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FT LASERLINE Series



NEW INNOVATION



Mobile Fume Extraction Filter Systems for Laser Applications



WellerFT – worldwide leader in work environment emission control

The merger of two worldwide leading specialists for Fume Extraction Filter Systems sets new standards in personnel, machine and environment protection at work areas. **Weller Tools GmbH** located in Besigheim/Germany has been well known for over 50 years for trend-setting solutions in soldering technology and for extracting and filtering thereby caused emissions.

Filtronic AB based in mid-swedish Lidköping has a 25 years excellent international reputation of being one of the most important manufacturer and developer of high-quality mobile filter systems for various applications.

WellerFT combines the competences of both companies under this new brand name. Manufacturer and operators are being offered a wide range of Filter Extraction Systems “Made in Germany” for electronics, industrial and medical lasers as well as for laboratories and cosmetics.

As a part of the US-American **Apex Tool Group** with approx. 7.600 employees in more than 30 countries, WellerFT disposes of the know-how, the production capacities and the logistic of a worldwide operating enterprise. And also profits from the advantages of long lasting spare parts guarantee and just-in-time-deliveries around the globe.



Laser application without extraction

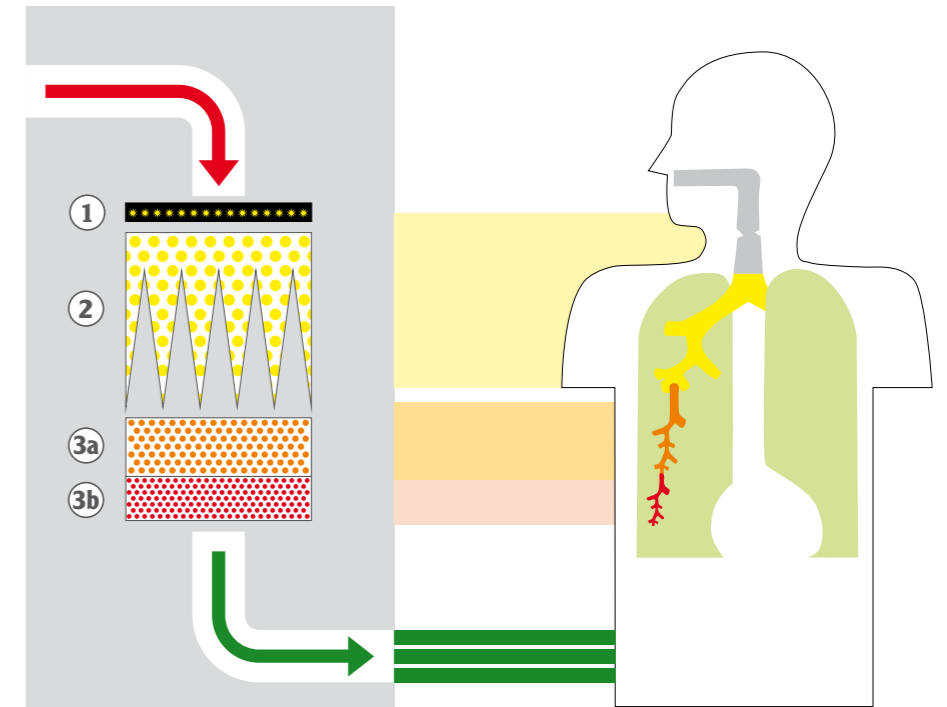
Dust pollution

Laser application with extraction



4-stage filter system, emission free breathing.

