

WÖHLER

CATALOG

PRODUCTS FROM THE MANUFACTURER
MEASURE | INSPECT | CLEAN

The measure of technology



WORKING TOGETHER

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

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

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

Elmar Schrader
Executive Director | International Business

HIGHLIGHTS

POWERFULLY SIMPLE.

Wöhler A 550 FLUE GAS ANALYZER

Flue gas analysis at the tip of a finger

Page 24

EVEN THE FINEST
CANNOT ESCAPE.

Wöhler SM 500 SUSPENDED PARTICULATE ANALYZER

The latest innovation in total Suspended Particulate Measurement
-Awarded with the PLUS X AWARD®-

Page 45



UNIQUELY
CLEAN VIEW.

Wöhler VIS 350 SERVICE CAMERA

Video inspection, position indicator, home function and locator

Page 92

PENETRATING VIEWS
THROUGH CONCRETE
AND ASPHALT.

Wöhler L 200 LOCATOR

Exact location of damages

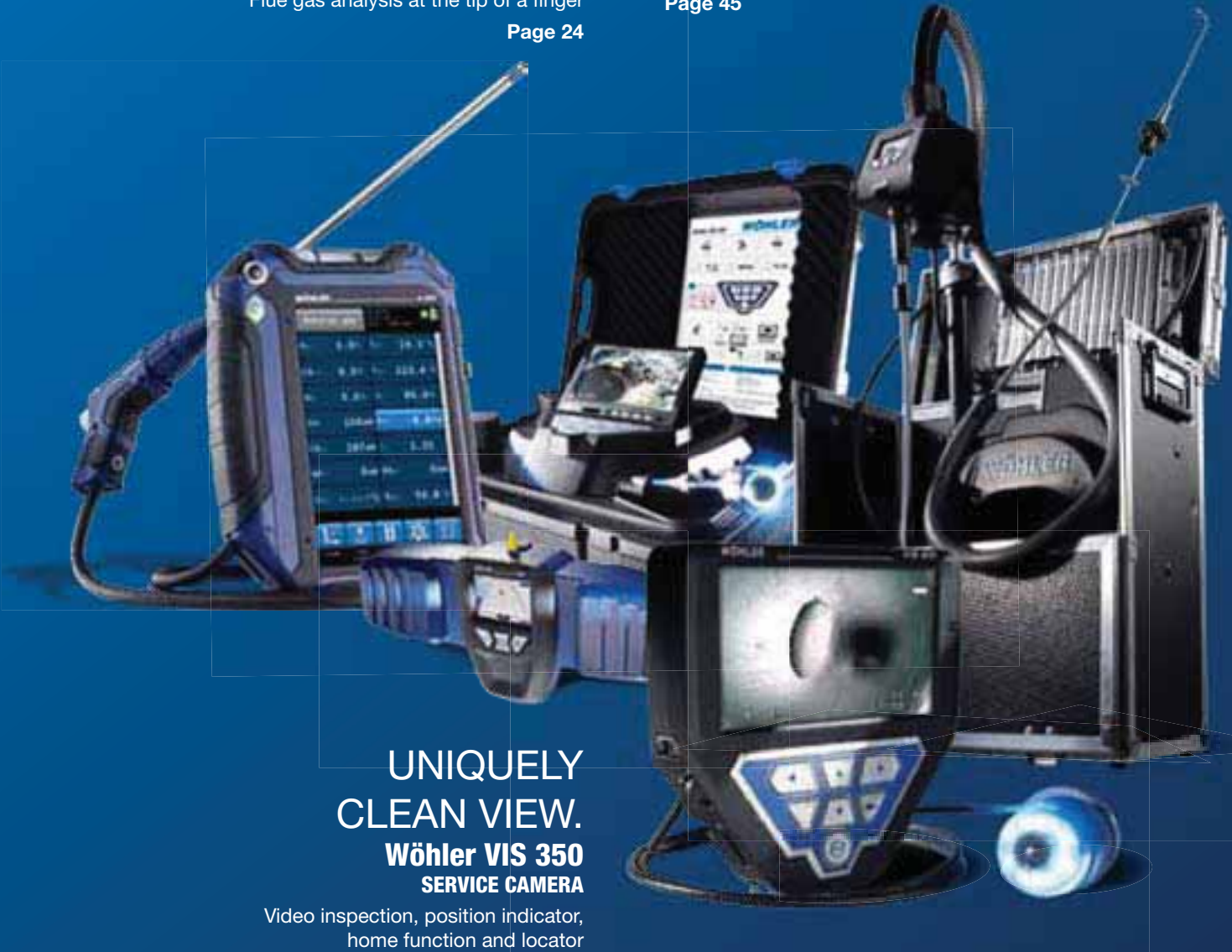
Page 109

MODULAR
POINT OF VIEW.

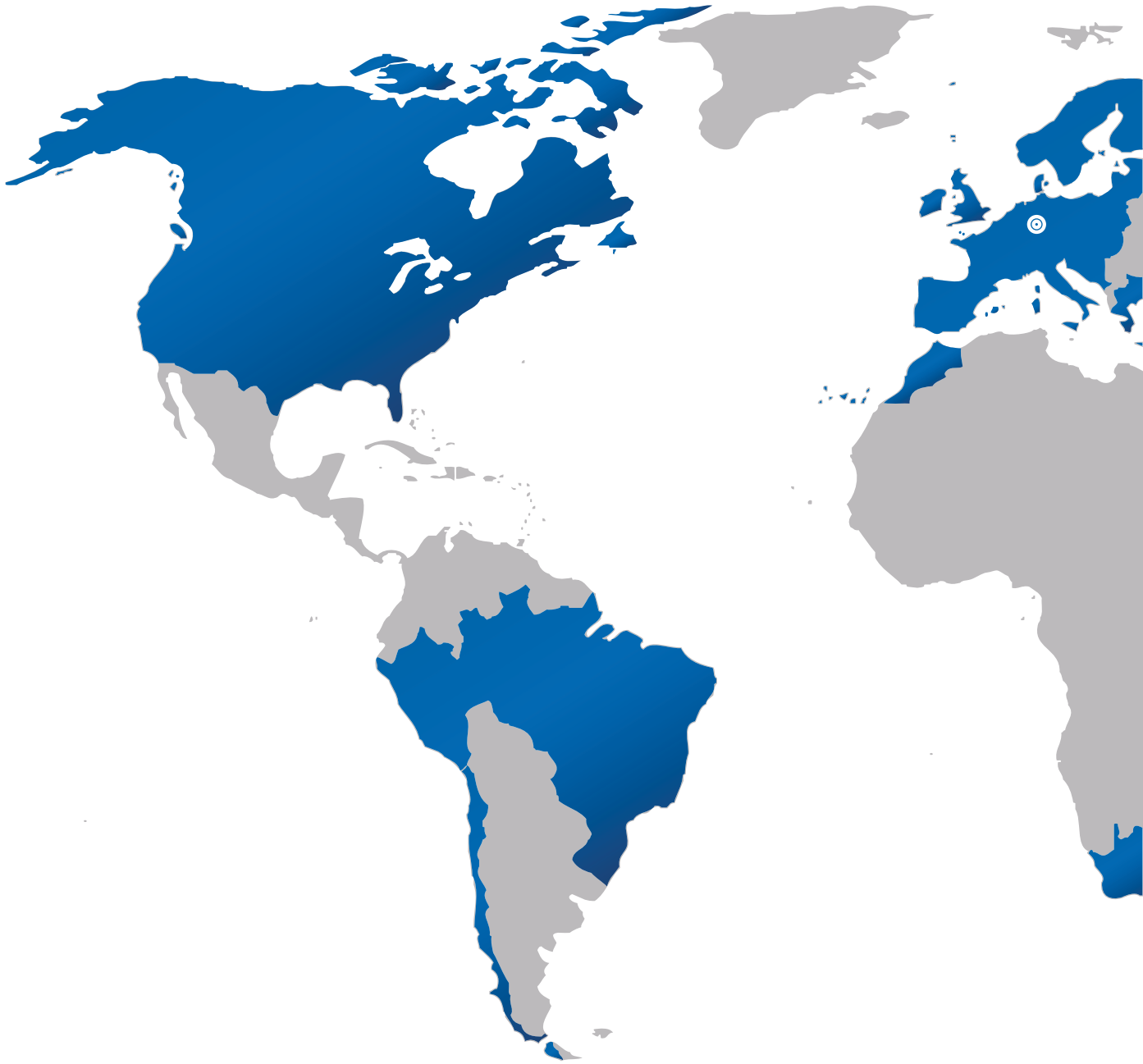
Wöhler VIS 400 MODULAR CAMERA SYSTEM

Professional video inspection system

Page 98



WÖHLER WORLDWIDE



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

Devices must be simple to use. That is possible only with a matured technology. Both mechanics and electronics as well as instrument software and the supporting PC-programs must be user-friendly. Therefore we stay closely in contact with you – ultimately the most important and best improvement suggestions come from practical application.



CONSTRUCTION – INNOVATIVE & ACCURATE TO SIZE

Together construction and production work hand in hand. Each equipment is designed three-dimensionally on the computer - both technical requirements and ergonomic aspects play an elementary role. Prepared program data flow directly in our CNC machines and these produce the required mechanical components for your equipment - in this way we guarantee a fast and error free production process.

DEVELOPMENT

FUTURE MADE BY WÖHLER

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





PRODUCTION

IDEAS BECOME REALITY

Production and development cooperate closely here - therefore we react to changes of the market or new customer requirements fast and flexible. We can guarantee high quality and productivity by computer-controlled production methods and modern technology.



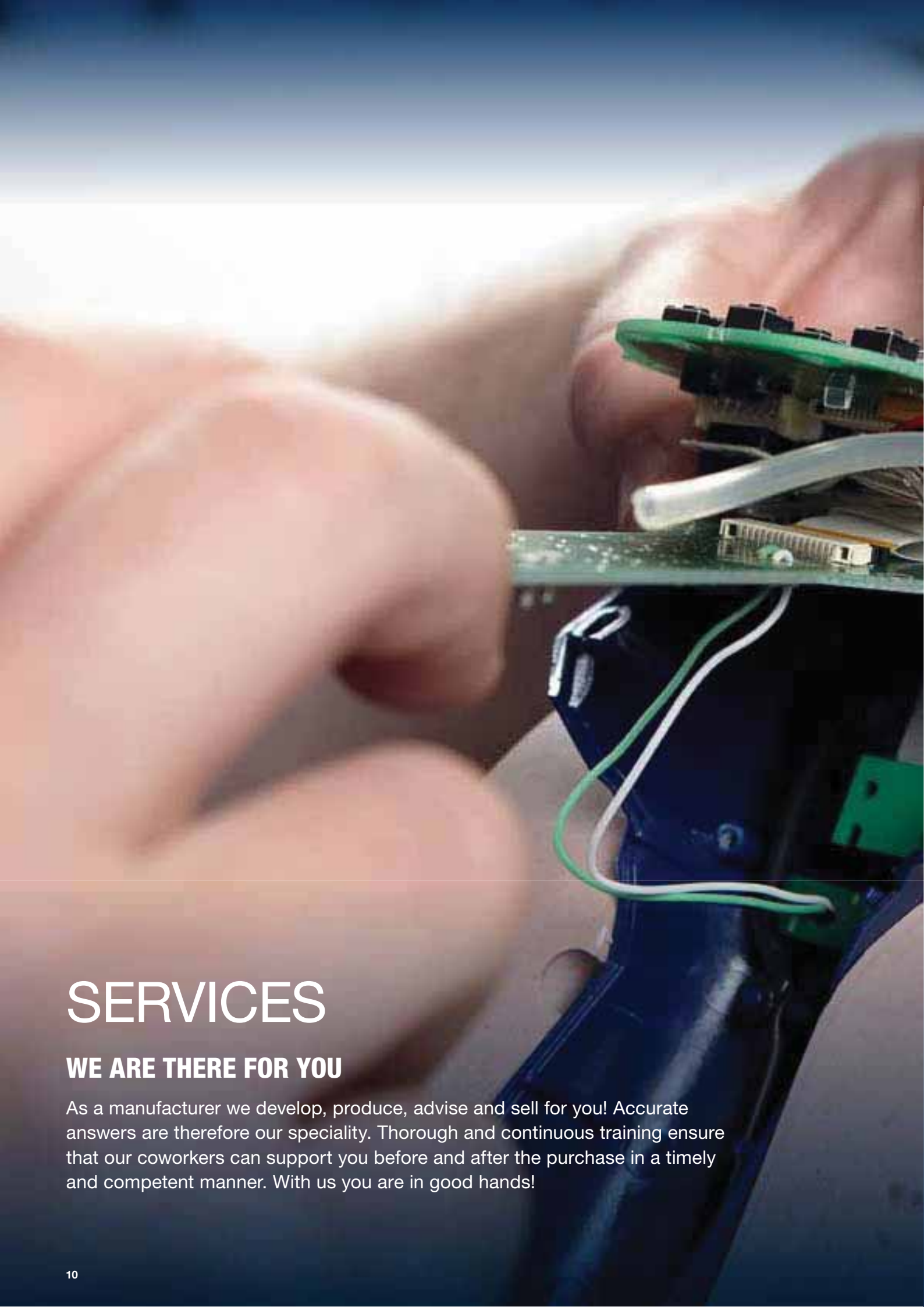
CNC-MANUFACTURING – MODERN & EFFICIENT

Precise, automatic and fast; those are three characteristics, which we value about our CNC machines. 'Computerized Numerical Control' means that the machines are electronically steered and regulated. Because that saves time and money, we offer our in-house produced devices at a fair price and on a technically highest level.



ASSEMBLY – CAREFULLY & RELIABLY

Reliable assembly is obvious with us. No equipment leaves our house without detailed final inspection. This way we can guarantee that our instruments meet the highest requirements and will serve our customers for many years. Absolute reliability is for us the basis for the partnership bond of trust between you as a user and us as a manufacturer.



SERVICES

WE ARE THERE FOR YOU

As a manufacturer we develop, produce, advise and sell for you! Accurate answers are therefore our speciality. Thorough and continuous training ensure that our coworkers can support you before and after the purchase in a timely and competent manner. With us you are in good hands!



**CONSULTATION & SERVICE –
INDIVIDUAL & COMPETENT**

Each purchase decision should be well thought out. Therefore you can test our devices not only at trade shows or exhibitions, but you can also get detailed, individual advice by telephone or in our sales offices. Also in the case of service requirements we do not leave you alone: in our sales and service stations we help you directly and competently. A loan units depot, our express service and the possibility of the direct repair round off our performance spectrum.



**DISPATCH & LOGISTICS –
RELIABLE & PUNCTUAL**

Our devices should be with you as fast as possible. Our co-ordinated team - reliable coworkers and a well thought out management support system work so well together that in-stock orders will be shipped the same day. Thanks to cooperation for many years with our logistics partners we guarantee that the products reach their new owner as fast as possible.

APPLICATIONS



● **MEASURING INSTRUMENTS – FLUE GAS ANALYSIS** **14–49**

● **MEASURING INSTRUMENTS – LEAKAGE AND PRESSURE** **50–69**

● **MEASURING INSTRUMENTS – IAQ/BUILDING** **70–81**

● **VISUAL INSPECTION** **82–111**

● **SWEEP INSTRUMENTS** **112–133**



TABLE OF CONTENTS

MEASURING INSTRUMENTS - FLUE GAS ANALYSIS

16 | PRODUCT OVERVIEW FLUE GAS ANALYSIS

18 | FLUE GAS ANALYSIS

- 18 | Wöhler A 400 Flue Gas Analyzer
- 22 | Accessories Wöhler A 400 Flue Gas Analyzer
- 24 | Wöhler A 550 Flue Gas Analyzer **NEW**
- 32 | Accessories Wöhler A 550 Flue Gas Analyzer
- 34 | Wöhler A 600 Flue Gas Analyzer
- 38 | Accessories Wöhler A 600 Flue Gas Analyzer

40 | SOOT TESTING

- 40 | Wöhler RP 72 Soot Test Pump
- 41 | Accessories Wöhler RP 72 Soot Test Pump

45 | SUSPENDED PARTICULATE MATTER MEASUREMENT

- 45 | Wöhler SM 500 Suspended Particulate Analyzer **NEW**
- 46 | Accessories Wöhler SM 500 Suspended Particulate Analyzer

47 | DEW POINT INDICATION

- 47 | Wöhler TI 410 Dew Point Indicator

48 | WOOD & BUILDING MATERIALS MOISTURE MEASUREMENT

- 48 | Wöhler HBF 420 Moisture Meter
- 49 | Wöhler HF 300 Wood Moisture Meter

PRODUCT OVERVIEW FLUE GAS ANALYSIS



Wöhler A 400 L
Flue Gas Analyzer

page 20



Wöhler A 400^{PRO}
Flue Gas Analyzer

page 21

APPLICATIONS		
Residential	•	•
Commercial		
Manifold and Differential Pressure	•	•
Tuning Guide	•	•
Data Management	•	•
SENSORS		
O ₂	0...21%	0...21%
CO	0...10,000 ppm	0...4,000 ppm
CO high		
NO		0...1,000 ppm
SO ₂		
NO ₂		
Stack Temperature	0...800 °C	0...800 °C
Supply Air Temperature	-20...120 °C	-20...120 °C
Differential Pressure	100 hPa	100 hPa
Warranty	2 years	4 years
OPERATION FEATURES		
Touch-Screen		
Colored Display	•	•
Infrared port for printer	•	•
Bluetooth port for computer		
SAFETY FEATURES		
Self Diagnosis for Sensors (S) and Instrument (I)	•	•
CO-valve (V) and CO purge-pump (P)		
4 or 6 Filter Technology	4	4
Filter and Pump Monitor	•	•
Field Replaceable Sensors (F) / Longtime Sensors (L)	F	F / L



Wöhler A 550 L
Flue Gas Analyzer

page 28-29



Wöhler A 550
Flue Gas Analyzer

page 30-31



Wöhler A 600
Flue Gas Analyzer

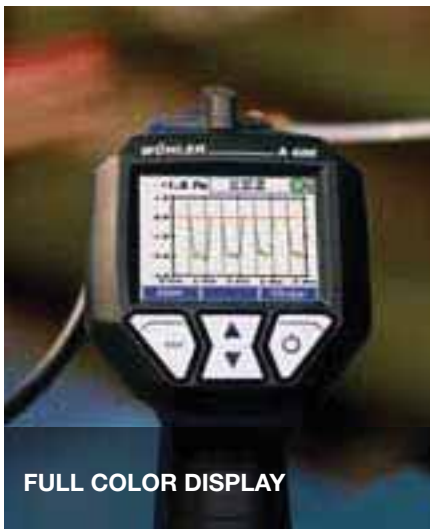
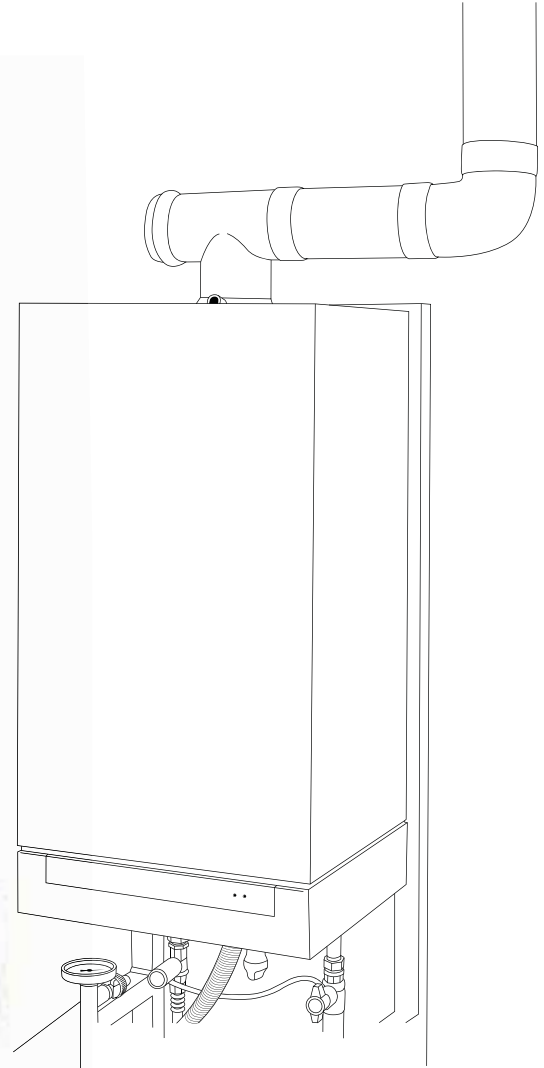
page 37

•	•	•
•		•
•	•	•
•	•	
•	•	•
0...21%	0...21%	0...21%
0...35,000 ppm	0...4,000 ppm	0...4,000 ppm
	0...100,000 ppm	0...100,000 ppm
0...3,000 ppm	0...3,000 ppm	0...2,000 ppm
	0...5,000 ppm	0...4,000 ppm
0...1,000 ppm	0...1,000 ppm	0...150 ppm
-20...800 °C	-20...800 °C	0...900 °C
-20...100 °C	-20...100 °C	-20...100 °C
110 hPa	110 hPa	150 hPa
4 years	4 years	1 year
•	•	Laptop/PC
•	•	Laptop/PC
•	•	Laptop/PC
	•	•
•	•	•
	•	•
4	4	6
•	•	•
F / L	F / L	F

SIMPLY GENIUS!

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

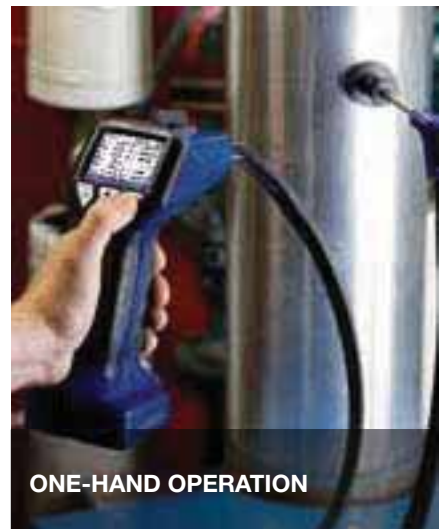
4 YEARS
WARRANTY¹



FULL COLOR DISPLAY



FLEXIBLE PROBE OPTION



ONE-HAND OPERATION



FEATURES AND BENEFITS

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

SAFETY / RELIABILITY

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

DATA MANAGEMENT

- Memory for 100 customer records
- Date and time stamp

VARIETY OF APPLICATIONS

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

APPROVALS

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

TECHNICAL DATA

Oxygen (O₂)

Sensor type.....electrochemical
 Range.....0.0...21.0 Vol.-%
 Resolution.....0.1 Vol.-%
 Accuracy.....± 0.3 Vol.-%

Carbon monoxide (CO) (Wöhler A 400^{PRO})

Sensor type.....electrochemical
 Range.....0...4,000 ppm
 Resolution.....1 Vol.-ppm
 Accuracy.....± 5 % f.m., absolute ±20 ppm

Carbon monoxide (CO) (Wöhler A 400 L)

Sensor type.....electrochemical
 Range.....0...10,000 ppm
 Resolution.....1 ppm
 Accuracy.....± 10 % f.m., absolute ±40 ppm

Nitrate monoxide (NO) (Wöhler A 400^{PRO})

Sensor type.....electrochemical
 Range.....0...1,000 ppm
 Resolution.....1 Vol.-ppm
 Accuracy.....± 5 % f.m., ± 5% Vol.-ppm (<100 ppm)

Draft / Differential Pressure (PD)

Unit.....Pascal
 Range.....± 100 hPa
 Resolution.....1 Pa
 Accuracy.....± 2 % f.m., absolute ± 5 Pa

Flue Gas Temperature (T_g)

Unit.....°C
 Sensor type.....thermoelement (NiCr-Ni)
 Range.....-20...800 °C ± 2°C
 Accuracy.....133...800 °C: ± 1.5 % f. m.
 Resolution.....0.1 °C

Air Temperature (T_a)

Unit.....°C
 Sensor type.....semiconductor (Si-PTC-Ni)
 Range.....-20.0 °C...120.0 °C
 Resolution.....0.1 °C
 Accuracy.....±1 °C

Calculated Values

Effic. / SL.....efficiency and losses calculated in accordance to ASME standards
 ETA / Q_s.....efficiency and losses calculated in accordance to EN European Standards
 CO₂ in Vol.-%.....range 0 – CO₂max, resolution 0.1 %
 CO_c.....CO concentration (CO_{corrected}) air free, adjustable O_{2ref} reference level
 Dew point.....in °C / °F
 λ / EA.....Lambda λ (theoretical air), Excess air
 m_{COND}.....condensate quantity in condensing conditions

Work temperature.....+5°C...40°C

Storage temperature.....-20°C...50°C

Battery lifetime.....> 10 h (NiMH, 2000 mAh)

Weight.....640 g

Size.....205 x 85 x 220 mm (without probe)

Length cable-hose.....1700 mm

Length flexible probe.....540 mm

¹⁾Wöhler A 400/A400^{PRO}, except for thermocouples and batteries; for further information see our guarantee guidelines

Wöhler A 400 L Flue Gas Analyzer



APPLICATION:

- Combustion and Efficiency Analyzer for residential and light commercial applications

ADVANTAGES:

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

¹⁾except thermocouple and batteries

Wöhler A 400 L Flue Gas Analyzer Standard Set

- Scope of delivery:
- Wöhler A 400L Flue Gas Analyzer
 - 4 disposable batteries
 - plastic case

→ Accessories on page 22

Part no. 4661 J

Wöhler A 400 L Flue Gas Analyzer Advanced Set

- Scope of delivery:
- Wöhler A 400 L Flue Gas Analyzer
 - 4 disposable batteries
 - Wöhler TD 100 Thermal Fast Printer
 - plastic case

→ Accessories on page 22

Part no. 4662 J

Wöhler A 400^{PRO} Flue Gas Analyzer



APPLICATION:

- Multifunctional Combustion Analyzer for residential and light commercial applications

ADVANTAGES:

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

¹except thermocouple and batteries

Wöhler A 400^{PRO} Flue Gas Analyzer Standard Set

Scope of delivery:

- A 400^{PRO} Flue Gas Analyzer
- disposable batteries
- water stop filter
- 25 cotton filters
- heavy duty carrying case

→ Accessories on page 22

Part no. 3045 J

Wöhler A 400^{PRO} Flue Gas Analyzer Advanced Set

Scope of delivery:

- A 400^{PRO} Flue Gas Analyzer
- 4 rechargeable batteries
- charger
- cone
- air temperature probe
- Wöhler TD 100 printer
- water stop filter
- 25 cotton filters
- heavy duty carrying case

→ Accessories on page 22

Part no. 3053 J







Wöhler A 400^{PRO} Flue Gas Analyzer Professional Set

Scope of delivery:

- A 400^{PRO} Flue Gas Analyzer
- 4 rechargeable batteries
- charger
- cone
- air temperature probe
- Wöhler TD 100 printer
- Wöhler RP 72 soot test pump
- water stop filter
- 25 cotton filters
- heavy duty carrying case



→ Accessories on page 22

Part no. 3056 J

Probes / Cable Hoses		Part no.
	Air Temperature Plug Wöhler A 600 / A 400 without cable	6013 J
	Air Temperature Probe 100 mm Wöhler A 600 / A 400 with 1.7 m cable, to measure the supply air temperature especially in fire places independent of ambient air	6020 J
	Air Temperature Probe 280 mm for Wöhler A 600 / A 400 with 1.7 m cable, to measure the supply air temperature especially in fire places independent of ambient air	6019 J
	Cable Hose Wöhler A 400 V2	5576 J
	Cable hose Wöhler A 400PRO 1.7 m with flexible probe 300 mm	3241 X
	Extension Wöhler Cable Hose for Wöhler A 400 2,8 m	2077 J

Wall Temperature Probe		Part no.
	Special Wall Temperature Probe Type W-02 for Wöhler A 400 or Wöhler DT 310	4651 I

Flue Gas Preparation		Part no.
	Peltier cooler Wöhler A 550 / A 400 NEW incl. power supply	5535 J

Cones		Part no.
	Clamping Cone for probes 8 mm Ø stainless steel, to stabilize the gas probe in the flue pipe	2494 K
	PTFE Cone for probes 8 mm Ø to stabilize air temperature probes in openings 10 - 15 mm Ø	2463 K

Printer **Part no.**



Wöhler TD 100 Thermal Fast Printer
Infrared printer with 1 roll thermal paper and four batteries

4160 I



Thermal Paper
57 mm width, 10 rolls
for thermal printer Wöhler TD 100, TD 600

4145 I

Charger / Batteries **Part no.**



Charger A 400, A 500
with plug adapter EU, US, GB

3302 K



Set of 4 rechargeable NiMH batteries
2000 mAh
for Wöhler A 500 / A 400

9407 I

Cases **Part no.**



Small plastic case
for Wöhler A 400 L

4681 J



Heavy duty carrying case Wöhler A 400
twin-wall case

3319 J

Filter **Part no.**



Service kit Wöhler A 400
1 water stop filter, 25 wadding filters, O-Ring, wadding holder and filter cap

3776 K



Water Stop Filters
pack with 3 pieces
for Wöhler A 600 / A 500 / A 400

9621 K



Wadding filters
pack with 150 pieces
for Wöhler A 400

4288 K

Cover labels **Part no.**



Cover labels, aluminium, D 28
5 Blocks with 100 Pcs each

4964 I

Sensors **Part no.**

O₂ sensor Wöhler A 400
field replaceable, 1 year warranty

3354 C

CO sensor Wöhler A 400 international
field replaceable, 1 year warranty
4,000 ppm

3368 C

CO-Sensor Wöhler A 400 L
field replaceable, 1 year warranty
10,000 ppm

3398 C

POWERFULLY SIMPLE **NEW**

Wöhler A 550 Flue Gas Analyzer

As robust as cast iron, but as easy to operate as a smartphone – that’s what Wöhler’s new flue gas analyzer feels like in your hand. Appropriately, the advantages are equally substantial: A tap with your finger on the Wöhler A 550 is all that is required to perform analyses, inspections and settings on residential and commercial appliances. The flue gas analyzer is equipped with coded connections for the 4 Pa test and even »NEW AND UNIQUE« a wood moisture content measurement function to VDI Guideline 4206 (VDI = Association of German Engineers).

