

# Copeland™ Variable Speed Reciprocating Hermetic Compressors For Refrigeration Applications

Copeland reciprocating hermetic compressors provide cost-effective solutions to systems requiring a wide range of evaporating capability. More than 300 models of variable speed and fixed speed compressors are available from Emerson including low-, medium-, and high-temperature models for foodservice, ice machines, soft serve machines, frozen carbonated beverage machines, air dryers and beverage dispensers.

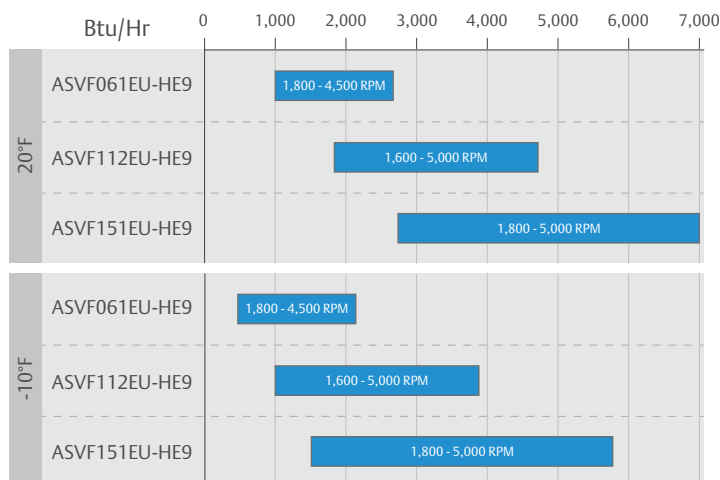
Versatility and a wide choice of operating ranges make Copeland compressors the first choice for every refrigeration need. The breadth of our hermetic line means system design engineers can match the right compressor to the job requirement for optimum energy efficiency. The energy efficiency of new variable speed compressors averages 22% higher than comparable capacity fixed speed R-290 compressors, with additional energy savings available from system optimization. Our compressors are available to support worldwide equipment needs, with many choices of refrigerants and electrical variations, and every compressor is backed by Emerson's reputation for quality and reliability.



## Variable Speed Features and Benefits

<b>Regulatory Compliance</b>	<ul style="list-style-type: none"> <li>• Potential impending DOE 2024 energy reductions</li> <li>• EPA refrigerant requirements</li> <li>• CARB commercial refrigeration standards</li> </ul>
<b>Improved Energy Efficiency</b>	<ul style="list-style-type: none"> <li>• Less on/off cycling</li> <li>• Low amp gradual compressor motor startup</li> <li>• 13% improvement over high-efficiency, fixed speed, R-290 compressor</li> </ul>
<b>Improved Performance and Accuracy</b>	<ul style="list-style-type: none"> <li>• Tight temperature control</li> <li>• Fast temperature pull-downs and recovery</li> <li>• Precise humidity control</li> <li>• Extra capacity during extreme hot or cold weather</li> <li>• Low noise operation</li> </ul>
<b>Improved Reliability</b>	<ul style="list-style-type: none"> <li>• Protection and proactive prevention of compressor failure using inverters</li> <li>• Ability to handle voltage fluctuations</li> <li>• Reduces number of start-stops</li> </ul>
<b>Operational Advantages</b>	<ul style="list-style-type: none"> <li>• SKU reduction simplifies service</li> <li>• Versatile applications</li> <li>• Temperature precision helps reduce food spoilage</li> </ul>

**Product Portfolio – R-290**



R-290, 20°F/120°F/RG40°F/SC0°F

R-290, -10°F/110°F/RG40°F/SC0°F