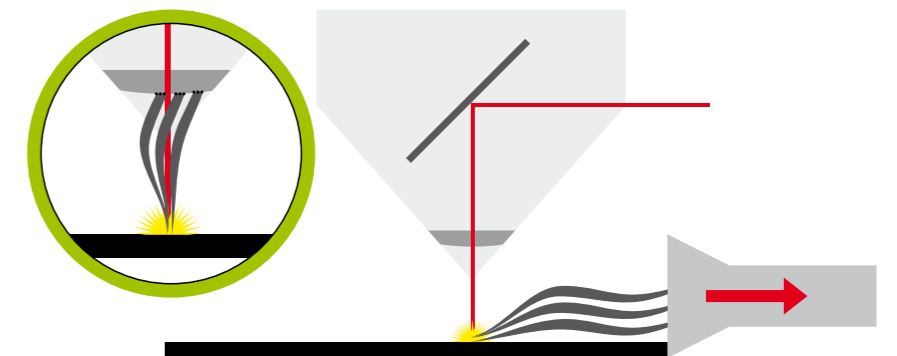
- 1) Spark trap
LL 200 V and LL 400 V
- 2) Pre-filter up to 10 sqm
- 3) Compact filter consists of
 - 3a) EPA filter E12 EN 1822
 - 3b) Wide band gas filter



Emission protection – right at the source

In all application areas where laser tools are being used, the emission of particles and gases is unavoidable. The diffusion of the produced emissions however has to be prevented as they are hazardous to health and can also settle as damp on sensitive components. This can damage the function as well as the durability of the work part. The product produced will be prevented from being contaminated.

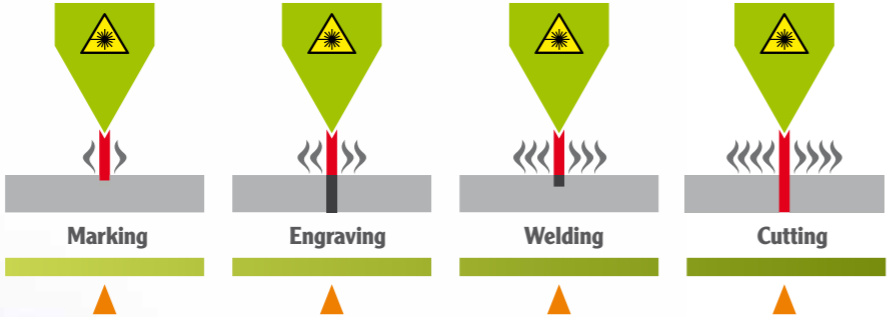
WellerFT Laserline filter systems made of high-quality components, have been specifically developed to extract hazardous emissions right at the source. The lens of the laser is protected from being damaged and harmful substances are prevented from diffusing in the environment. The innovative filter system separates fine dust and gases in four stages and recirculates only completely cleaned air into the work area. A substantial contribution to observe legal regulations regarding clean air at the work environment that operator and valuable technology profit from.



Best protection for technology: Extraction right at the source

Unbelievably quiet – astonishingly multi-functional

WellerFT offers with its Laserline series mobile fume extractions for all kinds of laser applications. All systems are retrofitable with special filters for clean-room or for the use of inkjet printers. WellerFT Laserline filter systems have one more crucial advantages. They are the quietest in the world.



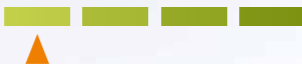
WellerFT Laserline – efficient and effective in industrial laser application:

	LL 150	LL 200 V	LL 250	LL 400 V	LL 450
Max. extraction performance with standard filter, m³/h (CFM)	100 (58,8)	160 (95)	250 (147)	400 (235)	400 (235)
Compressor performance, m³/h (CFM)	140 (82,3)	230 (135)	310 (182)	645 (380)	645 (380)
Max. vacuum PA	2000	2700	3000	3000	3000
Operating sound level from 1 m distance, dB	< 44	< 46	< 49	< 49	< 49
HEPA Class Micro Filter, separation degree, MPPS %	> 99,997	> 99,997	> 99,997	> 99,997	> 99,997
Gasfilter-Chemisorption, separation degree, %	> 99,96	> 99,96	> 99,96	> 99,96	> 99,96
Power, W	100	200	300	360	300
Operating voltage, V	115/240	115/230	115/230	115/230	115/230
Height, mm (inch)	680 (26,4)	700 (27,4)	1016 (40,0)	1020 (40,1)	1016 (40,0)
Width, mm (inch)	340 (13,4)	320 (12,6)	400 (15,7)	441 (17,4)	796 (31,3)
Depth, mm (inch)	340 (13,4)	320 (12,6)	402 (15,9)	441 (17,4)	402 (15,9)
Weight, kg (lb)	18 (39,6)	21 (55,1)	43 (94,8)	51 (112,4)	68 (150,0)
Warranty, except filter, years	2	2	2	2	2
Pre-filter (class/surface m²)	F8 (0,24 m²)	F7 (0,45 m²)	F8 (0,61 m²)	F7 (2,0 m²)*	F8 (1,7 m²)*
Operating air temperature 0–50°C (32–122°F)				*Optional: F7 (10 m²)	*Optional: F8 (4,6 m²)



