



COMPACT, RUGGED, LOADED WITH SMART FUNCTIONS.

Wöhler A 450 Flue Gas Analyzer





48 Months Warranty DEVICE AND

CO

10,000

PRINTER

• USB





A 450 APP (Android)







Wöhler A 450 Flue Gas Analyzer

The new compact class – sturdy and smart

This is where Wöhler excels: A reasonably priced flue gas analyzer that offers all measurement and tuning functions. A small and lightweight flue gas analyzer enclosed in an eye-catching, sturdy housing. The Wöhler A 450 is a handheld device with a user friendly touchscreen. Simply display all measurement data on the large screen, or connect the device and view the results on your mobile devices.

Compact with a full range of functions

The Wöhler A 450 is a sturdy measuring device that combines solid workmanship with a clear color display. All measured values are displayed clearly at a glance. The Wöhler A 450 is a well rounded tool that offers measurements such as flue gas analysis, draft measurement, burner tuning guide, adjustment tasks on gas and oil systems and even solid fuel fireplaces. Typical Wöhler.

In true Wöhler fashion, the device is compact and lightweight by design and is guaranteed to be user friendly. Intuitively easy to use: The menu consists of icons similar to that known from smartphones. The user simply taps an icon to open the individual menu items.

Smart functions

In addition to the user-friendly convenience of the touchscreen the Wöhler A 450 also offers the advantages that smart devices provide: You are able to transmit all measurement data to a mobile devices (smart-phones, tablets by Android and iOS) per Wireless LAN. These devices can then display the measurements as numerical values or as a graph in the Wöhler A 450 app. The app gives technicians the option of reading measurements already taken and also the ability to take new measurements through the app. This proves to be particularly practical when measuring at spots with poor accessibility. The measurement data can be saved in different formats and and can be sent to the customer by email.

ADVANTAGES

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



5" large color touchscreen All measured values available at a glance thanks to high-resolution display



Wöhler A 450 App
Displaying the measured data on a mobile device



All values at a glanceThe tuning guide offers an advanced guidance to the technician to properly adjust the burner.



Interface to the printer Printout of the measured data on site.



Easy maintenance Condensate trap can easily be pulled out to change cotton wool and water stop filters.



Perfect size Compact and light in a plastic case

X Application

- · Residential flue gas analysis
- · Service and maintenance tasks
- · Determine flue gas loss and burner tuning
- · Immission control measurements (1st BImSchV)
- · NO measurement (optional)
- · Differential pressure / gas pressure measurement

☆ Functionality

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

Safety / Reliability

- 24 or 48 months guarantee without maintenance agreement¹
- · Effective condensate protection
- · Multistage filter technology incl. water stop filter
- · Electronic filter monitor with illuminated condensate trap
- · Analyzer and sensor diagnostics
- · Field replaceable sensors user-friendly
- · Rechargeable battery operating time: up to 17 h with lithium ion power
- · Hose assembly robust and flexible

♠ Data management

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

TUV test registered for 1st BImSchV (German Federal Immission Control Act) and KÜO (German sweeping and inspection ordinance), for oil or gas fi ring installations to VDI 4206 Part 1 and DIN EN 50379 Part 2

 $^{1)}$ Wöhler A 450 L: 24 months; A 450 / A 450 H: 48 month; CO sensors 5,000 ppm: 48 months excludes thermocouples, rechargeable battery and optional NO Sensor. For more information see our Terms and Conditions.

TECHNICAL DATA

Oxygen concentration	(0_{2})	in :	flue	gas
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Display	.Volume % referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	.0.021.0 Vol. %
Accuracy	.±0.3 Vol. %

Carbon monoxide (CO_v 5,000 ppm) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor, not H ₂ compensated
Range	05,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy	±40 ppm (< 400 ppm), otherwise 10 % of reading
	(if H < 5 % of reading)

Carbon monoxide (CO_v 100,000 ppm) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor, not H ₂ compensated
Range	0100,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy	±100 ppm (< 1.000 ppm), rest 10 % f.m.

