

# Autonomous floor scrubber

# R-QUARTZ 80



Ride-on machine with traction



Power supply 24V/330Ah



Autonomy 6 h



Cleaning width 810mm



Solution/recovery tanks 100/106 l



Disc brushes 2x406 mm



Max brush pressure 52kg



Brush speed 160 tours/min



## STANDARD EQUIPMENT



3SD - Solution saving system Dispenser



TELEMATICS



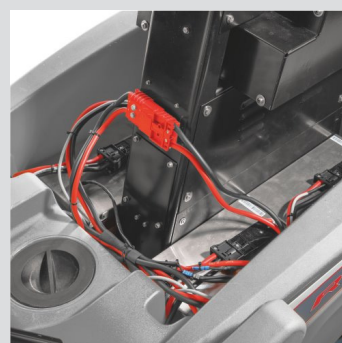
Lithium battery

## OPTIONAL



3SD + ozone combination

The R-Quartz 80 is the revolutionary autonomous floor scrubber that will profoundly transform industrial and commercial cleaning operations. This machine, which was developed in collaboration with Muratec, is based on our renowned and efficient Quartz line. This means that the R-Quartz 80 delivers excellent and high quality performances while staying as affordable as our best traditional floor scrubbers.



## TECHNICAL DATA

**Manufacturer:** Floorpul NV.  
**Registered Office:** Generaal Deprezstraat 10A  
8530 Harelbeke  
West-Vlaanderen - Belgium

<b>Theoretical productivity:</b>	<b>4710 m<sup>2</sup>/h</b>
<b>Squeegee width:</b>	<b>995 mm</b>
<b>Brush motors:</b>	<b>2x 350 Watt</b>
<b>Detergent tank capacity:</b>	<b>7 l</b>
<b>Traction motor:</b>	<b>500 Watt</b>
<b>Maximum gradient:</b>	<b>10%</b>
<b>Forward speed:</b>	<b>4,5 km/h max</b>
<b>Suction motor:</b>	<b>570 Watt</b>
<b>Depression:</b>	<b>160 mbar</b>
<b>Packaging dimensions:</b>	<b>L: 1540 mm</b>
	<b>(Without squeegee) W: 860 mm</b>
	<b>H: 1388 mm</b>
<b>Machine weight: (With Li batteries).</b>	<b>375 kg</b>
<b>Battery compartment (x2):</b>	<b>L: 535 mm</b>
	<b>W: 190 mm</b>
	<b>H: 325 mm</b>
<b>Class:</b>	<b>III</b>
<b>Protection grade:</b>	<b>IP 23</b>

## WELLBEING and COMFORT FOR THE OPERATOR



Sound pressure level L<sub>pa</sub>  
(In accordance with annex DD IEC/EN 60335-2-72)

**68 dB (A)**



Sound pressure level:  
In SILENT mode level 1

**66 dB (A)**



Sound pressure level:  
In SILENT mode level 2

**60 dB (A)**

## DECLARATIONS



Machinery compliant with the safety and quality standards required by current European legislation and supplied with an EC Declaration of Conformity



Machinery compliant with Regulation (EC) No. 1907/2006 (REACH) on the Registration, Evaluation, Authorisation and Restriction of Chemicals.



Machinery made with components that comply with Directive 2011/65/EU and 2015/863 (RoHS), which restricts the use of hazardous substances in electrical and electronic equipment.

## SECURITY SYSTEMS ACTIVE DURING AUTONOMOUS WORK

### LIDAR sensors

The R-Quartz 80 is equipped with 2 LIDAR sensors (1 at the front and 1 at the back), that create a precise horizontal image of the machine's surroundings (360° degrees around the machine, up to a distance of 30 metres and from a height of 200 mm). Thanks to these sensors, the machine can still perfectly see when turning. During learning mode, they record the followed route. This allows the machine to physically position itself and correct its course in the event it encounters unexpected conditions.

### Livox Mid-70

The front of the R-Quartz 80 is equipped with 2 3D LIDAR sensors that create a field of vision. Thanks to this field of vision, the machine can detect obstacles that are situated between 5 cm from the ground and the top of the machine. If it encounters such obstacles on its route, the machine will go around them and continue its trajectory.

### Ultrasound sensors

3 ultrasound sensors on the front and the side of the machine constitute an extra security measure against unidentified objects that are detected during the learning phase. These sensors can also detect translucent obstacles such as glass walls and windows.