	6814
W. F.	Wohler L 200 Locator (Receiver)	7430
	Wohler VIS Cleaning Set	4725
	Wohler VIS Cleaning Set Refill	4726
110 Terrani -	Wohler Light Ring 1/1.5", detachable	8894
	For camera heads 1" dia. and 1.5" dia.	
Contract of the contract of th	Wohler VIS Camera Trolley	4705
S.	Wohler VIS Camera Trolley – Set Includes: Stabilizing sleeve for light ring, Stabilizing sleeve with M10 thread	4753



MODULAR POINT OF VIEW.



Wohler VIS 400 Visual Inspection Modular System

Professional Modular Visual Inspection System

The Wohler VIS 400 is the most versatile Wohler camera system. Depending on your application, you can build your own tailored video inspection system by pairing different camera heads, push rods or soft cables. Features such as video recording, voice over commentary and still images make inspections quick and thorough. Distance measuring, home function, level indicator and built in sonde are all standard with the Wohler VIS 400 systems.



Professionelly equipped with camera viper for inspecting underground pipelines



Optimum viewing perfect for bottom-up or top-down chimney inspection



Monitor sun protection ensures optimum viewing even in the glare of the sun $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left$



Put your camera system together to suit your requirements and wishes

X Applications

Analyze damage and visually inspect:

- · Flue gas systems
- · Building drains, house connections
- · Chimneys
- · Ductwork

Functionality

- · CCS-image technology (Crystal Clear Screen)
- Modular system all components can be combined for individual needs
- · Pan and tilt color camera heads with integrated power lighting easily negotiate bends in the line
- · Digital meter counter displayed on the monitor
- · Mini USB port for data transfer
- · Waterproof camera heads (1" dia./1.5" dia.)
- · Incl. carrying belt and protection bag for monitor

Documentation

 Integrated video output – simply record and save pictures, videos and voice on a 4 GB SD card for documentation and archiving purposes for you and your customers add a period

Q Locator (optional)

- Transmitter integrated in camera head makes it possible to precisely locate the camera head (except 2" dia. camera head)
- · L 200 for 8.9 kHz frequency only
- · Pinpoint damages in pipes for repair
- Telescopic holder makes it possible to locate damage under floors or in ceilings
- Chalk holder with chalk to mark located damage immediately
- · Powerful rechargeable battery

TECHNICAL DATA Monitor

TFT-display	7"/16:9 Format
Video out	RCA-Signal
Power Supply	12 V NiMH rechargeable battery, 2,000 mAh
Battery operating time	2 h (battery status in display
Distance measurement	Digital meter counter in conjunction with the
	camera viper and cable reel
Storage	4 GB SD-card (5 h recording capacity)
Interface	Mini USB port
Operating temperature	32104 °F
Storage temperature	-4122 °F
Dimensions housing without pouch	7.8" x 7.7" x 1.5"
Dimensions housing with pouch	8.2" x 8.2" x 2.3"
Weight	Without pouch 2.65 lbs; with pouch 3.75 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:



Wohler Cable reel with soft video cable connectable with every Wohler camera head



Wohler Viper reel with a push rod

Camera Heads

The modular system Wohler VIS 400 can be combined with different pan & tilt camera heads:



Wohler camera head 2" dia.



Wohler camera head 1.5" dia., detachabel compatible with Wohler L 200 Locator



Wohler miniature camera head 1" dia., detachabel compatible with Wohler L 200 Locator

Wohler VIS 400 Camera

















Application

- · Top down chimney inspection
- · Vertical inspection of vents and flues

- · Compact no unnecessary weight on the roof
- · Additional LEDs "high beam" setting
- · 2" color pan & tilt camera head
- · Modular system
- · Light weight 3 lbs only
- · Incl. carrying belt and protection bag

Includes	Wohler VIS 400 Monitor	Wohler VIS 400 Standard Set
Wohler VIS 400 color monitor – NTSC	•	•
Leather protection bag with glare protection and shoulder belts	•	•
Pan and tilt camera head 2" dia - NTSC		•
Camera cable 100 ft		•
Mini USB cable	•	
4 GB SD card	•	•
Charger	•	•
Plastic case	•	•
Article no.	4781	4133