4 YEARS WARRANTY!



*) Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.



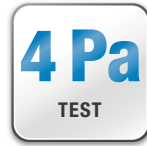
EASY TO USE WITH A CLEAR DESIGN

Flue gas analyses in accordance with the 1st BImSchV and KÜO are child’s play.



ROBUST & WEAR-RESISTANT

The analyzer is able to withstand a thing or two.



PRODUCT BENEFITS

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

EXTREMELY RELIABLE

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

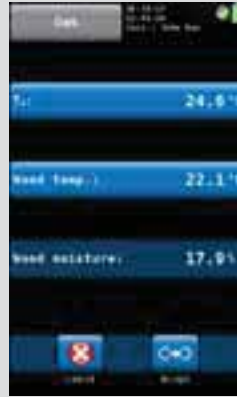
HUGE RANGE OF APPLICATIONS

- Expandable with up to 5 sensors
- For measurements: NO, NO₂, SO₂
- Insertion probe for a variety of measurement tasks
- Spillage Test and much more
- First flue gas analyzer incl. wood moisture content measurement (wood moisture probe included in scope of supply of Wöhler A 550)

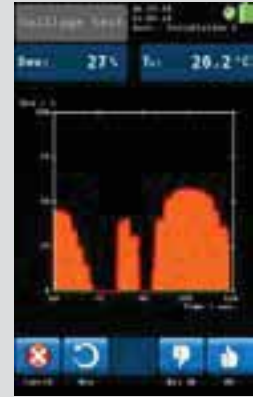
SIMPLE DATA MANAGEMENT

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

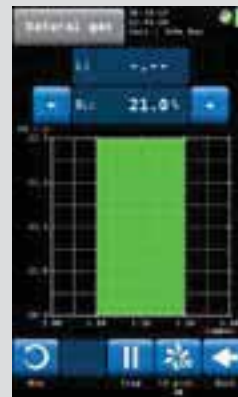
WOOD MOISTURE



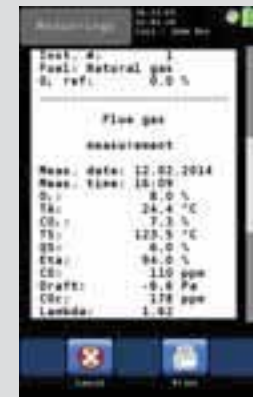
SPILLAGE TEST



TUNING GUIDE



PRINT PREVIEW



TÜV-APPROVED (GERMAN TECHNICAL INSPECTORATE)

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



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



SECURE & RELIABLE
The Wöhler A 550 Combustion Analyzer with protective hinged lid.

THOSE SPECIAL EXTRAS



LARGE 7" COLOR TOUCHSCREEN

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



CONDENSATE STATUS ALWAYS IN VIEW

The bright blue condensate trap is serviced in no time at all and without any difficulty.



THE RIGHT PROBE FOR EVERY APPLICATION

The right probe is connected in no time at all.



CONVENIENT PLUG-IN CONNECTION

Analysis, temperature and draught - 3 functions in a single hose: Simply plug them together and fold down the protective lid again.



START /STOP BUTTON ON THE PROBE HANDLE

When measuring in difficult conditions, you can also simply stop and save the measurement at the press of the button on the probe handle.

Wöhler	A 550	A 550 L
Applications (depends on accessories)		
Flue Gas Analysis	●	●
4 Pa-test	●	
Wood moisture	●	●
Backflow check	●	●
Wöhler Tuning Guide	●	●
Possible sensors	5	3
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		
4-year sensor and analyzer guarantee ¹⁾	●	●
Analyzer self diagnostics	●	●
Field replaceable sensors	●	●
Visual filter alarm	●	●
Lithium Ion rechargeable battery with up to 12 h battery operating time	●	●
Scope of supply		
Interchangeable probe with 1.7 m hose assembly and plug-in probe 295 mm	●	
Probe with 1.7 m hose assembly and fixed probe 275 mm		●
Combustion air temperature probe	●	optional
Wood Moisture Probe	optional	optional
Pressure measurement adapter for 4 Pa test	optional	
1 water stop filter and 1 coarse filter	●	●
Rechargeable battery and USB battery charger	●	●
Case	●	●

● = included

¹⁾ Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

TECHNICAL DATA

Oxygen concentration (O₂) in flue gas

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

Carbon monoxide (CO 4000 ppm) in flue gas (Wöhler A 550)

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

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

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

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

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

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

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

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

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

Sulfur dioxide (SO₂) in flue gas (optional)

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

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

Display..... Pascal
 Measurement principle Semi-conductor diaphragm
 Range 0.00 to ± 110.00 hPa; resolution 0.1 Pa (< 1000.0 Pa), otherwise 1 Pa, with ventilation loss measurement 0.01 Pa
 Accuracy 0.3 Pa (< 10.0 Pa), otherwise 3% of reading
 Drift < 0.2 Pa in 5 minutes

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

Display..... Pascal
 Measurement principle Semi-conductor diaphragm
 Range 0.00 to ± 110.00 hPa; resolution 1 Pa
 Accuracy 2 Pa (< 40 Pa), otherwise 5% of reading

Flue gas temperature (T_g)

Display..... °C
 Measurement principle Thermocouple (NiCr-Ni) (NiCr-Ni)
 Range -20.0 °C to 800 °C; resolution 0.1 °C
 Accuracy 0-133 °C: ± 2°C
 133-800 °C: ± 1.5% of reading

Combustion air temperature (T_a)

Display..... °C
 Measurement principle Thermocouple (NiCr-Ni)
 Range -20.0 °C to 100 °C; resolution 0.1 °C
 Accuracy ± 1°C

Wood moisture

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

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

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

Storage temperature..... -20 °C to +50 °C

Operating temperature..... +5-40 °C to maintain stated accuracy

Weight..... 1250 g

Dimensions..... 220 x 160 x 55 mm (without probe)

Length of cable-hose..... 1700 mm

Wöhler A 550 L Flue Gas Analyzer



Wöhler A 550 L Flue Gas Analyzer Standard Set

Scope of delivery:

Wöhler A 550 L Flue Gas Analyzer

cable hose 1.7 m

gas probe 275 mm

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filter

coarse filters

wadding filters

plastic case

➔ Accessories on page 32

Part no. 8133 J



APPLICATION

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

ADVANTAGES

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



Wöhler A 550 L Flue Gas Analyzer Advanced Set

Scope of delivery:

Wöhler A 550 L Flue Gas Analyzer

cable hose 1.7 m

gas probe 275 mm

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filter

coarse filters

wadding filters

Wöhler TD 100 Thermal Fast Printer

plastic case

➔ Accessories on page 32

Part no. 8134 J

¹⁾ Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

Wöhler A 550 L NOx Flue Gas Analyzer



APPLICATION

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

ADVANTAGES

- Large 7" color-touch screen: Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Data transfer via integrated USB- & IR-Interface
- Large CO-measurement range: 35,000 ppm
- Complete Set with Wohler TD 100 Thermal Fast Printer



Wöhler A 550 L NOx Flue Gas Analyzer Standard Set

Scope of delivery:

Wöhler A 550 L NOx Flue Gas Analyzer

cable hose 1.7 m

gas probe 275 mm

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filters

coarse filters

wadding filters

plastic case

➔ Accessories on page 32

Part no. 8148 J

Wöhler A 550 L NOx Flue Gas Analyzer Advanced Set

Scope of delivery:

Wöhler A 550 L NOx Flue Gas Analyzer

cable hose 1.7 m

gas probe 275 mm

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filters

coarse filters

wadding filters

Wöhler TD 100 Thermal Fast Printer

plastic case

➔ Accessories on page 32

Part no. 8149 J

¹⁾ Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

Wöhler A 550 Flue Gas Analyzer with Bluetooth®-Interface



APPLICATION

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

ADVANTAGES

- Large 7" color-touch screen: Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Data transfer via integrated Bluetooth®, USB- & IR-Interface
- Start-/Stop-Button on the probe handle – When measuring in difficult conditions, you can also simply stop and save the measurement at the press of the button on the probe handle
- 1,000 measurement records
- Huge range of applications: NO, NO₂, SO₂ (in connection with the Wöhler Peltier cooler), ...



Wöhler A 550 Flue Gas Analyzer Standard Set

Scope of delivery:

Wöhler A 550 Flue Gas Analyzer

cable hose 1.7 m

gas probe 295 mm

combustion air temperature probe

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filters

coarse filters

wadding filters

plastic case

→ Accessories on page 32

Part no. 8150 J

Wöhler A 550 Flue Gas Analyzer Advanced Set

Scope of delivery:

Wöhler A 550 Flue Gas Analyzer

cable hose 1.7 m

gas probe 295 mm

combustion air temperature probe

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filters

coarse filters

wadding filters

Wöhler TD 100 Thermal Fast Printer

plastic case

→ Accessories on page 32

Part no. 8152 J

Wöhler A 550 NOx Flue Gas Analyzer Advanced Set

Scope of delivery:

Wöhler A 550 NOx Flue Gas Analyzer

cable hose 1.7 m

gas probe 295 mm

combustion air temperature probe

USB-charger with Micro-USB cable

Lithium-ion rechargeable battery

waterstop filters

coarse filters

wadding filters

Wöhler TD 100 Thermal Fast Printer

plastic case

→ Accessories on page 32

Part no. 8154 J

¹⁾ Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

Wöhler A 550 Flue Gas Analyzer with Bluetooth®-Interface

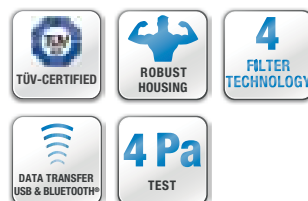


APPLICATION

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

ADVANTAGES

- Large 7" color-touch screen: Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Data transfer via integrated Bluetooth®, USB- & IR-Interface
- Start-/Stop-Button on the probe handle – When measuring in difficult conditions, you can also simply stop and save the measurement at the press of the button on the probe handle
- 1,000 measurement records
- Huge range of applications: NO, NO₂, SO₂ (in connection with the Wöhler Peltier cooler), ..



Wöhler A 550 Flue Gas Analyzer Professional Set

Scope of delivery:

Wöhler A 550 Flue Gas Analyzer

Wöhler RP 72 Soot Test Pump Set

combustion air temperature probe

magnetic holder

2 cones

3 m cable hose

3 waterstop filter

5 coarse filters

Wöhler TD 100 Thermal Fast Printer

aluminium framed case

➔ Accessories on page 32

Part no. 8156 J

Wöhler A 550 NO_x Flue Gas Analyzer Professional Set

Scope of delivery:

Wöhler A 550 NO / NO₂ Flue Gas Analyzer

Wöhler RP 72 Soot Test Pump Set

combustion air temperature probe

magnetic holder

2 cones

3 m cable hose

3 waterstop filters

5 coarse filters

Wöhler TD 100 Thermal Fast Printer

aluminium framed case

➔ Accessories on page 32

Part no. 8157 J

Wöhler A 550 SO_x Flue Gas Analyzer Professional Set

Scope of delivery:

Wöhler A 550 O₂ / CO / NO / NO₂ / SO₂ Flue Gas Analyzer

Wöhler RP 72 Soot Test Pump Set

combustion air temperature probe

magnetic holder

2 cones

3 m cable hose

3 waterstop filters

5 coarse filters















Wöhler TD 100 Thermal Fast Printer










aluminium framed case

➔ Accessories on page 32

Part no. 8158 J

¹⁾ Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

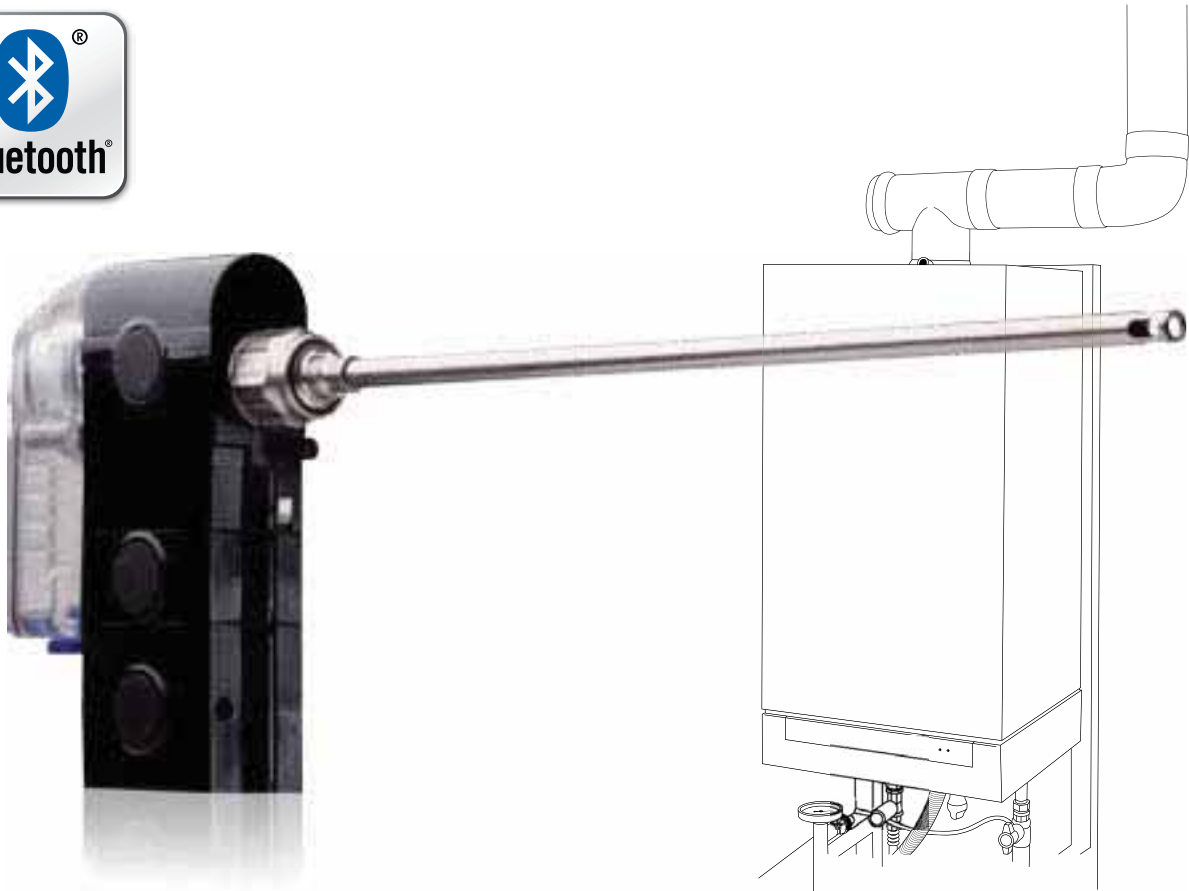
Probes		Part no.
	Wöhler A550 air temperature probe with 1.7 m cable	
	280 mm	5511 J
	185 mm	5521 J
	Air Temperature Plug Wöhler A 550	5517 J
	Wöhler A 550 / 500 Gas Probe	
	500 mm	9614 J
	295 mm	9622 J
	180 mm	9613 J
	130 mm	9652 J
	Wöhler A 550 / 500 Flexible Probe 300 mm	3242 J
	Wöhler A 550 dew point indicator probe	5512 J
	Moisture Probe Wöhler A 550	5513 J
	Special Wall Temperature Probe Type W-02 for Wöhler A 400 or Wöhler DT 310	4651 I
	Hose assembly for Wöhler A 550 Gas Probe	
	1.7 m	7178 K
	3.0 m	7179 K
Cones		Part no.
	Magnetic Holder for air temperature probes to stabilize the air temperature probe	6142 K
	Clamping Cone for probes 8 mm Ø stainless steel, to stabilize the gas probe in the flue pipe	2494 K
	PTFE Cone for probes 8 mm Ø to stabilize air temperature probes in openings 10 - 15 mm Ø	2463 K
Flue Gas Preparation		Part no.
	Filter granulate NEW for BHKW Filter Wöhler A 550 100 ml	4398 J
	Peltier cooler Wöhler A 550 / A 400 NEW incl. charger	5535 J
	Extension Wöhler Cable hose Wöhler A 550 L, 2,8 m	2076 J

Printer		Part no.
	Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160 I
	Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600	4145 I
Charger		Part no.
	Charger Wöhler A 550	5502 J
Cases		Part no.
	Wöhler A 550 Aluminium framed case	5515 J
	Wöhler A 550 L Plastic case	5516 J
	Wöhler A 550 Heavy duty carrying case twin-wall case	5577 J
Consumables		Part no.
	Water Stop Filters pack with 3 pieces for Wöhler A 600 / A 500 / A 400	9621 K
	Coarse Filters pack with 5 pieces for Wöhler A 500 / A 600	9632 K
	Wadding filters A 400 pack with 150 pieces for A 400	4288 K
	O₂ sensor Wöhler A 550 field replaceable	5594 C
	CO sensor 4,000 ppm Wöhler A 550 field replaceable	8166 C
	CO-Sensor 35.000 ppm Wöhler A 550 L field replaceable	4496 C
	CO_h sensor 100,000 ppm Wöhler A 550 field replaceable	5596 C
	NO sensor 3,000 ppm Wöhler A 550 field replaceable	5597 C
	NO₂ sensor 1,000 ppm Wöhler A 550 field replaceable	5598 C
	SO₂ sensor 5,000 ppm Wöhler A 550 field replaceable	5665 C

UNLIMITED INTELLIGENCE – FLUE GAS ANALYSIS VIA BLUETOOTH®

Wöhler A 600 Flue Gas Analyzer

The next generation of commercial and industrial combustion and emission analysis. Rely on latest technology with Bluetooth® operation: The Wöhler Bluetooth® probe turns your PC into a professional flue gas analyzer: Thanks to the integrated Bluetooth® interface the Wöhler A 600 connects smoothly with your netbook, notebook or PC.



OPEN CONCEPT

Operates together with your netbook, notebook and PC



FAST AND RELIABLE

Easily upgrade or replace sensors

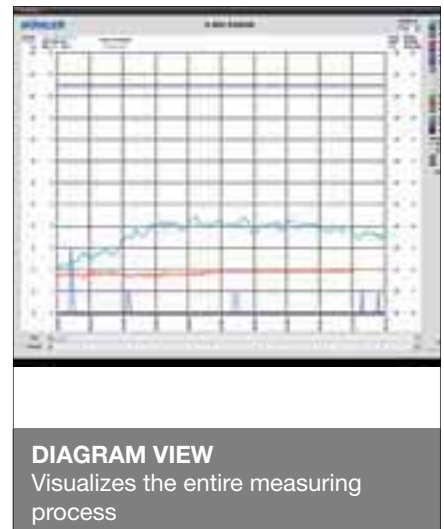


DIAGRAM VIEW

Visualizes the entire measuring process



FEATURES AND BENEFITS

- Wireless probe for versatile applications
- Core temperature search with displayed graph
- Rapid Readout Technology (R.R.T.)

RELIABILITY / SAFETY

- Full automatic calibration
- Automatic CO-safety-valve
- Self-monitoring filter and pump
- Enhanced self diagnosis
- Field replaceable sensors
- 6 filter technology
- More than 10 hours operation time with standard AA rechargeable batteries
- Optional use of non-rechargeable standard AA batteries

VARIETY OF APPLICATIONS

- Multiple fuels: oil, gas and solid fuel fired heat appliances
- Sensors: O₂, CO, NO, NO₂, SO₂, H₂
- Variety of probes for different measurement tasks
- Adapters for temperature and air flow probes
- Optional peltier-cooler and solid fuel adapter
- Customer adjustable fuel parameters

DATA MANAGEMENT

- For more than 1,000 measurement records
- Infrared printer port
- Bluetooth link to computer or laptop
- USB interface

TÜV-APPROVED

- EN 50379 Part 2
- TÜV By RgG 248 according to EN 50379

TECHNICAL DATA

Oxygen Concentration (O₂)	
Range.....	0...21.0 Vol.-%
Accuracy.....	± 0.3 Vol.-%
Carbon Monoxide Concentration (CO_{low}), H₂ compensated	
Range.....	0...4,000 Vol.-ppm
Accuracy.....	± 20 ppm (< 400 ppm), otherwise 5 % of reading
Hydrogen Concentration (H₂)	
Range.....	0...1,000 Vol.-ppm
Accuracy.....	± 40 ppm (<400 ppm), otherwise 10 % of reading
NO-measurement (optional)	
Range.....	0...2,000 ppm
Accuracy.....	± 5 ppm (<400 ppm), otherwise 5 % of reading
NO₂-measurement (optional)	
Range.....	0...150 ppm
Accuracy.....	± 2 ppm within the range up to 40 ppm, otherwise ± 5 % o.r.
SO₂-measurement (optional)	
Range.....	0...4,000 ppm
Accuracy.....	± 10 within the range up to 200 ppm, otherwise ±5 % o.r.
Carbon Monoxide Concentration (CO_{high}) (opt)	
Range.....	0...100,000 Vol.-ppm
Accuracy.....	± 100 Vol.-ppm (<1,000 ppm), 10 % of reading
Nitrogen Concentration (NO) (opt)	
Range.....	0...2,000 Vol.-ppm, (permanent up to 1,000 ppm)
Accuracy.....	± 5 ppm (< 400 ppm), otherwise 5 % of reading
Draft/Differential Pressure (PD)	
Range.....	± 150 hPa
Accuracy.....	± 3.0 Pa (< 100.0 Pa), otherwise 3 % of reading
Resolution.....	0.1 Pa
Air temperature (T_a)	
Range.....	-20.0...100.0 °C
Accuracy.....	± 1 °C
Flue Gas temperature (T_g)	
Range.....	-10.0...900.0 °C
Accuracy.....	EN 50379, Part 2
CO₂-Calculation	
Range.....	0...CO _{2max}
Resolution.....	0.1 %
Stack losses Q_A	
in reference to the selected fuel (Siegert formula)	
Efficiency	
Range.....	0...100.0 % condensation is automatically detected
Accuracy.....	0.1 %
Dew point temperature	
in reference to selected fuel	
Resolution.....	0.1 °C
Condensate	readings in kg/m ³ (gas) or kg/l (Öl)
Air speed	approx. 130 m/s
Resolution.....	< 0.4 m/s
Air flow	0...2,000 m ³ /h
Resolution.....	approx. 1 m ³ /h
Date/time	realtime clock with backup battery
Storage temperature	-20...50 °C
Work temperature	5...40 °C to meet specifications
Battery hand held	6 x AA rechargeable batteries or mains supply
Battery wireless probe	3 x AA rechargeable batteries or mains supply
Weight	approx. 1,200 g
Size	240 x 155 x 65 mm (with docked probe)

PC ANALYSIS WITH THE WÖHLER A 600 BLUETOOTH® PROBE

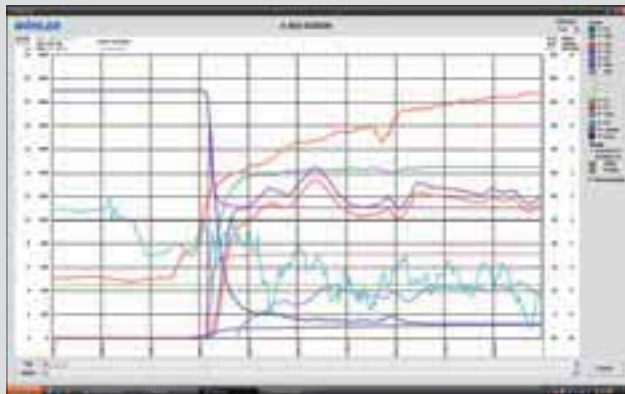


Diagram view

TOGETHER WITH YOUR PC

Utilizing Bluetooth® technology your Wöhler A 600 enables you to perform continuous, PC supported analyses to serve your customers at home as well as analyses for industry and further development. After launching the program your Wöhler A 600 software automatically connects with the Bluetooth® probe. Once sensor diagnostics and core flow search have been completed successfully the readings are displayed as a diagram in a user scalable measurements screen. It is possible to store the completed analysis in the integrated data management environment as well as use the measurements in external applications. Moreover, it is easily possible to import all of the analysis readings into a spreadsheet program (for example Excel).



Measurements display

Q_A-mean value measurements

TOGETHER WITH YOUR NOTEBOOK

The Wöhler A 600 basic set turns your notebook into a first class analyzer and display instrument.

Once your notebook has connected automatically with the Bluetooth® probe it carries out the desired analysis with the aid of the software and then saves the results as required.

1) System requirements:

- Operating system Windows XP, Windows Vista, Windows 7 or Windows 8
- In addition, Microsoft .net Framework Version 4.0 must be installed. This is normally a component of the Windows operating system; however, it can also be downloaded for free from the Microsoft website and installed later.

Wöhler A 600 Flue Gas Analyzer



APPLICATION

- Combustion measurements on heating appliances (for all types of fuels)

ADVANTAGES

- TÜV-approved for oil, gas, solid fuel
- 4-Pa certified
- Bluetooth® probe
- Up to 6 sensors possible
- Connection for peltier cooler

Wöhler A 600 Flue Gas Analyzer PC Set

Scope of delivery:

Wöhler A 600 Bluetooth® probe 295 mm

O₂ + CO 4,000 ppm sensors

1.7 m cable hose















air temperature probe with 1.6 m cable









cone

plastic case

→ Accessories on page 38

Part no. 6083 J

Data Management		Part no.
	Bluetooth® Dongle USB for PC for data transmission from Wöhler instruments to PC via bluetooth	7172 I
Probes		Part no.
	Wöhler A 600 flexible probe 300 mm	3244 J
	Wöhler A 600 probe holder with hose 1.7m without probe	6002 J
	Air Temperature Probe 280 mm for Wöhler A 600 / A 400 with 1.7 m cable, to measure the supply air temperature especially in fire places independent of ambient air	6019 J
	Air Temperature Probe 100 mm for Wöhler A 600 / A 400 with 1.7 m cable, to measure the supply air temperature especially in fire places independent of ambient air	6020 J
	Air Temperature Plug Wöhler A 600 / A 400 without cable	6013 J
	Wöhler A 600 Air Temperature Probe Adaptor for bluetooth probe, to measure combustion air temperature in connection with the combustion air temperature plug or combustion air temperature probe	6012 J
	Gas Probe for Wöhler A 600	
	500 mm	6056 J
	295 mm	6005 J
	180 mm	6016 J
	130 mm	6017 J
Cones		Part no.
	PTFE Cone for probes 8 mm Ø to stabilize air temperature probes in openings 10 - 15 mm Ø	2463 K
	Clamping Cone for probes 8 mm Ø stainless steel, to stabilize the gas probe in the flue pipe	2494 K
Flue Gas Preparation		Part no.
	Wöhler Peltier Cooler for Wöhler A 600 / A 500 to protect the Analyzer against condensate during longtime measurements, incl. power supply	4635 J
	Wöhler A 600 / A 500 Condensate Pump for Wöhler Peltier Cooler for automatic condensate extraction in connection with the Peltier Cooler.	4636 J
	Solid Fuel Adapter/Long Term Condensator for Wöhler A 600 / A 500	3535 J
	Wadding 50 g for solid fuel adaptor / long-term condensator	50351 K

Printer		Part no.
	Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160 I
	Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600	4145 I
Batteries		Part no.
	Set of 3 rechargeable NiMH batteries 2000 mAh for Wöhler A 600 bluetooth probe	6026 J
Consumables		Part no.
	Wöhler A 600 Service Pack with several O-rings, special service oil, 3 coarse filters, 1 pack wadding 25 g and 1 water stop filter	6053 J
	Wöhler A 600 Wadding Filters 25 g	6052 K
	Water Stop Filters pack with 3 pieces for Wöhler A 600 / A 500 / A 400	9621 K
	Coarse Filters pack with 5 pieces for Wöhler A 500 / A 600	9632 K
	Cover labels, aluminium, D 28 5 Blocks with 100 Pcs each	4964 I
Sensors		Part no.
	Wöhler A 600 Sensor O₂ field replaceable	6003 C
	Wöhler A 600 Sensor CO - 4,000 ppm field replaceable	6004 C
	Wöhler A 600 Sensor CO high - 100,000 ppm field replaceable	6008 C
	Wöhler A 600 Sensor NO - 2,000 ppm field replaceable	6009 C
	Wöhler A 600 Sensor NO₂ - 150 ppm field replaceable	6043 C
	Wöhler A 600 Sensor SO₂ - 4,000 ppm field replaceable	6045 C

Wöhler 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

rugged · reliable · established

Wöhler RP 72 Soot Test Pump Standard Set

Scope of delivery:

Wöhler RP 72 Soot Test Pump

1 m hose

probe 220 mm

smoke spot comparison scale

filter papers (300 pcs.)

short wadding (25 pcs.)

long wadding (50 pcs.)