Carbon monoxide (CO_v 10,000 ppm) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor, not H ₂ compensated
Range	010,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy	+10 f m absolute +40 ppm

Carbon monoxide (CO, 10,000 ppm) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor, H ₂ compensated
Range	010,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy	+20 nnm (< 400 nnm) rest 5 % f m

Nitric oxide concentration (NO_v) in flue gas (optional)

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical Sensor
Range	03,000 Vol. ppm, resolution 1 Vol. ppm
Accuracy	+5 Volppm (< 100 ppm), otherwise 5 % of reading

Chimney draught / differential pressure (PD)

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

Flue gas temperature (T_s)

Display	.°C
Measurement principle	.Thermocouple (NiCr-Ni)
Range	20.0800 °C; resolution 0.1 °C
Accuracy	.0133 °C: ±2°C
	133800 °C: ±1.5 % of reading

Combustion air temperature (T,

Display	.°C
Measurement principle	.Thermocouple (NiCr-Ni)
Range	20.0100 °C; resolution 0.1 °C
Accuracy	.±1°C

Power supply

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

Battery operating time

Wöhler A 450 L	approx. 6 h
	(depends on operating status and display illumination)
Wöhler A 450 / A 450 H	approx. 17 h
	(depends on operating status and display illumination)

approx. 3 h

Charging time Wöhler A 450 L

Wöhler A 450 / A 450 Happrox. 7 h
Storage temperature2050 °C
Operating temperature +540 °C to maintain stated accuracy

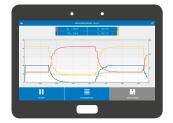
Length of the probe hose1.500 mm



Wöhler A 450 APP

Do you prefer to do everything with your smartphone or tablet? Then the Wöhler A 450 App is exactly the right choice for your measuring and adjustment work. No matter if you are using an Android or iOS device.





WÖHLER A 450 APP **ADVANTAGES**





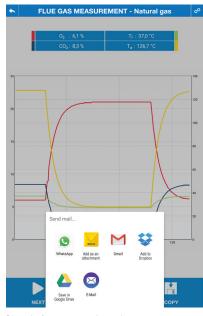
- · Remote control of measurements at locations where access is difficult
- Direct Wireless LAN connection to the smart device future-proof connectivity
- Data can be sent from smartphone/tablet by email



Display of all measured values at a glance



Homepage of the Wöhler A 450 App



Dispatch of measurement data to the customer

	Wöhler A 450 L Flue Gas Analyzer 5,000 ppm	Wöhler A 450 L Flue Gas Analyzer 100,000 ppm	Wöhler A 450 Flue Gas Analyzer 10,000 ppm	Wöhler A 450 H Flue Gas Analyzer 10,000 ppm
APPLICATIONS (depends on accessories)	Article no. 4503 J	Article no. 4672 J	Article no. 5181 J	Article no. 7165 J
Setting tasks gas/oil systems	•	•	•	•
Burner adjustment assistant	•	•	•	•
Possible sensors	3	3	3	3
FUNCTIONALITY				
5" color touchscreen	•	•	•	•
1,000 measurement data sets	•	•	•	•
Wireless LAN	•	•	•	•
USB & infrared	•	•	•	•
RELIABILITY				
W arranty	24 months	24 months	48 months	48 months
Device sensor diagnostics	•	•	•	•
Sensor replacement	•	•	•	•
Visual filter monitor	•	•	•	•
Rechargeable lithium ion battery	up to 6 h operating time	up to 6 h operating time	up to 17 h operating time	up to 17 h operating time
SCOPE OF DELIVERY				
CO sensor	5,000 ppm	100,000 ppm	10,000 ppm	10,000 ppm
O ₂ sensor	021 %	021 %	021 %	021 % (H ₂ compensated)
NO sensor	optional 3,000 ppm	optional 3,000 ppm	optional 3,000 ppm	optional 3,000 ppm
Combustion air temperature probe			•	•
USB battery charger	•	•	•	•

ullet = included | optional = retrofit or upgrade ex works, contact us

Wöhler A 450 Flue Gas Analyzer

1 Device - different Versions

Wöhler A 450 L – 5,000 ppm

Wöhler A 450 L – 100,000 ppm

Wöhler A 450 – 10,000 ppm

Wöhler A 450 H – 10,000 ppm, H_2 compensated



Wöhler A 450 L / A 450 / A 450 H Flue Gas Analyzer

Basic sets

Scope of delivery	Wöhler A 450 L			
5,000 ppm CO sensor	•	•		
100,000 ppm CO sensor			•	•
3,000 ppm NO sensor		•		•
Wireless LAN, USB and IR interfaces	•	•	•	•
Flue gas probe 250 mm with 1.5 m hose assembly	•	•	•	•
USB battery charger with micro USB cable	•	•	•	•
Rechargeable lithium ion battery, 3.6 V / 2,250 mAh	•	•	•	•
25 cotton filters	•	•	•	•
Article no.	4503 J	4703 J	4672 J	4979 J