Wohler VIS 400 Cable Reel Camera



















Application

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

Advantages

- · 2" color pan and 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



Includes	Wohler VIS 400 Contractor Kit	Wohler VIS 400 Chimney Kit
Wohler VIS 400 color monitor - NTSC	•	•
Leather protection bag and shoulder belt		•
Pan and tilt color camera head 2" dia	•	•
Camera holder for bottom-up chimney inspection		•
Stabilization sleeve for color camera head	•	
Camera roller guide with protection cage	•	
Camera viper with 100 ft push rod 0.28" dia	•	
Cable reel with integrated distance measurement (resolution 2", shown on screen)		•
4 GB SD card	•	•
Replacement glass dome for camera head		•
Camera cable 100 ft with distance counter		•
Aluminium case XXL	•	•
Article no.	4152	4153

1) E Home function not available with 2" camera , 1.5" camera head only

Accessories VIS 400 Visi	ual Inspection System	Article no.
	Wohler VIS 400 Visual Inspection Monitor	4781
	Wohler Camera Head 1 1/2" dia, V2 NTSC, detachable	8926
E-E	Wohler 1" Camera Head V2 NTSC, detachable	8934
0	Wohler Camera Head 2" NTSC, detachable	7853
	Wohler Replacement Glass Dome	7802
	Replacement Glass Dome With protection cage	3494
	Plastic domes for 2" camera head Pack of 5 pieces	7075
	Wohler Protection Sleeve For camera head 1.5" dia	2641
6	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.	3675
WE!	Wohler L 200 Locator (Receiver)	7430

Accessories VIS 400 Vis	sual Inspection System	Article no.
100	Extension camera cable	
	Without distance marking	
	32 ft.	8636
3	65 ft.	9172
	100 ft.	7812
	165 ft.	7845
\ >	Wohler camera push rod 0.28" diameter	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	65 ft.	7000
	100 ft.	7829
		7306
\cap	Special Cable Connector With two female ends	9184
	Wohler Telescopic Tube	7005
	With flexible 1 ft. gooseneck Length of telescopic tube 3 to 5 ft. plus gooseneck	
	Wohler Telescopic Tube	7004
	With flexible gooseneck	7024
0_	Length of telescopic tube 3 to 11 ft. plus gooseneck	
	Wohler Camera Viper 42	
	With GRP push rod 0.3" dia,	
	00 # Jana	7007
	98 ft. long 65 ft. long	7307
		7309
-	Wohler VIS 400 Cable Reel With integrated distance measurement (shown on monitor, shoulder strap and connection cable to monitor,	7816
(Ga)	without video cable)	
1-//	Wohler Camera Viper Reel	7000
1	With digital distance counter	7822
	For GRP camera rod 0.3" dia, 100 ft. long (comes without camera)	
64		
sai.	Wohler VIS Guidance Set 150	2000
The Wall	For 2" camera head	3882
7	Includes: Wohler camera protection with brushes for 2" camera head, Wohler VIS Stabilization Tube for	
3/11/1	Wohler VIS 400/2xx/3xx, Wohler VIS Centering Brush Extension, Wohler VIS Centering Star for Wohler VIS 2xx/3xx	
	Wohler VIS Guidance Set 110	3881
	For 2" camera head	3001
	Wohler Camera Spring Guide	8633
	For 2" camera head	
6		
	Wohler Camera Holder	3720
(1999)	Faces down	
-		



Accessories VIS 400 Vis	sual Inspection System	Article no.
Carried States	Wohler VIS Camera Trolley	4705
3	Wohler VIS Camera Trolley - Set Includes: Stabilizing sleeve for light ring, Stabilizing sleeve with M10 thread	4753
	Relining Adapter for VIS 3xx	6888
 	Re-lining adapter set Includes: Relining adapter for the VIS 3xx, Wohler VIS stabilization tubes (Wohler VIS 2xx, 3xx and 400), VIS centering star for VIS 2xx/3xx	6889
***	Wohler Guidance Set 100 for VIS 3xx Pan and tilt camera head 1.5" dia Includes: Wohler Camera Roller Guide for pan and tiltable camera head 1.5", Wohler Protection Sleeve for camera head 1.5" dia, Wohler VIS Centering Star for Wohler VIS 2xx/3xx	4240
*	Wohler VIS Guidance Set 70 For 1" dia. camera head Includes: Wohler Guidance Sleeve with protection cage, Wohler VIS Centering Brush for Wohler VIS 400/VIS 2xx/VIS 3xx/VIS 700	3883
*	Wohler camera protection with brushes For 2" dia. camera head	3855
	Wohler camera roller guide With protection cage for 2" dia. camera head	7826
-	Wohler stabilization sleeve For 2" dia. camera head	3590
	Wohler stabilization sleeve For 2" dia. camera head	3591
	Wohler Guidance Sleeve For 1" dia. camera head	3827
	Wohler Guidance Sleeve With protection cage	3847
X	Wohler VIS Centering Brush For Wohler VIS 400/VIS 2xx/VIS 3xx 8" diameter	3850