LASERLINE 150

Effective and economic filter system for different laser applications with 3-stage filter, consisting of integrated pre-filter, bag F8 EPA-particle-filter class E12 and wide band gas filter. Acoustically and optical filter alarm.



LASERLINE 200 V

The latest filter system for laser emissions with integrated, spark trap, pocketfilter F7, EPA-particle-filter class E12, wide band gas filter, CFC constant flow control and acoustically/optical filter alarm.



LASERLINE 250

Powerful filter system against laser-smog from various medium dust volume. Pocket filter F8, 2 EPA filter E12 and wide band gas filter. Remote control connectable. Acoustically and optical filter alarm.



LASERLINE 400 V

Filter system for high dust volumes with spark trap, pocket filter F7, EPA filter E12, wide band gas filter, CFC constant flow control for constant extraction and acoustically and optical filter alarm. Optional: Connector for relay output.



LASERLINE 450

High-performance filter system for laser applications, with specifically high dust capacities pocket filter F8, 4 EPA filter E12, wide band gas filter, remote control connectable. Acoustically and optical filter alarm.



Intelligent solution – clever fume extraction filter systems that save costs

The equipment of WellerFT Laserline series is designed for highest efficiency – in every respect and in all application areas. Their innovative structure offers advantages compared to standard systems that pay in the long term, such as low operating and maintenance cost.

Separate filters, less wearing

Up to four separate filters with different permeability eliminate bigger particles in the pre-filter installed from above. The capacity of the two following fine filters is being preserved and their reliable function guaranteed on the long-term. Spark trap, pre-filter and compact filter are exchangeable. The efficiency of each filter component can be used to full capacity, without impairing the effect of the unit.

Intelligent control technology, full efficiency guaranteed

Generally multiple filter-systems tend to reduce their performance when already one filter is polluted. To avoid this efficiency loss WellerFT applies intelligent control technology. This control technology signalizes upcoming filter changes in advance with an acoustically and optical signal and at the same time accelerates the power of the low-maintenance EBM-Papst turbine, in order to guarantee continuous extraction volume. Hence the efficiency of the tool is 100% guaranteed during operation.



Better arguments – for permanent success

WellerFT Laserline offers more efficiency in emission control due to innovative technology. The advantages are obvious:

- **Constant Flow Control CFC, efficiency test via USB port (V versions only)**
- **Acoustically and optical filter alarm**
- **Brushless EBM-Papst turbine**
- **Thermal recycling of main filter possible**
- **Up to 3 separate filter components cause low operating costs**
- **Individually retrofitable with special filters**
- **Low energy consumption**
- **Interface via RS 232, optional potentialfree relay contacts**
- **Quietest extraction in the world**



Electronic control – automatically more safety

WellerFT Laserline tools dispose optionally of an electronic control system that offers additional safety. The system automatically switches off the laser when the filter capacity is used up or when the filter system is not ready for operation. Hence emissions cannot be diffused accidentally. The used control-software also serves as documentation of the operating system, so that running times and filter performance can be traced at any time – on request also via remote control.



Communication software for laser device via RS 232 interface and LAB view software. (LL 200 V and LL 400 V)



Remote control with hand device or PC software. Communication software via RS 232 to laser device. (LL 150, LL 250 and LL 450)



Wide range exhaust accessories.



Special filters on request.

