CALIFORNIA AIR RESOURCES BOARD	**Chongqing Rato Technology Co., Ltd.**	**EXECUTIVE ORDER U-U-169-0576** New Off-Road Small Spark-Ignition Equipment

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-19-095;

IT IS ORDERED AND RESOLVED: That the following equipment produced by the manufacturer is certified as described below. Production equipment shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION

MANUFACTURER	ENGINE FAMILY (E.O. NUMBER)	ENGINE SIZE (cc)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
Chongqing Rato Technology Co., Ltd.	PCRPS.4202GV (U-U-169-0561) PCRPS.4202GA (U-U-169-0558) PCRPS.4202GP (U-U-169-0560) PCRPS.3382GA (U-U-169-0538) PCRPS.5002GV (U-U-169-0564) PCRPS.5002GN (U-U-169-0562)	420 420, 389 420, 389 338, 301 500, 439 439	Gasoline, Gasoline-LPG dual-fuel

TBC = To Be Certified

EQUIPMENT DESCRIPTION

MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK NOMINAL CAPACITY (liters)	EQUIPMENT APPLICATION
2023	CRPCM2R	See Attachment	Brushcutter, Chipper/Shredder, Compressor, Hedge Trimmer, Leaf Blower/Vacuum, Line Trimmer, Log Splitter, Non-Backpack Blower, Pressure Washer, Stump Grinder, Tiller

EMISSION CONTROL SYSTEMS (ECS)	ENGINE and/or EQUIPMENT MODEL
CM	See Attachment

A. **ECS TYPE** (Venting Control Type/Tank Barrier Type): 1. **Venting Control Type and Code**:- Canister=C Sealed Tank=S Other=O 2. **Tank Barrier Type and Code**:- Metal=M Treated HDPE or PE=P Co-extruded=C Selar=L Nylon=N Acetal=A Other=O B. **EVAPORATIVE FAMILY 2-Letter CODE** (Venting Control Codes =C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). **Note**: Always list venting control type or code first before tank barrier type or code. Do not use abbreviations for ECS types.

The following are the evaporative emission standard (Title 13, California Code of Regulations, 13 CCR Section 2754 or 2754.1, as applicable), and certification level in g organic material hydrocarbon equivalent·day^{-1}. The running loss emissions control has been demonstrated by the manufacturer.

***=not applicable**

DIURNAL EMISSION STANDARD
(g organic material hydrocarbon equivalent·day^{-1})

STANDARD	EVAPORATIVE FAMILY EMISSION LIMIT DIFFERENTIAL (EFELD)	EVAPORATIVE MODEL EMISSION LIMIT (EMEL)	CERTIFICATION LEVEL
1.20 + 0.056 × Nominal Capacity (L)	*	= (STANDARD) – (EFELD)	1.3

BE IT FURTHER RESOLVED: That the evaporative model emission limit (EMEL), as applicable, is the diurnal emissions level declared by the manufacturer based on diurnal test results for a worst-case engine or equipment model within an evaporative family. No engine or equipment emissions within the evaporative family could be closer to its respective standard than the evaporative family emission limit differential (EFELD) calculated from the declared EMEL for the worst-case engine or equipment.

BE IT FURTHER RESOLVED: That the evaporative family emission limit differential (EFELD), as applicable, is an emission level differential between the effective standard level for a specific model representing the entire evaporative family and the EMEL declared for the specific model. It serves as the applicable evaporative emission standard for determining compliance on a corporate average basis of any equipment within this evaporative family under 13 CCR Sections 2754.1.

BE IT FURTHER RESOLVED: That for the listed equipment, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2759 (labeling), Section 2774 (bond requirements) and 13 CCR Sections 2760 and 2764 (emission control system warranty).

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

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

Executed on this 12th day of July 2022.

Robin Lang for

Robin U. Lang, Chief
Emissions Certification and Compliance Division

SORE Evap > 80cc Model Summary Template (rev. 2020)

For CARB Use Only
Executive Order: U-U-169-0576
Attachment _1_of_2_

Date: _3/20/2022_____
Evaporative Family: ___CRPCM2R_____

Model Summary

		S3. Sales Codes (Check all appropriate)				S6. Fuel Tank Volume (Liters)									
S1. Worst Case (Check One)	**S2. Model**	**Calif. Only**	**50-State**	**S4. Engine Class (I or II)**	**S5. Fuel System (FI or CARB)**	**Total**	**Nominal**	**S7. Fuel Tank Internal Surface Area (m^2)**	**S8. Fuel Line Type (e.g. Single or Multi Layer)**	**S9. Nominal Fuel Line Length (mm)**	**S10. Fuel Line Inside Diameter (mm)**	**S11. Engine Family**	**S12. Fuel Tank Executive Order**	**S13. Fuel Line Executive Order**	**S14. Carbon Canister (or Working Capacity (g/L)/ Other Venting Control Executive Order)**
	R420-V R420N		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GV	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R420-V R420N		X	II	CARB	6.78	5.935	0.225	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GV	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.65
	R390		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R390		X	II	CARB	6.78	5.935	0.225	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.65
	R390		X	II	CARB	5.0	4.5	0.168	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	2.18
X	R420		X	II	CARB	6.78	5.935	0.225	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.65
	K420		X	II	CARB	6.78	5.935	0.225	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.65
	R420 K420		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84

SORE Evap > 80cc Model Summary Template (rev. 2020)

For CARB Use Only
Executive Order: U-U-169-0576
Attachment _2_of_2_

Date: _3/20/2022_____
Evaporative Family: ___CRPCM2R_____

Model Summary

		S3. Sales Codes (Check all appropriate)				S6. Fuel Tank Volume (Liters)									
S1. Worst Case (Check One)	**S2. Model**	**Calif. Only**	**50-State**	**S4. Engine Class (I or II)**	**S5. Fuel System (FI or CARB)**	**Total**	**Nominal**	**S7. Fuel Tank Internal Surface Area (m^2)**	**S8. Fuel Line Type (e.g. Single or Multi Layer)**	**S9. Nominal Fuel Line Length (mm)**	**S10. Fuel Line Inside Diameter (mm)**	**S11. Engine Family**	**S12. Fuel Tank Executive Order**	**S13. Fuel Line Executive Order**	**S14. Carbon Canister (or Working Capacity (g/L)/ Other Venting Control Executive Order)**
	R420 K420		X	II	CARB	5.0	4.5	0.168	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	2.18
	R390P R420P		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GP	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R390P R420P		X	II	CARB	6.9	5.5	0.23	Multi-Layer	≤ 350	4 or greater	PCRPS.4202GP	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.78
	R338		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.3382GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R300-V		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.3382GA	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R440N		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.5002GN	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R440		X	II	CARB	6.045	5.325	0.197	Multi-Layer	≤ 350	4 or greater	PCRPS.5002GV	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.84
	R500-V		X	II	CARB	6.78	5.10	0.224	Multi-Layer	≤ 350	4 or greater	PCRPS.5002GV	N/A	Q-18-031B Q-22-033 Q-19-119 Q-20-001 Q-21-007	1.92