Accessories VIS 400 Vis	sual Inspection System	Article no.
8	Wohler Guidance Weight Stainless Steel For top to bottom inspections	3857
* 40	Wohler Camera Roller Guide For pan and tiltable camera head 1.5"	3681
-\\\\\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	Wohler VIS Spare brushes 24 pieces	3858
	Wohler VIS Centering Star For Wohler VIS 2xx / 3xx 8" dia., with M10 thread	3854
×	Wohler VIS Centering Brush Extension 8" dia. with inner and outer thread for endless extension	3853
	Wohler VIS Stabilization Tube For Wohler VIS 400 / 2xx / 3xx	21736
6	Wohler Guidance Ball For flex part of camera push rod	3634
	Wohler Light Ring 1"/1.5" dia., detachable For camera heads 1" dia. and 1.5" diameter	8894
	Wohler Supplementary Light For Wohler Camera Head 2"	4194
	Cable reel with 100 ft camera cable	4166x
-	Plastic Case VIS 400 VIS 400 Monitor Case	4131
85	Aluminium Case XXL For Wohler VIS 400 Cable Reel Camera	5824



Wohler VIS Camera Trolley

Flexibility in ductwork and pipes







Application

For Inspection of:

- · Pipelines
- · Seamless chimneys
- · Duct work, 6" and larger

- · Rugged, stainless steel body
- · Operates in unsteady conditions (tilting, sharp turns)
- · Operates with any Wohler camera head
- · Adjustable camera head angle

Includes	Wohler VIS Camera Trolley	Wohler VIS Camera Trolley - Set
Wohler VIS Camera Trolley	•	•
Camerahead-holder	•	•
Storage bag Wohler VIS Camera Trolley	•	•
Stabilizing sleeve for Supplementary Light detachable or VIS cameraheads 2"		•
Stabilizing sleeve for adaptation of push rods with threaded connection M10		•
Article no.	4705	4753

Wohler L 200 Locator

Locates the radio signal transmitted by the camera head









Application

The Wohler L 200 Locator makes it possible to locate the Wohler VIS Camera heads Wohler VIS 200 / 250 / 350/700 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
- · Wohler Locator L 200 is 8.9 kHz
- · 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

Includes

Wohler L 200 Locator Receiver

Plastic case

USB power supply with micro USB cable

Chalk (12 pcs. box, yellow)

Telescopic rod

Headphones

Article no. 7430

Wohler VE 200 Video-Endoscope



Application

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

Advantages

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



TECHNICAL DATA	
Signal transmission	
Wireless LAN	IEEE 000 44 1 / /
Network Standard	
Antenna Frequency	
Data transmission rate	Z.4 UHZ
wireless card with	
802.11 a/b/g/n	up to 150 Mbit/s
Recording	
Camera Head	
Image Resolution	
Video Resolution	
VIGCO FIGSOIGHOIT	1024 x 768 Pixel
	1280 x 720 Pixel
Angle of view	60°
Probe length	4 ft.
Pite fermale	
File formats	t
Image formatVideo format	
Light source	
Additional light source	
Power Supply	

.Waterproof to IP 67











Includes

Protection.

