

ENGINEERING
TOMORROW

Danfoss

AB-QM™ Valves

Achieving **Patient Comfort & Energy Efficiency** in Hospitals & Health Clinics

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

20-50%

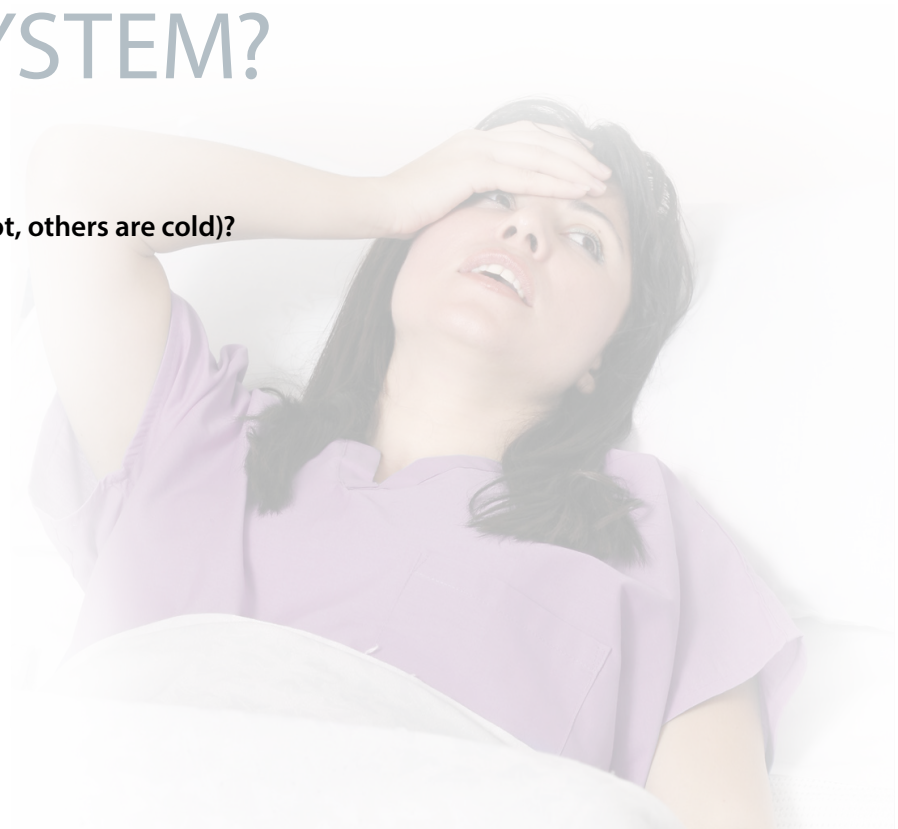
HVAC Energy Consumption Savings by installing the AB-QM specialty control valve.



Scan to access
ABQMvalves.com

www.ABQMvalves.com

EXPERIENCING PROBLEMS WITH YOUR HVAC SYSTEM?



- Patient Comfort Issues?
- Room Temperature Complaints (Some are hot, others are cold)?
- Increased Maintenance Costs?
- Time lost addressing complaints?
- Balancing and Flow Issues?

So what if there was a way to:

- ✓ Increase patient comfort?
- ✓ Reduce complaints?
- ✓ Cut energy consumption?

Would you be interested?...

HAVE YOU TRIED ANY OF THESE TEMPORARY SOLUTIONS?



Spot Coolers

Many hospitals add supplemental equipment in suites to keep patients cool and room temperatures at comfortable levels.



3-Way Valves on AHUs

3-Way Valves are designed at full load conditions, yet operated at partial loads the majority of the time.

These solutions are only a 'temporary fix' and **will not help with energy savings!** Treat the cause, not the symptom - **Fix it at the source with Danfoss AB-QM™.**

Temporary Solutions Lead to:

- Wasted Energy
- Wasted \$\$\$
- Balancing Issues
- Lost System Control
- Additional Noise
- Additional Space & Energy used

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 and **cuts energy consumption for HVAC by 20-50%**!

How They Work:

- AB-QM™ valves compensate for pressure variations, performing a **continual balancing function** that maintains the system performance even at varying loads.
- The predictable flow AB-QM™ provides, **eliminates over-pumping** which can lead to favorable **energy savings**.
- AB-QM™ valves **prevent energizing additional chillers (\$\$\$)** by maintaining desired Delta T.



AB-QM BENEFITS EVERYONE INVOLVED...



Patient Benefits Include:

- **Comfortable** Room Temperatures
- Enhanced Experience
- Quality Visit
- More Likely to Return
- Recommend Facility to Friends & Family



Facility Director Benefits Include:

- **Happy Patients**
- **Real Energy Savings \$\$\$**
- Tremendous Return on Investment (1-2 years)
- Improved comfort
- Puts System Back into Proper Balance (Less Problems)
- Maintenance Minimized
- Flexible Installation (Zoning)
- Better Reputation



Contractor Benefits Include:

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

HEALTH CARE PROJECT REFERENCES

The AB-QM™ PICV was introduced several years ago and has enjoyed success, which is evident from the list of health care references from around the globe.

Toledo Hospital

Location: Toledo, OH USA

Products: AB-QM™ Valves (½") installed on the heating/cooling system and fan coil units.



Maine General Medical Center

Location: Augusta, ME USA

Products: 1000+ AB-QM™ Valves (½"-10") installed on the heating/cooling system.



University of Missouri Hospital

Location: Columbia, MO USA

Products: AB-QM™ Valves (5") installed in the air handler units.



Houston Methodist Hospital

Location: Houston, TX USA

Products: AB-QM™ Valves installed in Air Handler Units throughout the hospital.



Jeroen Bosch Hospital

Location: S-Hertogenbosch, The Netherlands

Products: AB-QM™ Valves installed in chilled ceilings in one of the largest facilities in the area.



Fresenius AG

Location: Bad Homburg, Germany

Products: AB-QM™ Valves in the global health care facilities headquarters to aide in comfort and perfectly balanced chilled ceilings.



Danfoss · North America · Heating Segment · 11655 Crossroads Cir. Baltimore, MD 21220
Telephone: 1.866.375.4822 · E-mail: heatingcustomerservice@danfoss.com · www.ABQMvalves.com

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