

## AQUAZURA—MC 200



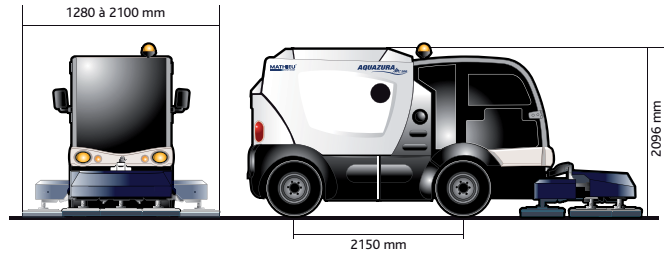
**AQUAZURA**  
*MC200*

The first **ECO-WASHER**<sup>®</sup>



*Spirit & Force of cleanliness*





The quiet and stylish AQUAZURA MC 200 has been created to provide a high efficiency total surface cleaning solution whilst still respecting the environment within which it works.

The AQUAZURA MC 200 cleaning system simultaneously achieves wetting, soaping, scrubbing, recovery and recycling of the waste water. All these actions combined into one machine ensure the AQUAZURA MC 200 is unrivalled in its abilities.

This **ECO-WASHING®** technology is capable of treating all types of surfaces using its non-aggressive process and with its low noise and exhaust emissions ensures it is a truly 'Clean Machine'.

With a wide range of applications, such as pavements, pedestrian zones, historical centres, parking areas, airports, etc. the AQUAZURA MC 200 proves itself to be an extremely versatile machine.



### A treatment for all types of surfaces

Whether it be Block or Slab paving, Asphalt, Natural Stone, Marble, Granite or Concrete and irrespective if the joints are plain, sand or cement, the AQUAZURA MC200 is suitable for any surface cleaning operation.

More than just a Washer, it is capable of scouring, degreasing, deodorizing, disinfecting and rejuvenating surfaces with a deep but gentle action, restoring the original finish and creating a cleaner world in a single pass.



### A high output

The 5 brushes (3 fixed brushes and 2 width adjustable) allow for a working width up to 2100 mm. With a clean water capacity of 1000 litres and low water consumption (6 times less than a conventional washer) combined with filtering and re-use of the collected water, the AQUAZURA MC 200 can achieve an uninterrupted working time cycle of up to 4 hours dependant on the surface being treated.



### It blends into the environment

A quiet machine that is respectful of the most demanding environmental requirements. The AQUAZURA MC 200 eliminates the problems of 'water splash' over pedestrians and shop fronts and can therefore be put into operation at anytime of day. The perfect solution to the undesirable daily soiling often encountered in city centres.



### After its action, a cleaner world

The water-detergent mix, its scrubbing action and the simultaneous recollection of the waste water allows a deep cleansing action of surfaces that are contaminated with grease and littered with solid waste. The combination of a powerful suction fan from a road sweeper, coupled with a 250 mm diameter suction tube, not only allows the collection of any solid or liquid waste but also to obtain a virtually dry floor.

An undeniable benefit to the general public who will appreciate the new found cleanliness and the resulting breath of fresh air. Seen as a revolution when it was first conceived, the latest AQUAZURA MC 200 takes surface cleaning to a new generation.

**EURO 5 or TIER III emissions :**  
2 types of power adapted to all climates and environments



### Data and Performance Information

Engine		Dimensions (see drawings above), Weight	
Brand/Model	VM R754 EU5 common rail Direct injection turbocharged and intercooled diesel engine	GVM	4500 kg.
Cubic capacity	2.970 litres	Maximum load front axle	2000 kg.
No. of cylinders	4	Maximum load rear axle	2500 kg.
<b>Capacities and Performance</b>			
Gross rated power	62 kW (83 bhp) @ 2300 rpm	Clean water capacity	1000 litres, stainless steel hopper
Maximum torque	270 Nm @ 1400 rpm	Fuel tank	70 litres
Legislation compliance	Meets Euro 5 emissions legislation Directive 2005/78/EC	Detergent tank	20 litres with automatic injector (VENTURI type) which enables precise proportion from 0 until 5%
Brand/Model	CUMMINS B3.3 Tier 3 Direct injection, turbocharged and intercooled diesel engine	Maximum speed	25/40/50 km/h
Cubic capacity	3.260 litres	Scrubbing speed	0-15 km/h
No. of cylinders	4	Steering	4 wheel steering in working mode
Gross rated power	60 kW (80 bhp) @ 2200 rpm	<b>Scrubbing and washing attachment</b>	
Maximum torque	304 Nm @ 1600 rpm	Front scrubbing head	5 independant and floating brushes made in Carborandum (or tyrex). 3 fixed brushes and 2 adjustable. Controlled from the cab
Legislation compliance	Meets EU Stage IIIA emissions legislation Directive 2004/26/EC	Scrubbing width	from 1280 to 2100 mm
		Suction squeegees width	1600 mm
		Suction tube diameter	250 mm
		Turbine air flow	13000 m³/h

Due to continuous development MATHIEU reserves the right to alter specifications without prior notice

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# MATHIEU®

FAYAT GROUP

## TECHNICAL SPECIFICATION

### **AQUAZURA - MC 200 STREET VACUUM SCRUBBER – CUMMINS ENGINE**



Washer – Street Scrubber – vacuum for pedestrian areas, car parks, airports, industries. Brushing of ground with a detergent solution, and surfaces drying by suction squeegees. The power of the turbine and the large diameter of the suction hose enable the suction of bulky waste too (papers, cans, gravel, metallic parts, etc...).