Wohler VE 200	
4 ft. gooseneck probe, 0.33" dia.	
Li-lon battery	
Side view mirror	
Magnetic plug	
8 GB Micro SD	
USB charger, USB adapter	
Video cable	
Plastic case	
Article no. 779	2

Wohler VE 300 Video-Endoscope







Application

For inspection of inaccessible cavities (for example: roof insulation, exhaust pipes, sinks, fireplaces) with 0.33" probe

Advantages

- · Snapshot and Video Functions
- · Zoom function
- · 3.5 inch color LCD monitor
- · 3 ft. gooseneck probe
- Variable light intensity of the flashlight for illumination of cavities



TECHNICAL DATA	
Monitor Resolution	
Dimensions Housing	
Monitor Resolution	'
Menu Languages	English, German, Spanish,
	French, Russian, Italian,
	Dutch
Ports	
	Micro-SD-Card slot
Camera Head	0.00# #
Camera Head	
Image Resolution	
Focus Angle of view	
	0.32" dia; 6 adjustable LEDs
riasii iiyiit	0.22"; 4 adjustable LEDs (opt.
IP protection class	0.22 , 4 aujustable LLDs (opt.
camera head	IP 67
Probe length	
Recording formats	
Image format	JPEG
	640 x 480 Pixel, 1,600 x
•	1,200 Pixel, 2,048 x 1,536
	Pixel
Video format	AVI
Video Resolution	320 x 240 Pixel, 640 x 480
	Pixel, 1280 x 720 Pixel
Storage	
Working temperature	
	2,600 mAh Lithium battery
Max. battery life	
Weight	

Includes

The Wohler VE 300 Video-Endoscope	
3 ft. Endoscope probe, 0.33" dia.	
Li-Ion battery, rechargeble	
Side view mirror	
Magnetic plug	
Hook attachment	
8 GB Micro SD	
USB charger, USB adapter (Adapter for Europe)	
Video cable	
Plastic case	
Article no.	592







Probe, 10 ft. long, 0.33" **dia** For Wohler VE 200 Video-Endoscope 7792VE3

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 from 0.5 inches to 3 ft.

Includes	Wohler glass Mirror handset 2"x3"	Wohler glass Mirror small with telescopic handle	Wohler glass Mirror medium with telescopic handle	Wohler glass Mirror large with telescopic handle
Wohler Glass Mirror handset	•			
Wohler Glass Mirror small up to 3 ft. extendable		•		
Wohler Glass Mirror medium up to 3 ft. extendable			•	
Wohler Glass Mirror large up to 3 ft. extendable				•
Ball joint (pan and tilt)		•	•	•
Mirror plate 1x3"		•		
Mirror plate 2x3"	•		•	
Mirror plate 3x6"				•
Aluminium edge protector		•	•	•
Leather cover	•	•	•	•
Article no.	5064	8064	8059	8087

Wohler Metal Chimney Mirror



Application

- · Inspection of objects hard to reach
- · Inspection of chimneys

Advantages

- · Chromed and polished
- · Tiltable handle

Includes

Wohler chimney mirror

Metal mirror plate 3x4"

Telescopic handle 21"

Leather sleeve

Article no. 1748





Sweep Instruments

PRODUCT OVERVIEW SWEEP INSTRUMENTS	118 – 119	
WOHLER VIPERS	120 – 125	
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Wohler Viper XL/XXL

Wohler Viper L





APPLICATIONS (depends on accessories)

page 120

page 121

Chimneys	6" to 8"		•
	8" to 16"		•
	16" and bigger	•	
Flue Gas lines	2" to 6"		
	6" to 10"		•
	10" and bigger	•	•
Air duct	3" to 6"		
	6" to 10"		•
	10" to 16"	•	
	16" and bigger	•	

FEATURES AND BENEFITS

Horizontal and vertical cleaning	•	•
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.
Size/weight	32" or 39" dia./46 to 75 lbs	23" dia./9 to 12 lbs
M5 thread		
M10 thread	•	•

Wohler Handy Viper M	Wohler H 420 Viper M	Wohler Mini Viper/ Wohler Mini Viper S	Wohler Rotary Duct M10
			*
page 122	page 123	page 122	page 125
•	•		
•	•	•	•
•	•		•
•	•	•	•
•	•		•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	
•			•
•	•		
50 or 65 ft./GRP-Rod 0.35" dia	50 or 65 ft/GRP-Rod 0.35" dia	50 ft/GRP-Rod 0.2" dia	5 to 33 ft./GRP-Rod 0.6" dia
17" dia/4 lbs	17" dia/4 lbs	13" dia/2.5 lbs	3 to 4 lbs
		• (Mini Viper)	

• (Mini Viper S)



Compressed air supply

Wohler Viper XL/XXL



ECHNICAL DATA	•
Vohler Viper XL	
Cage diameter	31.5"
Vidth	20"
leight	37"
Veight	46 lbs
Vohler Viper XXL	
Cage diameter	40"
Vidth	20"
leight	46"
Veight	75 lbs