Scope of delivery	Wöhler A 450	Wöhler A 450	Wöhler A 450 H	Wöhler A 450 H
10,000 ppm CO sensor	•	•		
10,000 ppm CO sensor, H ₂ compensated			•	•
3,000 ppm NO sensor		•		•
Wireless LAN, USB and IR interfaces	•	•	•	•
Flue gas probe 250 mm with 1.5 m hose assembly	•	•	•	•
Rechargeable lithium ion battery, 3.6 V / 6,700 mAh	•	•	•	•
25 cotton filters	•	•	•	•
Article no.	5181 J	5341 J	7165 J	7183 J

Standard sets

Flue Gas Analyzer	4503 J	4703 J	4672 J	4979 J	5181 J	5341 J	7165 J	7183 J
Case Midi	•	•	•	•	•	•	•	•
Cone	•	•	•	•	•	•	•	•
Article no.	5102 J	5709 J	5158 J	5166 J	5189 J	5343 J	7166 J	7184 J

Professional sets

Flue Gas Analyzer	4503 J	4703 J	4672 J	4979 J	5181 J	5341 J	7165 J	7183 J
Case Maxi	•	•	•	•	•	•	•	•
Wöhler TD 100 Thermal Fast Printer	•	•	•	•	•	•	•	•
Thermal Paper	•	•	•	•	•	•	•	•
Temperature Probe	•	•	•	•	•	•	•	•
Cone for Temperature Probe	•	•	•	•	•	•	•	•
Cone	•	•	•	•	•	•	•	•
Article no.	5157 J	5710 J	5159 J	5179 J	5340 J	5345 J	7185 J	7186 J

