Reduce Energy Costs By Controlling Your Vacuum System’s Motor Speed Based on Operator Use!

Car care facility owners can manage their energy use and reduce their utility costs with a control system specially engineered for the industry. The Spencer Energy Watcher™ vacuum system electronic motor control monitors the operator use of a Spencer central vacuum system by sensing low-use periods. It then automatically reduces the vacuum producer's motor speed during these periods and thus reduces power consumption.

When the vacuum system is started, the Energy Watcher controller automatically ramps up to full speed. When operators stop using the system, it senses the decreased power requirement and reduces the speed of the vacuum producer. As operators come back on-line, the system automatically ramps up again.

The Energy Watcher software is uniquely designed for the car care industry central vacuum system application, and it is recommended for all new car care vacuum system projects where energy costs are at a premium. Car washes, car rental agencies, and other operations all benefit. Existing installations can be retrofitted for the Energy Watcher.

To save even more energy dollars, Spencer recommends using the Energy Watcher in conjunction with a Premium Efficient Motor.

Product Features

- Automatically ramps motor speed up and down, as power is needed
- Consumes less power thanks to reduced draw, saves energy and lowers utility costs
- System functions allow minor field adjustments to the low and high speed setpoints
- Has capability to display local kW costs to show actual machine energy costs
- Cost-effective control package: VFD and PLC all-in-one
- Good for 50/60 Hz operation
- Check with local power utility company for additional energy savings rebates available
Spencer Energy Watcher™ Thinks Green For You!

Typical Car Care Vacuum Energy Consumption Comparison Utilizing a Standard Efficiency Motor, Premium Efficiency Motor and Spencer Energy Watcher

**Typical Annual Energy Cost Savings Utilizing a Spencer Energy Watcher and Premium Efficiency Motor**

<table>
<thead>
<tr>
<th>Motor</th>
<th>8 hrs</th>
<th>12 hrs</th>
<th>16 hrs</th>
<th>20 hrs</th>
<th>24 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>$310</td>
<td>$466</td>
<td>$621</td>
<td>$776</td>
<td>$931</td>
</tr>
<tr>
<td>15</td>
<td>$334</td>
<td>$501</td>
<td>$667</td>
<td>$834</td>
<td>$1,001</td>
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<td>20</td>
<td>$470</td>
<td>$704</td>
<td>$939</td>
<td>$1,174</td>
<td>$1,409</td>
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<tr>
<td>25</td>
<td>$612</td>
<td>$919</td>
<td>$1,224</td>
<td>$1,530</td>
<td>$1,836</td>
</tr>
</tbody>
</table>

Above calculations are based on the following:
- Electricity cost: $.10/kilowatt
- Vacuum System Usage Cycle: 65% on / 35% off
- Compared to: Standard efficiency motor with basic ATL starter

For additional information contact marketing@spencer-air.com or call 800-232-4321 and ask for Car Care Division Sales.