Application

Industrial grade viper for sweeping chimneys, ventilation lines or pipes

- GRP Rod with resistant coat and distance marking
- A camera trolley with a Wohler camera head can be installed and pushed
- · Push rod supports large star brushes and threaded brushes

Includes	Wohler Viper XL	Wohler Viper XXL
Viper cage 31.5" and wheels	•	
Viper cage 40" and wheels		•
GRP Rod 0.43" dia with stainless steel end pieces M10, 164 ft. long	•	
GRP Rod 0.43" dia with stainless steel end pieces M10, 328 ft. long		•
GRP-starholder 1.1" dia (without brush)	•	•
Article no.	3332	3337

Accessories Wohler Vi	per XL / XXL	Article no.
==>	GRP Rod Repair Kit with stainless steel end piece, screws and allen wrench 0.43" dia	3691
	GRP Rod 0.43" dia., 164 ft. long	4350
***	Perlon Brush Kit Includes 1- 8 inch M10 thread brush, 1- 10 inch M10 thread brush, 1- 12 inch M10 thread brush, 1-14 inch M10 thread brush	5529
	HT Brush Kit Includes 2- 6 inch star brushes, 4- 8 inch star brushes, 2- 10 inch star brushes	3710
رفان	Stainless Steel Brush Kit Includes 3- 8 inch star brushes, 6- 10 inch star brushes, 6- 12 inch star brushes	3709

Wohler Viper L





Application

For sweeping chimneys, ventilation, systems or pipes



TECHNICAL DATA	A
Cage diameter	23"
Height	24"
Weight	9.5 lbs – 12 lbs
Brake	adjustable, additional
	lock for transportation

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

Includes	Wohler Viper L GRP Rod 0.35" dia, 50 ft. long	Wohler Viper L GRP Rod 0.35" dia, 65 ft. long
Wohler Viper L	•	•
Two stainless steel end pieces M10	•	•
GRP-starholder 1.1" dia	•	•
Protection tube 31.5 ft long (without brush)	•	•
Article no.	9412	9413

Accessories Wohler Vi	per XL / XXL	Article no.
\Longrightarrow	GRP Rod Repair Kit With stainless steel end piece, screws and allen wrench 0.43" dia.	3690
	GRP Rod	
	0.35" dia., 50 ft. long	9015
	0.35" dia., 65 ft. long	9020
***	Perlon Brush Kit Includes 1- 8 inch M10 thread brush, 1- 10 inch M10 thread brush, 1- 12 inch M10 thread brush, 1-14 inch M10 thread brush	5529
	HT Brush Kit Includes 2- 6 inch star brushes, 4- 8 inch star brushes, 2- 10 inch star brushes	3710
300	Stainless Steel Brush Kit Includes 3- 8 inch star brushes, 6- 10 inch star brushes, 6- 12 inch star brushes	3709



Wohler Handy Viper M



TECHNICAL DATA	
Cage diameter	16.5"
Width	4.33"
Weight	4.62 lbs.
	incl. 49 ft. GRP rod
Freewheel brake	precisely adjustable

Application

Perfect tool for cleaning flue gas systems, chimneys of up to 9.84" as well as ducts and pipework

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

Includes	Wohler Viper M 50 ft. long	Wohler Viper M 65 ft. long
Wohler Handy Viper M	•	•
GRP Rod 0.35" dia, 50 ft. long	•	
GRP Rod 0.35" dia, 65 ft. long		•
(without stars)	•	•
Article no.	7649	7648

Accessories Wohler H	420 Viper M	Article no.
==>	GRP Rod Repair Kit With stainless steel end piece, screws and allen wrench 0.35" dia.	3696
	GRP Rod PA-coat with length marking, with stainless steel end piece M10 internal thread	
	0.35" dia., 50 ft. long	7015
	0.35" dia., 65 ft. long	7020
***	Perlon Brush Kit Includes 1-8 inch M10 thread brush, 1-10 inch M10 thread brush, 1-12 inch M10 thread brush, 1-14 inch M10 thread brush	5529
	HT Star Kit Includes 2- 6 inch star brushes, 4- 8 inch star brushes, 2- 10 inch star brushes	3710
ر الان	Stainless Steel Brush Kit Includes 3- 8 inch star brushes, 6- 10 inch star brushes, 6- 12 inch star brushes	3709