Wibber A 450 And 10S devices A 400 Again to proceed your measuring and adjustment tasks. Po-Software Wibber A 460 Again to proceed your measuring and adjustment tasks. Po-Software Wibber A 460 Again to proceed your measuring and adjustment tasks. Ali Temperature Piling 5517 J Air Temperature Piling 5517 J Air Temperature Piling 5517 J Air Temperature Piling 5511 J Porbe 151 J 200 mm with 1.7 m cabble 5511 J Porbe 250 mm with 1.7 m cabble 5511 J Porbe 150 mm with 1.5 m hose for Wibber A 450 / A 50 A 150 A 15	Accessories Wöhler	A 450	Article no.
Available for both Android and IOS devices. The Wölter A.50 App is proteopy what you need for your measuring and adjustment tasks. Po-Software Wölter A.490 Languages BN PH IT IT ICZ IN I/ No for online measurements, diagram functions and export to MS Excel Air Temperature Ptug Air Temperature Will Troit temperature probes in openings O 10 - 15 mm Air Temperature Ptug Air Temperature Will Troit termal paper and four batteries Themal Paper Air Temperature Will Troit termal paper and four batteries Themal Paper Air Temperature Will Troit termal paper and four batteries Themal Paper Air Temperature Will Troit termal paper and four batteries Themal Paper Air Temperature Will Troit termal paper and four batteries Themal Paper Air Temperature Will Troit termal paper and four batteries			free
PO-Softwar Wolfer A 450 / As Discussion with your intention of purchase assistance of the control of the contro			
Air Temperature Plug	WOHLER	The Wöhler A 450 App is precisely what you need for your measuring and adjustment tasks.	
for online measurements, diagram functions and export to MS Excel Air Temperature Pilug Air Temperature Probe for Wilnier A 450 / A 550 185 mm with 1,7 m cable 280 mm with 1,7 m cable 250 mm with 1,7 m cable 250 mm with 1,7 m cable 250 mm with 1,7 m foos for Wilnier A 450 has 50 L/A 450 ECO 7,5 m tipper A 450 1,5 m hose assembly for larger boiler service Hose Assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly for Wilnier A 450 has 50 L/A 450 ECO 1,5 m tipper hose assembly 100 mm 100			4499 J
Air Temperature Probe for Wohlar A 450 / A 550 280 mm with 1.7 m cable 280 mm with 1.5 m hose for Wohlar A 450 Pob			
Air Temperature Probe for Wohlar A 400 / A 500 Food Food may with 1.5 m hose for Wohlar A 400 Food may with 1.5 m hose for Wohlar A 400 Food may with 1.5 m hose for Wohlar A 400 / A 50 L/A 450 EOO for larger boiler service Food may be for wohlar A 500 / A 50 L/A 450 EOO for larger boiler service Food may be for wohlar A 500 / A 50 L/A 50 EOO for larger boiler service Food may be for wohlar A 500 Food m	The state of the s		
Air Temperature Probe 185 mm with 1.7 m cable 5521 J 260 mm with 1.7 m cable 5511 J 270	HUNLEN	Air Temperature Plug	5517 J
Tor Wellier A 450 / A 550	Oma Se		00.1.0
Tor Wellier A 450 / A 550		Air Temperature Probe	
Probe			
Probe 250 mm with 1.5 m hose for Wollier A 450 / Wollier A 450 / A 450 L/A 450 ECO 1.5m triple hose assembly for larger boiler service Hose Assembly for Wollier A 450 / A 450 L/A 450 ECO 1.5m triple hose assembly for Wollier A 450 / A 450 L/A 450 ECO 1.5m triple hose assembly for Wollier A 450 / A 450 L/A 450 ECO 1.5m hose without flue gas probe Gas Probe Soo mm 9614 J 255 mm 9622 J 180 mm 9613 J 130 mm 9613 J 130 mm 9652 J Flexible Probe 300 mm Clamping Cone stainless steel, to stabilize the gas probe in the flue pipe for probes 0 8 mm PTFE Cone to stabilize air temperature probes in openings 0 10 - 15 mm for probes 0 8 mm stainless steel Threaded cone for protose 0 8 mm stainless steel for CO measurements on combustion engines CHP filter CO measurements on combustion engines Threaded cone for Protose 0 8 mm stainless steel for British Wilter Wollier TO 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries Thermal Paper 57 mm width 12 m long, 10 rolls for thermal Paper 57 mm width 12 m long, 10 rolls for thermal pinter Wollier TD 100, TD 800 Charger			5521 J
250 mm with 1.5 m hose for Wohler A 450 mm with 1.5 m hose for Wohler A 450 mm with 1.5 m hose assembly Extension for Wohler A 450 L/A 450 ECO 1.5 m triple hose assembly for larger boiler service Hose Assembly for Wohler A 450 mm m m m m m m m m m m m m m m m m m		280 mm with 1,7 m cable	5511 J
For Wohler A 450 We have Assembly Extension for Wohler A 450 L/X 450 ECO 1.5m triple hose assembly for larger boiler service Assembly for Wohler A 450 1.5 m hose without flue gas probe Gas Probe 500 mm 9614 J 295 mm 9622 J 180 mm 9652 J 180 mm 9652 J Flexible Probe 300 mm Clamping Cone stainless steel, to stabilize the gas probe in the flue pipe for probes 0 8 mm PTFE Cone to stabilize air temperature probes in openings Ø 10 - 15 mm for probes Ø 8 mm stainless steel CHP filter CO measurements on combustion engines Filter Granulate 100 ml for BHKW Filter Wöhler TD 100 Thermal Fast Printer infrared printer with 1 roll thermal paper and four batteries Thermal Paper 57 mm width, 12 m long, 10 rolls for thermal printer Wohler TD 100, TD 600 Charger 5502 J			4498 K
Hose Assembly Extension for Wohler A 450/L A 50L L/A 450 ECO 1.5m triple hose assembly for larger boiler service Hose Assembly for Wohler A 450 1.5 m hose without flue gas probe Gas Probe 500 mm 9614 J 295 mm 9622 J 180 mm 9613 J 130 mm 9613 J 130 mm 9613 J 130 mm 9652 J Flaxible Probe 300 mm 9652 J Flaxible Probe 300 mm 9652 J Flaxible Probe 3242 J 344 K stainless steel, to stabilize the gas probe in the flue pipe for probas 0 8 mm PTFE Cone to stabilize air temperature probes in openings 0 10 - 15 mm for probas 0 8 mm Threaded cone for probas 0 8 mm Stainless steel Flitter Granulate 100 ml for BHKW Filter CO measurements on combustion engines Thermal Paper 57 mm width, 12 m long, 10 rolls for thermal printer Wohler TD 100, TD 600 Charger 5502 J			
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CHP filter CO measurements on combustion engines Filter Granulate 100 ml for BHKW Filter Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries Thermal Paper 57 mm width, 12 m long, 10 rolls for thermal printer Wöhler TD 100, TD 600 Charger 5523 J 4398 J 4160 I		·	
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Infrared printer with 1 roll thermal paper and four batteries Thermal Paper 57 mm width, 12 m long, 10 rolls for thermal printer Wöhler TD 100, TD 600 Charger 5502 J			
Infrared printer with 1 roll thermal paper and four batteries Thermal Paper 57 mm width, 12 m long, 10 rolls for thermal printer Wöhler TD 100, TD 600 Charger 5502 J		Wöhler TD 100 Thermal Fast Printer	4160 I
57 mm width, 12 m long, 10 rolls for thermal printer Wöhler TD 100, TD 600 Charger 5502 J			41001
57 mm width, 12 m long, 10 rolls for thermal printer Wöhler TD 100, TD 600 Charger 5502 J			
for thermal printer Wöhler TD 100, TD 600 Charger 5502 J	•2		4145 I
Charger 5502 J			
		·	
			5502 J

