



TEST REPORT

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Report Number: 3173-22003

Report Issued: June 27, 2022

Project No.: 38562

Client: MM CASA INC
6681 COLORADO BLVD,
COMMERCE CITY, CO, 80022,
UNITED STATES

Source of Samples: The samples were sent by Manufacturer and received by IAPMO R&T Lab in good condition on June 10, 2022.

Date of Testing: June 13, 2022 through June 24, 2022

Sample Description: Bathtub faucets and showerheads
Models: See pages 2 to 4 for details.

Scope of Testing: The purpose of the testing was to determine if the samples tested of the Bathtub faucets and showerheads met the requirements of California Appliance Efficiency Regulations [when tested in accordance with 10 C.F.R. Section 430.23(t) Appendix S to Subpart B of part 430) for maximum flow rate and Section 5.12 of ASME A112.18.1-2012/CSA B125.1-2012 for minimum flow rate].

Conclusion: The samples tested of the Bathtub faucets and showerheads, models shown above, from MM CASA INC COMPLIED with the requirements of California Appliance Efficiency Regulations [when tested in accordance with 10 C.F.R. Section 430.23(t) (Appendix S to Subpart B of part 430) for maximum flow rate and Section 5.12 of ASME A112.18.1-2012/CSA B125.1-2012 for minimum flow rate].

Tested by,

Peter (Ping) Liu, Testing Engineer

Reviewed by,

Xicheng Xiong, Testing Manager

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The statement of compliance is based on the test results compared to the standard specifications without considering measurement uncertainty. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. If presented with a copy of a Test Report without the IAPMO R&T Lab watermark background, contact IAPMO R&T Lab for verification. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service is prohibited absent the advance written consent of IAPMO R&T Lab.

Model list:

Model No.	Sample tested
M6066-A-10-BG	
M6066-A-10-BN	
M6066-A-10-CP	
M6066-A-10-MB	Y
M6066-B-10-BG	
M6066-B-10-BN	Y
M6066-B-10-CP	
M6066-B-10-MB	
M6201-A-10-BG	
M6201-A-10-BN	
M6201-A-10-CP	Y
M6201-A-10-MB	
M6202-A-10-BG	
M6202-A-10-BN	
M6202-A-10-CP	
M6202-A-10-MB	
M6609-A-10-BG	
M6609-A-10-BN	
M6609-A-10-CP	
M6609-A-10-MB	
M6610-A-10-BG	
M6610-A-10-BN	
M6610-A-10-CP	
M6610-A-10-MB	Y
M6612-A-10-BG	
M6612-A-10-BN	
M6612-A-10-CP	Y
M6612-A-10-MB	
M6646-A-10-BG	
M6646-A-10-BN	
M6646-A-10-CP	
M6646-A-10-MB	
M5437-BG	
M5437-BN	
M5437-MB	Y
M6001-A-12-BG	
M6001-A-12-BN	Y
M6001-A-12-CP	
M6001-A-12-MB	
M6340-A-10-BG	
M6340-A-10-BN	
M6340-A-10-MB	
M6502-A-BG	

M6502-A-BN	
M6502-A-MB	Y
M6603-A-10-BG	
M6603-A-10-BN	
M6603-A-10-G	
M6603-A-10-MB	
M6627-B-10-BG	
M6627-B-10-BN	
M6627-B-10-CP	
M6627-B-10-MB	
M6628-A-10-BG	
M6628-A-10-BN	
M6628-A-10-CP	
M6628-A-10-MB	
M6630-A-22-BG	
M6630-A-22-BN	
M6630-A-22-CP	Y
M6630-A-22-MB	
WF6610-10ORB	
WF6643-10BL	
WF5164HF-2BN	Y
WF5164HF-2BL	
WF5164HF-2GD	
6CS610GL-10RG	
6CS360-10BRG	
6CS640-10BG	
6CS066-10RG	
6CS066-10ORB	
6CS647-12BG	
6CS648-22BN	
6CS648-22BL	
6CS310-12BN	
6CS310-12CH	Y
6CS310-12BL	
6CS025-12BL	
6CS025-12BG	
6CS025-12BN	
6CS025-12BLX2	
6CS025-12BNX2	
6CS45-23CH	Y
6CS345- 23BNLED	
6CS345-23BLED	
6CS345- 23GDLED	
6CS338-16BL	Y