Wohler H 420 Viper M





TECHNICAL DATA	
Cage diameter	17"
Width	4"
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

- · 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

Includes	Wohler H 420 Viper M GRP Rod 0.28", 50 ft. long	Wohler H 420 Viper M GRP Rod 0.28", 65 ft. long
Wohler H 420 Viper M	•	•
Stainless steel end piece M10	•	•
Quick change star holder		
Threaded star holder	•	
Article no.	3770	3790

Accessories Wohler H	420 Viper M	Article no.
==	GRP Rod Repair Kit With stainless steel end piece, screws and allen wrench 0.35" dia.	3696
	GRP Rod PA-coat with length marking, with stainless steel end piece M10 internal thread	
	0.35" dia., 50 ft. long 0.35" dia 65 ft. long	7015 7020
**	Perlon Brush Kit Includes 1- 8 inch M10 thread brush, 1- 10 inch M10 thread brush, 1- 12 inch M10 thread brush, 1-14 inch M10 thread brush	5529
	HT Star Kit Includes 2- 6 inch star brushes, 4- 8 inch star brushes, 2- 10 inch star brushes	3710
300	Stainless Steel Brush Kit Includes 3- 8 inch star brushes, 6- 10 inch star brushes, 6- 12 inch star brushes	3709



reep Instruments

Wohler Mini Viper/Wohler Mini Viper S





Application

Perfect tool to clean flue gas systems, chimneys as well as ducts and pipeworks



TECHNICAL DATA	
Cage diameter	11 inches
Width	1.3 inches
Weight	1.5 lbs
	incl. 15 m GRP – rod
Brake	precisely adjustable

- \cdot Very light weigth only 1.5 lbs.
- · Very small diameter only 11 inches
- · GRP Rod with resistant PA coat and distance marking
- · Ergonomic shape
- · Belt clips (left and right)

Includes	
Wohler Mini Viper	
GRP Rod 0.2", 50 ft. long	
Stainless Steel end piece M5	
Guidance adapter	
Protection tube (without stars)	
Article no.	8872

Includes	
Wohler Mini Viper S	
GRP Rod 0.2", 50 ft. long	
Stainless Steel end piece M5	
Guidance adapter	
Protection tube (without stars)	
Article no.	2028

Accessories Wohler	Mini Viper S	Article no.
4	GRP Rod Repair Kit For the Wohler mini viper, 0.2" end, with stainless steel end piece, screws and allen wrench 0.2"	3687
III.	Threaded Brush, HT With M5 male thread	
	3"	14607
	4"	14610
1114	5"	14613
	6"	14615
	8"	14620
4	Threaded Brush Kit, HT	
	4"/6"/8"	8181
A Marie	3"/4"/5"/6"/8"	8182

Wohler Rotary Viper Duct M10



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

Application

Effective cleaning of dryer vents, duct and piping

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

	Wohler Rotary Viper – Vent Set –				
Includes	5 ft. long	10 ft. long	16 ft. long	33 ft. long	16 ft. long
Wohler Rotary Viper Duct M10, 5 ft.	•				
Wohler Rotary Viper Duct M10, 9 ft.		•			
Wohler Rotary Viper Duct M10, 16 ft.			•		•
Wohler Rotary Viper Duct M10, 33 ft.				•	
Threaded connection internal M10	•	•	•	•	•
Perlon brush 7"	•	•	•	•	•
Perlon brush 8"					•
Perlon brush 12"					•
Article no.	4882	4867	4832	4866	7511



Reordering made easy

All Wohler stars are marked with a label whose color combination gives you information about the material and degree of hardness. Save the label to order more stars of the same material: The combination of the code indicated on the label and the desired diameter gives the order number for your new star. (Example: 142 + 25 cm = Order No. 14225).





