



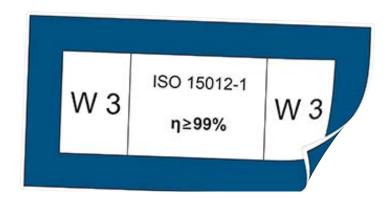
GL series



Assurance in occupational and health safety

Welding fumes and dusts from related processes are easily handled by this system. The Institute for Occupational Safety and Health (IFA) has specifically tested them in accordance with DIN ISO 15012-1 (2013) and 15012-4 (2016). It fulfils the protection level for safe extraction and filtering required by the TRGS 528 Di-

rective. High safety requirements are thus met. Smoke, vapours or dusts with particles in the micrometer range are safely filtered out of the air. Awarded W3 and the DGUV seal, the system offers triple protection for humans, environment and machinery, and is accordingly listed on the "IFA positive list".







Low noise and energy saving







The GL series, as "Green Line", stands for especially environmentally friendly. We have developed this series especially with environmental protection in mind, so that it consumes less electricity than conventional extraction systems.

The energy-saving and noise-reduced blowers used (approx. 55 db(A)) are hardly noticed in noise-sensitive environments such as laboratories and offices. Energy savings of up to 65% are possible.





Modular and flexible



The compact and modular design ensures easy adaptation of the filter equipment depending on the process. Depending on the application, the GL series can

be equipped with different modules to optimize filter costs. In case of application changes, later adaptation of your filter and extraction system is also possible.



High adsorption power



Active carbon

The adsorption of the gaseous substances takes place with activated carbon granules (physical adsorption).

It collects a very wide range of gases and odors.

If requested, special mixtures are possible that are adapted to each customer's process. For more info ask our TBH sales team.

Draws off every harmful particle



Pollutants do not stand a chance



- Low-contamination dust disposal
- Molecular sieve against gaseous pollutants
- Piping / Flexible hose / Extraction arm
- Air-recirculation or exhaust-air pipe

Tool-free filter changing



Simple filter removal



- Swift and smooth changing
- No special knowledge required
- Easy handling
- No tools required
- Time-saving



Inspiring checking



Always full control over the system



- A Start / Stop button
- B Manual power control
- 1 Saturated filter notification
- 2 System status indication
- 3 Power-setting indication/Hour meter
- 4 Temperature and turbine-status indication
- 5 Filter-statusindication

Sub-D 25 interface



External control of the system



Powerful control unit

- Start / Stop button
- "Filter full" pre-warning stage (75%)
- Group-error output (speed, temperature, "filter full" 100%)
- External power control
- Parameterization access for activating special functions
- Message cache
- Digital interface (RS232)

Further information on the series



Scan QR code:



Applications





Laser technology

Lasers are used for processing metals, woods and plastics. Due to this versatility, companies are intensively involved in laser technology. This not only increases efficiency, but also creates unwanted by-products, regardless of type and performance. TBH systems ensure safe extraction of fine dust and laser fumes.





Soldering

Soldering connects two different materials by melting. Tin solder being used releases additives that have harmful effects on the respiratory organs. Depending on the soldering application (manual or automated), a suitable filter and extraction system must therefore be used.





Welding/Grinding/Cutting

Welding, grinding and cutting processes result in very fine particles from the surfaces being worked. These dangerous substances settle in the lungs and can lead to permanent inability of the respective employee to work. To prevent this from happening, welding fumes must be efficiently extracted. This is demanded by the legal authorities in TRGS528. TBH GmbH therefore offers a large number of systems with W3 / DGUV approval.





Electronics

Manufacturers of electronic products work with small or tiny elements. Highly-toxic materials such as arsenic or phosphorus are often used to modify the properties of semiconducting substances. Solvents are used for removing contaminants on microchips; these pollute the environment and are harmful for employees.



Work processes with vapours/gases

Gases are much more difficult to separate than solid particles. Due to their chemical structure, they can pass through most filters without any problems. Special filters are required to extract gases correctly and reliably.







Plastics processing

Almost every industry today processes plastics. TBH systems are exactly the right solution for the safe extraction and filtration of grinding dusts and vapours that occur during the processing of plastics. Be convinced by our quality.





Textile processing

Clothing can lose small lint and thread particles. These are so light that they can hover in the air of enclosures, and any motion continuously whirls them up. A high concentration of these airborne fibres is present particularly in the processing of textiles. There are also chemicals used for dyeing clothing, which are usually harmful to health and therefore need to be extracted.