Part no. 9150 I

Wöhler RP 72 Soot Test Pump Professional Set

Scope of delivery:

Wöhler RP 72 Soot Test Pump

1 m hose

probe 220 mm

smoke spot comparison scale

threaded cone

oil test bottle

servicing oil














filter papers (300 pcs.)

short wadding (25 pcs.)

long wadding (50 pcs.)

probe brush

Part no. 9152 I

Accessories		Part no.
	Probe holder with probe 220 mm for Wöhler RP 72 incl. spiral	7547 G
	Probe connector for Wöhler RP 72	3879 X
	Spiral for Wöhler RP 72 probe	20401 K
	Probe brush 6 mm Ø	2419 G
Cones		Part no.
	PTFE Cone for probes 8 mm Ø to stabilize air temperature probes in openings 10 - 15 mm Ø	2463 K
	Clamping Cone for probes 8 mm Ø stainless steel, to stabilize the gas probe in the flue pipe	2494 K
Soot Test Comparison Scale		Part no.
	Wöhler RP 72 Soot Spot Comparison Scale from soot number 1 to 10	2416 I
	Wöhler RP 72 Soot Spot Comparison Scale Set of 2 pieces	369 I
Consumables		Part no.
	Smoke pump filters bag 300 pcs	2415 K
	1,800 pcs	590 K
	Wöhler RP 72 Filter Paper Dispenser with 300 pieces of filter paper	3700 K
	Wadding rolls short for Wöhler A 500, A 400, RP 72	
	25 pcs.	5289 K
	150 pcs	5290 K
	Wadding rolls long for Wöhler RP 72	
	50 pcs	2450 K
	150 pcs	621 K
	Wöhler RP 72 Oil Derivates Test bottle Aceton	2481 I
	Special servicing oil	2418 G

EVEN THE FINEST CANNOT ESCAPE

Wöhler SM 500 Suspended Particulate Analyzer

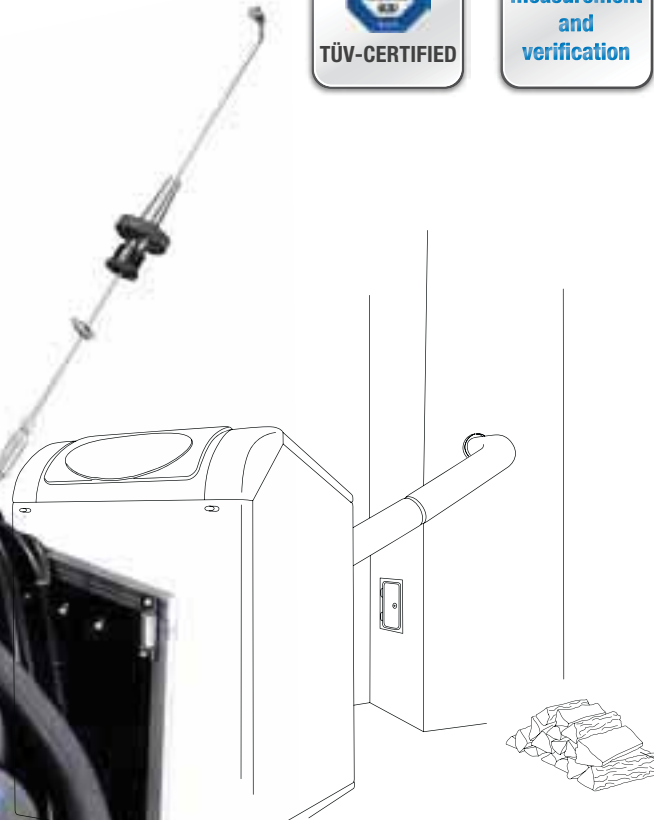
The world's first multi-functional analyzer for onsite mass concentration measurements of total suspended particulate matter in flue gas, O₂ and CO, draft and stack temperature. The Wöhler SM 500 analyzer will give you immediate readings.

Laboratory based analysis becomes superfluous.

The all new TÜV certified technology allows onsite mass concentration measurements on all solid fuel fired appliances. Mass concentration limits as low as 20 mg/m³ (maximum emission rate of wood stoves in Germany) can accurately be verified.

The simple user interface and the technician-friendly 4 button key pad make your work fast and accurate. The brilliant full color LED display shows the mass concentration and all combustion values on one screen. After the sampling process the instrument automatically calculates all results to allow compliance testing for solid fuels.

- Onsite measurement and verification
- High precision digital mass scale
- All in One – Particles, O₂, CO, temperature and draft measurement inclusive
- Real time graphic function display
- High technology at an affordable price



MANY ADVANTAGES



ONSITE MEASUREMENT AND VERIFICATION

Simple as that: adjust the display unit to your working level, measure, take results. All aspects of the instrument are user friendly designed. The Wöhler SM 500 accomplishes everything for you.



ALL IN ONE: O₂, CO, TEMPERATURE AND DRAFT MEASUREMENT INCLUSIVE

The basic instrument kit comes with a fully featured, integrated flue gas analyzer for O₂, CO, stack temperature and draft to give a complete analysis and verification onsite.



HIGH PRECISION DIGITAL MASS SCALE

With the Wöhler SM 500 Suspended Particulate Analyzer you can verify for the first time onsite mass concentration limits as low as 20 mg/m³ according to German environmental protection standards (1. BImSchV). The results of the measurements and verifications can be displayed or printed on the portable Wöhler TD 100 Thermal Fast Printer.



REAL TIME GRAPHIC FUNCTION DISPLAY

The simple menu is intuitive by design. The technician friendly 4 button key pad allows real time graphic function display and user selectable readings. The brilliant full color LED display is even visible in a dark environment.

WIDE RANGE OF APPLICATIONS

- All in one: Particulate matter measurement and flue gas analysis in a single analyzer
- On-the-spot analysis and evaluation
- Data transfer via USB

FUNCTIONALITY

- Brilliant, high-intensity graphic display – all readings at a glance and easily read – even in dark rooms, zoom function
- Provides graphic display of current values as well as their progression during the analysis
- Simple and intuitive 4-key operation
- Adjustable to individual working height

SAFETY / RELIABILITY

- Precision mass scale unit – facilitates true on-the-spot gravimetric analysis and evaluation
- Simple to clean – no fuss
- Integrated filter monitoring
- Sensor replacement – user-friendly
- 3-fold device diagnostics

DATA TRANSFER / MANAGEMENT

- USB port to transfer data to PC/ notebook etc.
- Software Wöhler SM 500 for data processing and management

TÜV TESTED AND APPROVED

- Levels I and II to 1st BImSchV
- Incl. all solid fuels
- 20 to 1000 mg/m³ flue gas

TECHNICAL DATA

Suspended Particulate Matter concentration / Filter load (mStF) in 15 min

Reading Filter load in mg
 Sensor technology real time digital mass scale
 Range 0,0 to 45,0 mg (equals 0,0 mg/m³ to 1.000,0 mg/m³ in flue gas)
 Accuracy ± 0.3 mg

Sample rate (VolS)

Reading standard litre per minute (slpm)
 Sensor technology Differential pressure
 Range 4,5 Li.N./min and 3,0 Li.N./min
 Accuracy ± 5 %

Oxygen (O₂) concentration in flue gas

Reading % of flue gas volume (dry conditions)
 Sensor technology electrochemical sensor
 Range 0.0 to 21,0 %
 Accuracy ± 0.3 % according to VDI 4206 -1

Carbone monoxide (COV) in flue gas

Reading ppm of flue gas volume (dry conditions)
 Sensor technology electrochemical sensor
 Range 0 to 100,000 ppm, resolution 1 ppm (< 32,000 ppm), rest 10 ppm
 Accuracy ± 100 ppm (< 1.000 ppm), rest 10 % of reading according to VDI 4206 -1

Draft (PD)

Reading Pascal
 Sensor technology Semiconductor
 Range 0.00 to ± 110.00 hPa, resolution 1 Pa
 Accuracy 3 Pa (< 100 Pa), 3 % of reading

Flue gas temperature (TA)

Reading °C
 Sensor technology Thermocouple (NiCr-Ni)
 Range -20.0 °C to 800.0 °C, resolution 0.1 °C
 Accuracy according to VDI 4206 Blatt 1

Calculated Values

mSt Total suspended particulate matter mass concentration in flue gas referred to the adjustable oxygen reference value in mg/m³
 Vol Sample volume in SL
 O₂ O₂ concentration in % given as 15 min average value
 CO CO concentration in ppm given as 15 min average value
 CO_n CO air free concentration in ppm referred to the adjustable oxygen reference value

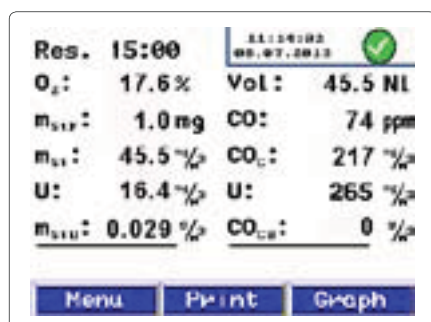
Power Supply 230 V, 50 Hz, max. 1,200 W

Storage temperature -20 °C to +50 °C

Work temperature +5 °C to 40 °C

Weight approx. 15 kg

Dimensions 480 x 240 x 550 mm



RESULTS DISPLAY

Numeric representation of mean value throughout the whole measurement process. It is also possible to switch to the graphic display.



DISPLAY DURING ANALYSIS

Measurement values are displayed during the TSPM mass concentration measurement. The operator is also able to switch between numeric and graphic representations throughout.



DATA TRANSFER

All measurement data and online readings can be transferred to a computer by USB connection. The Wöhler SM 500 computer software package allows extensive data analysis and display.

Wöhler SM 500 Suspended Particulate Analyzer



APPLICATION

- TÜV tested and approved for particulate matter analysis in accordance with the 1st BImSchV

ADVANTAGES

- Measure and evaluate concentration of particulate matter onsite in compliance with 1st BImSchV levels 1 and 2
- All in a single analyzer: Particulate matter measurements and flue gas analysis CO and O₂
- The operating unit with display can be set to the personal work height – for the best-possible operating and working conditions
- Precision digital mass scale unit for true gravimetric analysis
- Simple maintenance
- Analyze O₂ and CO concentrations in flue gas
- Graphic display of values during analysis
- USB port to transfer data
- Wöhler SM 500 software for data processing

Wöhler SM 500 Suspended Particulate Analyzer

Scope of delivery:

Wöhler SM 500 Suspended Particulate Analyzer including O₂, CO, temperature and draft















high precision digital mass scale unit

heated probe and hose assembly

pack with 10 filter cartridges

→ Accessories on page 46

Part no. 8935 0

Printer		Part no.
	Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160 I
	Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600	4145 I
Accessories		Part no.
	Auxiliary Probe Heater NEW for Wöhler SM 500 for long term measurement to avoid condensation	23201 J
	Heated Probe Holder NEW for Wöhler SM 500 to avoid condensate formation with cold probe	8921 J
	1 m Extension Hose NEW Wöhler SM 500 for laboratory measurements Set with heated probe holder Wöhler SM 500	8922 J
	Probe NEW for Wöhler SM 500, length 450 mm to be used with Auxiliary Probe Heater (part number 23201)	8951 J
	Tripod set Wöhler SM 500 NEW extended radius up to approx. 4 m With the tripod the Wöhler SM 500 display unit can be placed outside the case during measurements. Necessary for hard to reach measuring openings.	8919 J
	Backpack Carry-On for Wöhler SM 500 case	8911 J
	Air puffer for Wöhler SM 500	8918 X
	10 Filter Cartridges for Wöhler SM 500 in exchange of used cartridges	8917 O
	Coarse filter vlies for Wöhler SM 500 10 pcs. per unit	9503 K
	Wöhler SM 500 Wadding Filters 25 g	6052 K
	Spare Parts Kit for Wöhler SM 500 with 2 rubber seals for the sampling probe Wöhler SM 500 and 28 O-rings of a different size	8933 K
	Cleaning tool for Wöhler SM 500 for probe and mass scale unit	8909 K

Wöhler TI 410 Dew Point Indication



TECHNICAL DATA

Temperature

Resolution 0.1 °C
Accuracy 0.1 °C

Size

Housing 12 x 6 x 2.5 cm
Flexarm 30 cm
Sensor plate 1 x 3 cm

Weight 200 g

Supply 9 V block battery

APPLICATION

- For the inspection of burner appliances for flue-gas spillage in the scope of flue-gas path inspections

ADVANTAGES

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

PRINCIPLE OF OPERATION

The Wöhler TI 410 dew point indicator indicates flue gas backflow. Increased moisture and temperature in comparison with the surrounding air are distinguishing features of flue gas backflow. Any CO content present is highly toxic, which is why flue gas backflow can prove life threatening. To guarantee reliable detection the analysis is performed by two independent sensors:

- Sensor 1 measures the surface resistance of sensor plate
- Sensor 2 measures the temperature.

Optical and acoustic signals are emitted if the measured resistance of the sensor plate falls below a specified value. Located in a bore at the end of the sensor plate, the rapid reacting temperature sensor detects the increased temperature of the outflowing flue gas. The operator is able to set the analyzer to four different levels of sensitivity to adapt to different ambient conditions. To save the battery the analyzer switches off automatically after four minutes.

Wöhler TI 410 Dew Point Indicator

Scope of delivery:
Wöhler TI 41 Dew Point Indicator
with 440 mm flex arm

Part no. 6808 I

Accessories

Part no.



Smoke Pen

with 6 smoke refills, each fill for 240 cycles of about 30 sec.

6789 I



Fog spray gun

incl. fluid and 6 batteries

Scope of delivery:

Nebelpistole inkl. Fluid und 6 Batterien

8451 I



Fog spray gun - Full set

At the push of a button it generates a non aggressive oil dust for local leak detection.

Includes: fog spray gun, fluid, machine attachment, small replacement attachment, screw-driver, 7 batteries, manual, all in a heavy-duty carrying case.

8450 I

Wöhler HBF 420 Moisture Meter



APPLICATION

With its unique combination of electrical resistance measuring technique and dielectric measurement the Wöhler 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

Resistance measurement wood

Range approx. 0 to 40 %
Needles 12 mm, 10 kind of wood

Dielectrical measurement (non destructive)

Effective depth approx. 3–4 cm
20 material codes
Alarm 3 color LED (green, yellow, red), adjustable limit
Auto-Off-Function: adjustable

Operation conditions 0...+40 °C, < 90 % r.H.

Size 165 x 62 x 26 mm

Weight 175 g (without batteries)

Power Supply 4 x 1.5 V AAA-batteries

Wöhler HBF 420 Moisture Meter for wood and building materials

Scope of delivery:

Wöhler HBF 420 moisture meter

2 replacement electrodes

4 batteries 1.5 V AAA

leather bag

Part no. 8440 I

Accessories

Part no.



Pair of replacement pins
Wöhler HBF 420

3661 I



Wöhler wood moisture probe

rugged stainless steel wood moisture probe with ergonomic handle bar, user friendly Design - avoids pinching fingers; tool for changing the electrodes is integrated in the probe; storage opportunity for the electrodes within the probe; rugged protective cap - for protecting the electrodes; Items delivered: Wöhler wood moisture probe, connecting cable, 2 electrodes length 35mm, 2 electrodes length 50 mm, protective cap

2522 I



Wöhler wood moisture - Advanced set

includes: Wöhler HBF 420 moisture meter for wood and building materials, Wöhler wood moisture probe, plastic case

2510 I



Electrodes Wöhler wood moisture probe

Set
length: 6x35mm, 4x50 mm, shank insulated, appropriate for precise depth measurement

2527 K



Connection cable wood moisture probe
Length 1.4 m

2525 K

Wöhler HF 300 Wood Moisture Meter



APPLICATION

The Wöhler 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 5 mm into the log.

TECHNICAL DATA

Range	5 % to 40 %
Resolution	1% Wood moisture
Power Supply	9 V battery
Operating temperature	+5 °C to 40 °C
Relative Ambient Humidity	0 to 70 % r.H.
Needle length	12 mm
Size	129 x 63 x 32 mm
Weight	116 g (including battery)

Wöhler HF 300 Wood Moisture Meter

Scope of delivery:

Wöhler HF 300 Wood Moisture Meter

9 V battery

protective bag

1 pair of replacement pins

Part no. 7180 R

Accessories

Part no.



6 pairs of replacement pins
Wöhler HF 300

7181 I



TABLE OF CONTENTS

MEASURING INSTRUMENTS – LEAKAGE AND PRESSURE

52 | PRODUCT OVERVIEW LEAKGE AND PRESSURE

54 | DIFFERENTIAL PRESSURE

- 54 | Wöhler DM 2000 Digital Manometer
- 55 | Wöhler DC 2000^{PRO} Pressure Computer
- 56 | Wöhler DC 17 Pressure Meter

58 | PRESSURE AND FLOW

- 58 | Wöhler DC 410^{FLOW} Pressure Differential & Flow Meter

60 | LEAKAGE TESTING

- 60 | Wöhler DC 430 Leakage Tester
- 62 | Wöhler BC 21 Blower Check TÜV-approved
- 64 | Wöhler DP 600 Leakage Tester **NEW**
- 68 | Wöhler GS 220 Gas Sniffer
- 69 | Wöhler CM 220 CO-Meter
- 69 | Wöhler UL 23 Ultrasonic Leak Detector

PRODUCT OVERVIEW

LEAKAGE AND PRESSURE



Wöhler DM 2000
Digital Manometer

page 54



Wöhler DC 2000^{PRO}
Pressure Computer

page 55



Wöhler DC 17
Pressure Meter

page 56

APPLICATIONS

Main- and Stress Test according to TRGI 2008-G 600		•	
Measurement of Gas Leakage Rates according to TRGI 2008-G 600 (approved in VP 952)		•	
Manifold and Differential Pressure	•	•	•
Flow Measurement in ducts and chimneys		from approx. 2.0 m/s	
Differential Pressure in and around buildings			
4 Pa-Test for supply air			
Leakage measurement of flue gas lines according to EN 1443			
Leakage measurement of buildings acc. to EBPB / EN 13829			
Supply air measurement acc. to TRGI G 625			
Datalogger for IAQ / Pressure / Temperature / Humidity		•	• (Pressure/Temperature)
Oil throughput measurement on nozzle			•

SENSOR SPECIFICATIONS

Differential Pressure	±2 bar	±2 bar	±17 bar
Air flow			
Temperature (internal/external)	external -20...99 °C	internal -5...55 °C external -20...99 °C	internal -20...60 °C external -20...99 °C
Humidity		0...100 % r.H.	
Barometric Pressure			

FEATURES

Full automatic measurements		•	•
Infrared port to connect with printer(P) and computer (C)		C/P	C/P
Certifications and approvals		DVGW-certified VP 952	



Wöhler DC 410^{FLOW}
Pressure Differential &
Flow Meter
page 58



Wöhler DC 430
Leakage Tester
page 60



Wöhler BC 21
Blower Check
page 62



Wöhler DP 600
Leakage Tester
page 64

	•		
	•		
•	•		
from approx. 0.3 m/s	from approx. 0.3 m/s		
•			
•			
			•
		•	
	•		•
±100 mbar	±2 bar	±120 Pa	0...60 hPa
		up to ca. 2,500 m ³ /h	0,1...10.00 NI/min 2,0...200.0 Nm ³ /h
internal -20...60 °C external -20...800 °C	internal -20...60 °C external -20...800 °C		
0...100 % r.H.	0...100 % r.H.	910...1,100 hPa	
	•	•	•
C/P	C/P	C/P	P
	DVGW-certified VP 952	TÜV-approved	TÜV-approved

Wöhler DM 2000 Digital Manometer



TECHNICAL DATA

Differential pressure

Range.....	± 2 bar / $\pm 2,000$ hPa
Accuracy.....	< 3% from measuring, in range < ± 200 Pa better than ± 6 Pa
Resolution.....	1 Pa in range ± 125 Pa, otherwise 10 Pa

Temperature (external Si-PTC)

Range.....	-20 °C up to +99 °C
Accuracy.....	< 1 °C
Resolution.....	0.1 °C

Storage temp. -20 °C up to +60 °C

Working temp. -5 °C up to +60 °C

Weight..... 450 g with protection bag

Size..... 54 x 165 x 52 mm

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 (part no. 7270)

ADVANTAGES

- Switch on - measure - finish
- Extra wide pressure range from 0.01...2,000 hPa
- Quick response time
- 2 x AA batteries
- Easiest one button operation
- For almost all differential and manifold pressure applications

Wöhler DM 2000 Digital Manometer in Pa

Scope of delivery:
with 1.5 m hose

Part no. 3443 I

Wöhler DM 2000 digital manometer in mbar

Scope of delivery:
with 1.5 m hose in mbar

Part no. 7243 I

Wöhler DM 2000 Gas Installer Set

Scope of delivery:

Wöhler DM 2000 Digital

Manometer in mbar, hose 1.5 m

long, rubber boot, set of various

plastic connectors and hoses,

plastic case Mini

Part no. 7270 I

Wöhler DC 2000^{PRO} Pressure Computer

DVGW certified according to VP 952



APPLICATION

- Differential pressure measurements from 0.01 hPa to 2,000 hPa
- Rel. humidity measurement
- Temperature measurement
- Data logger for 6.400 data sets

ADVANTAGES

- Extra wide pressure range of ± 2,000 hPa
- Selectable units for temperature (°C, °F), and pressure (hPa, Pa, mm, H₂O, PSI, mbar)
- Rapid readout time
- Internal temperature sensor, external probe option
- IR interface for PC and printer, personalized printout possible
- Humidity measurement
- Data logger (max. 3 years)
- 2 x AA batteries

TECHNICAL DATA

Differential pressure

Range	± 2 bar
Accuracy	< 3% from measuring, in range < ± 200 Pa better than ± 6 Pa
Resolution	1 Pa in range ± 125 Pa, otherwise 10 Pa

Temperature (internal NTC)

Range	-5 °C up to +55 °C
Accuracy	< ± 4 °C
Resolution	1°C

Relative humidity (optional)

Range	0 % up to 100 % r.H, non condensing
Accuracy	± 5% r.H (0 – 60% r.H), otherwise < 10% r.H
Resolution	1% r.H

Storage temp. -20 °C up to +60 °C

Working temp. -5 °C up to +60 °C

Weight 450 g (with case)

Size 54 x 165 x 52 mm

Wöhler DC 2000^{PRO}

Scope of delivery:

Wöhler DC 2000^{PRO} pressure computer, humidity sensor, snap in connectors, 1.5 m hose

Part no. 7279 I

Wöhler DC 2000^{PRO} Standard Set

Scope of delivery:

Wöhler DC 2000^{PRO} pressure computer with humidity sensor, rubber boot with magnets, 2x 1.5m hose with snap in connector, 1 x hose 1.5 m, plastic case MINI

Part no. 7206 I

Wöhler DC 2000^{PRO} Advanced Set for gasoline testing

Scope of delivery:

Wöhler DC 2000^{PRO} Pressure Computer with humidity sensor, rubber boot with magnets, plastic carrying case Midi, 100 ml syringe for volume measurement, gas line sealing set consisting of 2 adjustable cones, 1 pump, 1 X-Connector, fixed hoses

Part no. 3813 I

Accessories

Part no.



Wöhler TD 100 Thermal Fast Printer

Infrared printer with 1 roll thermal paper and four batteries

4160 I



Thermal Paper

57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600

4145 I



Wöhler DC 2000 / DM 2000 rubber boot

with magnets

7202 I



Plastic Case Mini

Internal size 244 x 161 x 66 mm

7204 J

Wöhler DC 17 Pressure Meter



TECHNICAL DATA

Differential pressure

Range.....	± 17 bar
Accuracy.....	< 3% from measuring, in range < ± 10 hPa better than ± 0,3 hPa
Resolution.....	0.1 hPa in range ± 1,100 hPa, otherwise 1 hPa

Medias gas, water, oil (do not mix)

Burst Pressure 32 bar

power supply 2 AA batteries

Interface IR output to PC and printer

Storage temp. -20°C up to +60°C

Working temp. 0°C up to 50°C

Weight 450 g (with case)

Size 54 x 165 x 52 mm

APPLICATION

High pressure measurement
up to 17 bar

ADVANTAGES

- Differential pressure on gas or liquid medias
- Print out and logger capabilities
- Temperature measurement
- Measuring of current oil flow rate through nozzle

Wöhler DC 17 Pressure Meter

Scope of delivery:









Wöhler DC 17

rubber boot with magnets

connection hose,

plastic carrying case

Part no. 3663 I

Accessories	Part no.
 <p>Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries</p>	4160 I
 <p>Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600</p>	4145 I
 <p>Combustion Air Temperature Probe, 280 mm for Wöhler DC 2000 / DM 2000 / A 550 with 1.7 m cable to analyse chimneys independent from ambient air</p>	9611 J
 <p>Wöhler Air Temperature Probe, 60 mm for Wöhler A 500 / DC 100 / DC 2000/ with 1.7 m cable to analyse chimneys independent from ambient air</p>	9651 J
 <p>Wöhler Air Temperature Probe for Wöhler A 500 / DC 100 / DC 2000 plug form</p>	9605 J
 <p>Pitot tube length 35 cm, 7 mm Ø length 50 cm, 7 mm Ø length 100 cm, 7 mm Ø</p>	9487 I
 <p>Wöhler DC 2000 / DM 2000 rubber boot with magnets</p>	7202 I
 <p>Plastic Case Mini Internal size 244 x 161 x 66 mm</p>	7204 J

Wöhler DC 410^{FLOW} Pressure Differential & Flow Meter



APPLICATION

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

ADVANTAGES

- Brilliant full colour OLED display
- Technician-friendly one hand operation with 4 button keypad
- Highly accurate with 'no drift technology'
- Pressure resolution of 0.1 Pa
- Differential temperature with two probes

TECHNICAL DATA

Differential Pressure

Range..... ± 100 hPa
 Accuracy..... < 3 % of the reading, if the value is < ± 10 Pa, better than ± 0,3 Pa
 Resolution..... 0.1 Pa at -1,100 Pa to +1,100 Pa, otherwise 1 Pa

Air speed

Range..... 0.3 m/s to 120 m/s
 Resolution..... 0.01 m/s
 Continuous density correction: automatic, with temperature signal

Temperature (internal sensor)

Range..... -20 °C to 60 °C
 Accuracy..... < ± 1 °C
 Resolution..... 0.1 °C

External temperature probe

Range..... 2 canals, -20.0 °C to +800.0 °C
 Accuracy..... < ± 2 °C at 0 °C to 133 °C, otherwise 1.5 % of the value, according to the directive EN 50379-2
 Resolution..... 0.1 °C

Relative humidity

Range..... 0 % bis 100 % r.H. (relative humidity), non condensing
 Accuracy..... < ± 2 % r.H., at 0 to 90 % r.H., otherwise < 3 % r.H.
 Resolution..... 0.1 % r.H.

Barometric Pressure

Range..... ± 300 hPa bis 1,100 hPa
 Accuracy..... < ± 1.5 % hPa of reading
 Resolution..... 0.1 hPa

Current consumption

..... 4 AA rechargeable batteries or 4 AA disposable batteries 1.5 volt

Interfaces

..... USB interface for data transfer to a PC. It is possible to transfer the data directly from the meter to the Wöhler TD 600 thermal fast printer.