Accessories Wöhle	r A 450	Article no.
WOHLER	Plastic case MIDI for Wöhler A 450 L	6594 J
WOHLER	Plastic case MAXI for Wöhler A 450	4704 J
	Backpack for Wöhler A 450 / A 550	5101 J
0	Servicebag Wöhler A 450 / A 450 L / A 450 ECO	4734 K
80	Water Stop Filters pack with 3 pieces	9621 K
13.	Coarse Filters pack with 5 pieces	9632 K
E E	Wadding Filters pack with 150 pieces	4288 K

Sensors for self-installation for Wöhler A 450 L A 450 A 450 H Flue Gas Analyzer	Article no
0₂ sensor for all Wöhler A 450 versions	8963 C
field replaceable	
CO sensor 5.000 ppm	8964 C
for Wöhler A 450 L 5.000 ppm	
field replaceable	
CO sensor 10.000 ppm not H ₂ compensated	8967 C
for Wöhler A 450	
field replaceable	
CO sensor 10.000 ppm H ₂ compensated	8966 C
for Wöhler A 450H	
field replaceable	
CO sensor 100.000 ppm	8965 C
for Wöhler A 450 L 100.000 ppm	
field replaceable	
NO sensor 3.000 ppm	8969 C
for all Wöhler A 450 versions	5555 5
field replaceable	
Checking Charge	439 X
for Wöhler A 450 / A 550	100 /1

Order Form

Product	Basic	Standard	Professionell	Qty.
Wöhler A 450 L - CO 5,000 ppm	□ 4503 J	□5102 J	□ 5157 J	
Wöhler A 450 L - CO 5,000 ppm with NO	□ 4703 J	□ 5709 J	□ 5710 J	
Wöhler A 450 L - CO 100,000 ppm	□ 4672 J	□ 5158 J	□ 5159 J	
Wöhler A 450 L - CO 100,000 ppm with NO	☐ 4979 J	□ 5166 J	□ 5179 J	
Wöhler A 450 - CO 10,000 ppm	□5181 J	□ 5189 J	□ 5340 J	
Wöhler A 450 - CO 10,000 ppm with NO	□ 5341 J	□ 5343 J	□ 5345 J	
Wöhler A 450 H - CO 10,000 ppm	□ 7165 J	□ 7166 J	□ 7185 J	
Wöhler A 450 H - CO 10,000 ppm with NO	□7183 J	□7184 J	□ 7186 J	

Billing address	/customer	Delivery address (if different to billing address)
Company .		Company
Name .		Name
Street/house no.		Street/house no
ZIP code/City		ZIP code/City
Country		Country
Telephone		Fax
Mobile .		E-Mail
Customer number		
Date	Signature or company stamp	

Your contact

ui	ED
	.SN

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