

Aebi MFH 5000



AEBI

Strong, nimble, versatile and well out in front when it comes to the environment and consumption.

When it comes to describing the Aebi MFH 5000, you can safely talk about “sweeping changes”. Don’t be deceived by its tank capacity of 5,000 l; it is compact and is highly versatile all year round. However, its biggest and most exclusive special feature is the virtually enclosed Koanda suction system which practically eradicates harmful emissions of fine dust. Aebi MFH sweepers specialize in this system. The most important properties of the Koanda are the air recirculation and the fact that a filter reduces emissions of fine dust. The service life potential of the Aebi MFH 5000 is high, unlike the running costs. Fuel and water consumption are low, even in dry conditions. The energy harnessed from the jet of air from the blower is even put to use. Exhaust gas and noise levels have been minimized. These are unquestionable benefits for anyone who has anything to do with the Aebi MFH 5000, be it the authorities, the drivers or the general public. It’s a good investment all round!



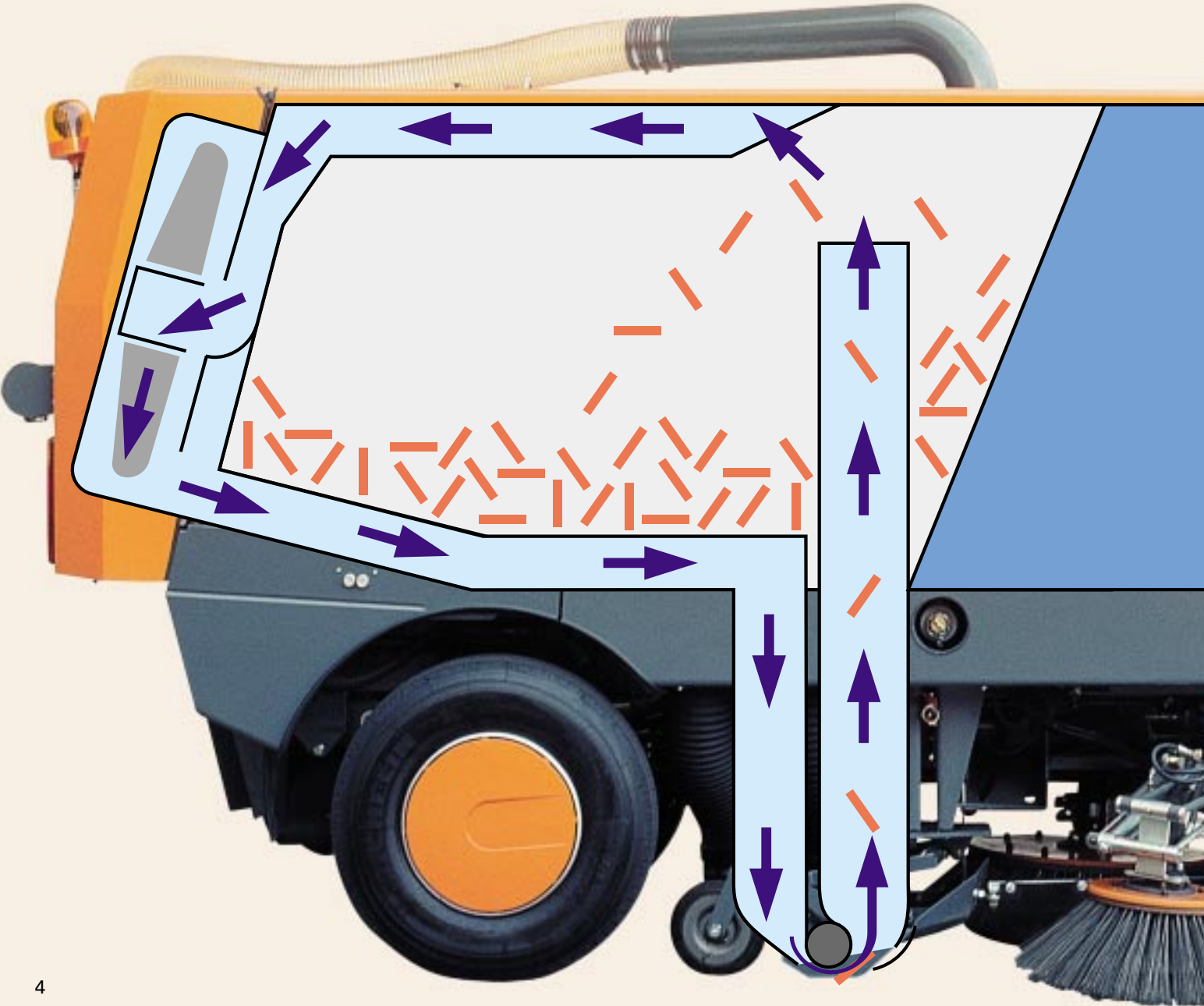
Thanks to its compact dimensions, the MFH 5000 road sweeper is very versatile. Its extraordinarily high suction capacity makes it an excellent sweeper. With its four-wheel steering, the MFH 5000 is ideally suited for cleaning work in tight city streets. It has a sweeping swathe of almost 3 m, enabling it to clean over a large area. It can sweep on both sides or be used to clean recesses on one side.

Thanks to its exclusively patented air recirculation system, the harmful emission of fine dusts which are inhaled into the lungs is reduced by up to 95%. The MFH 5000 – the clean road-sweeping machine.

Swiss know-how and experience are your guarantee that the MFH 5000 will last for years, although the running costs and fuel consumption are low. Exhaust gases, fuel consumption and noise have been minimized. Over 1,000 Aebi MFH sweepers demonstrate their reliability around the world every day.