Operating temperature

..... 5 °C to +40 °C

Dimensions

..... 80 x 225 x 60 mm



Wöhler DC 410^{FLOW} Standard Set














Scope of delivery:
 Wöhler DC 410^{FLOW}
 Pressure Differential & Flow Meter
 rechargeable batteries and charger
 2 capillary hoses
 Wöhler DC 4xx case

Part no. 9286 J

Wöhler DC 410^{FLOW} Set

Scope of delivery:
 Wöhler DC 410^{FLOW}
 Pressure Differential & Flow Meter
 brass connectors
 2 x 1 m measuring hose
 case DC 4xx
 Prandtl tube 35 cm
 air / flue gas temp. probe with 1 m cable

Part no. 4283 J

Accessories		Part no.
	S-Tube Probe for DC 4xx for measuring the flow speed, including: temperature probe	9244 J
	Pitot tube length 35 cm, 7 mm Ø	9487 I
	length 50 cm, 7 mm Ø	9488 I
	length 100 cm, 7 mm Ø	9489 I
	Wöhler DC 410^{FLOW} Flexible Capillary 3 m differential pressure measurement between adjoining rooms with Wöhler DC 410 ^{FLOW} , 1 x capillary hose 3 m, connector, silicone hose	4515 J
	Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160 I
	Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600	4145 I
Temperature probes		Part no.
	Surface Temperature Probe for Wöhler DT 310 / A 400 ^{PRO} / DC 410 ^{FLOW} with clamp, range up to 100°C, clamp for pipes 6 – 35 mm Ø	6679 I
	Special Wall Temperature Probe Type W-02 for Wöhler A 400 or Wöhler DT 310	4651 I
	Special Wall Temperature Probe Type W-02 angulate for Wöhler A 500 or Wöhler DT 22	4718 I
	Surface temperature probe TF1 for Wöhler A 500 / DT 310 Thermoelement type K, up to max. 200°C / 392°F	6625 I
	Surface temp. probe TF2 for Wöhler A 500 / DT 310 Thermoelement type K, up to max. 500°C / 932°F	6626 I
	Surface temp. probe TF3 angulate for Wöhler A 500 / DT 310 Thermoelement type K, up to max. 500°C / 932°F	6628 I
	Penetration temp. probe TF4 for Wöhler A500 / DT 310 Thermoelement type K, up to max. 600°C / 1112°F	6629 I
	Flue gas temp. probe TF5 for Wöhler A 500 / DT 310 Thermoelement type K, up to max. 900°C / 1652°F	6635 I

Wöhler DC 430 Leakage Tester



APPLICATION

- Leakage testing on gas lines according to the DVGW directives (German Association of Gas and Water Engineers)
- Differential pressure testing
- Stress and main test
- Air speed



ADVANTAGES

- Leakage testing on in use gas appliance possible
- Easy and full automatic measurement: switch on – take readings
- Brilliant color display
- Integrated pumps
- High resolution: 0,01 hPa within the range ± 210 hPa
- Leakage test with gas
- Data transfer to PC via USB



TECHNICAL DATA

Differential pressure

Range.....	± 2 bar
Accuracy.....	< 3 % of the reading, within the range < ± 200 Pa better than ± 6 Pa
Resolution.....	1 Pa within the range -210 hPa bis +210 hPa, otherwise 10 Pa

Leakage test

Range.....	0,0 l/h to 10,0 l/h, tested up to 8 l/h
Accuracy.....	< $\pm 0,2$ l/h up to 4 l/h, otherwise 5 % of the reading
Resolution.....	0.1 l/h

Internal temperature measurement

Range.....	-20 °C to 60 °C
Accuracy.....	< ± 1 °C
Resolution.....	0.1 °C

External temperature measurement

(optional, e.g. with measuring pliers for temperature measurement or special wall temperature probe)	
Range.....	2 canals 20,0 °C to +800,0 °C
Accuracy.....	< ± 2 °C within the range of 0 °C bis 133 °C, otherwise 1.5 % of the reading
Resolution.....	0.1 °C

Moisture measurement (optional)

Range.....	0 % to 100 % r.H. non condensing
Accuracy.....	< ± 2 % r.H., within the range of 10 to 90 % r.H., otherwise < 3 % r.H.
Resolution.....	0.1 % r.H.

Absolute pressure (optional)

Range.....	300 hPa bis 1100 hPa
Accuracy.....	< $\pm 1,5$ hPa
Resolution.....	0,1 hPa

Current consumption 4 AA rechargeable batteries or 4 AA disposable batteries 1.5 volt

Interfaces..... USB interface for data transfer to a PC. It is possible to transfer the data directly from the meter to the Wöhler TD 600 thermal fast printer.

Operating temperature..... 5 °C to +40 °C

Dimensions..... 80 x 225 x 60 mm

Wöhler DC 430 Leakage Tester Standard Set

Scope of delivery:

Wöhler DC 430 Leakage Tester

batteries

battery charger,

heavy duty carrying case

Part no. 4285 J

Accessories	Part no.
 <p>Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries</p>	4160 I
 <p>Wöhler GS 220 Gas Sniffer Wöhler GS 220 gas sniffer with 440 mm gooseneck, batteries and plastic case</p>	6606 I
 <p>Wöhler gas bladder DC 430 Gas bladder with self-locked coupler for measuring the leakage rate with gas with the Wöhler DC 430</p>	9232 J
 <p>Gas line sealing set</p>	7292 K
 <p>Rubber plug, blue 16–32 mm 21–44 mm</p>	7162 O 7163 O
 <p>High pressure with gasket rings 1/2" and 1" 3/8" and 3/4"</p>	7213 O 7214 O
 <p>Plastic Case Wöhler DC 4xx</p>	9257 J
 <p>Charger Wöhler A 400, A 500 with plug adapter EU, US, GB</p>	3302 K
 <p>Set of 4 rechargeable NiMH batteries 2000 mAh for Wöhler A 500 / A 400</p>	9407 I
 <p>Supporting Loop DC 4xx</p>	54348 X
 <p>Measuring hose for Wöhler DC 430 1,5 m with snap-in connector and apaptors</p>	9237 J
 <p>Data Exchange Software for Wöhler DC 4xx / DP 600EN-FR-NL-CZ</p>	1005 J

Wöhler BC 21 Blower Check TÜV-approved



TECHNICAL DATA

Air flow	50 – 2,500 m ³ /h at a pressure difference of 50 Pa
Pressure difference	-100...+100 Pa
Air temp.	-20.00...50.00 °C
Accuracy	according to EN 13829
Blower	automatically regulated
Touch Screen	LCD 248 x 128 pix
Supply	230 V AC
Size	
Operation unit	130 x 240 x 280 mm
Blower	440 x 440 x 120 mm
Installation dimensions max.	
	1,300 x 2,300 mm
	min. 740 x 670 mm
Weight	22 kg in 2 cases

APPLICATION

- Determination of the tightness of the building shell
- All measurements according to EN13829
- Leakage detection in the building shell
- Proof of the building quality

ADVANTAGES

- Integrated measurement of the interior and outside temperature
- Continuous display of the flow rate in m³/h
- Excellent price performance ratio
- Large graphic LC display – all measured values on a view
- Over and negative pressure measurement
- IrDA interface for printer and PC
- Short setup by new clip system
- Compact measuring instrument, can be transported completely in 2 suit-cases
- Comfortable data input over complete alphanumeric touch-screen keyboard
- Integrated measuring data memory
- Leakage detection with continuous measured value display



Wöhler BC 21 Blower Check

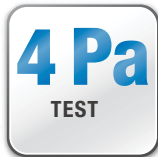
Scope of delivery:

- Wöhler BC 21 touch screen unit with carrying bag
- blower with foil
- set of clamps
- hose set
- thermo printer
- Wöhler aluminium case XXL

Part no. 4809 J

Accessories		Part no.
	Wöhler BC 21 Door Sealing telescopic aluminium frame, 1 telescopic pole for fixing blower, alu case	4864 K
	Wöhler BC 21 Sealing Set Hand Pump each 2 sealing plugs for water pipes: 40 mm Ø, 75 mm Ø, 125 mm Ø and 160 mm Ø, each 4 sealing plugs: 50 mm Ø and 110 mm Ø, each 1 sealing bladder size 3 and 5, 1 roll transparent tape 66 m, 1 roll textile tape 50 m, hand pump and valve set, plastic case MIDI	4810 J
	BC 21 Sealing Set each 2 sealing plugs for water pipes: 40 mm, 75 mm, 125 mm and 160 mm each 4 sealing plugs 50 mm and 110 mm each 2 sealing bladders 70-75 mm and 100-110 mm 1 roll transparent tape 66 m, 1 roll textile tape 50 m, valve set for pump	4811 J
	Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160 I
	Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600	4145 I
	Aluminium Case XXL 48 x 27 x 48 cm	5824 J
	Wöhler BC 21 Sealing Clamps Angular set with 4 pieces for sealing the Wöhler BC 21 blower in the window.	4807 K
	Wöhler BC 21 Sealing Clamps Straight set with 10 pieces for sealing the Wöhler BC 21 blower in the window.	4805 K
	Fog machine incl. remote control	3460 I
	Fog spray gun - Full set At the push of a button it generates a non aggressive oil dust for local leak detection. Includes: fog spray gun, fluid, machine attachment, small replacement attachment, screw-driver, 7 batteries, manual, all in a heavy-duty carrying case.	8450 I
	Wöhler LD 400 Laser Distance Meter Wöhler LD 400 Laser Distance Meter, 3 AAA batteries, protective bag	7190 I
	Wöhler TA 420 Thermoanemometer includes: Wöhler TA 420 with telescope tube, 4 batteries 1,5 V Typ AA plastic case	4605 I
	PC-Software Wöhler BC 21 DE / EN / FR	4869 J

Wöhler DP 600 Leakage Tester



TECHNICAL DATA

Pressure

Range	± 7.000 Pa
Resolution	0,1 Pa from 0,0 to 900,0 Pa
	1 Pa from 900 Pa
Accuracy	± 0,5 Pa, ± 2,5 % f.m.

Volume flow without adapter

Range	0,0 to 200,0 Nm ³ /h
Resolution	0,1 Nm ³ /h
Accuracy	± 2,5 Nm ³ /h, ± 5 % f.m.

Volume flow with adapter 3,0

Range	0,00 to 10,00 Nm ³ /h
Resolution	0,01 Nm ³ /h
Accuracy	± 0,05 Nm ³ /h, ± 5 % f.m.

Volume flow with adapter 0,3

Range	0,10 to 18,00 NL/min
Resolution	0,01 NL/min
Accuracy	± 0,05 NL/min, ± 5 % f.m.

General information

Power Supply	110 to 230 V, 50 to 60 Hz
Size	33 x 36 x 15 cm
Weight	9,2 kg

APPLICATION

- Tightness testing with leakage rates up to 200.00 m³/h
- Tightness testing of all chimney classes and flue gas systems
- Tightness testing of flue gas systems of combined heat and power plants
- Confirmation of a sufficient combustion air supply according to TRGI sheet G 625 (simple and detailed procedure)
- Stove tightness testing
- Tightness testing is also possible with negative pressure

ADVANTAGES

- Equipped with a brilliant colour display and a simple menu navigation
- Volume flow adjustable up to 200 m³/h
- Extended pressure range up to ± 7,000 Pa
- Integrated memory for up to 100 measurement records
- USB interface for the PC
- IrDA interface for the printer
- Tightness classes preset for flue gas systems N, P and H according to EN 1443
- 4 Pa-Test without any auxiliary measuring instrument



TIGHTNESS TESTING
of all flue gas systems



4 PA-TEST
with low pressure measurement and data logging

FUNCTION

The Wöhler DP 600 checks the tightness of exhaust ducts and chimneys. The menu enables the user to select between the different installation types. The Wöhler DP 600 regulates automatically the pressure which is necessary for the flue gas systems type P1 (exhaust ducts), H1 (combined heat and power plants, exhaust ducts with high pressure), N1 and N2 (chimneys) and determines the leakage rate automatically.

It also disposes of a variable mode which allows the user to select the test pressure and the leakage rate. This way, tightness tests of ventilation systems or flue gas systems type P2 or H2 are also possible. A thermal fast printer can print all results.

New: Also suitable for the confirmation of a sufficient combustion air supply according to DVGW 625 („simple procedure“ and „detailed procedure“) with the necessary differential pressure test (4 Pa test). No auxiliary measuring instrument will be necessary.

The Wöhler DP 600 simulates the combustion air inlet of a fireplace. After the user has entered the capacity of the fireplace, the Wöhler DP 600 will produce automatically the corresponding volume flow which passes through the chimney and will register the pressure progression in the room.

Wöhler DP 600 Leakage Tester for tightness testing of chimneys and flue gas systems and for 4 Pa-test

Scope of delivery:

Wöhler DP 600 with mains cable and adapters for all tightness tests of fluegas systems - comes without sealing bladders and elements, plastic case included

Part no. 2678 J

Sealing Sets and Accessories **Part no.**



Wöhler DP 600 Sealing Set Type P + H

for 200 + 5.000 Pa measurements

comes with:

hoses, sealing bladder with gas lead through and without gas lead through 50-150 mm and hand pump

2601 J



Wöhler DP 600 Sealing Set Type N

for 20 + 40 Pa measurements

comes with:

measuring probe DP 600 /DP 23 with extension tube, ferrule, pressure hose 4 m, extension tube 4 m and different sealing elements

2602 J



Sealing Element, round with hole

for Wöhler DP 600 / DP 23

Ø 110 - 150 mm (G625)

3843 K



Extension tube 3,75 m

for Wöhler DP 600 / DP 23

50 mm Ø

50676 0



Wöhler DP 600 Capillary hose, 6 m

for the 4 Pa-Test (differential pressure)

capillary hose 6 m, connector, silicone hose

(+) port

2604 J

(-) port

2672 J



Set Wöhler DP 600 Capillary hoses, 6 m

for the 4 Pa-Test (differential pressure)

capillary hose 6 m with (+) port, capillary hose 6 m with (-) port, connector, silicone hose

2670 J

Printer **Part no.**



Wöhler TD 100 Thermal Fast Printer

Infrared printer with 1 roll thermal paper and four batteries

4160 I



Thermal Paper

57 mm width, 10 rolls

for thermal printer Wöhler TD 100, TD 600

4145 I





Software **Part no.**










Data Exchange Software

for Wöhler DC 4xx / DP 600EN-FR-NL-CZ

1005 J

Sealing Bladders and Accessories		Part no.
	Wöhler DP 600 / DP 23 Sealing Bladder with gas lead through	
	50 - 150 mm	7973 K
	150 - 350 mm	7974 K
	Wöhler DP 600 / DP 23 Sealing Bladder without gas lead through	
	50 - 150 mm	7970 K
	150 - 350 mm	7971 K
	Wöhler Replacement Bladder for sealing bladders with or without gas lead through	
	50 - 150 mm	8034 K
	150 - 350 mm	6217 X
	Wöhler DP 600/DP 23 Telescopic Bladder with 20 m hose for pushing upwards	
	50 - 150 mm	7933 K
	150 - 350 mm	7938 K

Sealing Elements		Part no.
	Wöhler DP 600/DP 23 Sealing Element Set Square	8220 G
	Sealing elements square without hole: 120 x 120 mm / 190 x 190 mm, 180 x 180 mm / 250 x 250 mm, 220 x 220 mm / 290 x 290 mm, 270 x 270 mm / 340 x 340 mm, 330 x 330 mm / 390 x 390 mm Sealing elements square with hole: 100 x 200 mm / 150 x 260 mm, 110 x 230 mm / 190 x 310 mm, 220 x 250 mm / 290 x 310 mm, 220 x 230 mm / 350 x 400 mm, 270 x 350 mm / 330 x 400 mm, 270 x 410 mm / 340 x 480 mm	
	Wöhler DP 600/DP 23 Sealing Element set round	8050 G
	Sealing elements, 4 pieces round with and 4 pieces without hole, 110 - 150 mm, 140 - 180 mm, 170 - 210 mm, 230 - 270 mm	
	Sealing Element, round with hole for Wöhler DP 600 / DP 23 Ø 110 - 150 mm (G625)	3843 K

Cases		Part no.
	<p>Universal Box Wöhler DP 600 for Wöhler DP 600, Wöhler TD 100 Thermal Fast Printer, Sealing Set Type P and Type N and sealing elements</p>	50784 0
	<p>Plastic Case for Wöhler DP 600 for Wöhler DP 600 and Wöhler TD 100 Thermal Fast Printer</p>	54810 X
	<p>Aluminium Case XXL 48 x 27 x 48 cm</p>	5824 J
Accessories / Other Products		Part no.
	<p>Accu Compressor comes with 3 different adaptors, pressure control valve, adapter cable for 12 V car supply and 220 V charger</p>	7460 K

Wöhler GS 220 Gas Sniffer



TECHNICAL DATA

Sensitivity	40 ppm
Sensor	Semiconductor
Indicators	acoustic signal and optically by stage-LED
Flex holder	440 mm long
Warm up time	max. 50 sec.
Refresh time	2 sec.
Work temperature	-5...45 °C
Supply	4 AA batteries, 1.5 V
Size	130 x 70 x 35 mm
Weight	300 g

APPLICATION

Leakage detection of gas lines carrying combustible gases

ADVANTAGES

- Calibrated for methane (CH₄) and liquid petrol gas (LPG)
- Highly sensitive and quick response
- 440 mm flexible gooseneck for easy access of hard to reach spots
- Handheld unit

Wöhler GS 220 Gas Sniffer

Scope of delivery:

Wöhler GS 220 gas sniffer with 440 mm gooseneck

batteries

plastic case

Part no. 6606 I

Accessories



Headphone
with volume control

Part no.

55145 X

Wöhler CM 220 CO-Meter



APPLICATION

- Measurement of CO concentration in the ambient air
- Test CO leakage from furnaces, water heaters, stoves
- 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)

TECHNICAL DATA

Range	0...999 ppm
Accuracy	±20 % at 0...99 ppm ±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.	-20–60 °C
Operating temp.	0–90 °C
Size	175 x 47 x 28 mm

Wöhler CM 220 CO-Detector

Scope of delivery:

Wöhler CM 220 CO-Detector

Part no. 6613 I

Wöhler UL 23 Ultrasonic Leak Detector



TECHNICAL DATA

Frequency regulation	Precision-Quarzoszillator
Output frequency	40 kHz (± 2.5 Hz)
Indicator	acoustic signal and level LEDs
Output intensity	115 dB at 30 cm
Wave conductor	200 mm long
Sonic probe	200 mm long
Work temperature	-20...45 °C
Current supply	9 V Block battery
Service life	70 hours permanent use
Weight	1.25 kg in complete case

APPLICATION

Leak detection at e.g.:

- Gas lines
- Water lines
- Refrigerant units
- Pneumatic systems
- Hydraulic systems
- Vacuum systems
- Electrical systems:
switches, relays and other contacts

Wöhler UL 23 Ultrasonic Leak Detector Receiver only

Scope of delivery:

Wöhler UL 23 ultrasonic leak detector

headset

wave guide

sonic probe

Part no. 3620 I

Wöhler UL 23 Ultrasonic Leak Detector Sender + Receiver

Scope of delivery:

Wöhler UL 23 ultrasonic leak detector

Wöhler UL 23 ultrasonic sound generator

wave conductor

headset

plastic case Midi 60

Part no. 3630 I



TABLE OF CONTENTS

MEASURING INSTRUMENTS – IAQ/BUILDING

73 PRODUCT OVERVIEW IAQ/BUILDING

74 MEASUREMENT OF TEMPERATURES/HUMIDITY/SOUND

- 74 Wöhler DT 310 Differential Temperature Meter
- 75 Wöhler IR Temp 210 Infrared Thermometer
- 75 Wöhler IR Hygrotemp 24
- 76 Wöhler RF 220 Hygrotemp
- 76 Wöhler SP 22 Sound Level Meter
- 77 Wöhler CDL 210 CO₂-Datalogger
- 78 Wöhler KM 410 Indoor Air Quality Meter

79 AIR SPEED MEASUREMENT

- 79 Wöhler TA 420 Thermoanemometer
- 80 Wöhler FA 410 Fan Anemometer **NEW**
- 81 Wöhler FA 430 Fan Anemometer **NEW**

PRODUCT OVERVIEW

IAQ / BUILDING



Wöhler DT 310
Differential Temperature
Meter

page 74



Wöhler IR Temp 210
Infrared Thermometer

page 75



**Wöhler IR
Hygrotemp 24**

page 75

APPLICATION

Air velocity / flow rate in ductwork

Differential temperature measurement, e.g. flow/return

Evaluation of the efficiency of an air ventilation system

CO-detection in rooms, workplaces & garages

Air humidity measurement in rooms & air ducts

Surface temperature measurement

Mold potential

•

•

• (room)

•

•

•

•

MEASURED VALUES / INSTRUMENT TECHNOLOGY

Air velocity

Flowrate

Temperature

Air humidity

Dew Point/Wet bulb temperature

CO₂

CO

Data-interface printer, PC

Datalogger

PC-Software

•

•

•

•

•

• (PC)

•



Wöhler CDL 210
CO₂-Datalogger

page 77



Wöhler KM 410
Indoor Air Quality Meter

page 78



Wöhler RF 220
Hygrotemp

page 76



Wöhler TA 420
Thermoanemometer

page 79



Wöhler FA 410 NEW
Fan Anemometer

page 80



Wöhler FA 430 NEW
Fan Anemometer

page 81

MEASURING INSTRUMENTS FLUE GAS ANALYSIS					
MEASURING INSTRUMENTS LEAKAGE AND PRESSURE					
			•	•	•
•	•			•	•
• (room)	• (room)	•			• (room)
MEASURING INSTRUMENTS IAQ/BUILDING					
			•	•	•
•	•	•	•	•	•
•	•	•		•	•
•	•			•	•
• (PC)	• (PC)	• (printer)			•
•	•				
•	•				
VISUAL INSPECTION					
SWEEP INSTRUMENTS					

Wöhler DT 310 Differential Temperature Meter



APPLICATION

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

ADVANTAGES

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

TECHNICAL DATA

Resolution

K	-200...650 °C	0.1 °C
	640...1370 °C	1 °C
J	-200...500 °C	0.1 °C
	490...760 °C	1 °C
T	complete range	0.1 °C

Accuracy

K	-200...1370 °C ± 0.3 % f.m. + 0.7 °C
J	-200...760 °C ± 0.3 % f.m. + 0.7 °C
T	-200...390 °C ± 0.3 % f.m. + 0.7 °C

Supply 1 x 9 V Block battery

Humidity 0...85 % RH (not condensing)

Operating temperature 0...50 °C

Size 181 x 72 x 32 mm (LxWxT)



Wöhler DT 310 Differential Thermometer

Scope of delivery:

Wöhler DT 310

2 surface probes (type K)

battery

plastic carrying case

Part no. 6622 I

Accessories

Part no.



Special Wall Temperature Probe Type W-02

for Wöhler A 400 or Wöhler DT 310

4651 I



Surface temp. probe TF2

for Wöhler A 500 / DT 310

Thermoelement type K, up to max. 500°C / 932°F

6626 I



Surface temp. probe TF3 angulate

for Wöhler A 500 / DT 310

Thermoelement type K, up to max. 500°C / 932°F

6628 I



Penetration temp. probe TF4

for Wöhler A500 / DT 310

Thermoelement type K, up to max. 600°C / 1112°F

6629 I



Flue gas temp. probe TF5

for Wöhler A 500 / DT 310

Thermoelement type K, up to max. 900°C / 1652°F

6635 I



Surface Temperature Probe

for Wöhler DT 310 / A 400PRO / DC 410Flow

with clamp, range up to 100°C, clamp for pipes 6 – 35 mm Ø

6679 I

Wöhler IR Temp 210 Infrared Thermometer



APPLICATION

Non-contact temperature measurement of surfaces

ADVANTAGES

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

TECHNICAL DATA

Range	-40...+500 °C
Accuracy	± 2 °C, ± 2 % f. m.
Resolution	0.1 °C
Reaction time	500 msec.
Display	LCD, 3 figure
Emission factor	0.30 - 0.99 adjustable
Supply	9 V battery
Size	170 x 80 x 45 mm)

Wöhler IR Temp 210 Infrared Thermometer

Scope of delivery:

Wöhler IR Temp 210 with battery and hand loop

Part no. 6612 I

Wöhler IR Hygrotemp 24



APPLICATION

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

ADVANTAGES

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

TECHNICAL DATA

Temperature range	-20...50 °C
Accuracy	± 0.6 °C f.m.
Resolution	0.1 °C
Infrared Temperature range	-40...500°C
Accuracy	± 2 % or ± 2 °C (-20...450°C), rest ± 3 % or ± 3 °C f.m.
Resolution	0.1 °C
Response time	500 msec.
Ratio	8:1
Humidity range	0 to 100% (not condensing), ± 3 % at 10...90 %, rest ± 5 %
Resolution	0.1 %
Wet bulb temperature	-21.6 to 49.9 °C
Emission factor	0.30...0.99 adjustable
Display	3 line LCD
Current supply	4 x 1.5V micro battery
Size	170 x 50 x 70 mm
Weight	170 g (without case)

Wöhler IR Hygrotemp 24

Scope of delivery:

Wöhler IR Hygrotemp 24 with batteries and plastic case

Part no. 6603 I

Wöhler RF 220 Hygrotemp



APPLICATION

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

ADVANTAGES

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

TECHNICAL DATA

Range	
Rel. Humidity	0...99 % r.H.
Temperature	-10...+60 °C
Dew point	-73.4...59.9 °C
Wet bulb temp.	-13.4...~ 59.9 °C
Accuracy	
Rel. Humidity	± 3 % r.H. (10 - 90 %)
	otherwise ± 5 % r.H.
Temperature	± 0,6 °C f.m.
Storage temperature	
-20...+60 °C	
Operating temperature	
0...+50 °C	
Weight	
approx. 270 g	

Wöhler RF 220 Hygrotemp

Scope of delivery:

Wöhler RF 220 with probe

4 x AAA batteries

plastic carrying case

Part no. 6615 I

Accessories

Part no.



Calibration Set Wöhler IR Hygrotemp 24
33% and 75 % humidity reference

6605 I

Relative Humidity remote probe
Wöhler RF 220

6624 I

Wöhler SP 22 Sound Level Meter



APPLICATION

- Building services
- Building physics
- Heat appliances

ADVANTAGES:

- Accuracy class 3 L
- Different measuring range and scanning rates
- Hold function
- RS 232 interface

TECHNICAL DATA

Range	31.5 Hz...8 kHz
Accuracy	± 1.5 dB
Measurement Level A filter	
	30 dB...130 dB
Measurement Level C filter	
	35 dB...130 dB
Measurement Level Range	
	6 levels in 10 dB steps:
	30...80 dB, 40...90 dB,
	50...100 dB, 60...110 dB,
	70...120 dB, 80...130 dB
Automatic Range	30...130 dB
Display	3 1/2 digit LCD, resolution
	0.1 dB, update every
	0.5 sec.
Quasi Analog Bar Indicator	
	1 dB display steps, 50 dB
	display range, updated
	every 50 ms
Range	50 dB
Time Weighting	Fast (F): 125 ms
	Slow (S): 1 s
Size	80 x 256 x 38 mm
Weight	240 g
Supply	9 V block battery

Wöhler SP 22 Sound Level Meter

Scope of delivery:

Wöhler SP 22 in plastic case

Part no. 6670 I

Wöhler CDL 210 CO₂-Datalogger

**DATA
LOGGER**
CO₂, HUMIDITY,
TEMPERATURE



TECHNICAL DATA

CO₂-Measurement

Range..... 0 - 2,000 ppm
Resolution: 1 ppm
Accuracy: . ± 50 ppm ± 5 %

°C-Measurement

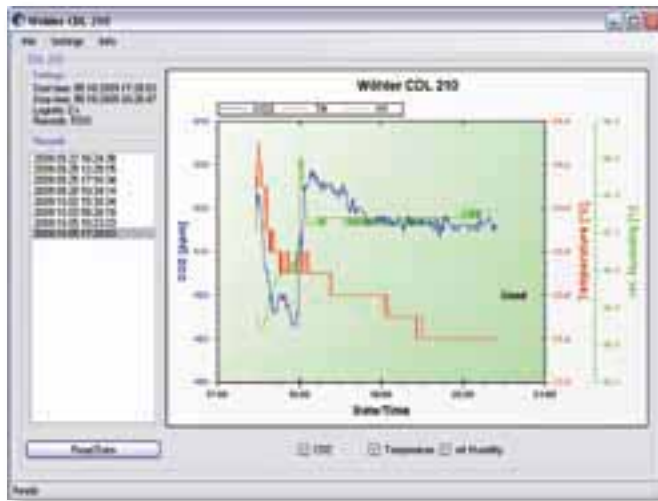
Range..... -10 °C...+60 °C
Resolution: 0,1 °C
Accuracy: . ± 0.6 °C

Measurement of air humidity

Range..... 5 - 95 % r.H.
Resolution..... 0,1 % r.H.
Accuracy..... 10-90 %, 25 °C: ± 3 % r.H.
otherwise: ± 5 % r.H.

List of measurement readings

5,300 total
Logrates 3/10/30 Sec.
1/3/10/30 min.
1/3/4 h.



APPLICATION

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

ADVANTAGES

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

Wöhler CDL 210 CO₂-Datalogger

Scope of delivery:

Wöhler CDL 210 CO₂-Datalogger, power supply, data cable, PC software

Part no. 6648 I

Wöhler KM 410 Indoor Air Quality Meter

HIGH ACCURACY

DATA LOGGER
CO₂, CO, HUMIDITY, TEMPERATURE



TECHNICAL DATA

CO₂-Measurement (NDIR-Sensor)

Range:..... 0 – 5,000 ppm
Resolution..... 1 ppm
Accuracy..... ± 30 ppm ± 5 %
Warming phase..... 30 sec
Response time..... <30 sec

CO-Measurement

Range..... 0 – 1,000 ppm
Resolution..... 1 ppm
Accuracy..... ± 10 ppm or less than 100 ppm
± 10 % between 101-500 ppm
± 20 % more than 501 ppm
Response time..... <60 sec.