Technical glass

Glass production results in great heat. The high temperatures required for melting glass cause gases containing large quantities of environmentally-hazardous substances to rise. In the course of the acid polishing, the hot or cold final layer releases tin or titanium chlorides, such as hydrofluoric acid and sulphuric acid. These substances must be drawn off, as they are harmful to one's health.





Refilling work, packaging processes, feeding and conveying processes

When materials are moved from one place to another, such as during packaging or transportation, this process can cause particles to be released. Especially since they are not visible to the human eye, the risk should not be underestimated. Particles can develop from turbulences. TBH filter and extraction systems safely remove these particles from the ambient air.

Technical data GL 230 ZA







Delivery scope:

- Completely assembled (incl. the selected filter equipment)
- 4 castors for mobile use
- Power cord

Illustration similar

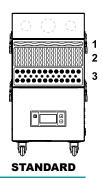
TECHNICAL DATA	UNIT	STANDARD	A	Z	ZA
Air volume flow with free air delivery	m³/h	max. 350	max. 350	max. 350	max. 350
Effective air volume flow	m³/h	100-300	100-300	100-300	100-300
Max. static pressure	Pa	6000	6000	6000	6000
Voltage	V	100-240	100-240	100-240	100-240
Frequency	Hz	50/60	50/60	50/60	50/60
Motor output	kW	0.6	0.6	0.6	0.6
Class of protection	-	1	1	1	1
Drive type	-	Continuous running			
Sound level	db(A)	approx. 53	approx. 53	approx. 53	approx. 53
Serial interface	Sub-D	25-pin	25-pin	25-pin	25-pin
Weight	kg	approx. 45	approx. 45	approx. 45	approx. 65
Dimensions(HxWxD)	mm	700x350x440	700x350x440	785x350x440	1025x350x440
Intake sleeve NW 50	Quantity	2	2	2	2
Intake sleeve NW 80	Quantity	1	1	1	1
Intake sleeve NW 100	Quantity	1	1	1	1
Color	RAL	7035	7035	7035	7035

FIL	TER CONFIGURATION				
	Pre-filter mat M5 (ISO ePM, > 50%)	✓	✓	-	-
Z ⁺	Z-Linepanel plus filter F7 (ISO ePM, 50-65%, ePM _{2.5} 65-80%, ePM ₁₀ > 85%)	-	-	✓	✓
	Particle filter H13	✓	-	✓	✓
A	activated carbon filter	10 liters	18 liters	-	18 liters



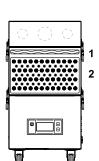
Ordering data GL 230





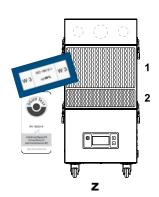
DESIGNATION	ART. NO.
GL 230 100-240V 50/60 Hz	90140

SPARE FILTER		
Pre-filter mat	10040	1
Particle filter	10013	2
activated carbon filter	10004	3



DESIGNATION	ART. NO.
GL 230 100-240V 50/60 Hz	90142

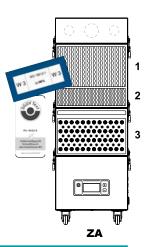
SPARE FILTER		
Pre-filter mat	10040	1
Particle filter	-	
activated carbon filter	10007	2



DESIGNATION	ART. NO.
GL 230 100-240V 50/60 Hz	90144

^{*} more on W3, see catalog page 2

SPARE FILTER		
Z-Linepanelplus filter	16199	1
Particle filter	10013	2
activated carbon filter	-	



DESIGNATION	ART. NO.
GL 230 100-240V 50/60 Hz	90146

^{*} more on W3, see catalog page 2

SPARE FILTER		
Z-Linepanelplus filter	16199	1
Particle filter	10013	2
activated carbon filter	10007	3

HUMANS / ENVIRONMENT / MACHINERY

Technical data GL 265







Delivery scope:

- Completely assembled (incl. the selected filter equipment)
- 4 castors for mobile use
- Power cord

Illustration similar

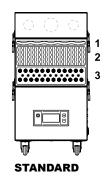
TECHNICAL DATA	UNIT	STANDARD	A	Z	ZA
Air volume flow with free air delivery	m³/h	max. 350	max. 350	max. 350	max. 350
Effective air volume flow	m³/h	100-300	100-300	100-300	100-300
Max. static pressure	Pa	6000	6000	6000	6000
Voltage	V	100-240	100-240	100-240	100-240
Frequency	Hz	50/60	50/60	50/60	50/60
Motor output	kW	0.6	0.6	0.6	0.6
Class of protection	-	1	1	1	1
Drive type	-	Continuous running			
Sound level	db(A)	approx. 55	approx. 55	approx. 55	approx. 55
Serial interface	Sub-D	25-pin	25-pin	25-pin	25-pin
Weight	kg	approx. 70	approx. 70	approx. 70	approx. 90
Dimensions(HxWxD)	mm	750x350x655	750x350x655	835x350x655	1105x350x655
Intake sleeve NW 50	Quantity	3	3	3	3
Intake sleeve NW 100	Quantity	2	2	2	2
Intake sleeve NW 125	Quantity	1	1	1	1
Color	RAL	7035	7035	7035	7035