Clean as a whistle, the exclusive patented Koanda blowing & suction system.



It takes conventional sweeping & suction systems loads of extra water to clean off larger particles of dirt in the refuse hopper. Until now, no filter system, which is used in practice, has been able to permanently prevent the escape of harmful ultra fine dust with particle sizes smaller than 10 PM without compromising on the function and performance of the sweeper. However, the patented "closed" Koanda blowing & suction system is very different. It solves one of the great ecological problems as it almost completely eradicates the output of fine dust. About 80% of

the dust-laden air remains in the "closed" system, is recycled back to the suction mouth and, thanks to its flow energy, makes it easier to loosen and take up the refuse. The remaining air is purified by a fine foam filter.

Pure genius, and practically maintenance free. And that's not all this suction system does:

For starters, the Koanda system:

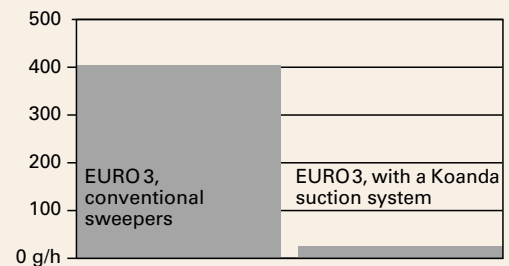
- reduces fuel consumption by up to 30%;
- the discharge of fine particles of dust, which can lead to lung problems, is reduced by up to 95%;
- reduces water consumption for wetting the refuse;
- reduces exhaust gas and noise emissions because the engine only works at a slightly raised idle speed.

What's more, this system also offers important advantages:

- much better suction and surface cleaning performance than conventional sweepers with comparable energy consumption;
- no unnecessary noise pollution for residents;
- no dirt caused by dust or dirty water being discharged;
- the sweeper is cheaper to run and lasts longer.



Particle output from sweepers



Easy to drive with an unrestricted view.

This unique, compact road sweeper boasts a wide range of functions. The Aebi MFH 5000 is also an excellent workspace, with its clearly arranged controls and virtually unrestricted view. The drive lever is the most important control feature and is easy to work. It is fitted with switches for the entire range of manoeuvres, including forward and reverse motion. The sprung seat and steering column can be adjusted, just like in any modern vehicle. Additional air feeds in through the fresh air blower or the optional air-conditioning system. All in all, anyone who climbs into the Aebi MFH 5000 will get out again feeling relaxed after hours of highly efficient work.



A clean and tidy solution to any problem.

From one solution to the next with a few simple actions. The Aebi MFH 5000 has more to offer than just basic functions. These examples show how good details and certain extras can improve road cleaning.



Optimum recess cleaning: The side brush can be extended and is hydraulically adjustable.



The sweeper can drive and work on staggered levels along narrow pavements.



Hugs corners: Thanks to its four-wheel steering, it has a minimum sweeping radius of 67 cm.



Highly effective (suction): Handheld suction hose for thick foliage and for gullies.



The Aebi MFH 5000 cleans containers, façades, signs, etc. at high pressure.



Triple bonus for winter service: snow plough, sweeper and four-wheel drive.



Wide working range: The front brush can be extended on either side and has a cleaning swathe ranging from just 90 cm to as much as 290 cm.



The front brush can be mounted on the shoulder and sweep the road at the same time. Not every sweeper can do that...

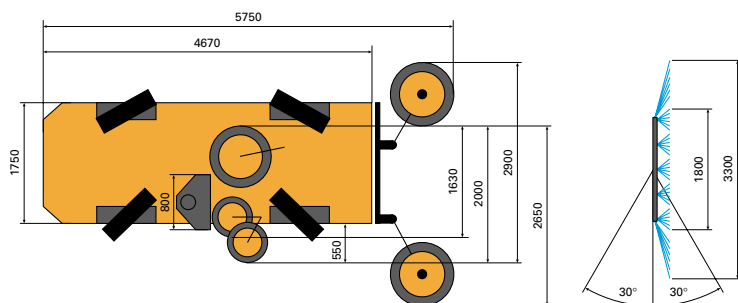


Gets from A to B quickly: The Aebi MFH 5000 travels along main roads at a none-too-slug-gish 62 km/h.

The MFH 5000 road sweeper

Vehicle and performance specification:

Length	467 cm
Length with front brush	575 cm
Width without brush	175 cm
Height	228 cm
Track width	153 cm
Gross weight	10,000 kg
Payload	5,000 kg
Refuse hopper	approx. 4,000 l
Engine	Iveco turbo diesel with charge-air cooling, Common Rail, EURO 3, 150 hp, max. torque 490 Nm at 1,200 revs/min
Transport speed	up to 50 km/h (62 km/h optional)
Sweeping width, variable	up to 200 cm
Sweeping width with front brush	up to 290 cm
Max. gradient	up to 35%
Flushing water	5,000 l
Electric water pump	2.8 bar, 12 l/min (standard)
Piston diaphragm water pump	20 bar, 150 l/min (optional)
Piston diaphragm water pump	50 bar, 120 l/min (optional)
High-pressure water pump	200 bar, 17 l/min (optional)
Water tank	1,000 l
Outer track circle radius	300 cm with 4-wheel drive 480 cm with front-wheel drive
Tipping height	110 cm
Working speed	up to 15 km/h
Orange or white paintwork	RAL 2011 / RAL 9010
Tires	9.5 R 17.5
Drive	Hydraulic on the rear axle 4-wheel drive (option)
Steering	Front Can be switched to 4-wheel drive (optional)
Driver's cab	Two-seater
Battery	24 V 176 Ah



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