Temperature

Range..... -20.0 °C...+60.0 °C (-5 – 140 °F)
Resolution..... 0.1 °C (0.1 °F)
Accuracy..... ± 0,5 °C (± 0,9 °F)

Relative air humidity

Range..... 0.1...99.9 % r.H.
Resolution..... 0,1 % r.H.
Accuracy..... ± 3 % at 10 to 90 % r.H. and 25 °C,
± 5 % r.H. at other readings ... and 25 °C
Response time..... <10 sec

Working temp...... 0 °C... +50 °C

Storage temp...... -20 °C... +60 °C, 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..... USB-interface

Memory..... 6,000 per list of measurement readings CO₂, temp., r.H., CO

Logrates..... 1s...4h49m59s

Size..... 205 x 70 x 56 mm

Weight..... 200 g

APPLICATION

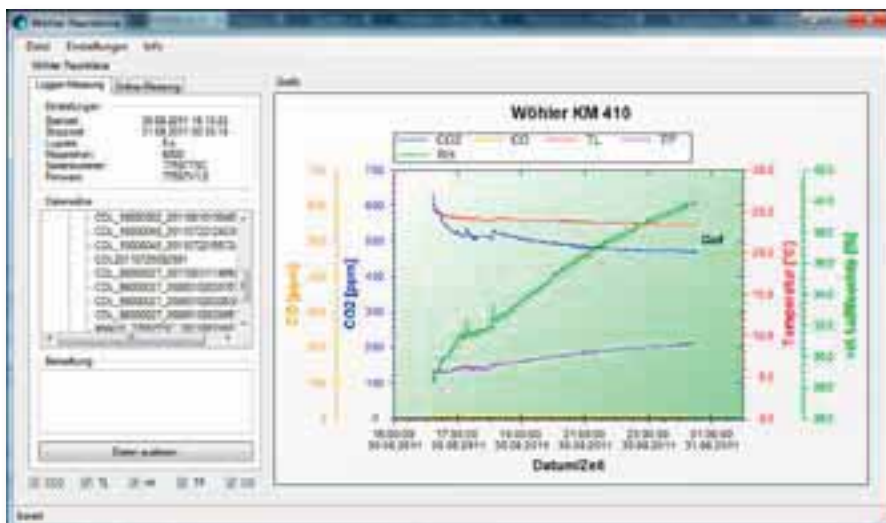
The Wöhler KM 410 Indoor Air Quality Meter is the perfect instrument for verifying HVAC system performance and air ventilation control.

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



Wöhler KM 410 IAQ Instrument

Scope of delivery:

Wöhler KM 410 instrument,

4 AA-Batteries

USB-Data Cable

PC-Software

Manual and plastic case

Part no. 4280 I

Wöhler TA 420 Thermoanemometer



APPLICATION

- Measurement of airspeed, flow and temperature

ADVANTAGES

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



TECHNICAL DATA

Flow velocity

Range	0.2 – 20.0 m/s
	0.7 – 72.0 km/h
Resolution	0.1 m/s
	0.1 km/h
Accuracy.....	± 5 %

Flow rate

Range	0 – 36,000 m ³ /min
Resolution	0.001 – 1 m ³ /min
Accuracy.....	0.00 – 30.0 m ²

Air temperature

Range	0 – 50 °C
	32 °F – 122 °F
Resolution	0.1 °C
	0.1 °F
Accuracy.....	± 0.8 °C
	± 1.5 °F

Size 203 x 76 x 38 mm

Weight 515 g

Current supply 4 x AA batteries



Wöhler TA 420 Thermoanemometer

Scope of delivery:

Wöhler TA 420 with telescopic probe

4 batteries 1,5 V type AA

plastic case

Part no. 4605 I

Accessories



Air Flow Funnel

for Wöhler A 600 / TA 420

Funnel K120

range 50-1,200 m³/h, size 450 x 450 x 600 mm

Funnel K35

range 10-400 m³/h, size 200 x 200 x 330 mm

Funnel K 75

range 30-750 m³/h, size 300 x 300 x 370 mm

Funnel K 150

range 50-2,000 m³/h, size 550 x 100 x 600 mm



Wöhler IR Hygrotemp 24

with batteries and plastic case

Artikel-Nr.

Preis

53789 I

53794 I

53793 I

53788 I

6603 I

Wöhler FA 410 Fan Anemometer **NEW**



TECHNICAL DATA

Range

Flow velocity.....0,5 – 30 m/s
 Volume flow0 – 99,999 m³/h
 Temperature.....-20,0 °C – 60 °C

Resolution

Flow velocity0.1 m/s
 Volume flow0.1 (0 – 9,999,9) or
 1 (10,000 – 99,999) m³/h
 Temperatur0.1 °C/°F

Accuracy

Flow velocity.....±(1.5 % of reading +0.3 m/s)
 for under 20 m/s,
 ±(3 % of reading +0.3 m/s)
 for above 20 m/s
 Temperature.....± 0.6 °C

Operating conditions

(to avoid condensation)0 – 50 °C, < 90 % RH

Storage conditions-10 – 50 °C, < 90 % RH

Power supply4 micro batteries AAA

Dimensions269 x 106 x 51 mm

Fan diameter.....10 cm

Weight (without funnel)270 g

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

ADVANTAGES

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

Wöhler FA 410 Fan anemometer

Scope of delivery:

Wöhler FA 410 Fan Anemometer

4 x AAA batteries

plastic carrying case

Part no. 4146 I

Wöhler FA 410 Fan Anemometer Set with Wöhler FA 4xx measuring funnel set

Scope of delivery:

Wöhler FA 410 Fan Anemometer

4 x AAA batteries

plastic case

Wöhler FA 4xx measuring funnel set with rectangular and round measuring funnel

in a handy carrying bag; funnels can be clipped onto the fan anemometer

rectangular funnel: 346 x 346 mm

round funnel: Ø 210 mm

Part no. 4155 I

Wöhler FA 430 Fan Anemometer **NEW**



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

ADVANTAGES

- 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 Wöhler TD 100 Thermal Fast Printer
- Wöhler 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



Wöhler FA 430 Fan Anemometer incl. CO₂-Measurement

Scope of delivery:
 Wöhler FA 430 Fan Anemometer
 4 x AAA batteries
 plastic carrying case

Part no. 4147 I

TECHNICAL DATA

Range

Flow velocity.....0.5 – 30 m/s
 Volume flow.....0 – 99,999 m³/h
 Temperature.....-20.0 °C – 60 °C
 Relative humidity.....0.1% – 99.9%
 Dew point.....-20.0 °C – 59.9 °C
 Wet-bulb temperature.....-20.0 °C – 59.9 °C
 CO₂.....0 – 9,999 ppm

Resolution

Flow velocity.....0.1 m/s
 Volume flow.....0.1 (0 – 9,999.9) or 1 (10,000 – 99,999)
 Temperature.....0.1 °C/°F
 Relative humidity (RH).....0.1 %
 Dew point.....0.1 °C/°F
 Wet-bulb temperature.....0.1 °C/°F
 CO₂.....1 ppm

Accuracy

Flow velocity.....±(1.5 % of reading + 0.3 m/s) for under 20 m/s, ±(3 % of reading + 0.3 m/s) for above 20 m/s
 Temperature.....± 0.6 °C
 Relative humidity.....± 3 % (at 25 °C), otherwise ± 5 %
 CO₂.....± 30 ppm ±5 % of reading (0 – 5,000 ppm)

CO₂ warm-up time.....30 seconds

Operating conditions

(to avoid condensation).....0 – 50 °C, < 80 % RH

Storage conditions.....-10 °C – 50 °C, < 90 % RH

Power Supply.....4 micro batteries AAA

Dimensions.....269 x 106 x 51 mm

Fan diameter.....10 cm

Weight (without funnel).....270 g

Wöhler FA 430 Fan Anemometer Set with Wöhler FA 4xx measuring funnel set

Scope of delivery:

Wöhler FA 430 Fan Anemometer

4 x AAA batteries

plastic case

Wöhler FA 4xx measuring funnel set with rectangular and round measuring funnel

in a handy carrying bag; funnels can be clipped onto the fan anemometer

rectangular funnel: 346 x 346 mm

round funnel: Ø 210 mm

Part no. 4156 I



TABLE OF CONTENTS

VISUAL INSPECTION

84 | PRODUCT OVERVIEW VISUAL INSPECTION

84 | VISUAL INSPECTION

- 86 | Wöhler VIS 200/250 Service Camera **NEW**
- 90 | Accessories Wöhler VIS 200/250 Service Camera
- 92 | Wöhler VIS 300/350 Service Camera **NEW**
- 96 | Accessories Wöhler VIS 300/350 Service Camera
- 98 | Wöhler VIS 400 Visual Inspection Camera – Modular System Design **NEW**
- 104 | Accessories Wöhler VIS 400 Visual Inspection Camera – Modular System Design
- 109 | Wöhler L 200 Locator – for exact location of the damaged spot **NEW**

110 | ENDOSCOPY

- 110 | Wöhler VE 200 Video-Endoscope **NEW**

111 | VISUAL CONTROL

- 111 | Wöhler Glass Mirrors
- 111 | Wöhler Metal Chimney Mirrors

PRODUCT OVERVIEW

VISUAL INSPECTION



Wöhler VIS 250
Service Camera

page 86-91



Wöhler VIS 350
Visual Inspection Camera

page 92-97



Wöhler VIS 400
Visual Inspection Camera
Modular System

page 98-108

APPLICATIONS

Dry environments – e.g. Flue Gas Systems.:	Ø 125 mm or bigger		• (1)	•
	Ø 100 mm to Ø 125 mm	•	•	•
	Ø 70 mm to Ø 100 mm	•	•	•
Wet environments – e.g. Waste Water Pipes:	Ø 125 mm or bigger		• (4)	•
	Ø 70 mm to Ø 125 mm	• (4)	• (4)	•
	Ø 40 mm to Ø 70 mm	• (4)		•
Twin walls, cavaties, ducts			•	•

FEATURES

Video Memory	2 GB SD-Card (VIS 250)	2 GB SD-Card (VIS 350)	2 GB SD-Card
MD = Digital Meter Counter (Resolution. 0.04 m)	MD	MD	MD with Camera Viper or Cable Reel
Video Output	RCA	RCA	RCA
Location of the camera head/damaged spot	with Wöhler L 200 Locator	with Wöhler L 200 Locator	
Audio recording			•

TECHNICAL DATA

Monitor:	Display	7" TFT	7" TFT	7" TFT
	Battery Voltage & Technology / Main Supply (N)	1 x 12 V NiMH battery (Space to store 2 recharge- able NiMH batteries) / (N)	2 x 12 V NiMH batteries / (N)	1 x 12 V NiMH battery (N)
	Operation Time with batteries	1 x 120 min = approx. 2 h	2 x 120 min = approx. 4 h	approx. 2 h
Camera Head:	Dimensions	Ø 26 mm x 38 mm	Ø 40 mm x 60 mm	
	Pan- and tilt range		360°/180°	
	Protection class	IP 68 (5)	IP 67	
	Field of View (FOV)	120°	120°	
	Lighting	12 x LED white	12 x LED white	
Cable/Push Rod:	Length/Diameter	20 / 30 m, Ø 6.0 mm	20 m / 30 m, Ø 6.5 mm	
Total Dimensions		51 x 43 x 17 cm	51 x 43 x 17 cm	19.9 x 19.6 x 4 cm (without bag)
Weight		8 kg	8 kg	1.2 kg (without bag)

(1) top down and bottom top inspection (2) limited use in bends (3) with roller guide, see accessories;
splash water proof only (4) recommended for wet applications; waterproof (5) up to 3 bar



Miniature Color Camera Head
Ø 26 mm
page 104



Pan-/Tilt Color Camera Head
Ø 40 mm
page 104



Camerahead
Ø 51 mm,
pan-/ tilttable
page 104



Wöhler Camera Viper 42
with push rod
Ø 42 cm
page 105



Wöhler Camera Viper 36
with push rod
Ø 36 cm
page 105



Wöhler Cable Reel
page 104

	● (1)	●	●	● (1)	● (1)
●	●	●	●	●	● (1)
●	●	● (2)		●	● (1)
●				●	● (1)
	● (4)	● (3)	●		
	● (4)	● (2, 3)	●	●	
● (4, 5)				●	
	●	●	●		
			MD	MD	MD
with Wöhler L 200 Locator	with Wöhler L 200 Locator				
Ø 26 mm x 38 mm	Ø 40 mm x 60 mm	Ø 51 mm x 99 mm			
	360° / 180°	360° / 180°			
IP 68 (6)	IP 67	IP 64			
120°	120°	98° x 75°			
12 x LED white	12 x LED white	4 x bulbs, 6 x LED white			
			20/30 m, Ø 7 mm	20/30 m, Ø 6.5 mm	20/30 m, Ø 5 mm
Ø 26 mm x 38 mm	Ø 40 mm x 60 mm	Ø 51 mm x 99 mm	Ø 42 cm x Ø 10 cm	Ø 36 cm x Ø 10 cm	Ø 35 cm x Ø 10 cm
60 g	110 g	240 g	3.1 to 3.5 kg	2.6 to 3 kg	3 to 3.5 kg

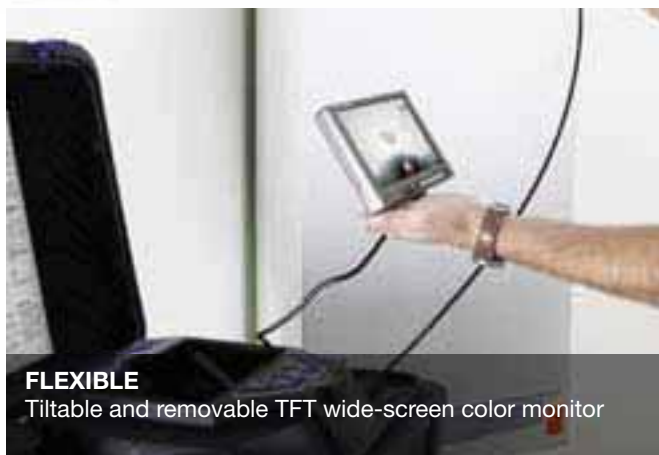
CLEAR VIEW, WHEN SPACE IS TIGHT **NEW**

Wöhler VIS 250 – Video inspection, position indicator and locator

Wöhler's innovative VIS 250 service camera enables you to easily analyze damage in pipes of Ø 40 mm 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 water pipes (at least Ø 40 mm) and inspect downpipes as well as flue gas lines. Absolutely essential to analyze damage quickly!



VISUAL INSPECTION



FLEXIBLE
Tiltable and removable TFT wide-screen color monitor



WATERPROOF AND ROBUST
The camera head easily negotiates 87°-bends in pipes of Ø 40 mm and larger



WIDE RANGE OF APPLICATIONS

Analyze damage and inspect:

- Waste water pipes of Ø 40 mm and larger
- Ventilation lines of Ø 40 mm and larger
- Inspect hollow spaces; e.g. in front-wall installations
- Flue gas lines up to approx. Ø 125 mm

FUNCTIONALITY

- Waterproof, light-sensitive camera head with a diameter of just 26 mm easily takes bends
- Store video footage on a 2 GB SD card (Wöhler VIS 250)
- Digital Position Indication of the camera head (Wöhler 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

LOCATOR (OPTIONAL)

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

DOCUMENTATION

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



TECHNICAL DATA

Monitor

Dimensions housing..... 176 x 114 x 32 mm
 TFT-display 7" / 16:9 format
 Video out RCA signal
 Weight 400 g
 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 h (battery status in display)

Miniature camera head, color Ø 26 mm

Type 1/3" COLOR CMOS
 Resolution 420 lines
 Pixels 768 x 576 (PAL), 656 x 492 (NTSC)
 Light sensitivity 0.5 Lux
 Lens f = 2.3 mm, F = 2.5
 Viewing angle 115°
 Light source 12 white LEDs
 Degree of protection Waterproof to IP 68
 Dimensions Ø 26 mm x 38 mm
 Weight 240 g
 Operation temperature 0...40 °C, RH 95 % MAX
 Storage temperature -20...50 °C, RH 95 % MAX
 Transmitter frequency 8.9 kHz

Distance measurement

Wöhler VIS 200/250 Electronic meter counter

Plastic case

Dimensions 51 x 43 x 17 cm (L x W x H)
 Weight 7 kg

Memory (Wöhler VIS 250)

Recording 2 GB SD card (2,5 h recording capacity)
 Interface Mini USB port

Locator sender

Transmitter frequency 8.9 kHz

Locator receiver

Display Graphic visualization of transmitted position
 Output impedance
 Headphones 32 Ohm
 Power supply 3.7 V Li-Ion rechargeable battery
 Operating temperature 0...40 °C
 Storage temperature -10 °C...40 °C
 Weight 605 g
 Dimensions 32 x 14 x 7 cm (L x W x H)

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

PRODUCT FEATURES

	Flues, ventilation lines, waste water pipes	
Wöhler VIS	200	250
Features		
Color camera head Ø 26 mm	●	●
Digital meter counter	●	●
Photo and video record		●
Menu		●
Video settings		●
Transmitter / Probe	●	●
Level indicator		●

Wöhler VIS 200 Service Camera **NEW**



The color camera head Ø 26 mm can be located with the Wöhler L 200 Locator- more information see page 109



Wöhler VIS 200 Service Camera 20 m

for visual inspection of water pipes, flues and ventilation lines from 40 – 150 mm Ø

Scope of delivery:

Wöhler VIS 200 Service Camera

Wöhler color camera head Ø 26 mm V2

Wöhler TFT monitor 7" with 2 m cable (detachable)

20 m push rod Ø 6 mm

digital meter counter

1 anti-slide-mat

1 NiMH-battery and charger

plastic case

→ Accessories on page 90

Part no. 6260 J

Wöhler VIS 200 Service Camera 30 m

for visual inspection of water pipes, flues and ventilation lines fom 40 – 150 mm Ø

Scope of delivery:

Wöhler VIS 200 Service Camera

Wöhler color camera head Ø 26 mm V2

Wöhler TFT monitor 7" with 2 m cable (detachable)

30 m push rod Ø 6 mm

digital meter counter

1 anti-slide-mat

1 NiMH-battery and charger

plastic case

→ Accessories on page 90

Part no. 5702 J

Wöhler VIS 200 Service Camera 30 m, with Wöhler Locator L 200

for visual inspection of water pipes, flues and ventilation lines fom 40 – 150 mm Ø

Scope of delivery:

Wöhler VIS 200 Service Camera

Wöhler L 200 Locator

Wöhler color camera head Ø 26 mm V2

Wöhler TFT monitor 7" with 2 m cable (detachable)

30 m push rod Ø 6 mm

digital meter counter

1 anti-slide-mat

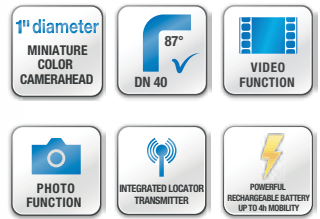
1 NiMH-battery and charger

plastic case

→ Accessories on page 90

Part no. 5703 J

Wöhler VIS 250 Service Camera **NEW**



!
The color camera head Ø 26 mm can be located with the Wöhler L 200 Locator – more information see page 109

Wöhler VIS 250 Service Camera 20 m

for visual inspection of water pipes, flues and ventilation lines from 40 – 150 mm Ø

Scope of delivery:

Wöhler VIS 250 Service Camera

digital meter counter

Wöhler color camera head Ø 26 mm V2

SD memory card 2 GB for recording of pictures and videos

Wöhler TFT monitor 7" with 2 m cable (detachable)

mini USB cable

20 m push rod Ø 6 mm

1 anti-slide-mat

1 NiMH battery and charger

plastic case

→ Accessories on page 90

Part no. 6250 J

Wöhler VIS 250 Service Camera 30 m

for visual inspection of water pipes, flues and ventilation lines from 40 – 150 mm Ø

Scope of delivery:

Wöhler VIS 250 Service Camera

digital meter counter

Wöhler color camera head Ø 26 mm V2

SD memory card 2 GB for recording of pictures and videos

Wöhler TFT monitor 7" with 2 m cable (detachable)

mini USB cable

30 m push rod Ø 6 mm

1 anti-slide-mat

1 NiMH battery and charger

plastic case

→ Accessories on page 90

Part no. 6251 J

Wöhler VIS 250 Service Camera 30 m, with Wöhler L 200 Locator

for visual inspection of water pipes, flues and ventilation lines from 40 – 150 mm Ø

Scope of delivery:

Wöhler VIS 250 Service Camera

Wöhler L 200 Locator

digital meter counter

Wöhler color camera head V2

SD-memory card 2 GB for recording of pictures and videos

Wöhler TFT monitor 7" with 2 m cable (detachable)

mini USB-cable

30 m push rod Ø 6 mm







1 anti-slide-mat












1 NiMH battery and charger

plastic case

→ Accessories on page 90

Part no. 6225 J

VIS Guidance Sets, Glare Protection, Lighting		Part no.
	Wöhler VIS Guidance Set 70 for miniature camera head: guidance sleeve with protection cage, centering star for rod fixture	3883 I
	Wöhler VIS Centering Brush for Wöhler VIS 400 / 400 / 2xx / 3xx 20 cm Ø with 6 brushes, with thread, centers the GRP camera rod, to guide the camera head	3854 J
	Wöhler VIS Centering Brush Extension for Wöhler VIS 400 / 2xx / 3xx 20 cm Ø with inner and outer thread for endless extension	3853 J
	Wöhler VIS Centering Brush for Wöhler VIS 400 / VIS 2xx / VIS 3xx	3850 J
	Wöhler VIS Spare Brushes for Wöhler VIS 400 / 2xx / 3xx, for centering brush, 24 pieces	3858 J
	Wöhler VIS Stabilization Tube for Wöhler VIS 400 / 2xx / 3xx extension for centering star art. 3854	21736 J
	Guidance Sleeve for mini camera head	3827 J
	Guidance Sleeve with protection cage for mini camera head	3847 J
	Camera Roller Guide suitable for camera heads and rods	3681 J
	Wöhler additional glare protection for VIS 2xx / 3xx monitors	6814 J
	Wöhler Supplementary Light Ring for 51 mm pan&tilt camera head, for 40 mm pan&tilt head in combination with guidance weight (art. 3857), incl. battery pack with four AA batteries 1.5 V in cordura bag.	9377 J

Camera Guidance		Part no.
	<p>Wöhler Guidance Weight 740 g, stainless steel for VIS 2xx / VIS 3xx to let down the camera head (e.g. in a chimney). Necessary to use supplementary light (art. 9377).</p>	3857 J
	<p>Guidance Ball for flex part of camera push rod, improves ability to go through bends</p>	3634 J
	<p>Relining Adapter for Wöhler VIS 3xx</p>	6888 J
	<p>Relining adapter set consisting of: relining adapter, centering star and 3 x stabilization sleeve</p>	6889 J
Power Supply		Part no.
	<p>Wöhler VIS 2xx / VIS 3xx Quick Charger 1.5 A / 230 V / 50 Hz</p>	56102 J
	<p>VIS 3xx / VIS 2xx Power Supply 18V, 1,5A, 100-240V, 50 Hz, 2.1 mm female plug, center plus, charge time 3 hours for all countries</p>	3789 K
	<p>Wöhler Battery 12 V NiMh 2600 mAh VIS 2xx / VIS 3xx operation time: 120 min warranty: 12 months</p>	4715 J
	<p>Wöhler Car charger 18 V for VIS 2xx / VIS 3xx / VIS 400</p>	3169 J
Accessories / Further products		Part no.
	<p>Wöhler L 200 Locator (Receiver) NEW Wöhler L 200 Locator Receiver, plastic case, USB power supply with micro USB cable, chalk (12 pcs. box, yellow), telescopic rod and headphones</p>	7430 J
	<p>Wöhler VIS Cleaning Set NEW 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 200 ml lubricant, plastic case For approx. 50 applications.</p>	4725 I
	<p>Wöhler VIS Cleaning Set Refill NEW 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 200 ml lubricant, in plastic bag For approx. 50 applications.</p>	4726 O

UNIQUELY CLEAR VIEW **NEW**

Video inspection, position indicator, home function and locator with the Wöhler VIS 350

Video inspection in a case: With the new Wöhler 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.



VISUAL INSPECTION



HOME-FUNCTION

The Home button (Wöhler VIS 350) realigns the camera head to its initial position.



INTEGRATED LOCATOR TRANSMITTER

The camera head is equipped with a transmitter as standard – that means the camera head can easily be located by the new Wöhler L 200 Locator.



BRIGHT ILLUMINATION

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



WIDE RANGE OF APPLICATIONS

Analyze damage and inspect:

- Waste water lines of Ø 70 mm and larger
- House connections up to Ø 200 mm
- Flue gas systems of Ø 60 mm and larger
- Ventilation lines of ventilation systems
- False ceilings, hollow spaces, shafts

FUNCTIONALITY

- Optics pan 360° and tilt 180° – facilitate maximum movement radius and ensure even the smallest damage does not remain hidden from your view
- Store video footage and photos on a 2 GB SD card (Wöhler VIS 350)
- Camera head with integrated transmitter harmonizes location detection by the Wöhler 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, 60 mm in length and 40 mm in diameter, easily negotiates tight bends
- Electronic meter counter with a resolution of 0.04 m 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 (optional)
- Fully equipped mobile solution in a robust plastic case

LOCATOR (OPTIONAL)

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

DOCUMENTATION

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

TECHNICAL DATA

Monitor

Dimensions housing.....176 x 114 x 32 mm
 TFT-Display.....7" / 16:9 format
 Video-Out.....RCA signal
 Weight.....400 g

Power SupplySpace for 2 rechargeable batteries, each 12 V or via power pack
 Battery operating time.....Max. 2 rechargeable batteries, each 120 mins. = 4 h
 (battery status in display)

Pan&tilt Ø 40 mm color camera head

Type1/3" COLOR CMOS
 Pixels.....768 x 576 (PAL), 656 x 492 (NTSC)
 Light sensitivity0.5 Lux
 Lensf = 2.3 mm, F = 2.5
 Viewing angle115°
 Light source12 white LEDs
 Degree of protectionWaterproof to IP 67
 DimensionsØ 40 mm x 60 mm
 Operating temperature.....0...40 °C, RH 95 % MAX
 Storage temperature.....-20...50 °C, RH 95 % MAX

Push rod

Length20 mm
 Diameter6.5 mm

Plastic case

Dimensions51 x 43 x 17 cm (L x W x H)
 Weight8.2 kg

Distance Measurement

Wöhler VIS 350/VIS 300Electronic meter counter

Memory (Wöhler VIS 350)

Recording2 GB SD card (2.5 h recording capacity)
 InterfaceMini USB port

Locator transmitter

Transmission frequency8.9 kHz

Locator receiver

Display.....Graphic visualization of transmitted position
 Output impedance
 Headphones32 Ohm
 Power supply.....3.7 V Li-Ion rechargeable battery
 Operating temperature.....0...40 °C
 Storage temperature.....-10 °C...40 °C
 Weight605 g
 Dimensions32 x 14 x 7 cm (L x W x H)

*Excepted from this: Opening of the housing, inappropriate handling: For further information please see our guarantee guidelines

PRODUCT FEATURES

	Chimneys, vents and waste water pipes	
Wöhler VIS	300	350
Features		
Pan and tilt color camera head Ø 40 mm	●	●
Digital distance measurement	●	●
Photo& video record		●
Menu		●
Video settings		●
Transmitter / Probe	●	●
Level indicator		●
Home-function		●

Wöhler VIS 300 Service Camera **NEW**



The color camera head Ø 40 mm can be located with the Wöhler L 200 Locator– more information see page 109

Wöhler VIS 300 Service Camera 20 m

for visual inspection of water pipes, flues, chimneys and ventilation lines from 60 – 200 mm Ø

Scope of delivery:

Wöhler VIS 300 Service Camera

digital distance measurement

pan and tilt color camera head 40 mm Ø V2

Wöhler TFT-monitor 7" with 2 m cable (detachable)

20 m push rod 6,5 mm Ø

5 replacement plastic domes

1 anti-slide-mat

1 NiMH-battery and charger

plastic case

→ Accessories on page 96

Part no. 7300 J

Wöhler VIS 300 Service Camera 30 m

for visual inspection of water pipes, flues, chimneys and ventilation lines from 60 – 200 mm Ø

Scope of delivery:

Wöhler VIS 300 Service Camera

digital distance measurement

pan and tilt color camera head 40 mm Ø V2

Wöhler TFT-monitor 7" with 2 m cable (detachable)

30 m push rod 6.5 mm Ø

5 replacement plastic domes

1 anti-slide-mat

1 NiMH-battery and charger

plastic case

→ Accessories on page 96

Part no. 6226 J

Wöhler VIS 300 Service Camera 30 m, with Wöhler L 200 Locator

for visual inspection of water pipes, flues, chimneys and ventilation lines from 60 – 200 mm Ø

Scope of delivery:

Wöhler VIS 300 Service Camera

Wöhler L 200 Locator

digital distance measurement

pan and tilt color camera head 40 mm Ø V2

Wöhler TFT-monitor 7" with 2 m cable (detachable)