FIL	TER CONFIGURATION				
	Pre-filter mat M5 (ISO ePM, > 50%)	✓	✓	-	-
Z ⁺	Z-Linepanel plus filter F7 (ISO (ISO ePM, 50-65%, ePM ₂₅ 65-80%, ePM ₁₀ > 85%)	-	-	✓	✓
	Particle filter H13	✓	-	✓	✓
Α	activated carbon filter	26 liters	45 liters	-	45 liters

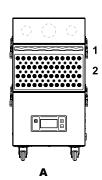


Ordering data GL 265





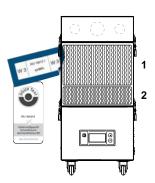
DESIGNATION	ART. NO.
GL 265 100-240V 50/60 Hz	90136



DESIGNATION	ART. NO.	
GL 265 100-240V 50/60 Hz	90151	

SPARE FILTER		
Pre-filter mat	10001	1
Particle filter	10009	2
activated carbon filter	10046	3

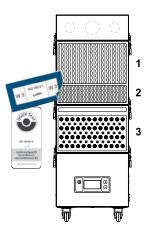
SPARE FILTER		
Pre-filter mat	10001	1
Particle filter	-	
activated carbon filter	12052	2



DESIGNATION	ART. NO.
GL 265 100-240V 50/60 Hz	90153

^{*} more on W3, see catalog page 2

SPARE FILTER		
Z-Linepanelplus filter	16360	1
Particle filter	10009	2
activated carbon filter	-	



	ZA
DESIGNATION	ART. NO.
GL 265 100-240V 50/60 Hz	90155

^{*} more on W3, see catalog page 2

SPARE FILTER		
Z-Linepanelplus filter	16360	1
Particle filter	10009	2
activated carbon filter	12052	3

HUMANS / ENVIRONMENT / MACHINERY

Electronic control system



FUNCTION	GL 230	GL 265
Start / Stop button	✓	✓
Manual output control	✓	✓
Saturated filter notification (complete system)	✓	√
Indication of filter status	✓	✓
Indication of system status	✓	√
Indication of power setting/hour meter	✓	√
Indication of temperature and turbine error	√	√

INTERFACE FUNCTION			
Interface	Sub-D	Sub-D	
Start / Stop button	✓	✓	
Pre-warning, filter saturated to 75%	✓	✓	
Visual and audible indication of filter saturated	✓	✓	
Group-error output (speed, temperature, "filter full" 100%)	✓	✓	
External power control	✓	✓	
Message cache	✓	✓	
Parameterization access for activating special functions	✓	✓	

Accessories







USE	DESIGNATION	CABLE LENGTH	ART. NO.
GL 230 / 265	USB connection cable	1.5 meters	16455

DELIVERY SCOPE: Connection cable (incl. software)



CABLE REMOTE CONTROL

USE	DESIGNATION	CABLE LENGTH	ART. NO.
GL 230 / 265	Cable remote control	7 meters	16477

FUNKTIONS:

- Indication "Filter saturated"
- Run/Stand-by switch-over
- Speed control
- Switch-on status of the system: Stand-by operation

DELIVERY SCOPE: Remote control (incl. cable)

HUMANS / ENVIRONMENT / MACHINERY



Harting option





HARTING MAINS CONNECTION

USE	DESIGNATION	ART. NO.
GL 230/ 265	Mains connection Harting option	*17036

^{*} GL 265: except for 120V version".



INTERFACE HARTING

USE	DESIGNATION	ART. NO.
GL 230/ 265	Interface Harting option	15719



USB CONNECTION HARTING

USE	DESIGNATION	CABLE LENGTH	ART. NO.
GL 230 / 265	USB connection cable Harting	1.5 meters	16466

DELIVERY SCOPE: Connection cable (incl. software)



ELECTRIC FOOT SWITCH

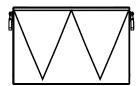
USE	DESIGNATION	CABLE LENGTH	ART. NO.
GL 230 / 265	Electric foot switch	2 meters	16369

FUNKTIONS:

- Start / Stop button
- Switch-on status of the system: Stand-by operation

DELIVERY SCOPE: Foot switch (incl. cable)





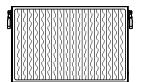
Pocket filter M5/M6

FILTER-HOUSING MODULE*T AS UPGRADE KIT- pocket filter

To expand the filter surface / service life of the system for coarse dusts.

