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Docket Number:	17-AAER-14
Project Title:	Appliance Efficiency Standards Certification Rulemaking for Residential Air Filters, Residential Pool Pump and Motor Combinations, and Replacement Residential Pool Pump Motors
TN #:	219134
Document Title:	Express Terms: Appliance Efficiency Certification Rulemaking for Air Filters and Pool Pump Motors
Description:	Express Terms (45-day language) for appliance efficiency certification rulemaking for air filters and pool pump motors
Filer:	Patrick Saxton
Organization:	California Energy Commission
Submitter Role:	Commission Staff
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Proposed Regulatory Language for Residential Air Filters

Proposed new language appears as underline (example) and proposed deletions appear as strikeout (~~example~~). Existing language appears as plain text. Three dots or "…" represents the substance of the regulations that exists between the proposed language and current language.

1606. Filing by Manufacturers; Listing of Appliances in Database.

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Table X

Data Submittal Requirements

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	Appliance	*Required Information*	*Permissible Answers*
C	Air Filters manufactured on or after April 1, 2019	Air filter sizes tested	Small, medium, large
		Minimum Efficiency Reporting Value (MERV)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, N/A
		Particle Size Efficiency for 0.3 to 1.0μm particle size	
		Particle Size Efficiency for 1.0 to 3.0μm particle size	
		Particle Size Efficiency for 3.0 to 10.0μm particle size	
		Test Procedure used to determine air filter efficiency performance	AHRI 680-2009, or ASHRAE 52.2-2012
		Air Filter Length	
		Air Filter Width	
		Air Filter Depth	
		Air Filter Face Area	
		Face Velocity Utilized for the test procedure	Value in feet per minute or N/A
		Airflow Rate value 1	
		Airflow Rate value 2	
		Airflow Rate value 3	
		Airflow Rate value 4	
		Airflow Rate value 5—Maximum Rated Airflow Rate	
		Initial Resistance at air flow rate value 1	Test results to one-hundredths of an Inch of Water Column
		Initial Resistance at air flow rate value 2	Test results to one-hundredths of an Inch of Water Column
		Initial Resistance at air flow rate value 3	Test results to one-hundredths of an Inch of Water Column
		Initial Resistance at air flow rate value 4	Test results to one-

			hundredths of an Inch of Water Column
		Initial Resistance at air flow rate value 5	Test results to one-hundredths of an Inch of Water Column
		Final Resistance at the point where test is terminated and results determined	Test results to one-hundredths of an Inch of Water Column
		Dust Holding Capacity at the maximum rated airflow rate as published by the manufacturer	Test results in multiples of one gram.
		Airflow Rate value determined at an Initial Resistance of 0.1 Inch of Water Column	

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Note: Authority cited: Sections 25213, 25218(e), 25402(a)-25402(c) and 25960, Public Resources Code; and sections 16, 26, and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 25216.5(d), 25402(a)-25402(c), 25402.5.4 and 25960, Public Resources Code; and section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).

1607. Marking of Appliances.

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(d) Energy Performance Information.

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(12) Air Filters. Each unit of air filters manufactured on or after ~~July 1, 2016~~April 1, 2019 shall be marked, permanently and legibly, on an accessible and conspicuous place on the edge of the filter itself or on the pleats, in characters of font size 12, with the information specified in either section (A) or (B) below as applicable to the air filter model:

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Note: Authority cited: Sections 25213, 25218(e), 25402(a)-25402(c) and 25960, Public Resources Code. Reference: Sections 26216.5(d), 25402(a)-25402(c) and 25960, Public Resources Code.

Proposed Regulatory Language for Residential Pool Pump and Motor Combinations and Replacement Residential Pool Pump Motors

Proposed new language appears as underline (example) and proposed deletions appear as strikeout (~~example~~). Existing language appears as plain text. Three dots or "…" represents the substance of the regulations that exists between the proposed language and current language.

1602. Definitions.

(g) Pool Heaters, Portable Electric Spas, Residential Pool Pump and Motor Combinations, and Replacement Residential Pool Pump Motors.

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"Permanent magnet synchronous" means a motor that has a permanent magnet rotor, windings on the stator, and is controlled by a single-phase or multi-phase sinusoidal alternating current.

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Note: Authority cited: Sections 25213, 25218(e), 25402(a)-25402(c) and 25960, Public Resources Code; and sections 16, 26 and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015).

Reference: Sections 25216.5(d), 25402(a)-25402(c), 25402.5.4 and 25960, Public Resources Code; and section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).

1606. Filing by Manufacturers; Listing of Appliances in Database.

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Table X

Data Submittal Requirements

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	Appliance	*Required Information*	*Permissible Answers*
G	Residential Pool Pump and Motor Combinations and Replacement Residential Pool Pump Motors	Motor Construction	PSC, Capacitor Start-Capacitor Run, ECM, Capacitor Start-induction run, split-phase, Permanent Magnet Synchronous
		Motor Design	Single-speed, dual-speed, multi-speed, variable-speed
		Frame	
		Speed (in RPM)	

		Motor has Capability of Operating at Two or More Speeds with the Low Speed having a Rotation Rate that is No More than One-Half of the Motor's Maximum Rotation Rate	Yes, no
		Unit Type	Residential Pool Pump and Motor Combination, Replacement Residential Pool Pump Motor
		Pool Pump Motor Capacity	
		Motor Service Factor	
		Motor Efficiency (%)	
		Nameplate Horsepower	
		Pump Control Speed (compliance with Section 1605.3(g)(5)(B)2.)	Yes, no
		Flow for Curve 'A' (in gpm)	
		Power for Curve 'A' (in watts)	
		Energy Factor for Curve 'A' (in gallons per watt-hour)	
		Flow for Curve 'B' (in gpm)	
		Power for Curve 'B' (in watts)	
		Energy Factor for Curve 'B' (in gallons per watt-hour)	
		Flow for Curve 'C' (in gpm)	
		Power for Curve 'C' (in watts)	
		Energy Factor for Curve 'C' (in gallons per watt-hour)	

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Note: Authority cited: Sections 25213, 25218(e), 25402(a)-25402(c) and 25960, Public Resources Code; and sections 16, 26, and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 25216.5(d), 254029(a)-25402(c), 25402.5.4 and 25960, Public Resources Code; and section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).