30 m push rod 6.5 mm Ø

5 replacement plastic domes

1 anti-slide-mat

1 NiMH-battery and charger

plastic case

→ Accessories on page 96

Part no. 6227 J

Wöhler VIS 350 Service Camera **NEW**



- Ø 40 mm**
PAN&TILT
COLOR CAMERA HEAD
- 54°**
POSITION &
ANGLE DISPLAY
- INTEGRATED LOCATOR**
TRANSMITTER
- VIDEO**
FUNCTION
- PHOTO**
FUNCTION
- POWERFUL**
RECHARGEABLE BATTERY
UP TO 4h MOBILITY



!
The color camera head Ø 40 mm can be located with the Wöhler L 200 Locator – more information see page 109

Wöhler VIS 350 Service Camera 30 m, fixed camera head

for visual inspection of water pipes, flues, chimneys and ventilation lines from 60 – 200 mm Ø

- Scope of delivery:
- Wöhler VIS 350 Service Camera

 - digital meter counter

 - pan and tilt color camera head Ø 40 mm V2

 - Wöhler TFT monitor 7" with 2 m cable (detachable)

 - SD memory card 2 GB SD for recording of pictures and videos

 - mini USB cable

 - 30 m push rod 6.5 mm

 - 5 replacement plastic domes

 - 1 anti-slide-mat

 - 2 NiMH batteries and charger

 - plastic case

➔ Accessories on page 00

Part no. 7351 J

Wöhler VIS 350 Service Camera 30 m, detachable camera head

for visual inspection of water pipes, flues, chimneys and ventilation lines from 60 – 200 mm Ø

- Scope of delivery:
- Wöhler VIS 350 Service Camera

 - digital meter counter

 - pan and tilt color camera head Ø 40 mm V2 (detachable)

 - Wöhler TFT monitor 7" with 2 m cable (detachable)

 - SD memory card 2 GB for recording of pictures and videos

 - mini USB cable

 - 30 m push rod 6.5 mm

 - 5 replacement plastic domes

 - 1 anti-slide-mat

 - 2 NiMH batteries and charger

 - plastic case

➔ Accessories on page 96

Part no. 6351 J

Wöhler VIS 350 Service Camera 30 m, fixed camera head with Wöhler L 200 Locator

for visual inspection of water pipes, flues, chimneys and ventilation lines from 60 – 200 mm Ø

- Scope of delivery:
- Wöhler VIS 350 Service Camera

 - Wöhler L 200 Locator

 - digital meter counter

 - pan and tilt color camera head Ø 40 mm V2

 - Wöhler TFT monitor 7" with 2 m cable (detachable)

 - SD memory card 2 GB for recording of pictures and videos

 - mini USB cable

 - 30 m push rod 6.5 mm

 - 5 replacement plastic domes

 - 1 anti-slide-mat

 - 2 NiMH batteries and charger

 - plastic case

➔ Accessories on page 96

Part no. 7361 J

Wöhler VIS 350 Service Camera 30 m, detachable camera head with Wöhler L 200 Locator

for visual inspection of water pipes, flues and ventilation lines from 60 – 200 mm Ø

- Scope of delivery:
- Wöhler VIS 350 Service Camera

 - Wöhler L 200 Locator

 - digital meter counter

 - pan and tilt color camera head Ø 40 mm V2 (detachable)

 - Wöhler TFT monitor 7" with 2 m cable (detachable)

 - SD memory card 2 GB for recording of pictures and videos

 - mini USB cable

 - 30 m push rod 6.5 mm

 - 5 replacement plastic domes











 - 1 anti-slide-mat









 - 2 NiMH batteries and charger




 - plastic case

➔ Accessories on page 96

Part no. 6354 J

VIS Guidance Sets		Part no.
	Wöhler Guidance Set 100 for VIS 3xx pan and tilt camera head 40 mm Ø protection sleeve with cut-out, roller guide and centering star	4240 J
	Camera Roller Guide suitable for camera heads and rods	3681 J
	Wöhler VIS Centering Brush for Wöhler VIS 400 / VIS 2xx / VIS 3xx	3850 J
	Wöhler VIS Centering Brush for Wöhler VIS 400 / 2xx / 3xx 20 cm Ø with 6 brushes, with thread, centers the GRP camera rod, to guide the camera head	3854 J
	Wöhler VIS Centering Brush Extension for Wöhler VIS 400 / 2xx / 3xx 20 cm Ø with inner and outer thread for endless extension Suitable only for detachable versions of the Wöhler VIS 3xx.	3853 J
	Wöhler VIS Spare Brushes for Wöhler VIS 400 / 2xx / 3xx, for centering brush, 24 pieces	3858 J
	Wöhler VIS Stabilization Tube for Wöhler VIS 400 / 2xx / 3xx extension for centering star art. 3854	21736 J
	Wöhler guidance weight 740 g, stainless steel for VIS 2xx / VIS 3xx to let down the camera head (e.g. in a chimney). Necessary to use supplementary light (art. 9377).	3857 J
	Wöhler Supplementary Light Ring - for 51 mm pan&tilt head - for 40 mm pan&tilt head in combination with guidance weight (art. 3857) incl. battery pack with four AA batteries 1.5 V in cordura bag.	9377 J
	Guidance Ball for flex part of camera push rod, improves ability to go through bends	3634 J
Power Supply		Part no.
	Wöhler VIS 2xx / VIS 3xx Quick Charger 1.5 A / 230 V / 50 H	56102 J
	VIS 3xx / VIS 2xx Power Supply 18V, 1.5A, 100-240V, 50 Hz, 2.1 mm female plug, center plus, charge time 3 hours for all countries	3789 K
	Wöhler Battery 12 V NiMh 2600 mAh VIS 2xx / VIS 3xx operation time: 120 min warranty: 12 months	4715 J
	Wöhler Car charger 18 V for VIS 2xx / VIS 3xx / VIS 400	3169 J

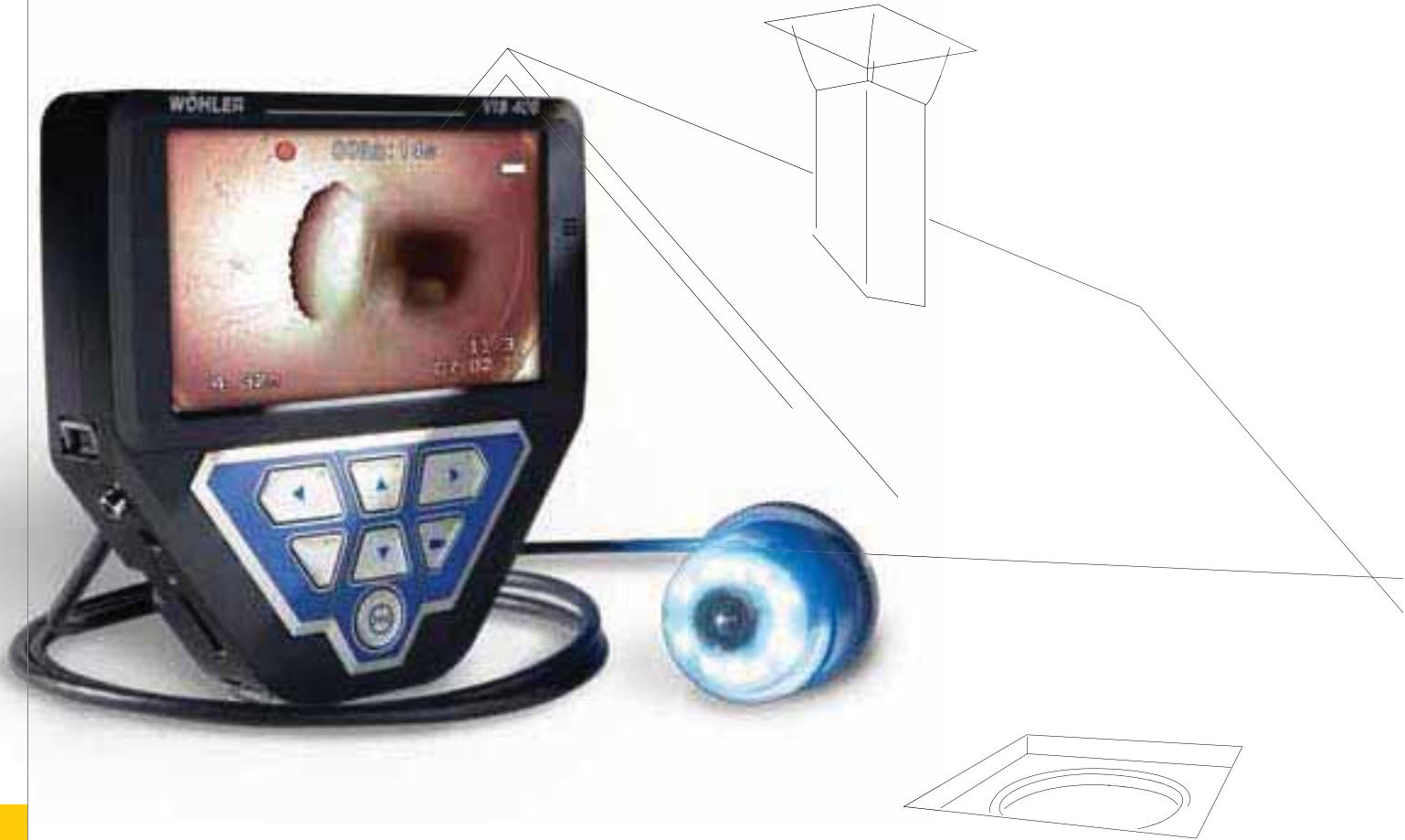
Accessories		Part no.
	Relining Adapter for VIS 3xx	6888 J
	Re-lining adapter set consisting of: re-lining adapter, centering star and 3 x stabilization sleeve	6889 J
	Protection Sleeve for Wöhler VIS 3xx with cut-out	2641 J
	Protection Sleeve for VIS 3xx	3682 J
	Glass Dome for Wöhler VIS 3xx	3674 J
	Replacement Plastic Domes (10 pcs.) for Wöhler VIS 3xx	3675 J
	Anti slide mat	3252 J
	Wöhler additional glare protection for VIS 2xx / 3xx monitors	6814 J

Accessories / Further products		Part no.
	Wöhler VIS Cleaning Set NEW 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 200 ml lubricant, plastic case For approx. 50 applications.	4725 I
	Wöhler VIS Cleaning Set Refill NEW 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 200 ml lubricant, in plastic bag For approx. 50 applications.	4726 O
	Wöhler L 200 Locator (Receiver) NEW Wöhler L 200 Locator Receiver, plastic case, USB power supply with micro USB cable, chalk (12 pcs. box, yellow), telescopic rod and headphones	7430 J

MODULAR POINT OF VIEW **NEW**

Wöhler VIS 400 Professional Video Inspection System

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



VISUAL INSPECTION



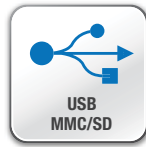
MONITOR SUN PROTECTION
ensures optimum viewing even in the glare of the sun



PROFESSIONNELLY EQUIPPED WITH CAMERA VIPER
for inspecting underground pipelines



NO UNNECESSARY BALLAST ON THE ROOF
helps you keep your balance in the most difficult of conditions



WIDE RANGE OF APPLICATIONS

Analyze damage and visually inspect:

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

PRODUCT BENEFITS

- Modular system – components are modular by design to support extensive expansion options
- Pan & Tilt color camera heads with integrated power lighting easily negotiate bends in the line
- Digital meter counter with a resolution of 0.04 m, displayed on the monitor (with Wöhler camera viper or cable reel)
- Mini USB port for data transmissions

DOCUMENTATION

Integrated video output – simply record and store photos, videos and voice annotations on a 2 GB SD card (Wöhler VIS 250) for documentation and archiving purposes for you and your customers.

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	2 GB SD card (2.5 h recording capacity)
Interface	Mini USB port
Operating temperature	0 - 40 °C
Storage temperature	-20 - 50 °C
Dimensions housing without pouch	199 x 196 x 40 mm
Dimensions housing with pouch	210 x 210 x 60 mm
Weight	Without pouch 1200 g; with pouch 1700 g
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:



CABLE REEL



VIPER



Ø 51 mm color camera head, pan- & tiltable



Ø 40 mm color camera head, pan- & tiltable



Ø 26 mm color camera head for smaller pipe diameters

CAMERA HEADS

Wöhler VIS 400 Video Inspection System – Chimney **NEW**



APPLICATION

- Chimney inspection
- Inspection of vents and flues

ADVANTAGES

- Compact - no unnecessary ballast on the roof
- Additional LEDs
- Modular system
- Light weight – 1.200 g only
- Incl. carrying belt and protection bag

Wöhler VIS 400 Video Inspection System Standard Set Chimney

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with
2 GB SD card and power supply

protection bag with glare protector and shoulder
belt

pan & tilt camera head Ø 51 mm

camera cable 20 m

power supply

plastic case

→ Accessories on page 104

Part no. 4100 J

Wöhler VIS 400 Video Inspection System – Chimney **NEW**



Order no. 4180



Order no. 4170

Wöhler VIS 400 Video Inspection System Advanced Set Chimney

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with
2 GB SD card and power supply

Protection bag with glare protector and shoulder
belt

Pan & tilt camera head Ø 51 mm

Cable reel with 20 m camera cable

Plastic case

XXL alu case

➔ Accessories on page 104

Part no. 4180 J

Wöhler VIS 400 Video Inspection System Professional Set Chimney

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with
2 GB SD card and power supply

protection bag with glare protector and shoulder
belt

pan & tilt camera head Ø 51 mm

Viper cage with 20 m camera push rod 7 mm

camera roller guide

stabilization sleeve with star holder

plastic case

XXL alu case

➔ Accessories on page 104

Part no. 4170 J

Wöhler VIS 400 Video Inspection System – Waste Water Pipes **NEW**



order no. 4090

APPLICATION

- Inspection of waste water pipes
- Inspection of vents and flues

ADVANTAGES

- Push rod for for guidance in pipes
- Adjustable LED brightness
- Modular system
- Incl. carrying belt and protection bag



order no. 4190



Wöhler VIS 400 Video Inspection System Advanced Set Waste Water Ø 40 mm

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with
2 GB SD card and power supply

protection bag with glare protector and
shoulder belt

mini camera head 26 mm

camera head protection cage

viper with 20 m camera push rod 6 mm

plastic case

XXL alu case

➔ Accessories on page 104

Part no. 4090 J

Wöhler VIS 400 Video Inspection System Advanced Set Waste Water Ø 70 mm

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with
2 GB SD card and power supply

protection bag with glare protector and shoulder
belt

pan & tilt camera head Ø 40 mm

10 replacement plastic domes

roller guide

camera head protection cage

viper with 30 m camera push rod 6.5 mm

plastic case

XXL alu case

➔ Accessories on page 104

Part no. 4190 J

Wöhler VIS 400 Video Inspection System – Cavities **NEW**



order no. 6228



order no. 6229

Wöhler VIS 400 Video Inspection System with miniature color camera head Ø 26 mm V2

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with 2 GB SD card and power supply

miniature color camera head Ø 26 mm V2

gooseneck with telescope 0.9 - 1.6 m

plastic case

→ Accessories on page 104

Part no. 6228 J

Wöhler VIS 400 Video Inspection System with pan & tilt color camera head Ø 40 mm V2

Scope of delivery:

Wöhler VIS 400 color TFT monitor 7" with 2 GB SD card and power supply

pan & tilt color camera head Ø 40 mm V2

gooseneck with telescope 0.9 - 3.4 m

plastic case

→ Accessories on page 104














Part no. 6229 J













APPLICATION













- Inspection of cavities or machines















ADVANTAGES










- Incl. telescope with flex and stay
- gooseneck up to 3.4 m

Monitor		Part no.
	Wöhler VIS 400 Color Monitor Scope of delivery: Wöhler VIS 400 color monitor, protective bag with glare shield and shoulder belt, mini USB cable, 2 GB SD-Card, power supply, plastic case	4105 J
Camera Heads		Part no.
	Pan and tilt color camera head 40 mm Ø V2, PAL, detachable with leather protection bag, flexible connection to camera rod	8930 J
	Miniature color camera head Ø 26 mm V2, PAL, detachable, flexible connection to the camera rod, with leather protection case	8920 J
	Wöhler VIS 400 Camera Head b/w 51 mm Ø, pan & tilt, with leather case	7801 J
	Wöhler VIS 400 Camera Head Color 51 mm Ø, pan & tilt, with leather case	7806 J
Domes for Camera Head Ø 51 mm		Part no.
	Wöhler Replacement Glass Dome for pan & tilt camera heads Wöhler VIS 400 color and b/w	7802 K
	Replacement Glass Domes with protection sleeve for Wöhler Camera Head VIS 400	3494 K
	Plastic domes pack of 5 pieces, for Wöhler Camera Head VIS 400	7075 K
Protection Sleeves & Domes for Camera Head Ø 40 mm		Part no.
	Protection Sleeve for Wöhler VIS 3xx with cut-out	2641 J
	Protection Sleeve for VIS 3xx	3682 J
	Glass Dome for Wöhler VIS 3xx	3674 J
	Replacement Plastic Domes (10 pcs.) for Wöhler VIS 3xx	3675 J
Cable Reel		Part no.
	Wöhler VIS 400 Cable Reel with integrated distance measurement with 0.05 m resolution (shown on monitor display), with shoulder strap and connection cable to monitor, without camera cable	7816 J
	Wöhler VIS 400 Camera Cable with metric marking	
	10 m, extension cable	8636 J
	20 m	9172 J
	30 m	7812 J
	50 m, without metric marking	7845 J

Camera Rods		Part no.
	Wöhler GRP Camera Rod (2 x Wöhler 8-pin plugs)	
	black, flexible, Ø 6 mm, 5 m length	7821 J
	black, flexible, Ø 6 mm, 20 m length	7818 X
	black, flexible, Ø 6 mm, 30 m length	7819 X
	blue, medium, Ø 6.5 mm, 5 m length	7343 J
	blue, medium, Ø 6.5 mm, 20 m length	7342 X
	blue, medium, Ø 6.5 mm, 30 m length	7341 X
	red, rugged, 7 mm Ø, 5 m length	7305 J
	red, rugged, 7 mm Ø, 20 m length	7829 X
	red, rugged, 7 mm Ø, 30 m length	7306 X
	Wöhler Special Cable 0.8 m	9181 J
	for connecting single GRP camera rods to the monitor	
Telescope		Part no.
	Wöhler Telescopic Tube	7005 O
	with flexible gooseneck for pan and tilt color camera heads Ø 40 mm and miniature color camera head Ø 26 mm length of the telescopic tube 0.9 ... 1.6 m plus gooseneck 0.3 m. The flex and stay gooseneck remains in a bent position allowing for easy inspection	
	Wöhler Telescopic Tube	7024 J
	with flexible gooseneck for pan and tilt color camera heads Ø 40 mm and miniature color camera head Ø 26 mm length of the telescopic tube 0.9 ... 3.40 m plus gooseneck 0.3 m. The flex and stay gooseneck remains in a bent position allowing for easy inspection	
Camera Vipers		Part no.
	Wöhler Camera Viper 42	
	with GRP camera rod, integrated digital meter counter, retractable viper stand, connection cable to monitor - used with Wöhler VIS 400 pan and tilt camera heads	
	red, Ø 7 mm, 30 m length	7307 J
	red, Ø 7 mm, 20 m length	7309 J
	Wöhler Camera Viper 42	7301 J
	with GRP-Camera rod blue, Ø 6.5 mm, 30 m length, integrated digital meter counter, retractable viper stand, connection cable to monitor - used with Wöhler VIS 400 pan and tilt camera heads	
	Wöhler Camera Viper 36	7302 J
	with GRP-Camera rod blue, Ø 6.5 mm, 20 m length, integrated digital meter counter, retractable viper stand connection cable to monitor - used with miniature camera heads	
	Wöhler Camera Viper 36	7308 J
	with GRP- Camera rod black, Ø 6 mm, 20 m length, integrated digital meter counter, retractable viper stand, connection cable to monitor - used with miniature camera heads	
	Wöhler Camera Viper 36	7336 J
	with GRP- Camera rod black, Ø 6 mm, 30 m length, integrated digital meter counter, retractable viper stand, connection cable to monitor - used with miniature camera heads	
	Wöhler Camera Rod Reel 42	7822 X
	for GRP- camera rods Ø 7 mm up to 30 m length (comes without camera rod) with integrated distance measurement, retractable viper stand, connection cable to monitor	
	Wöhler Camera Rod Reel 36	3822 X
	for GRP- camera rods Ø 6 mm up to 20 m length (comes without camera rod) with integrated distance measurement, retractable viper stand, connection cable to monitor	

Localization		Part no.
	Wöhler L 200 Locator (Receiver) NEW Wöhler L 200 Locator Receiver, plastic case, USB power supply with micro USB cable, chalk (12 pcs. box, yellow), telescopic rod and headphones	7430 J
Guidance Sets for Wöhler Camera Head Ø 51 mm		Part no.
	Wöhler VIS Guidance Set 150 for pan and tilt camera head Ø 51 mm guidance for pan and tilt camera head with protection cage, extension part, centering star and centering star for rod fixture	3882 J
	Wöhler VIS Guidance Set 110 for pan and tilt camera head Ø 51 mm camera roller cage with protection cage and stabilization sleeve with star holder	3881 J
	Wöhler Camera Spring Guide for pan & tilt camera head Ø 51 mm for centering of the camera head in vertical vents. A stainless steel spring prevents a rotating and oscillating of the camera head. The spring is adjustable on the tubing size up to 35 cm.	8633 J
	Camera holder for pan & tilt camera head Ø 51 mm	3720 J
	Wöhler Camera trolley VIS for pan & tilt camera head Ø 51 mm with M10 and M5 connection for pushing, size: 160 x 125 x 120 mm	9548 J
	Wöhler VIS Maxi Adaptor for camera trolley for the inspection of larger ventilation ducts (from about 300 mm)	9549 J
Guidance Sets for pan & tilt Wöhler Camera Head Ø 40 mm		Part no.
	Relining Adapter for VIS 3xx	6888 J
	Re-lining adapter set re-lining adapter, centering star and 3 x stabilisation sleeve	6889 J
	Wöhler Guidance Set 100 for VIS 3xx pan and tilt camera head Ø 40 mm protection sleeve with cut-out, roller guide and centering star	4240 J
Guidance Sets for pan & tilt Wöhler Camera Head Ø 26 mm		Part no.
	Re-lining adapter set re-lining adapter, centering star and 3 x stabilisation sleeve	6889 J
	Wöhler VIS Guidance Set 70 for miniature camera head guidance sleeve with protection, cage, centering star for rod fixture	3883 I

Components for Wöhler Camera Head Ø 51 mm		Part no.
	Wöhler Camera Protection with brushes for Ø 51 mm pan & tilt camera head with protection cage and 20 cm Ø brushes for centering	3855 J
	Camera roller guide with protection cage for VIS 400	7826 J
	Stabilizing sleeve for VIS camera on GRP rod Ø 6 and 7 mm	3590 J
	Wöhler Stabilization Sleeve with M10 thread for Wöhler VIS 400 pan and tilt camera heads for use with camera cable: head can be pushed upwards with GRP rods	3591 J
Components for Wöhler Miniature Camera Head Ø 26 mm		Part no.
	Guidance Sleeve for mini camera head	3827 J
	Guidance Sleeve with protection cage for mini camera head	3847 J
Components for Wöhler Camera Heads Ø 40 mm and Ø 26 mm		Part no.
	Wöhler VIS Centering Brush for Wöhler VIS 400 / VIS 2xx / VIS 3xx	3850 J
	Wöhler guidance weight 740 g, stainless steel for VIS 2xx / VIS 3xx to let down the camera head (e.g. in a chimney). Necessary to use supplementary light (art. 9377).	3857 J
	Camera Roller Guide suitable for camera heads and rods	3681 J
	Wöhler Supplementary Light Ring for 51 mm pan & tilt camera head for 40 mm pan & tilt head in combination with guidance weight (art. 3857) incl. battery pack with four AA batteries 1.5 V in cordura bag.	9377 J
Components for all Wöhler Camera Heads		Part no.
	Wöhler VIS Spare Brushes for Wöhler VIS 400 / 2xx / 3xx, for centering brush, 24 pieces	3858 J
	Wöhler VIS Centering Brush for Wöhler 400 / 2xx / 3xx 20 cm Ø with 6 brushes, with thread, centers the GRP camera rod, to guide the camerad head	3854 J
	Wöhler VIS Centering Brush Extension for Wöhler VIS 400 / 2xx / 3xx 20 cm Ø with inner and outer thread for endless extension	3853 J
	Wöhler VIS Stabilisation Tube for Wöhler VIS 400 / 2xx / 3xx extension for centering star art. 3854	21736 J
	Guidance Ball for flex part of camera push rod, improves ability to go through bends	3634 J

Accessories	Part no.	
	Telescopic dolly, stainless steel extendable from 22 - 40 cm	5706 I
	Aluminium Case XXL 48 x 27 x 48 cm	5824 J
	Camera Backpack	5560 J
	Plastic Case VIS 400	4131 J
	VIS 3xx / VIS 2xx Power Supply 18V, 1,5A, 100-240V, 50 Hz, 2.1 mm female plug, center plus, charge time 3 hours for all countries	3789 K
	Wöhler Car charger 18 V for VIS 2xx / VIS 3xx / VIS 400	3169 J
	Chalk, yellow package with 12 pcs.	1774 X
	Wöhler VIS Cleaning Set NEW 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 200 ml lubricant, plastic case For approx. 50 applications.	4725 I
	Wöhler VIS Cleaning Set Refill NEW 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 200 ml lubricant, in plastic bag For approx. 50 applications.	4726 O

Wöhler L 200 Locator



TECHNICAL DATA

Locator Receiver

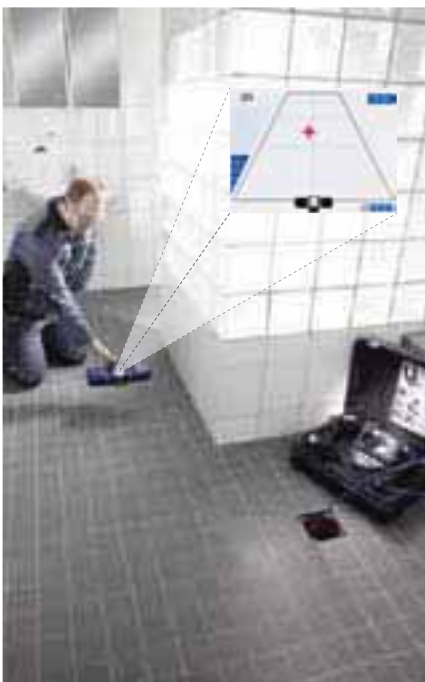
Display	Graphic visualisation of the position of the camera head
Output impedance	
Headphones	Typ. 32 ohm
Power Supply	3,7 V Li-Ion Battery
Operating Temperature	0...40 °C
Storage Temperature	-10 °C...+40 °C
Weight	605 g
Size	31 x 14 x 7 cm (L x B x H)

APPLICATION

The Wöhler L 200 Locator makes it possible to locate the Wöhler VIS Camera heads VIS 200/250/300/350 wirelessly. Damaged or soiled sections of pipework are displayed precisely in a graphic on the display.