### **THE AQUAZURA : UNIQUE PRODUCT ON THE MARKET**

The idea was launched that a scrubber had to be able to recover dirty water :

- Environmental reasons
- Longer working time
- Combination of washing and sweeping
- Any kind of applications : airports taxiways – paved areas – sidewalks - squares – parking lots – industries – logistic platforms (trains stations, warehouses)...

Airport application: this machine has the capability to suck any kind of products: detergents, oils...and is very adapted to clean the surfaces where planes are parked. Moreover suction power as well as the diameter of the suction tube allows it to suck up big wastes (papers, bottles, cans, pieces of gravel, metallic parts...).

# 1. TECHNICAL SPECIFICATIONS

## ENGINE

- make and type : CUMMINS B3.3 Tier 3
- direct injection
- cubic capacity : 3.260 Litres
- fuel tank : 70 Litres
- gross rated power : 60kW (80bhp) @ 2200 rpm
- exhaust pipe with particles filter
- engine speed limited to 2,300 RPM working
- consumption : 7 Litre/hour

## SCRUBBER ATTACHMENT / SUCTION

- Front scrubbing head composed by 5 independent and floating brushes made in Carborandum. 3 fixed brushes and 2 adjustable brushes sideways by hydraulic jack from the cab (1 on the right and 1 on the left).
- Each brush is driven by a specific hydraulic engine
- Brushing width : from 1280 to 2100 mm
- The spraying through the centre of the brushes enables a good distribution of the detergent washing solution.
- Detergent tub of 30 litres with automatic measure (Venturi type) which enables precise proportion from 0 to 5 %
- Suction squeegees of dirty water on a 1600 mm width.
- Central suction nozzle, 600 mm width, with trap door for large waste particules
- Thanks to a suction hose of 250 mm the bulky waste particles are easily sucked up.
- Suction turbine 13,000 m<sup>3</sup>/h
- The sucked air is blown again through the grids made in stainless steel



## WATER CIRCUIT

- Clear water capacity 1000 litres
- Water pump 15 litres / minutes at 3 bars
- Equipped with an empty tank security.

## **CHASSIS**

- type : profiled, high resistance steel (E36)
- tyres : 205/75/14

## **DRIVE**

- forward travel : EMEQUATTRO rear axle with direct drive by hydraulic motor LINDE, cubic capacity : 105 cm<sup>3</sup>
- LINDE driving pump with axial pistons. Variable flow, cubic capacity : 105 cm<sup>3</sup>
- travel speed : from 0 to 15 km/h in work and from 0 to 50 km/h adjustable according to the legislation in the country
- steering : 4 steering wheels in work mode (hydraulic assistance), with mechanical blocking of the rear steering in travel mode

## **SUSPENSIONS**

- front : leaf springs 2 x 9
- rear : leaf springs 2 x 9

## **BRAKES**

- double piston disc brakes on front wheel (KNOTT System)
- hydrostatic brakes on rear wheels
- 2 hydraulically assisted high pressure circuits
- 2 pressure accumulators for the assistance with braking
- hydraulic parking brake on rear wheels

## **CAB**

- multi-adjustment suspension seat for driver
- ergonomics: vehicle control functions coupled to adjustable steering column, sweep controls by ergonomic joystick in left hand
- visibility: safety cabin fully glazed
- rear quarter panels for retrovision
- tinted safety windows (automobile homologation)
- optimal sound-proofing
- comfort: cabin suspended on silent blocks



## DIMENSIONS

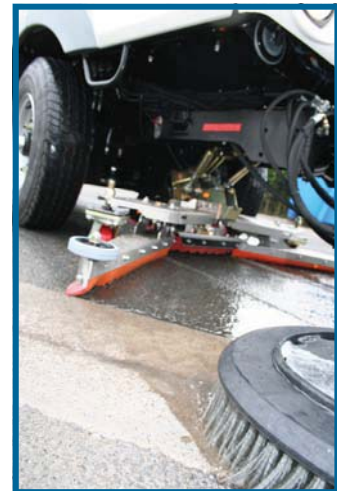
- turning radius between walls : 3200 mm
- turning radius between pavement : 2500 mm
- wheelbase : 2150 mm
- length : 5000 mm
- width : 1280 mm
- height : 2096 mm
- MALW : 4500 kg
- Ground clearance : 200 mm
- Gradeability : 25 %



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# ROSMECH

SWEeper SALES SERVICE SPARE PARTS CONTRACTING®



Azura Sweepers

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