6CS338-16BN	
6CS338-16BG	
5CS525-B	
5CS525-NB	
5CS525-BG	
6CS369-22-B	
6CS369-22-C	
6CS369-22-NB	
6CS374-12-C	
6CS374-12-B	
6CS374-12-NB	
6CS374-12-BG	
6CS368-20-C	
6CS368-20-B	
6CS368-20-NB	
6CS368-20-BG	
6CS347-B	Y
6CS347-BG	
6CS823-12MB	
6CS823-12BN	
6CS823-12BG	
6CS853-12BN	
6CS853-12MB	
6CS853-12BG	
6CS855-22MB	
6CS855-22BN	
6CS855-22BG	
6CS708-12MB	
6CS708-12BN	
6CS708-12BG	
5CS701-BL	
5CS701-BN	
5CS701-BG	
5CS934-BL	

Primary Regulation: California Appliance Efficiency Regulations

Test Results: All tests and evaluations were conducted per the written procedures specified in the Regulation and its reference standard.

California Appliance Efficiency Regulations

Section 1605.3 (h) Plumbing Fittings

(1) Tub Spout Diverters – COMPLIED

The leakage rate of the tub spout diverter was not greater than the applicable values shown in Table H-3 when tested in accordance with Sections 5.3.6 and 5.6.1.5 of ASME A112.18.1-2012/CSA B125.1-12.

Finding: Water Temperature Used for Testing: 104 °F

Model No.	Measured Leakage Rate at 10 psi		Automatic Reset Type	Remained functional and reset itself to tub spout position
	When New (Max Allowed: 0.01 gpm)	After 15,000 Cycles (Max Allowed: 0.05 gpm)		
WF5164HF-2BN	0	0	NO	NA
M5437-MB	0	0	NO	NA
M6201-A-10-CP	0	0	NO	NA
M6502-A-MB	0	0	NO	NA
M6612-A-10-CP	0	0	NO	NA

(5) Showerheads –COMPLIED

The flow rate of the showerhead / handheld shower / body spray was not greater than 1.8 gpm at 80 ± 1 psi flowing pressure and met the minimum requirements (not less than 60% of manufacturer's specified maximum flow rate at 20 ± 1 psi and not less than 75% at 45 and 80 ± 1 psi) as shown in Table H-5 when tested in accordance with 10 C.F.R. Section 430.23(t) (Appendix S to Subpart B of part 430) and Section 5.12 of ASME A112.18.1-2018/CSA B125.1-18.

Finding: Water Temperature Used for Testing = 100 °F

Model No.	Mode	Mfr's Specified Max Flow Rate (gpm)	Measured Flow Rate (gpm)			Minimum Flow Rate (Percentage of Mfr's Specified Maximum Flow Rate)		
			20 psi	45 psi	80 psi	20 psi	45 psi	80 psi
M6066-A-10-MB	Hand shower	1.8	1.42	1.59	1.53	78.89	88.33	85.00
	Showerhead		1.72	1.72	1.69	95.56	95.56	93.89
M6066-B-10-BN	Hand shower	1.8	1.43	1.58	1.53	79.44	87.78	85.00
	Showerhead		1.72	1.73	1.69	95.56	96.11	93.89