ADVANTAGES

- Locates radio signals transmitted by the camera head – rapidly pinpoints damage
- Easy to handle – user guided via display throughout the locating process
- Bright, easy-to-read color display
- Telescopic pole – easily track down damage anywhere
- Chalk holder – for chalk to mark the position where damage is found



Wöhler L 200 Locator (Receiver)

Scope of delivery:

Wöhler L 200 Locator Receiver

USB power supply with micro USB cable

Chalk (12 pcs. box, yellow)

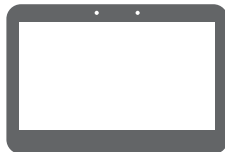
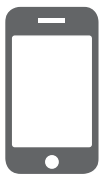
telescopic rod

headphones

plastic case

Part no. 7430 J

Wöhler VE 200 Video-Endoscope



TECHNICAL DATA

Signal transmission

WLAN	
Network Standard	IEEE 802.11 b/g/n
Antenna	Integrated IPEX Antenna
Frequency	2.4 GHz
Data transmission rate	
wireless card with	
802.11 a/b/g/n	up to 150 Mbit/s

Recording

Camera Head	Ø 8.5 mm
Image Resolution	2.0 Megapixels
Focus	60 mm to 100 mm
Video Resolution	800x600 Pixel
	1024x768 Pixel
	1280x720 Pixel
Angle of view	60°
Probe length	1.2 m

File formats

Image format	jpg
Video format	avi

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

APPLICATION

- For inspection of inaccessible cavities from 20 mm in diameter (for example: roof insulation, exhaust pipes, sinks, fireplaces)
- Transmission of image and video data via wireless (WiFi) on laptop, tablet PC or Smartphone

ADVANTAGES

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

Wöhler VE 200 Video Endoscope

Scope of delivery:

Wöhler VE 200 Video Endoscope with 1.2 m probe

miniature camera head

4x AA batteries

plastic case

(The VE 200 is not compatible with Windows Phone)

Part no. 7792 I



Wöhler 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 15 to 100 cm

Wöhler Glass Mirror small with telescopic handle

Scope of delivery:

Wöhler Glass Mirror small up to 1 m extendable

Ball joint (pan and tilt)

Mirror plate 2.6 x 7 cm

aluminium edge protector

leather cover

Part no. 8064 0

Wöhler Glass Mirror medium with telescopic handle

Scope of delivery:

Wöhler Glass Mirror medium up to 1 m extendable

Ball joint (pan and tilt)

Mirror plate 5 x 8 cm

aluminium edge protector

leather cover

Part no. 8059 0

Wöhler Glass Hand Mirror 5 x 8 cm

Scope of delivery:

Wöhler Glass Hand Mirror 5 x 8 cm

leather cover

Part no. 5064 0

Wöhler Glass Mirror large with telescopic handle

Scope of delivery:

Wöhler Glass Mirror large up to 1 m extendable

Ball joint (pan and tilt)

Mirror plate 8 x 15 cm

aluminium edge protector

leather cover

Part no. 8087 0

Wöhler Metal Chimney Mirror



APPLICATION

- Inspection of objects hard to reach
- Inspection of chimneys

ADVANTAGES

- Chromed and polished
- Tilttable handle

Wöhler Chimney Mirror Small

Scope of delivery:

Wöhler chimney mirror

metal mirror plate 7 x 10 cm

leather sleeve

Part no. 1015 0

Wöhler Telescopic Chimney Mirror Small with telescoping handle

Scope of delivery:

Wöhler chimney mirror

metal mirror plate 7 x 10 cm

telescopic handle 54 cm

leather sleeve

Part no. 1748 0



TABLE OF CONTENTS

SWEEP INSTRUMENTS

114 | PRODUCT OVERVIEW

116 | WÖHLER VIPERS

- 116 | Wöhler Viper XL / XXL
- 117 | Wöhler Viper L
- 118 | Wöhler Handy Viper M
- 119 | Wöhler H 420 Viper M
- 120 | Accessories Wöhler Vipers - Wöhler Stars
- 121 | Accessories Wöhler Vipers - Wöhler Threaded Brushes
- 122 | Wöhler Mini Viper S
- 123 | Wöhler Rotary Viper Heavy-Duty
- 131 | Wöhler DH 420 Pneumatic Viper
- 132 | Wöhler Rotary Viper Vent

124 | BOILER CLEANING

- 124 | Powered Boiler Cleaning Brush
- 125 | Accessories Powered Boiler Cleaning Brush – Wöhler Boiler Brushes

126 | SWEEPING TOOL KITS

- 126 | Wöhler Sweeping Tool Kit Carrier
- 126 | Wöhler Sweeping Tool Kit Back Pack

128 | CLEANING OF VENTILATION SYSTEMS

- 128 | SF 300 Dust Collector
- 129 | Accessories – SF 300 Dust Collector

130 | COMPRESSED AIR CLEANING

- 130 | Wöhler Compressed Air Cleaning Standard Set
- 130 | Wöhler Compressed Air Cleaning Professional Set
- 133 | Wöhler H 420 Viper M

PRODUCT OVERVIEW

SWEEP INSTRUMENTS



Wöhler Viper XL/XXL

page 116



Wöhler Viper L

page 116

APPLICATIONS		
Chimneys (sizes in cm):	14...20	•
	20...40	•
	40 and bigger	•
Flue Gas lines (sizes in mm):	40...150	
	150...250	•
	250 and bigger	•
Air duct (sizes in mm):	75...150	
	150...250	•
	250...400	•
	400 and bigger	•
FEATURES & BENEFITS		
Horizontal and vertical cleaning	•	•
Sweeping top down		•
Stainless steel approved	•	•
Portable	•	•
Lock/brake	•	•
CW/CCW rotation		
Extendable	•	•
TECHNICAL DATA		
Length / diameter	50 or 100 m / GRP-Rod 11 mm Ø	15 or 20 m / GRP-Rod 9 mm Ø
Size / weight	80 or 100 cm Ø / 21.6 - 34.2 kg	59 cm Ø / 4.3 - 5.3 kg
Thread	M10 thread	M10 thread



Wöhler H 420 Viper M

page 119



Wöhler Mini Viper S

page 122



**Wöhler Rotary Viper
heavy-duty**

page 123



**Wöhler Rotary Viper
vent**

page 132



**Wöhler DH 420
Pneumatic Viper**

page 131

**MEASURING INSTRUMENTS
FLUE GAS ANALYSIS**

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**MEASURING INSTRUMENTS
LEAKAGE AND PRESSURE**

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**MEASURING INSTRUMENTS
IAQ/BUILDING**

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15 or 20 m / GRP-Rod 7 mm Ø	15 m / GRP-Rod 4.5 mm Ø	7 or 10 m / 20 mm Ø	5 or 10 m / 15 mm Ø	10 m / 10 mm
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42 cm Ø / 1.8 kg	28 cm Ø / 720 g	5.62 / 7.66 kg	1.44 kg / 1.88 kg	42 cm Ø / 2.5 kg
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M10 thread	M5 thread	M10 thread	M10 thread	compressed air supply
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MEASURING INSTRUMENTS
FLUE GAS ANALYSIS

MEASURING INSTRUMENTS
LEAKAGE AND PRESSURE

MEASURING INSTRUMENTS
IAQ/BUILDING

VISUAL INSPECTION

SWEEP INSTRUMENTS

Wöhler Viper XL / XXL



TECHNICAL DATA

Wöhler Viper XL

Cage diameter.....	80 cm
Width.....	50 cm
Height.....	93 cm
Weight.....	21.6 kg

Wöhler Viper XXL

Cage diameter.....	100 cm
Width.....	50 cm
Height.....	116 cm
Weight.....	34.2 kg

APPLICATION

- For sweeping large chimneys, ventilation systems or pipes

ADVANTAGES

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

Wöhler Viper XL

Scope of delivery:

Viper cage 80 cm and wheels

GRP Rod 11 mm Ø with stainless steel end pieces M10, 50 m long

GRP-starholder 28 mm Ø (without stars)

Part no. 3332 I

Wöhler Viper XXL

Scope of delivery:

Viper cage 100 cm and wheels

GRP Rod 11 mm Ø with stainless steel end pieces M10, 100 m long

GRP-starholder 28 mm Ø (without stars)

Part no. 3337 X

ACCESSORIES

Part no.



GRP Rod Repair Kit

with stainless steel end piece, screws and allen wrench 11 mm Ø

3691 K



Stars Set Stainless Steel Flat Wire

3 Stars, flat wire, 20 cm Ø soft
6 Stars, flat wire, 25 cm Ø medium hard
6 Stars, flat wire, 30 cm Ø medium hard

3709 O



Threaded Brush Set Perlon

20 - 35 cm Ø, M10 thread
1 x Ø 20 cm, 2 layers 1.2 mm,
1 x Ø 25 cm, 2 layers 1.2 mm,
1 x Ø 30 cm, 2 layers 1.2 mm,
1 x Ø 35 cm, 3 layers 2 mm

5529 G

Wöhler Viper L



TECHNICAL DATA

Cage diameter.....	59 cm
Height.....	61 cm
Weight.....	4.3 – 5.3 kg
Brake.....	adjustable, additional lock for transportation

APPLICATION

For sweeping chimneys, ventilation systems or pipes

ADVANTAGES

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

Wöhler Viper L 15 m

Scope of delivery:

GRP Rod 9 mm Ø, 15 m long, with two stainless steel end pieces M10

GRP-starholder 28 mm Ø

protection tube 80 cm long (without stars)

Part no. 9412 I

Wöhler Viper L 20 m

Scope of delivery:

GRP Rod 9 mm Ø, 20 m long, with two stainless steel end pieces M10

GRP-starholder 28 mm Ø

protection tube 80 cm long (without stars)

Part no. 9413 I

ACCESSORIES

Part no.



GRP Rod Repair Kit

with stainless steel end piece, screws and allen wrench 9 mm Ø

3690 K



GRP Rod

PA-coat with length marking

9 mm Ø, 15 m long, with 2 stainless steel end pieces M10 internal thread

9015 I

GRP Rod

PA-coat with length marking

9 mm Ø, 20 m long, with 2 stainless steel end pieces M10 internal thread

9020 I



Stars Set Stainless Steel Flat Wire

3 Stars, flat wire, 20 cm Ø soft
6 Stars, flat wire, 25 cm Ø medium hard
6 Stars, flat wire, 30 cm Ø medium hard

3709 O



Threaded Brush Set Perlon

20 - 35 cm Ø, M10 thread

1 x Ø 20 cm, 2 layers 1.2 mm,

1 x Ø 25 cm, 2 layers 1.2 mm,

1 x Ø 30 cm, 2 layers 1.2 mm,

1 x Ø 35 cm, 3 layers 2 mm

5529 G

Wöhler Handy Viper M



TECHNICAL DATA

Cage diameter.....	42 cm
Width.....	11 cm
Weight.....	2.1 kg
	incl. 15 m GRP rod
Freewheel brake.....	precisely adjustable

APPLICATION

Perfect tool for cleaning flue gas systems, chimneys of up to 250 mm Ø as well as ducts and pipework

ADVANTAGES

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

Wöhler Handy Viper M 15 m

Scope of delivery:

Wöhler Handy Viper M

GRP Rod 7 mm Ø, 15 m long

(without stars)

Part no. 7649 I

Wöhler Handy Viper M 20 m

Scope of delivery:

Wöhler Handy Viper M

GRP Rod 7 mm Ø, 20 m long

(without stars)

Part no. 7648 I

ACCESSORIES

Part no.



GRP Rod Repair Kit

with stainless steel endpiece, screws and allen wrench 7 mm Ø

3696 K



GRP Rod

PA-coat with length marking
with stainless steel end piece M10 internal thread

7 mm Ø, 15 m long

7015 I

7 mm Ø, 20 m long

7020 I



Stars Set Stainless Steel Flat Wire

3 Stars, flat wire, 20 cm Ø soft
6 Stars, flat wire, 25 cm Ø medium hard
6 Stars, flat wire, 30 cm Ø medium hard

3709 O



Threaded Brush Set Perlon

20 - 35 cm Ø, M10 thread
1 x Ø 20 cm, 2 layers 1.2 mm,
1 x Ø 25 cm, 2 layers 1.2 mm,
1 x Ø 30 cm, 2 layers 1.2 mm,
1 x Ø 35 cm, 3 layers 2 mm

5529 G



Star Set PEK

2 Stars, PEK, 15 cm Ø
4 Stars, PEK, 20 cm Ø
2 Stars, PEK, 25 cm Ø

3710 O

Wöhler H 420 Viper M



Digital Meter Counter



GRP Push Head for mounting stars

TECHNICAL DATA

Cage diameter..... 42 cm
 Width..... 11 cm
 Weight..... 2 kg incl. 15 m GRP rod
 Freewheel brake..... precisely adjustable
 resolution meter counter ... 0.1 m

APPLICATION

Perfect tool for cleaning flue gas systems, chimneys of up to 250 mm Ø as well as ducts and pipework

ADVANTAGES

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

Wöhler H 420 Viper M 15 m, with digital meter counter

Scope of delivery:

GRP Rod 7 mm Ø, 15 m long, with stainless steel end pieces M10

quick change star holder to hold stars

GRP push head for mounting stars (without stars)

Part no. 3770 I

Wöhler H 420 Viper M 20 m, with digital meter counter

Scope of delivery:

GRP Rod 7 mm Ø, 20 m long, with stainless steel end pieces M10

quick change star holder to hold stars

GRP push head for mounting stars (without stars)

Part no. 3790 I

ACCESSORIES

Part no.



GRP Rod Repair Kit

with stainless steel endpiece, screws and allen wrench 7 mm Ø

3696 K



GRP Rod

PA-coat with length marking
with stainless steel end piece M10 internal thread

7 mm Ø, 15 m long

7015 I

7 mm Ø, 20 m long

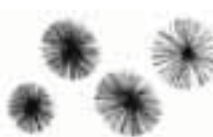
7020 I



Stars Set Stainless Steel Flat Wire

3 Stars, flat wire, 20 cm Ø soft
6 Stars, flat wire, 25 cm Ø medium hard
6 Stars, flat wire, 30 cm Ø medium hard

3709 O



Threaded Brush Set Perlon

20 - 35 cm Ø, M10 thread
1 x Ø 20 cm, 2 layers 1.2 mm,
1 x Ø 25 cm, 2 layers 1.2 mm,
1 x Ø 30 cm, 2 layers 1.2 mm,
1 x Ø 35 cm, 3 layers 2 mm





5529 G



Star Set PEK

2 Stars, PEK, 15 cm Ø
4 Stars, PEK, 20 cm Ø
2 Stars, PEK, 25 cm Ø

3710 O

STARS		Part no.
	Star, Stainless Steel, Flat Wire	
	Ø 15 cm soft	14015 G
	Ø 20 cm soft	14020 G
	Ø 25 cm medium hard	14125 G
	Ø 30 cm hard	14130 G
	Ø 35 cm hard	14135 G
	Star, Stainless Steel, Crimped Wire	
	Ø 15 cm	14315 G
	Ø 20 cm	14320 G
	Ø 25 cm	14325 G
	Ø 30 cm	14330 G
	Star, PEK	
	Ø 15 cm	13815 G
	Ø 20 cm	13820 G
	Ø 25 cm	13825 G
	Star, Perlon	
	Ø 15 cm 1.2 mm	2019 G
	Ø 20 cm 1.2 mm	2752 G
	Ø 25 cm 1.2 mm	2755 G
	Ø 35 cm 1.2 mm	2018 G
	Ø 40 cm 2.0 mm	8140 G

THREADED BRUSHES

Part no.



Threaded Brush, Stainless Steel, Flat Wire
with M10 thread

Ø 15 cm	18915 G
Ø 20 cm	18420 G
Ø 25 cm	18425 G
Ø 30 cm	18530 G
Ø 35 cm	18535 G



Threaded Brush, Stainless Steel, Crimped Wire
with M10 thread

Ø 15 cm	19115 G
Ø 20 cm	19120 G
Ø 25 cm	19125 G



Threaded Brush, PEK
with M10 thread

Ø 15 cm	18815 G
Ø 20 cm	18820 G
Ø 25 cm	18825 G



Threaded Brush, Perlon
with M10 thread

Ø 15 cm 1.2 mm	18715 G
Ø 20 cm 1.2 mm	4332 G
Ø 25 cm 1.2 mm	3564 G
Ø 30 cm 1.2 mm	3500 G
Ø 35 cm 2.0 mm	4424 G
Ø 40 cm 2.0 mm	18740 G
Ø 50 cm 2.0 mm	18750 G

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SWEEP INSTRUMENTS

Wöhler Mini Viper S



TECHNICAL DATA

Cage diameter.....	28 cm
Width.....	3.3 cm
Weight.....	720 g
	incl. 15 m GRP - rod
Brake.....	precisely adjustable

APPLICATION

Perfect tool to clean flue gas systems, chimneys as well as ducts and pipe-works

ADVANTAGES

- Very light weight – only 720 grams
- Very small diameter – only 28 cm
- GRP Rod with resistant PA coat and distance marking
- Ergonomic shape
- Belt clips (left and right)

Wöhler Mini Viper S with handle and belt clip

Scope of delivery:

Wöhler Mini Viper S

GRP Rod 4.5 mm, 15 m long

stainless steel end piece M5

guidance adapter

protection tube (without stars)

Part no. 2028 I

MINI HOLE STAR, PEK

Part no.

Mini Hole Star, PEK

for use with Wöhler Mini Viper S



Ø 70 mm	8644 G
Ø 100 mm	8645 G
Ø 130 mm	8646 G
Ø 150 mm	8647 G
Ø 200 mm	8648 G

Threaded Brush, PEK

with M5 thread



Ø 70 mm	3803 G
Ø 100 mm	8076 G
Ø 130 mm	7091 G
Ø 150 mm	3839 G
Ø 200 mm	7990 G

ACCESSORIES

Part no.

GRP Rod Repair Kit

with stainless steel end piece, screws and allen wrench 4,5 mm

3687 K



Wöhler Rotary Viper Heavy-duty



FUNCTION

The Wöhler rotary viper can easily remove severe soot, creosote and tar deposits in the chimney. A drill is used to drive the rotary viper. The chains of the endpiece spread out by rotation and knock off the soot and deposits. The chain length is adjustable.

TECHNICAL DATA

Length	7 m/10 m
Coat	rugged, 20 mm Ø
Thread Connection	internal M10
Drill connector	10 mm Ø
End piece	running in ball bearings
Core	10 mm Ø, CW/CCW rotation

APPLICATION

For chimney sweeping purposes

ADVANTAGES

- Stiff rotary viper can be pushed upwards or used downwards
- CW rotation enhances the cleaning effect
- Safety clutch between the drill and the rotary viper enhances safety
- Easy and fast cleaning

Wöhler Rotary Viper Heavy-Duty 7 m

Scope of delivery:

Wöhler Rotary Viper Heavy-Duty

safety clutch

end piece for holding chains

3 m stainless steel chain 5 mm Ø

Part no. 7437 J

Wöhler Rotary Viper Heavy-Duty 10 m

Scope of delivery:

Wöhler Rotary Viper Heavy-Duty

safety clutch

end piece for holding chains

3 m stainless steel chain 5 mm Ø

Part no. 7440 J

Wöhler Rotary Viper Heavy-Duty 13 m

Scope of delivery:

Wöhler Rotary Viper Heavy-Duty

safety clutch

end piece for holding chains

3 m stainless steel chain 5 mm Ø

Part no. 7423 J

ACCESSORIES

Part no.



Endpiece for holding chains

stainless steel

to use with the rotary viper, with 4 screws M10 for the attachment of the chains

7540 K



Chain Stainless Steel

5 mm Ø, 3 m long

3108 O



Sealing Element, rectangular, with hole

Ø 110 x 230 mm - 190 x 310 mm

50666 J



Wöhler Sealing Elements Set

to seal chimney doors 14 x 20 cm or similar measurements as well as pipe connections 100 – 150 mm or 150 – 200 mm

3708 I



Wöhler Sealing Element

to seal chimney doors 14 x 20 cm and 12 x 18 cm or similar measurements

50000 I

Wöhler Sealing Element, large

to seal chimney doors 20 x 30 cm or similar measurements
Size: 18.5 x 22.5 cm / 27.5 x 34.5 cm, Height: 11.5 cm

3430 I



Grease press for Rotary Viper

with multi-purpose grease 65 ml

3436 K

Powered Boiler Cleaning Brush



APPLICATION

Cleaning of big boilers

ADVANTAGES

- Effective boiler cleaning
- Extendable
- No danger from rotating parts

Powered Boiler Cleaning Brush Professional Set

Scope of delivery:

drill

bushing











3 guide tubes

3 shafts 30 cm for extension


2 cup brushes Ø 20 cm, medium hard and hard

2 spiral spring brushes Ø 4 and 6 cm

Part no. 1770 0

ACCESSORIES		Part no.
	Drill , 550 Watt with speed regulation, for Wöhler motor brush	1720 I
	Bushing with short shaft Internal thread M10 for Wöhler motor brush, to be clamped on drill	1721 K
	Guide tube 400 mm for Wöhler motor brush with bearing, for secure extension	1722 I
	Shaft 15 mm x 366 mm for Wöhler motor brush Internal / external thread M 10	1723 K
	Cup brush, hard with 2 small-hole stars Ø 20 cm Ø, 10 mm hole	1724 G
	Cup brush, medium with 2 small-hole stars Ø 20 cm Ø, 10 mm hole	1725 G
	small-hole star flat steel, 10 mm hole Ø 20 cm, medium	1350 G
	Ø 20 cm, hard	1347 G
	Boiler Brush Springs 3 mm Ø, thread M10 40 mm Ø	1726 G
	Boiler Brush Springs 3 mm Ø, thread M10 60 mm Ø	1727 G

BOILER BRUSHES		Part no.
	Boiler Brush, Stainless Steel, Crimped Wire with thread M10	
	Ø 20 mm	1573 G
	Ø 30 mm	1579 G
	Ø 40 mm	1583 G
	Ø 60 mm	1591 G
	Ø 80 mm	1595 G
	Ø 100 mm	1599 G
	Ø 120 mm	1603 G
	25 x 50 mm	1607 G
	50 x 100 mm	1615 G
70 x 120 mm	5121 G	
	Boiler Brush, Polyamid with thread M10	
	Ø 20 mm	1574 G
	Ø 40 mm	1584 G
	Ø 50 mm	1588 G
	Ø 60 mm	1592 G
	Ø 80 mm	1596 G
	25 x 50 mm	1608 G
	40 x 80 mm	1612 G
50 x 100 mm	1616 G	
	Boiler Brush Springs 3 mm Ø, thread M10	
	Ø 40 mm Ø	1726 G
	Ø 3 mm Ø, thread M1060 mm Ø	1727 G
	80 mm Ø	2827 G
	Boiler Brush, Flat Wire 28 mm Ø, with thread M 10	
	Ø 30 mm	1578 G
	Ø 40 mm	1581 G
	Ø 50 mm	1585 G
	Ø 60 mm	1589 G
	Boiler Brush, Flat Wire 1.25 x 0.25 mm with thread M10	
	40 x 80 mm	1610 G
	50 x 100 mm	1614 G
	Boiler Brush, Steel Wire 28 mm Ø, with thread M10	
	25 x 50 mm	1605 G
	40 x 80 mm	1609 G
	50 x 100 mm	1613 G

BRUSH ROD		Part no.
	Brush Rod	
	spring steel, Type B (3 x 3.8 mm Ø), with internal thread M10, 1 m long	1624 I
	spring steel, Type B (3 x 3.8 mm Ø), with internal thread M10, 1.2 m long	1625 I

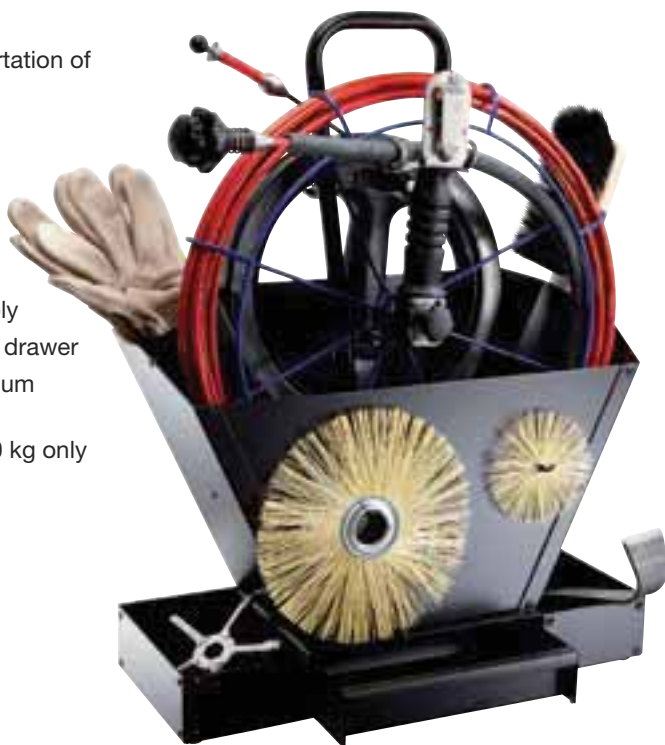
Wöhler Sweeping Tool Kit Carrier

APPLICATION

Ideal for transportation of sweeping tools

ADVANTAGES

- Comfortable Carrying
- Open-cut construction, flexible assembly
- Integrated soot drawer
- Durable aluminium construction
- Total weight 7.0 kg only



Digital Meter Counter

Wöhler Sweeping Tool Kit Carrier Professional Set

Scope of delivery:

Wöhler Mini Viper S

Wöhler H 420 Viper M

Scraper

Mini star 10 cm PEK

Star 20 cm PEK

Hand broom

1 pair work gloves

Soot door key

Part no. 3830 0

Wöhler Sweeping Tool Kit Back Pack

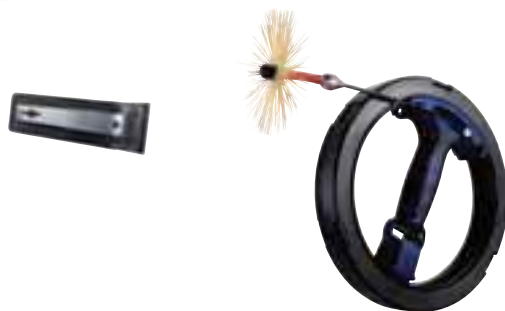


APPLICATION

Ideal for transportation of sweeping tools

ADVANTAGES

- Comfortable carrying
- Cushioned back
- All on the back
- 2 large pockets



Wöhler Sweeping Tool Kit Back Pack Professional Set

Scope of delivery

Wöhler Mini Viper S

Wöhler H 420 Viper M

Scraper

Mini star 10 cm PEK

Star 20 cm PEK

Tool backpack

Part no. 4031 0

Wöhler Multi Key



ADVANTAGES

- Special self-adjusting 6 – 11 mm clean out door opener
- Square steel cone 6 –10 mm
- Butterfly key
- Compact for your pocket
- 150 g light weight

Wöhler Multi Key

Scope of delivery:

Wöhler Multi Key

bit holder

four bits

Part no. 3232 I

PUPPETS

Part no.



Mini Chimney Sweeper Puppets, colored
144 pieces in a bag

4111 I



Mini Chimney Sweeper Puppets, black
500 pieces in a bag

411 I

BRUSHES

Part no.



Wöhler Hand Brush Wood

2060 I



Wöhler Hand Brush Plastic

2061 I

CHIMNEY CLEAN OUT DOOR

Part no.



Wöhler Chimney Clean Out Door
pack of 2 pcs.

1790 R

SF 300 Dust Collector



TECHNICAL DATA

Throughput with hose Ø 200 mm
approx. 1.000 m³/h air

Motor
Typ EMG Single phase-
Asynchronousmotor ECS 7IG
2-A1AA
Pressure 230 V
Frequency 50 Hz
Nominal power 0.55 kW

Operating Environment
Protection class IP 54
Insulation class F

Operating Temperature -35 °C to +40 °C

Dimension Vacuum Blower
90 x 41 x 46 cm

Weight Vacuum Blower
29 kg



APPLICATION

For simple and effective cleaning of ventilation lines up to 300 mm Ø. The Dust Collector creates strong negative pressure to extract dirt and dust particles directly during the cleaning process.

ADVANTAGES

- Can be used in vertical and horizontal position
- Easy to transport
- Simple set up
- Simultaneous connection of 2 hoses possible
- Hose extension for hard to reach vents















SF 300 Dust Collector Set with 5 m hose Ø 200 mm

Scope of delivery:

SF 300 Dust Collector and 5 m hose Ø 200 mm with integrated filter incl. adaptor

Part no. 6190 0

ACCESSORIES		Part no.
	Replacement Hose for SF 300 Dust Collector Ø 200 mm, 5 m long	6191 X
	Ø 160 mm, 5 m long	6192 K
	Adapter Ø 160 mm / Ø 100 mm for SF 300 Dust Collector	6198 K
	Adapter Ø 200 mm / Ø 160 mm for SF 300 Dust Collector	6199 K
	Hose bag for SF 300 Dust Collector for each one hose Ø 200 mm and Ø 160 mm, 5 m long	6193 0
	Prefilter (filter class F5) for SF 300 Dust Collector	6194 K
	Microfilter (filter class F7) for SF 300 Dust Collector	6195 K

ACCESSORIES	Part no.
 <p>Sealing element set round Contains 4 sealing elements (without hole), diameters from Ø 110 mm to Ø 330 mm</p>	7522 J
 <p>Sealing element set rectangular Contains 5 sealing elements (without hole), diameters from Ø 120 x 120 to 390 x 390 mm</p>	7523 J
 <p>Wöhler Soot Door Sealing for openings of 95 - 190 mm Ø and from 95 x 95 mm to 190 x 290 mm; with an adapter for vacuum cleaner hose 36, 38 and 42 mm Ø</p>	3380 I
 <p>Wöhler DC 410^{FLOW} Pressure Differential & Flowmeter Wöhler DC 410^{FLOW} PressureDifferential & Flow Meter, batteries, battery charger, S-Tube probe, Special Wall Temperature probe, 2 capillary hoses,</p>	9282 J
 <p>Ladder protection for every kind of ladder, just clamp it between the rungs</p>	141 0
 <p>Universal Box Wöhler DP 23 / DP 600 for Wöhler DP 23/DP 600, Thermal Fast Printer, Sealing Set Type P and Type N and sealing elements</p>	50784 0
 <p>Wöhler FA 430 Fan Anemometer NEW incl. CO₂-Measurement Wöhler FA 430, fan, 4 x AAA batteries, plastic carrying case</p>	4147 I
 <p>Wöhler TA 420 Thermoanemometer includes: Wöhler TA 420 with telescope tube, 4 batteries 1,5 V Typ AA plastic case</p>	4605 I
 <p>Accu Compressor comes with 3 different adaptors, pressure control valve, adapter cable for 12 V car supply and 220 V charger</p>	7460 K
 <p>Soot scraper for oven pipes 100 cm long, foldable handle with semicircle rubber</p>	6097 I
 <p>Set of clamps 4 pieces</p>	7524 I
 <p>Dräger mask X-plore 2100 incl. 5 particle filters</p>	3765 I
 <p>Filter for mask X-plore 2100 2100 filter class 882 FMP3D / P100, 20 pieces</p>	3223 K
 <p>Dräger mask X-plore 1710 filtering half mask EN 143 / EN 149 conform, filter class FFP1 NR D, big pack with 20 pieces</p>	1364 I

Wöhler Compressed Air Cleaning – Standard Set



APPLICATION

Appropriate for small, round ventilation pipes up to 125 mm Ø.



