Learn how AB-QM™ Pressure Independent Temperature Control Valves (PICVs) have been increasing student comfort, reducing noise/complaints, and providing substantial energy savings for Universities.

Achieving **Energy Efficiency** & **Comfortable Classroom** Settings In Universities

20-50% HVAC Energy Consumption Savings by installing the AB-QM specialty control valve.
EXPERIENCING PROBLEMS WITH YOUR HVAC SYSTEM?

- Student Comfort Issues?
- Room Temperature Complaints (Some are hot, others are cold)?
- Increased Maintenance Costs?
- Noise issues?
- Balancing and Flow Issues?
- Wasted energy?

So what if there was a way to:

✓ Reach federal energy reduction requirements by cutting energy consumption?
✓ Increase classroom comfort?
✓ Reduce complaints & minimize maintenance?

Would you be interested?...

INTERESTED IN A MORE EFFICIENT SOLUTION?

Danfoss AB-QM™ Pressure Independent Control Valves

The AB-QM™ is a specialty control valve that provides flows to match loads & cuts energy consumption for HVAC by 20-50%!

How They Work:

- Continual Balancing function maintains system performance even at varying loads!
- Pressure Regulator eliminates over-pumping providing favorable energy savings!
- AB-QM™ valves prevent energizing additional chillers ($$$) by maintaining desired Delta T.
- AB-QM™ valves improve system operation reducing equipment requirement.

Treat the Cause, Not the Symptom!
AB-QM™ BENEFITS EVERYONE INVOLVED...

Student/Professor
Benefits Include:
• Comfortable Room Temperatures
• Less Noise
• More Conducive Learning Environment
• Overall Better Reputation

Facility Director
Benefits Include:
• Happy Students & Professors
• Real Energy Savings $$$
• Maintenance Minimized
• System Back into Proper Balance (Less Problems, Less Calls)
• Less Classroom Noise
• Perfect Classroom/Laboratory Temperatures

Contractor
Benefits Include:
• Reduced installation time
• Easy Selection - No CV calculation required
• Simplified - no need to continually rebalance system
• Compact design that saves space in small areas like air handler units
• Designed room temperatures achieved
• Less hassle with hydronic system

WHY DANFOSS IS DIFFERENT...

Danfoss AB-QM™ is the only PICV on the market with third-party testing that proves it's accuracy!

• Third party testing proves accuracies of ±5% of setpoint

• Danfoss rated the most accurate PICV when tested with other major leading competitors on the market.¹

• Analysis indicates that the uncertainty was better than 0.25% at the 95% confidence level for each test run.²

¹ BSRIA Report 52724/1. ² Alden Research Laboratory Report No. 2141DFI001-R1.
For more information or to view the reports in entirety please contact your local representative.
UNIVERSITY PROJECT REFERENCES

The AB-QM™ PICV has proven its accuracy & reliability, which is evident from the list of prestigious Universities who have installed only the very best; the Danfoss AB-QM™ valve.

- Caltech
- Colorado University
- Purdue University
- Georgia Tech
- Kansas State University
- Louisiana State University
- Missouri University of Science & Technology
- Northwestern University
- Pensacola Christian College
- Purdue University
- Rochester Institute of Technology
- Syracuse University
- The Pennsylvania State University
- UC Santa Barbara
- University of Buffalo, New York
- University of California, Irvine
- University of Florida
- University of Omaha, Nebraska
- and more!

QUICK SELECT GUIDE

Danfoss knows that size matters and is the only manufacturer of PICV's on the market with sizes ranging from ½” to 10". We offer valves to fit any size application with extensive flow ranges; 0.25 GPM (½" Low Flow) to 1629 GPM (10" High Flow). Use our quick select guide below to find the perfect AB-QM™ valve for your application.

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Flow Range (GPM)</th>
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<tbody>
<tr>
<td>½&quot; Low Flow</td>
<td>0.25 to 1.2</td>
</tr>
<tr>
<td>⅜&quot;</td>
<td>1.0 to 5</td>
</tr>
<tr>
<td>½&quot;</td>
<td>1.5 to 7.5</td>
</tr>
<tr>
<td>¾&quot;</td>
<td>2.4 to 12</td>
</tr>
<tr>
<td>1&quot;</td>
<td>3.5 to 17.5</td>
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<tr>
<td>1-¼&quot;</td>
<td>7 to 33</td>
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<tr>
<td>1-½&quot;</td>
<td>22 to 55</td>
</tr>
<tr>
<td>2&quot;</td>
<td>34 to 85</td>
</tr>
<tr>
<td>3&quot; ANSI Flanged</td>
<td>48 to 120</td>
</tr>
<tr>
<td>2 ½&quot; ANSI Flanged</td>
<td>66 to 165</td>
</tr>
<tr>
<td>3&quot; ANSI Flanged</td>
<td>158 to 395</td>
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<tr>
<td>5&quot; ANSI Flanged</td>
<td>211 to 528</td>
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<tr>
<td>6&quot; ANSI Flanged</td>
<td>256 to 640</td>
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<td>493 to 1232</td>
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<tr>
<td>10&quot; High Flow</td>
<td>652 to 1629</td>
</tr>
</tbody>
</table>

For more information on AB-QM™ & how they can help your University please contact us!

Please contact your local representative or call: 1.866.375.4822, or email: heatingsales@danfoss.com.