USE	FILTER CLASS	UPGRADE KIT	SPARE FILTER
GL 230	Pocket filter M5/M6	12938*	12738
GL 265	Pocket filter M5/M6	12739**	12740

^{*} additional height 300 mm ** additional height 300 mm

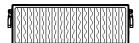


Z-LinepanelPlus-Filter F7

FILTER-HOUSING MODULEZ* AS UPGRADE KIT - Z-Linepanel/plus filter

To expand the filter surface / service life of the system for medium/fine dusts.

USE	FILTER CLASS	UPGRADE KIT	SPARE FILTER
GL 230	Z-LinepanelPlus-Filter F7	16367*	16199
GL 265	Z-LinepanelPlus-Filter F7	16368**	16360

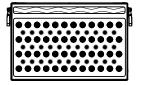


Particle filter H13

FILTER-HOUSING MODULE* AS UPGRADE KIT - Particle filter

USE	FILTER CLASS	UPGRADE KIT	SPARE FILTER
GL 230	Particle filter H13	14728*	10013
GL 265	Particle filter H13	14729*	10009

^{*} additional height 85 mm

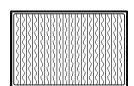


Pre-filter mat M5 activated carbon filter

FILTER-HOUSING MODULE AS UPGRADE KIT - Activated carbon filter

USE	FILTER CLASS	UPGRADE KIT	SPARE FILTER
GL 230	18 liters	12114*	10007
GL 265	45 liters	12112**	12052

^{*} additional height 235 mm ** additional height 265 mm



Police filter H14

FILTER-HOUSING MODULE - Police filter

- Police-filter function e.g. in case of filter rupture or in environments with high safety requirements
- Is strapped to the outlet of the system*

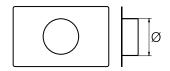
USE	FILTER CLASS	UPGRADE KIT	SPARE FILTER
GL 230 / GL 265	Police filter H14	15634	14179

 $^{^{\}star}$ no filter monitoring available, reduces the air flow rate of the system by approx. 10 %.

HUMANS / ENVIRONMENT / MACHINERY







AIR OUTLET PLATE

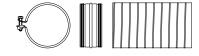
USE	NW (mm)	ART. NO.
GL 230 / GL 265	100	12839
GL 230 / GL 265	125	12232
GL 230 / GL 265	160	13325

^{*} Connection plate with socket for specific air discharge via hose

BRACKET for extraction arm

USE	NW (mm) ART. NO.		
GL 230	63	14128	
	75	13192	
GL 265	5 63		
	75	13195	
	100	13196	

AIR INLET - flexible connection hoses



DESIGNATION	NW (mm)	LENGTH (m)	ART. NO.
		2.5	13179*
		2.5	13729**
	80	5.0	13180*
		5.0	14600**
Hose set with nipple and hose clamps	100	2.5	13181
		5.0	13182
		10.0	13198
	125	2.5	13183
		5.0	13184
		10.0	13199

^{*} for GL 230 ** for GL 265 (with reduction from NW 100 to NW 80)





SPARK EXTINGUISHER (Use in piping)

USE	AIR VOLUME	Ø d (mm)	ART. NO.
GL 230 / 265	150-300 m³/h	63	16649

ATEX approval according to EN1834

Installation: Depending on the application and size, the spark extinguishers can be installed on the wall or on a worktable using a special holder (incl. magnets, included in delivery scope) or with pipe clamps (please order separately).



SPARK EXTINGUISHER (mounted on system cover)

USE	AIR VOLUME	Ø d (mm)	ART. NO.
GL 230	150-300 m³/h	63	16647
GL 265	150-300 m³/h	63	16648





SPARK EXTINGUISHER (mounted on system cover - extraction arm)

USE	AIR VOLUME	EXTRACTION ARM	ART. NO.
GL 230	150-300 m³/h	System 50	16699*
GL 265	150-300 m³/h	System 50	16715*
GL 265	150-300 m³/h	System 75	16704*

*Extraction arm and base tube not included in delivery, please order separately. (See accessories catalog)

ATEX approval according to EN1834

Installation: Spark extinguisher incl. base box for Alsident extraction arm is supplied mounted on system lid.

The base tube of the separately ordered extraction arm can be screwed on directly.