IMPORTANT INFORMATIONS

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 $^\circ\! F$

PEK

High Tech Synthetic Fiber for light condition sweeping in Stainless Steel chimneys, ducts or pellet stoves. Heat tolerant to 300 $^\circ \! F$

Color	Material	Hardness and properties
\bigcirc		soft
	Stainless Steel Flat Wire	medium hard
	(Not suitable for stainless steel pipes)	hard
		very hard, In galvanized version
0		soft
	Stainless Steel Crimped Wire (For stainless steel pipes)	medium hard
	(hard
	НТ	soft, High Tech fiber for light sweeping, stable plastic bristles, heat tolerant up to approx. 482 °F
•	Perlon	soft, Plastic bristles for stainless steel pipes, heat tolerant up to approx. 122 °F
	VA (Wire) corrugated	soft, for Star Brushes and Threaded Brushes

Star Brushes			Article no.
SAMME.		Star, Stainless Steel, Flat Wire	
	\bigcirc	6"	14015
		8"	14120
F(XXXXX)		10"	14125
AMM4.		12"	14130
		14"	14135
		16"	14140
		20"	13350
		24"	13360
		32"	13380
SIMP.		Star, VA-Stainless Steel, Crimped Wire	
		6"	14315
		8"	14320
THE RESERVE TO SERVE		10"	14325
AMILIAN.		12"	14330
		16"	3837
		Star, Perlon	
		6", 0.05"	13715
The said		8", 0.05"	13720
AND ME.		10", 0.05"	13725
		12", 0.05"	13730
		16", 0.05"	24
		24", 0.08"	3141_
SHATTE		Star, HT	
		6"	13815
		8"	13820
The last of the la		10"	13825
ANIMA .		12"	13830

reades Brushes for Viper	s	Article no.
	Threaded Brush, Stainless Steel, Flat wire	
5300	3 layers, with M10 thread	
	6"	17415
		17420
A STATE OF THE PARTY OF THE PAR	10"	17425
	8"	17920
•	12"	17430
	14"	17435
Mr.	Threaded Brush, Stainless Steel, Flat wire	
	2 layers, with M10 thread	
) 16"	1399
	10"	18525
	12"	18530
LAN.	14"	18535
ann.	Threaded Brush, Perlon	
	With M10 thread	
	6", 0.02"	18715
and the second	8", 0.02"	18720
	10"	18725
	12"	18730
	20"	18750
- NWW	Push-head brush 8x8 square	
	3 layer Perlon, with M 10 thread	
	8" x 8"	8711
Marie Contraction of the Contrac	8" x 13"	8712
M. W.	13" x 13"	8713
(a)	Threaded brush, HT	
	Wth M10 Thread	
	6"	18815
	8"	18820
-318*	10"	18825
	Perlon Dome Brush	
ale.	With M10 Thread	
	3"	7146
	4"	7147
	7"	1466
	10"	7102
	Threaded Brush, Stainless Steel, Crimped wire With M10 thread	
William	8"	40400
	10"	19120
	12"	19125
2010		19130
77.00	20" 24"	19150
	24	19160



Wohler Mini Brushes		Article no.
	Mini hole star, HT	
480/16	3"	15907
	4"	15910
	5"	15913_
1	6"	15915_
	8"	15920
in.	Threaded Brush, HT With M5 male thread	
311	3"	14607
	4"	14610
	5"	14613
	6"	14615
	8"	14620
M	Threaded Brush Kit, HT	
	4"/6"/8"	8181
	3"/4"/5"/6"/8"	8182

Viper and Brush Adap	ter	Article no.
	Wohler Adaptor STST M10 – 3/8" To adapt Wohler brushes to US rods	8520
	rod connector 0.9" x 2.75" M10 inner thread	8524
Viper Repair Parts		Article no.
	Star Holder 1"	7979
-	Brake adjustment knob For handy viper	52388
	Star Holder M12 x 22 RP 72	39753
\bigcap	Protection hose, 30" For sweeper coil	9417
	Viper Rubber feet	37703



Miscellaneous

Mini Chimney Sweeper Dolls
Black, 500 pieces

Article no.

411



Wohler Institute of Technology

This one of a kind education program embodies Wohler USA's commitment to innovation and technical leadership.

In order to work quickly and efficiently, proper understanding of the ins-and-outs of your Wohler equipment is necessary. For your convenience, we offer product training that fits into your schedule at no charge. Our classes are taught by experienced industry professionals who bring with them years of hands-on field experience in design and application, as well as product knowledge. During the training, you will have the opportunity to learn detailed information about the product, the applications and maintenance tips.





Other areas of interest that will be covered include

- · Test & Measurement Technology
- · Video Inspection and Video Borescopes
- · Chimney Sweep Inspection Cameras and Cleaning Equipment