

## **KOHLER COMPANY**

EXECUTIVE ORDER U-U-005-0635 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in California Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGI	NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
2019	KKHX	S.7252GB 660, 725 4-stroke		4-stroke, ≥	225 cc	Gașoline		
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
500		ЕМ			Walk-Behind Lawnmower, Riding Mower, Tractor and Other Industrial Equipment			
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment						
EGR=exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAÍR=p	uised AIR MFI≔mu	lti port fuel injec	varm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S dion SFI=sequential MFI TBI=throttle body fuel injection x)=in series ECM=engine control module		

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)	
STANDARD	8.0	549	*	
FAMILY EMISSION LEVEL	7.3	450	*	
CERTIFICATION LEVEL	6.6	346	*	

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

**BE IT FURTHER RESOLVED:** That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_\_day of November 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT PSIDE!

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Model Year:

Engine Family:

2019

Manufacturer: Kohler Co.

KKHXS.7252GB

issued: Revised:

6/26/2018

E.O. Number: U-4-005-0635

## **Small Off-Road Engine Model Summary Form**

Units for Table: kW

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	KT715	50-State	725	83 x 67 mm	16°	15,4	3600	53.5 N-m	2200	EM
	KT725	50-State	725	83 x 67 mm	16°	16.1	3600	53.2 N-m	2200	EM
	KT730	50-State	725	83 x 67 mm	16°	16.8	3600	52.2 N-m	2400	EM
X	KT735	50-State	725	83 x 67 mm	16°	17.4	3600	52.2 N-m	2400	EM
	KT740	50-State	725	83 x 67 mm	16°	18.8	3600	53.2 N-m	2600	EM
	KT610	50-State	660	83 x 61 mm	16°	13.6	3600	48.0 <b>N-</b> m	2000	EM
	KT620	50-State	660	83 x 61 mm	16°	14.8	3600	48.7 N-m	2000	EM
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