

TECHNICAL DATA

Technical Data - Sound Level, EMC, and HAV

Sound Level		
MODEL	POWER LEVEL	PRESSURE LEVEL
-----	Lwa (dB) EN 23744	Lpa (dB) EN ISO 11201
FS 413	102.6	86.1
	-	-

EMC

(ElectroMagnetic Compatibility)

The Honda engine on this equipment has been tested for EMC using the methods outlined in EN 14982:98. The tests found that the engine did not exceed the radiated emission limits. This test report is on file at Husqvarna Construction Products, Olathe, Kansas, USA. Because the engine is the source for a vast majority of Electromagnetic activity of this machine, Husqvarna Construction Products declares the entire machine to be Electromagnetically Compatible.

HAV

(Hand-Arm Vibration)

This tool does not exceed the exposure action value of 2.5 m/s².

This equipment has been tested for HAV in accordance with ISO 5349. The results are shown in the following chart.

Model	Maximum Vibration (Aeq) in m/s ²	Maximum Exposure Time
FS413	1.64	+100%

The **Aeq** value is the measured continuous vibration at the extended handlebars expressed as acceleration with the units of m/s² (meters per second squared). The measured values were taken with a fully warmed engine, running at maximum rated RPM and a 500-mm blade. The measurement point was the grip of the extended handlebars. Instrumentation was a Larson Davis model HVM100 Human Vibration Meter and the SEN021 Triaxial Accelerometer. The accelerometer was secured to a hand adapter, which allows it to sense the same magnitude of vibration as the operator's hand.


The **Maximum Exposure Time** is a calculated value referenced to an 8-hour workday and the "daily exposure action value" of 2.5 m/s² as defined in Directive 2002/44/EC of 25 June 2002.

The time weighted daily vibration exposure time can be found with the following formula:

$$\text{Maximum Exposure Time} = (2.5/A_{eq})^2 \times 8 \text{ hours}$$

Over exposure to vibrations can result in blood vessel or nerve injury to persons suffering with blood circulation problems. Seek medical attention if you experience physical symptoms that can be related to over exposure to vibrations. Examples of symptoms are numbness, lack of feeling, tingling, tickling, pain or a reduction of normal strength, or changes in skin color. These symptoms normally appear in the fingers, hand or wrists.

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 Machine Mass		
Model	Nominal Mass (kg)	Maximum Mass (kg)
FS 413	124	158
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Cutting Depth	
Blade Size	Maximum Blade Cutting Depth
250 mm (10")	68 mm (2-3/4")
300 mm (12")	93 mm (3-3/4")
350 mm (14")	118 mm (4-3/4")
400 mm (16")	146 mm (5-3/4")
450 mm (18")	164 mm (6-3/4")
500 mm (20")	192 mm (7-3/4")

Blade Shaft & Engine Speed		
Model	Blade Shaft RPM	Engine RPM
FS 413	2600	3600

Water Tank Capacity
25 Liters (6.6 U.S. Gallons) (5.5 U.K. Gallons)