M6201-A-10-CP	Hand shower	1.8	1.39	1.52	1.48	77.22	84.44	82.22
	Showerhead		1.75	1.69	1.63	97.22	93.89	90.56
M6610-A-10-MB	Hand shower	1.8	1.41	1.47	1.45	78.33	81.67	80.56
	Showerhead		1.79	1.78	1.72	99.44	98.89	95.56
M6612-A-10-CP	Showerhead	1.8	1.57	1.56	1.54	87.22	86.67	85.56
	Hand shower		1.77	1.72	1.64	98.33	95.56	91.11
M5437-MB	Spray	1.8	1.48	1.47	1.45	82.22	81.67	80.56
M6001-A-12-BN	Hand shower	1.8	1.52	1.56	1.47	84.44	86.67	81.67
	Showerhead		1.78	1.76	1.70	98.89	97.78	94.44
	Body spray		1.64	1.60	1.59	91.11	88.89	88.33
M6502-A-MB	spray	1.8	1.47	1.47	1.45	81.67	81.67	80.56
M6630-A-22-CP	Hand shower	1.8	1.29	1.71	1.61	71.67	95.00	89.44
	Showerhead		1.48	1.63	1.53	82.22	90.56	85.00
	Waterfall		1.19	1.67	1.55	66.11	92.78	86.11
WF5164HF-2BN	Spray	1.8	1.53	1.49	1.45	85.00	82.78	80.56
6CS310-12CH	HS (hand shower)	1.8	1.46	1.72	1.65	81.11	95.56	91.67
	SH (showerhead)		1.76	1.72	1.65	97.78	95.56	91.67
	BS (body spray)		1.74	1.70	1.63	96.67	94.44	90.56
	HS+SH		1.75	1.68	1.63	97.22	93.33	90.56
	HS+BS		1.71	1.65	1.66	95.00	91.67	92.22
	SH+BS		1.72	1.69	1.68	95.56	93.89	93.33
	HS+SH+BS		1.71	1.67	1.61	95.00	92.78	89.44
6CS45-23CH	HS (hand shower)	1.8	1.59	1.69	1.63	88.33	93.89	90.56
	RS (rain shower)		1.72	1.70	1.65	95.56	94.44	91.67
	WF (waterfall)		1.69	1.67	1.58	93.89	92.78	87.78
	BS (body spray)		1.68	1.65	1.63	93.33	91.67	90.56
	RS+HS		1.70	1.66	1.59	94.44	92.22	88.33
	WF+HS		1.78	1.77	1.72	98.89	98.33	95.56
	HS+BS		1.70	1.64	1.63	94.44	91.11	90.56
	RS+WF		1.76	1.72	1.61	97.78	95.56	89.44
	RS+BS		1.73	1.68	1.66	96.11	93.33	92.22
	WF+BS		1.74	1.71	1.67	96.67	95.00	92.78
	HS+RS+WF		1.73	1.67	1.65	96.11	92.78	91.67
	HS+RS+BS		1.72	1.68	1.63	95.56	93.33	90.56
	HS+WF+BS		1.73	1.64	1.62	96.11	91.11	90.00
	RS+WF+BS		1.75	1.63	1.63	97.22	90.56	90.56
	HS+RS+WF+BS		1.75	1.72	1.62	97.22	95.56	90.00
6CS338-16BL	HS (hand shower)	1.8	1.59	1.68	1.62	88.33	93.33	90.00
	RS (rain shower)		1.70	1.70	1.67	94.44	94.44	92.78
	WF (waterfall)		1.68	1.65	1.65	93.33	91.67	91.67
	BS (body spray)		1.72	1.69	1.61	95.56	93.89	89.44

	RS+HS		1.74	1.74	1.63	96.67	96.67	90.56
	WF+HS		1.76	1.70	1.64	97.78	94.44	91.11
	HS+BS		1.72	1.68	1.66	95.56	93.33	92.22
	RS+WF		1.73	1.71	1.62	96.11	95.00	90.00
	RS+BS		1.73	1.65	1.63	96.11	91.67	90.56
	WF+BS		1.75	1.66	1.61	97.22	92.22	89.44
	HS+RS+WF		1.76	1.62	1.59	97.78	90.00	88.33
	HS+RS+BS		1.76	1.68	1.61	97.78	93.33	89.44
	HS+WF+BS		1.78	1.70	1.65	98.89	94.44	91.67
	RS+WF+BS		1.77	1.71	1.63	98.33	95.00	90.56
	HS+RS+WF +BS		1.75	1.72	1.60	97.22	95.56	88.89
6CS347-B	spray	1.8	1.79	1.76	1.65	99.44	97.78	91.67

Section 1607 Marking of Appliances

(b) Name, Model Number and Date – COMPLIED

The product or its package [per Section 1607(c) (1)] shall be permanently, legibly, and conspicuously marked with the following information on an accessible place:

- (1) Manufacturer's name or brand name or trademark;
- (2) Model number; and
- (3) Date of manufacture, indicating (i) year and (ii) month or smaller (e.g. week) increment.

Finding:

Marking Requirement	On Product	On Package	Status
Manufacturer's Name / Brand Name / Trademark	Yes	Yes	PASS
Model Number	No	Yes	PASS
Date of Manufacture	No	Yes	PASS

(d) Marking Requirements for Federally-Regulated Consumer Products – COMPLIED

The product and package shall be marked with the markings required by 16 C.F.R. part 305.

