



people & technology

# TECHNICAL DATA SHEET *ATOM SA*



## GENERAL FEATURES:

Mechanical sweeper with vacuum system for dust control.
Version: Petrol, Electric 24V
With operator in front
Refuse container in rear position with hydraulic lifting system
<i>Wheels: N°1 Front steering and drive, n° 2 rear (drive for electric version)</i>
<i>Working areas: Cleaning of medium, indoor and outdoor, private and public</i>

VERSION	Atom H SA	Atom E SA
	Petrol	electric

## PERFORMANCES

Max. cleaning capacity (with 2 side brushes)	m <sup>2</sup> /h	6875	6875
<i>Cleaning width:</i>			
Main brush	mm	700	700
Main brush + Right side brush	mm	950	950
Main brush + 2 side brushes	mm	1250	1250
Max. transfer speed	km/h	6,5	6,5
Max. reverse speed	km/h	4	3
Max. working speed	km/h	5,5	5,5
Max. working gradient	%	15	10
Max. gradient	%	18	12

<b>VERSION</b>		<b>Atom H SA</b> Petrol	<b>Atom E SA</b> electric
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### **NOISE LEVEL (EN 60704)**

Sound pressure level in operating position	dB(A)	78	71
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### **VIBRATION (ISO 2631/97)**

Frequency weighted acceleration value	m/s <sup>2</sup>	< 0,5	< 0,5
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### **BRUSHES**

Main brush, length	mm	700	700
Side brush, diameter	mm	390	390

### **DUST VACUUM SYSTEM**

Fan	n°/type	1/centrifugal	1/centrifugal
Fan, diameter	mm	230	230
Vacuum cut-off	type	mechanical	mechanical

### **DUST FILTERING SYSTEM**

Filtering system	n°/type	5/cartridges	5/cartridges
Filtering surface	m <sup>2</sup>	5	5
Filtering material	type	cellulose	cellulose
Dust filtering shaker with automatic closing	n°/type	1/electric 12V	1/electric 12V

### **REFUSE CONTAINER**

Refuse container capacity	lt	95	95
Emptying height	mm	1300	1300
Container Max. height	mm	1340	1340
Refuse container emptying	type	manual	manual

### **STEERING**

Steering wheel		on front wheel	on front wheel
Minimum "U"-turn space	mm	2500	2500

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### **ELECTRIC MOTORS**

<b>Drive motor</b>			
Make			Amer
Model	type		MRP9D
Nominal power	rpm n°/V/W		130 1/24/750
<b>Brushes rotation motors</b>			
Make			AMER
Model	type		MP80
Nominal power	rpm n°/V/W		2800 1/24/750
Total power	W		1500

### **BATTERY**

Quantity and capacity of the battery	n°-V-Ah		4/6/180
Battery dimension (length-width-height)	mm		240X190X285
Battery water	type	distilled water	distilled water
<b>Autonomy</b> (Caution! Autonomy depends on the type of battery and the use of the machine)			2h 40'

### **ENGINE**

Make			HONDA
Model	type		GX 160
Cylinders	n°		1
Bore	mm		68
Stroke	mm		45
Displacement	cm <sup>3</sup>		163
Max. Power	rpm kw/HP		3600 4 / 5,5
Max.setting power	rpm kw/HP		2900 3,5 / 4,75
Fuel consumption	lt/h		1,6
Cooling			air
Oil sump capacity	lt		0,6
<b>Supply with Diesel Gamma Sae 30</b>			
Fuel tank capacity	lt		2
<b>Supply with</b>			unleaded petrol
Autonomy			1h 15'

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### **DRIVE**

Drive on wheel	pos.		front	front
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### **TRANSMISSION**

Transmission system	type		hydraulic	electric
Transmission type			Delivery Pump 10cc	Electr.differential gear

### **WHEELS**

Front	Ømm		252	248
Rear	Ømm		252	252

### **BRAKES**

Service brake	type		mechanical	mechanical
Parking brake	type		mechanical	mechanical

### **SUSPENSION**

Front suspension	type		rigid	rigid
Rear suspension	type		rigid	rigid

### **DIMENSIONS**

Machine dimensions (length-width-height) without brushes	mm		1360x960x1180	1360x960x1180
Packing dimensions (length-width-height)	mm		-	-

### **WEIGHT**

Machine weight in working condition without operator	kg		340	312 battery escluded
Battery weight	kg			120

### **INSTRUMENTS**

Battery warning light				x
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**STANDARD EQUIPMENT**

Engine/Electric motor		x	x
Service brake		mechanical	mechanical
Parking brake		mechanical	mechanical
Main brush driving control		mechanical	mechanical
Side brushes driving control		mechanical	mechanical
Main brush lifting		mechanical	mechanical
Side brushes lifting		mechanical	mechanical
Filter shaker		electric	electric
Vacuum cut-off		mechanical	mechanical
Flap lifting system		x	x
Flasher		x	x
Horn		x	x
Reverse drive buzzer			x
Cellulose dust filters		x	x

**OPTIONALS**

Left side brush		x	x
Polyester dust filter		x	x
Reverse drive buzzer		x	