ADVANTAGES

- Backwards rotating helicopter nozzle causes a forward moving
- Easy operation
- Cleaning of pipes up to 7 m possible

Wöhler Compressed Air Cleaning Standard Set

Scope of delivery:

compressed air hose 7 m

stop value

Wöhler backwards rotating helicopter nozzle

plastic case

Part no. 7560 I

Wöhler Compressed Air Cleaning – Professional Set



APPLICATION

Appropriate for round and angular ventilation pipes

ADVANTAGES

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

TECHNICAL DATA

Pneumatic Viper

Weight 2.160 kg (incl. hose 10 m)
Braking effect adjustable break

Compressed-air hose

Length 10 m
Gain GRP-barrel

Viper Cage

Diameter 42 cm
Material stainless plastic coated

Digital Distance Measurement

Measuring Unit meter or feet (m or ft)
Resolution 0.1
Battery 3.6 V Longterm-Lithium-Battery

Demands on a connecting compressor unit

Pressure up to 10 bar
Output power 250 l/min
Boilercontent 50 l

Wöhler Compressed Air Cleaning Professional Set

Scope of delivery:

Wöhler DH 420 Pneumatic Viper with 10 m compressed air GRP hose incl. stop value and compressor connection

compressed air hose reel with 20 m hose

Wöhler compressed air whip with 7 ends 50 cm long

Wöhler backwards rotating helicopter nozzle

guidance roller ball

XXL-alu case

Part no. 7570 I

Wöhler DH 420 Pneumatic Viper



APPLICATION

The ideal instrument for cleaning ventilation pipes

ADVANTAGES

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

Wöhler DH 420 Pneumatic Viper 10 m compressed air hose











Scope of delivery:

GRP hose incl. stop value and compressor connection

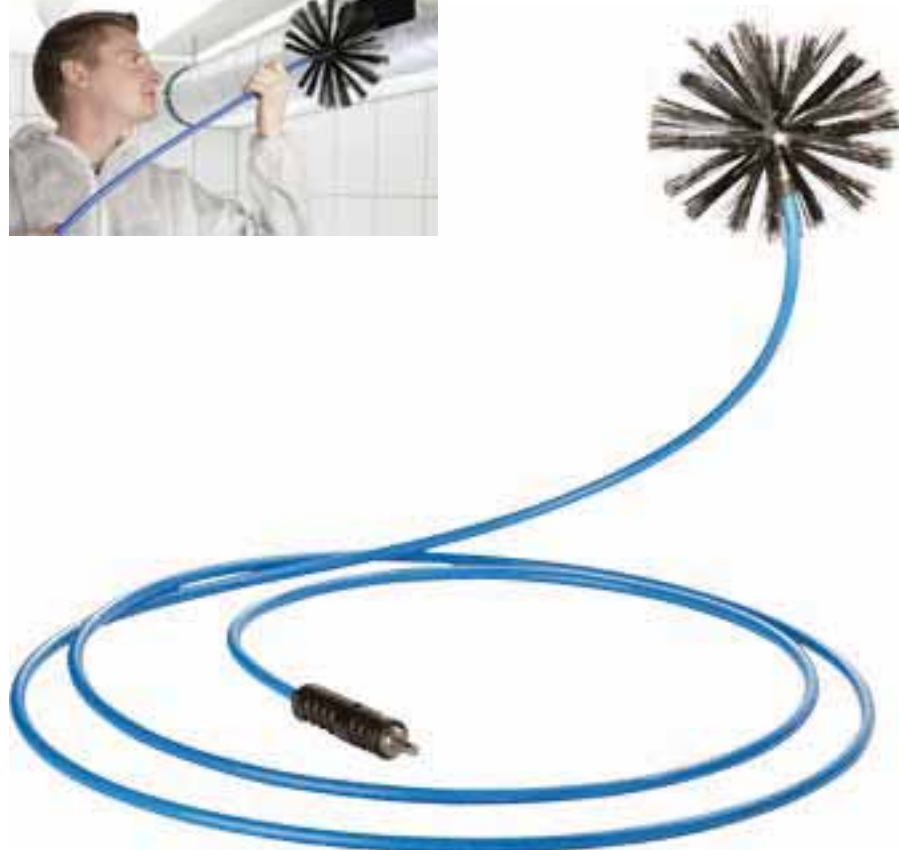
Part no. 7580 I

ACCESSORIES

Part no.

	Wöhler Roller guide ball Compressed Air Cleaning for guiding the Wöhler DH 420 Pneumatic Viper in angular shaped ventilation pipes	7552 I
	Wöhler helicopter nozzle backwards rotating appropriate for compressed air cleaning for persistent contamination in small ducts	7556 I
	Wöhler helicopter nozzle forwards rotating appropriate for compressed air cleaning for persistent contamination in small ducts	7557 I
	Wöhler Compressed Air Whip with 7 ends inside Ø 2.0 mm, 50 cm long, particular suitable for bigger pipe diameters	7562 I
	Hose Reel -20 m hose Compressed Air Cleaning incl. 1.5 m connecting hose and adapter plug	7565 I
	Wöhler Sealing Set Ventilation includes: sealing bladder size 3 for 100 – 250 mm Ø and size 5 for 200 – 400 mm Ø, with release valve	7506 0
	Wöhler TA 420 Thermoanemometer includes: Wöhler TA 420 with telescope tube, 4 batteries 1,5 V Typ AA plastic case	4605 I
	Wöhler FA 430 Fan Anemometer NEW incl. CO ₂ -Measurement Wöhler FA 430, fan, 4 x AAA batteries, plastic carrying case	4147 I
	Air Flow Funnel K 75 for Wöhler A 600 / TA 420 range 30-750 m ³ /h size 300 x 300 x 370 mm	53793 I
	Aluminium Case XXL 48 x 27 x 48 cm	5824 J

Wöhler Rotary Viper Vent



TECHNICAL DATA

Length	5 m or 10 m
Coat	very flexible, 15 mm Ø
Threaded connection	internal M10
Tap for drill chuck	10 mm Ø
Core	10 mm Ø, CW/CCW rotation

ADVANTAGES

- CW/CCW rotation
- Due to a small end piece also applicable for smaller bends
- Very light weight 1.3 kg
- Extremely flexible shaft
- Can be operated with battery driven drill

APPLICATION

Effective cleaning of dryer vents, duct and piping

Wöhler Rotary Viper Vent

1.5 m

Scope of delivery:

Wöhler Rotary Viper Vent 1.5 m long

brush head perlon Ø 18 cm

Part no. 4882 I

Wöhler Rotary Viper Vent

3 m

Scope of delivery:

Wöhler Rotary Viper Vent 3 m long

brush head perlon Ø 18 cm

Part no. 4867 I

Wöhler Rotary Viper Vent

5 m

Scope of delivery:

Wöhler Rotary Viper Vent 5 m long

brush head perlon Ø 18 cm

Part no. 4832 I

Wöhler Rotary Viper Vent

10 m

Scope of delivery:

Wöhler Rotary Viper Vent 10 m long

brush head perlon Ø 18 cm

Part no. 4866 I

Wöhler Rotary Viper Vent

Set, 5 m

Scope of delivery:

Wöhler Rotary Viper Vent 5 m long

brush head perlon Ø 18 cm

brush head perlon Ø 25 cm

threaded brush perlon Ø 30 cm

Part no. 7511 I

Wöhler H 420 Viper M



Digital Meter Counter



GRP Push Head for mounting stars

TECHNICAL DATA

Cage diameter..... 42 cm
 Width..... 11 cm
 Weight..... 2 kg incl. 15 m GRP rod
 Freewheel brake..... precisely adjustable
 resolution meter counter ... 0.1 m

APPLICATION

Perfect tool for cleaning flue gas systems, chimneys of up to 250 mm Ø as well as ducts and pipework

ADVANTAGES

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

Wöhler H 420 Viper M 15 m, with digital meter counter

Scope of delivery:

GRP Rod 7 mm Ø, 15 m long, with stainless steel end pieces M10

quick change star holder to hold stars

GRP push head for mounting stars (without stars)

Part no. 3770 I

Wöhler H 420 Viper M 20 m, with digital meter counter

Scope of delivery:

GRP Rod 7 mm Ø, 20 m long, with stainless steel end pieces M10

quick change star holder to hold stars

GRP push head for mounting stars (without stars)

Part no. 3790 I

ACCESSORIES

Part no.



GRP Rod Repair Kit

with stainless steel endpiece, screws and allen wrench 7 mm Ø

3696 K



GRP Rod

PA-coat with length marking
 with stainless steel endpiece M10 internal thread

7 mm Ø, 15 m long

7015 I

7 mm Ø, 20 m long

7020 I



Brush Head Perlon

Thread M10

18 cm Ø

1466 G

25 cm Ø

7102 G



Threaded Brush Set Perlon

20 - 35 cm Ø, M10 thread

1 x Ø 20 cm, 2 layers 1.2 mm,

1 x Ø 25 cm, 2 layers 1.2 mm,

1 x Ø 30 cm, 2 layers 1.2 mm,

1 x Ø 35 cm, 3 layers 2 mm

5529 G

I. SCOPE OF TERMS AND CONDITIONS

1. All business transactions entered into between Wöhler Messgeräte Kehrgeräte GmbH (hereinafter referred to as "Seller") and the buyer are subject to the following General Terms and Conditions as amended at the time of the purchase order.
2. We only deliver to business customers.
3. Our offering of goods in the Internet and in our catalogue does not constitute a binding offer in the legal sense. Upon placing an order, you make us an offer which we then accept either by explicitly confirming the order or by delivering the goods.

II. DELIVERY, SHIPPING COSTS AND PASSAGE OF RISK

1. We deliver the goods at the buyer's expense to the delivery address specified by the buyer.
2. Within Germany we charge € 3.90 per order (to Austria 6,90 €) for deliveries shipped by our parcel service. If the buyer desires shipment by a different carrier, the shipping fee will be offered individually.
3. Deliveries outside Germany will be handled in accordance to DAP (Incoterms 2010).
4. Shipping and packaging costs for bulky goods (e.g. chimney tops, dust catchers, tube winders) will be specified at request.

III. PRICES AND TERMS OF PAYMENT

1. All prices, including any instalment rates, are quoted in Euros and do not include VAT at the legal rate and shipping costs.
2. If after conclusion of the contract it becomes apparent that our claim to payment is jeopardized by the buyer's inability to pay, we may refuse to duly perform and may fix the buyer a deadline for payment concurrently with delivery or provision of security. If the deadline fixed expires without result, we are entitled to rescind the contract. The requirement to fix a deadline may be dispensed with if the buyer definitely and in earnest refuses to pay or if special circumstances justify immediate cancellation of the contract, having regard to both parties' interests.

IV. RESERVATION OF OWNERSHIP

1. We retain title to all goods delivered by us until full payment of the purchase price. In the event of seizure or any other intervention by third parties, the buyer shall immediately inform us in writing.
2. The buyer is entitled to resell the purchased goods in the ordinary course of business; provided, however, the buyer hereby assigns to us all claims in the amount of the total invoice amount (including VAT) against his customers or third parties which accrue to the buyer from the resale of the goods, regardless of whether such goods have been resold without or after further processing.
3. The buyer retains its right to collect such claims even after the assignment.
4. This does not affect our own right to collect the claims ourselves. We agree that we will not collect such claims provided that the buyer meets his payment obligations on the basis of any consideration collected, that the buyer does not default on payment and that no petition in bankruptcy is been filed against the buyer and that the buyer does not suspend payment. If any of the above does occur, we are entitled to demand that the buyer notifies us of the claims assigned and of the identity of the relevant debtors, that the buyer provides us with all details necessary for collection, that the buyer hands over the relevant documents and informs the debtors (third parties) of such assignment.
5. We undertake to release any securities due to us at the buyer's request to the extent that the realisable value of our securities exceeds the claims to be secured by more than 10%; provided, however, that we are entitled to select the securities to be released.

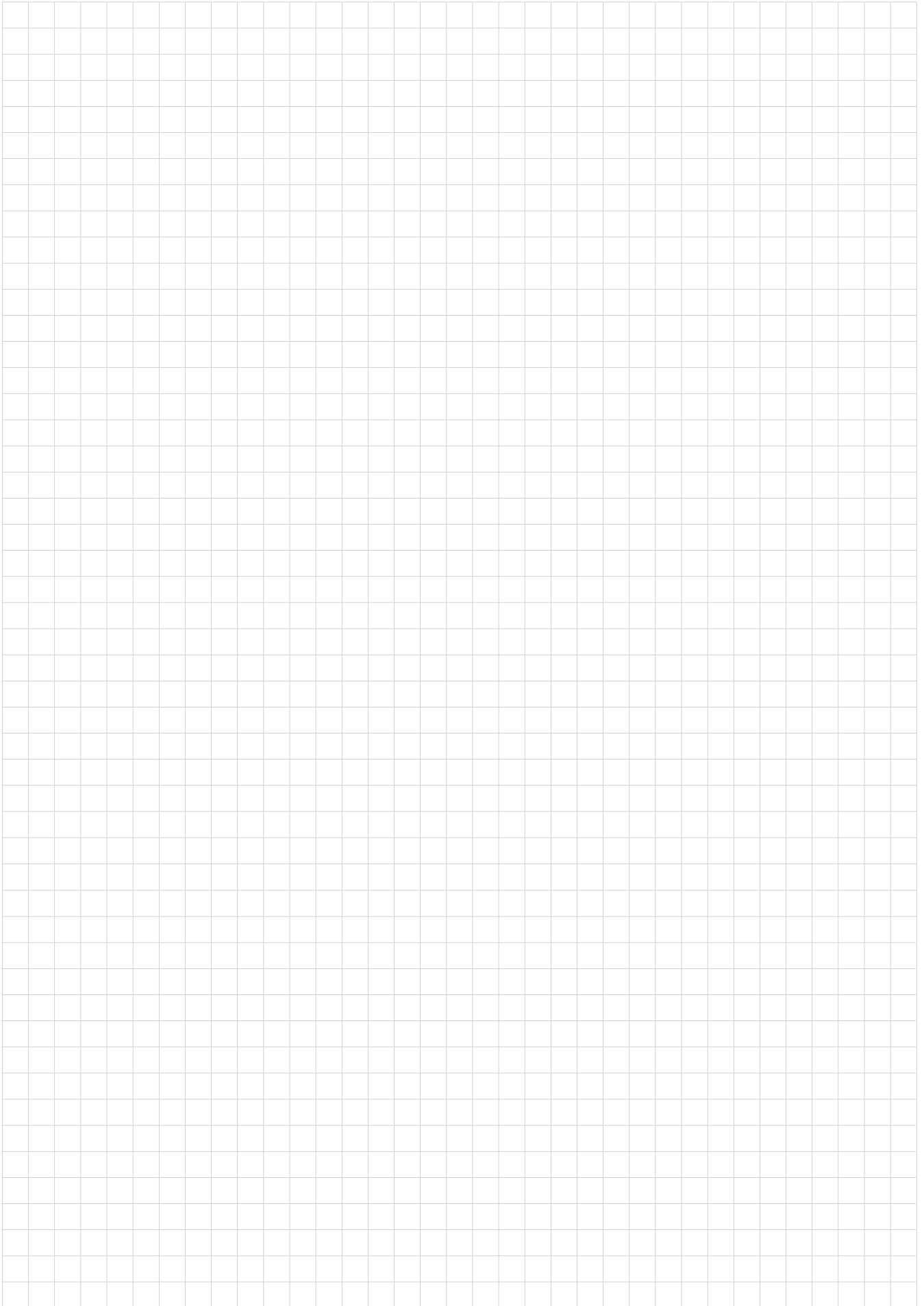
V. WARRANTY AND LIABILITY

1. In case of new goods the warranty period is one year as of delivery of the goods to the first buyer. The warranty covers all manufacturing and material defects. Second-hand goods, wear parts and consumables (e.g. rechargeable batteries, sensors, filters), damages due to abnormal use or normal wearing are not covered by warranty.
2. The removal of defects falls to the manufacturer or an authorized Wöhler service point. The removal does not cause a warranty extension. Costs for packaging and transport as well as advanced services (calibration and checking) are not covered by warranty.
3. This limitation of liability does not apply to damages for injury to life, body and health for which the Seller is culpably responsible and/or to damage or loss caused intentionally or through gross negligence or fraudulence on the part of the Seller and/or if the Seller has made any warranties with regard to the nature of the goods and/or where claims under the Product Liability Act are concerned.
4. The liability for damage or loss of legal interests other than life, body and health is excluded insofar as such damage or loss has not been caused by intentional or grossly negligent behaviour on the part of the Seller or the Seller's legal representatives or vicarious agents and provided that such conduct does not constitute violation of substantial covenants. This exclusion of liability does not apply where claims under the Product Liability Act are affected.
5. All warranty claims expire if the products serial number is intentionally manipulated, erased or made illegible or if repairs and or adjustments have been carried out from unauthorized third parties.
6. Please use our service order form for all warranty claims and include it to the parcel, together with a proof of purchase.

VI. PLACE OF PERFORMANCE, PLACE OF JURISDICTION AND GOVERNING LAW

1. The principal place of business of Wöhler Messgeräte Kehrgeräte GmbH is the place of performance and exclusive jurisdiction for deliveries and payments and for any disputes arising between the Seller and the buyer out of any contracts entered into between them.
2. Any contracts between the buyer and the Seller are governed by the law of the Federal Republic of Germany. The United Nations Convention on Contracts for the International Sale of Goods as of April 11, 1980 (CISG) does not apply hereto. The Incoterms 2010 of the International Chamber of Commerce at Paris apply.
3. In the event that any of the provisions of the contract made with the buyer, including these Standard Terms and Conditions, is or becomes invalid, then this shall not affect the validity of the other provisions.

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A

Accu Compressor	67, 129
Aceton	41
Adapter	65, 128
Air Flow Funnel	79, 131
Air puffer	46
Airspeed Measurement	
Wöhler TA 420 Thermoanemometer	79
Wöhler FA 410 Fan Anemometer NEW	80
Wöhler FA 430 Fan Anemometer NEW	81
Air Temperature Plug	22, 32, 38
Air Temperature Probe	22, 38, 57
Air Temperature Probe Adaptor for Wöhler A 600	38
Aluminium Case XXL	63, 67, 108, 131
Anti slide mat	97
Auxiliary Probe Heater NEW	46

B

Batteries NiMH	23, 39, 61, 91, 96
Backpack Carry-On	46
Wöhler BC 21 Sealing Set	63
Bluetooth® Dongle USB for PC	38
Boiler Cleaning	
Motor Brush	124
Boiler Brushes	124 -125
Brush Rod	125
Building Tightness	
Wöhler BC 21	62

C

Cable Hose Wöhler A 400 / A 400 ^{PRO}	22
Calibration Set for Wöhler IR Hygrotemp 24	76
Camera Backpack	108
Camera Head	
Color Camera head pan and tilt 40 mm Ø	96, 104, 106
Miniature Color Camera Head Ø 26 mm	104
Wöhler VIS 400 Camera Head b/w	104
Wöhler VIS 400 Camera Head Color	104
Camera Holder	106
Camera Protection with brushes for Wöhler VIS	107
Camera Roller Guide	90, 96, 107
Camera Trolley for Wöhler VIS	106
Camera Viper	
Wöhler Camera Viper 36	105
Wöhler Camera Viper 42	105
Car charger 18 V for Wöhler VIS	91, 96, 108
Carrier Kits	
Wöhler Sweeping Tool Kit Back Pack	126
Wöhler Sweeping Tool Kit Carrier	126
Centering Brush for Wöhler VIS	90, 96, 107
Centering Brush Extension for Wöhler VIS	90, 96, 107
Chain Stainless Steel	123
Chalk, yellow	108
Charger Wöhler A 400, A 550	23, 33, 61
Clamping Cones	22, 32, 38, 41
Cleaning of ventilation systems	
SF 300 Dust Collector	128
Cleaning Set for Wöhler VIS NEW	91, 97, 108
Cleaning Set Refill for Wöhler VIS NEW	91, 97, 108
Color Monitor for Wöhler VIS 400	104
Coarse Filters	33, 39, 46
Compressed Air Cleaning	
Wöhler Compressed Air Cleaning Standard Set	130
Wöhler Compressed Air Cleaning Professional Set	130
Wöhler DH 420 Viper M	131
Wöhler Helicopter nozzle	131
Condensate Pump for Wöhler A 600 / A 500	38

Connection cable wood moisture probe	48
Cover labels, aluminium	23, 39

D

Data Exchange Software	61, 65
Dew Point Indication	
Wöhler TI 410 Dew Point Indicator	47
Differential Pressure	
Wöhler DC 17 Pressure Meter	56
Wöhler DC 2000 ^{PRO} Pressure Computer	55
Wöhler DM 2000 Digital Manometer	54
Door Sealing for Wöhler BC 21	63
Dräger mask X-plore	129

E

Electrodes Wöhler wood moisture probe	48
Endoscopy	
Wöhler VE 200 Video-Endoscope NEW	110
Extension Wöhler Cable hose	22, 32

F

Filter granulate NEW	32
Filter Paper Dispenser for Wöhler RP 72	41
Flue Gas Analysis	
Wöhler A 400 Flue Gas Analyzer	18-22
Wöhler A 550 Flue Gas Analyzer	24-32
Wöhler A 600 Flue Gas Analyzer	34-38
Flue gas temperature probe	59, 74
Fog machine	63
Fog spray gun	47, 63
Funnels	79

G

Gas bladder for Wöhler DC 430	61
Gas Line Sealing Set	61
Gas Probe	38
Glare protection for Wöhler VIS	90, 97
Glass Dome	97, 104
GRP Rod	117, 118, 118, 119, 133
GRP Rod Repair Kit	116, 117, 118, 119, 122, 133
Guidance Ball for Wöhler VIS	91, 96, 107
Guidance Set for Wöhler VIS	90, 96, 106
Guidance Sleeve for Wöhler VIS	90, 107
Guidance Weight for Wöhler VIS	91, 96, 107

H

Heated Probe Holder NEW	46
Heavy duty carrying case Wöhler A 400	23
Heavy duty carrying case Wöhler A 550	33
Hose bag	128

I

Inspection of Chimneys/Ventilation systems/Flue gas systems	
Wöhler VIS 400	98, 99

L

Ladder protection	129
Leakage Testing	
Wöhler DC 430 Leakage Tester	60
Wöhler BC 21 Blower Check	62
Wöhler DP 600 Leakage Tester NEW	64
Wöhler GS 220 Gas Sniffer	61, 68
Wöhler CM 220 CO-Meter	69
Wöhler UL 23 Ultrasonic Leak Detector	69
Localization	
Wöhler L 200 Locator NEW	91, 97, 106, 109

M		S	
Magnetic Holder	32	Sealing Element	123, 131
Maxi Adapter for Wöhler VIS	106	Sealing Set for Wöhler DP 600/DP 23	65, 66
Measurement of Temperatures / Humidity / Sound		Sealing Bladder 50 - 150 mm	66
Wöhler DT 310 Differential Temperature Meter	74	Sealing Clamps for Wöhler BC 21	
Wöhler IR Temp 210 Infrared Thermometer	75	Angular	63
Wöhler IR Hygrotemp 24	75	Straight	63
Wöhler SP 22 Sound Level Meter	76	Sealing Element	
Wöhler RF 220 Hygrotemp	76	Rectangular, with hole	123
Wöhler CDL 210 CO ₂ -Datalogger	77	Round with hole	65, 66
Wöhler KM 410 Indoor Air Quality Meter	78	Sensors	
Mini Chimney Sweeper Puppets	127	Wöhler A 400 CO Sensor	23
Moisture Probe for Wöhler A 550	32	Wöhler A 400 L Sensor CO	23
Multi Key	127	Wöhler A 400 Sensor O ₂	23
N		Wöhler A 550 L Sensor CO _H 35.000 ppm	33
Notes	135	Wöhler A 550 Sensor CO _H 100,000 ppm	33
O		Wöhler A 550 Sensor CO 4,000 ppm	33
Oil Derivates Test Bottle for Wöhler RP 72	41	Wöhler A 550 NO ₂ Sensor 1,000 ppm	33
P		Wöhler A 550 Sensor NO 3,000 ppm	33
Peltier Cooler	38	Wöhler A 550 Sensor O ₂	33
PC-Software Wöhler BC 21	63	Wöhler A 550 Sensor SO ₂	33
Peltier cooler Wöhler A 550 / A 400 NEW	22, 32	Wöhler A 600 Sensor CO - 4,000 ppm	39
Penetration temp. probe TF4	59, 74	Wöhler A 600 Sensor CO high - 100,000 ppm	39
Pitot tube	57, 59	Wöhler A 600 Sensor NO - 2,000 ppm	39
Plastic Case for Wöhler DP 600	67	Wöhler A 600 Sensor NO ₂ - 150 ppm	39
Plastic Case Mini	55, 57	Wöhler A 600 Sensor O ₂	39
Plastic Case VIS 400	108	Wöhler A 600 Sensor SO ₂ - 4,000 ppm	39
Plastic Case Wöhler DC 4xx	61	Small plastic case	23
Plastic domes	104	Smoke Cartridges	67
Plug form	57	Smoke Pen	47
Power Supply for VIS 3xx / VIS 2xx	91, 96, 108	Smoke pump filters bag	41
Pressure and Flow		Solid Fuel Adapter/Long Term Condensator	38
Wöhler DC 410 ^{FLOW} Pressure Differential & Flowmeter	58, 129	Soot Door Sealing	129
Printer		Soot Testing	
Wöhler TD 100 Thermal Printer		Wöhler RP 72 Soot Test Pump	40
23, 33, 39, 46, 55, 57, 59, 61, 63, 65		Soot Spot Comparison Scale for Wöhler RP 72	41
Probes		Soot scraper for oven pipes	129
Air Temperature Probe for Wöhler A 500	32, 57	Spare Brushes for Wöhler VIS	90, 96, 107
Dew point indicator probe for Wöhler A 550	32	Stabilisation Tube for Wöhler VIS	90, 96, 107
Flexible Probe for Wöhler A 550 / 500	32	Spare Parts Kit	46
Flexible probe for Wöhler A 600	38	Special servicing oil	41
Gas Probe for Wöhler A 550 / 500	32	Stabilization Sleeve for Wöhler VIS	90, 96, 107
Special Wall Temperature Probe	22, 32, 59, 74	Stars	118-120, 122, 124
Probe holder with hose for Wöhler A 600	38	S-Tube Probe	59
Protection Sleeve	97, 104	Surface Temperature Probe	59, 74
PTFE Cone	22, 32, 38, 41	Suspended Particulate Matter Measurement	
Q		Wöhler SM 500 Suspended Particulate Analyzer NEW	42-45
Quick Charger for Wöhler VIS 2xx / VIS 3xx	91, 96	T	
R		Terms and Conditions	134
Relative Humidity / Sound		Thermal Paper	23, 33, 39, 46, 55, 57, 63, 65
Remote probe	76	Threaded Brushes	116-122, 133
Wöhler RF 220/Wöhler SP 22	76	Tripod set Wöhler SM 500 NEW	46
Wöhler SP 22	76	Twin-wall case	23, 33
Relining Adapter for VIS 3xx	91, 97, 106	U	
Replacement Glass Domes	104	Universal Box	67, 129
Replacement Hose for SF 300 Dust Collector	128	V	
Replacement Plastic Domes (10 pcs.)	97, 104	Vipers	
Roller guide ball for Wöhler VIS	131	Wöhler Viper XL/XXL	116
Rubber boot for Wöhler DC 2000 / DM 2000	55, 57	Wöhler Viper L	117
Rubber plug, blue	61	Wöhler Handy Viper M	118
		Wöhler H 420 Viper M	119, 133
		Wöhler Mini Viper S	122
		Wöhler Rotary Viper Heavy-duty	123

Wöhler DH 420 Pneumatic Viper	131
Wöhler Rotary Viper Vents	132
Visual Control	
Wöhler Glass Mirror	111
Wöhler Metal Chimney Mirror	111
Visual Inspection	
Wöhler VIS 200/250 Service Camera NEW	86-91
Wöhler VIS 300/350 Service Camera NEW	92-96
Wöhler VIS 400 Visual Inspection Camera NEW	98-109

W

Wadding filters	23, 33, 39, 46
Wadding rolls long / short	41
Water Stop Filters	23, 33, 39
Wood & Building Materials Moisture Measurement	
Wöhler HBF 420 Moisture Meter	48
Wöhler HF 300	49
Wöhler Wood moisture - Advanced set	48
Wöhler Wood moisture probe	48
Wöhler LD 400 Laser Distance Meter	63



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