FILTER-RUPTURE MONITORING DEVICE

USE	Ø d (mm)	ART. NO.
GL 230 / GL 265	100	16651



SIGNAL MODULE

USE	ART. NO.
GL 230 / GL 265	16621



MACHINE BASE

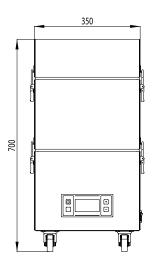
USE	DIMENSIONS (HxWxD) mm	ART. NO.
GL 230	30x550x550	16353
GL 265	30x550x700	16721



FLOW-RATE MONITORING DEVICE

USE	Ø d (mm)	ART. NO.
GL 230 / GL 265	80	16642
GL 230 / GL 265	100	16643

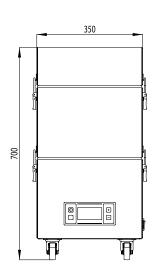


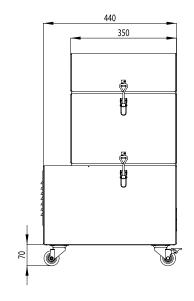


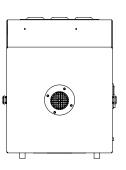
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GL 230 STANDARD



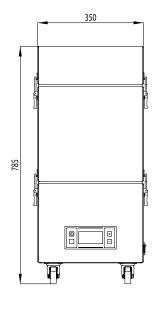


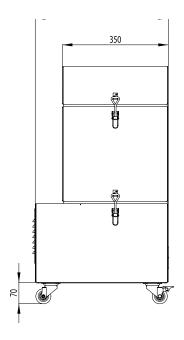


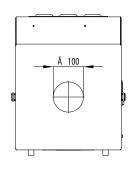
GL 230 A



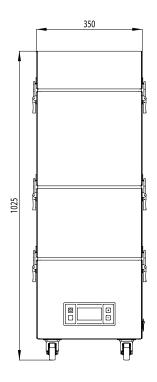




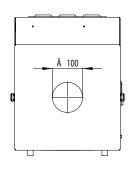




GL 230 Z

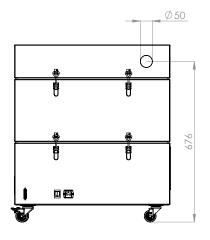


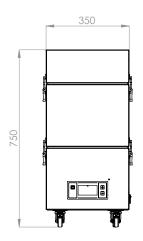
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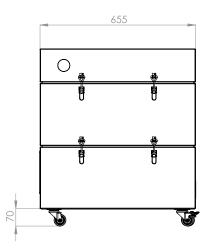


GL 230 ZA

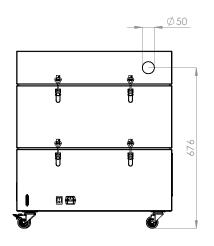


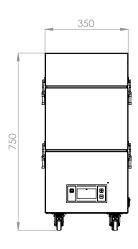


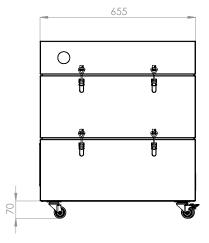




GL 265 STANDARD



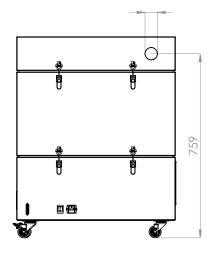


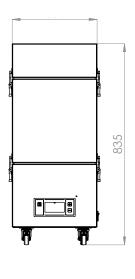


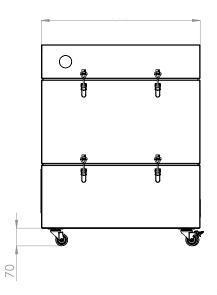
GL 265 A



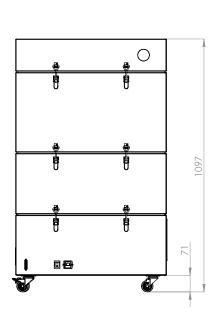


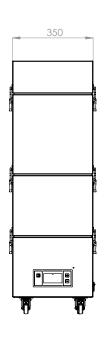


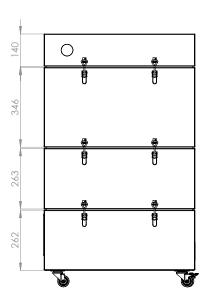




GL 265 Z







GL 265 ZA

HUMANS / ENVIRONMENT / MACHINERY

21



FILTER / EXTRACTION / ENVIRONMENTAL // TECHNOLOGY