Finding:

Marking Requirement	On Product	On Package	Status
Flow Rate in Both gpm and L/min	Yes	Yes	PASS
Manufacturer's Name / Trademark	Yes	Yes	PASS
Model Number	Not Required	Yes	PASS

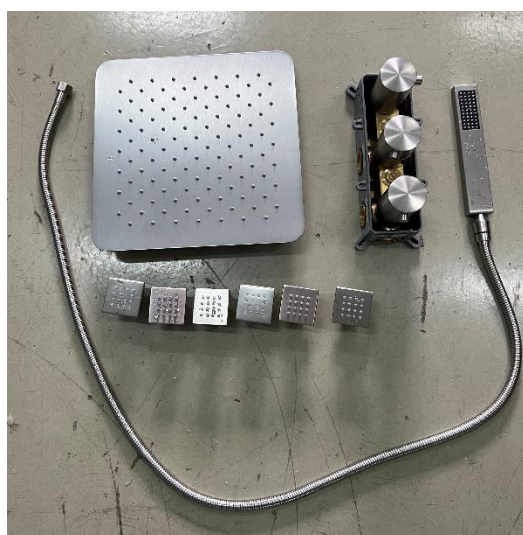
Photographs of Samples Tested:



Model No.: WF5164HF-2BN



Model No.: M5437-MB



Model No.: M6001-A-12-BN



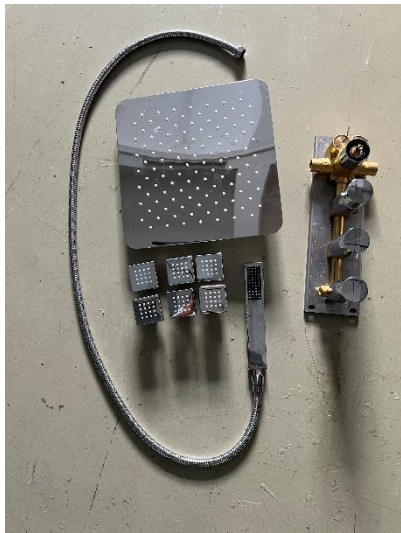
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Model No.: M6066-B-10-BN



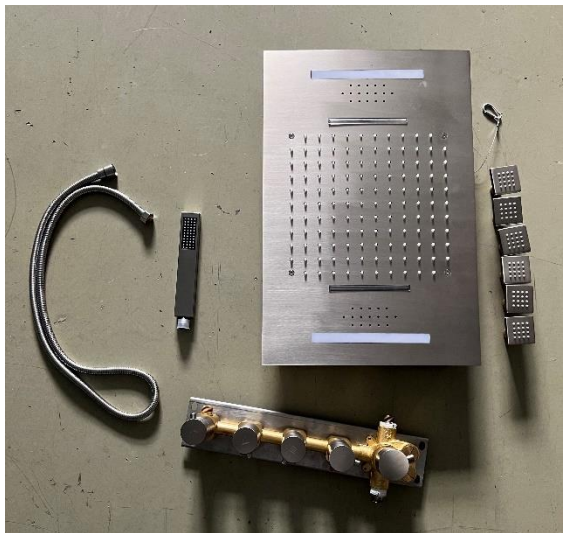
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Model No.: 6CS310-12CH



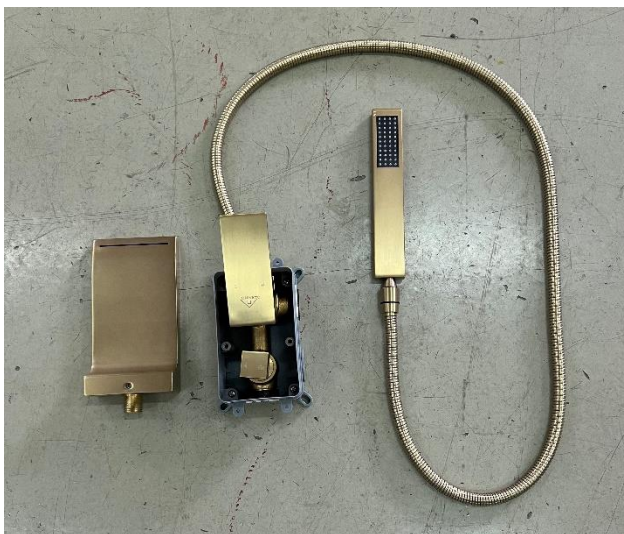
Model No.: 6CS338-16BL



Model No.: 6CS45-23CH



Model No.: 6CS347-B



Model No.: M6502-A-MB



Model No.: M6610-A-10-MB



Model No.: M6612-A-10-CP



Model No.: M6630-A-22-CP