

## MEMO

Date: October 2, 2015

To: All Unico Customers and Field Representatives

Subject: Unico System SEER and HSPF

The Unico System is a small-duct high-velocity (SDHV) system which is a separate product class defined by the Department of Energy (DOE) as part of the larger class of residential central air-conditioners (CACs) and heat pumps (CHPs). Although SDHV products have been available for over 50 years, it wasn't until 2001 that the DOE defined it as a separate product class. The DOE created a specific definition, a separate test procedure (different operating conditions), and a separate minimum efficiency. In 2012 Congress codified the product class into law which was then published in the federal register November 2013 about a year later. (Yes, the government is not always quick.)

Since the SDHV product class is relatively new in the 'official' sense, there are many who may not know that SDHV has a different minimum efficiency compared to other CACs and CHPs. The table below lists the current federal minimum efficiency, which applies to all states. The table can be found in the federal register and on the DOE [website](#).

Minimum Energy Efficiency for Residential <sup>1</sup> Central Air Conditioners and Heat Pumps (Effective January 1, 2015)			
Product class	Seasonal Energy Efficiency Ratio (SEER)	Energy Efficiency Ratio (EER)	Heating Seasonal Performance Factor (HSPF)
Split system CAC, Northern states	13		
Split system CAC, Southeastern states <sup>2</sup>	14		
Split system CAC, Southwestern states <sup>3</sup> , < 45,000 Btu/hr	14	12.2	
Split system CAC, Southwestern states <sup>4</sup> , ≥ 45,000 Btu/hr	14	11.7	
Split system heat pumps	14		8.2
Single package CACs, Northern and Southeastern states	14		
Single package CACs, Southwestern states	14	11.0	
Single package heat pumps	14		8.0
<b>Small duct, high velocity systems</b>	<b>12</b>		<b>7.2</b>

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<sup>1</sup> Residential CACs and CHPs are single-phase, less than 65,000 Btu/hr cooling capacity.

<sup>2</sup> Southeast states are AL, AR, DE, FL, GA, HI, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, DC.

<sup>3</sup> Southwestern states are AZ, CA, NV, NM.

<sup>4</sup> Southwestern states are AZ, CA, NV, NM.