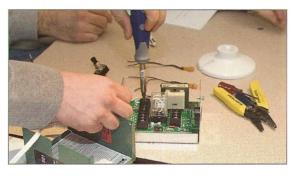
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Date	Course	Description	
FEB 11-12	"Compleat" Boiler Room (CBR)	Learn to design — and sell — the ultimate boiler room using all Taco products. Lots of hands-on, including wiring and programming Taco controls.	
FEB 25-26	Hydronic Heat Loss and Design (HHD)	Learn simple strategies to improve any system by adding reset controls to existing cast Iron boilers, adding motorized reset valves to mod-con boilers PLUS a whole lot more! Includes an introduction to Tack's new Marox web-based system controls for residential applications. (CBR is a prerequisite)	
MAR 11-12	"Compleat" Boiler Room (CBR)	See above	
MAR 25-26	Hydronic Control Strategies (HCS)	Learn to conduct an accurate heat loss analysis with pencil, paper, and calculator. Learn how to use our state of the art FloPro Design software. Plenty of hands-on. Sure to benefit any experienced hydronics designer. Basic computer skills required.	
APR 8-9	"Compleat" Boiler Room (CBR)	See above	
APR 22-23	Hydronic Control Strategies (HCS)	See above	
JUNE 24-25	"Compleat" Boiler Room (CBR)	See above	
JUL 8-9	Hydronic Heat Loss and Design (HHD)	See above	
SEPT 23-24	Hydronic Control Strategies (HCS)	See above	
OCT 21-22	"Compleat" Boiler Room (CBR)	See above	



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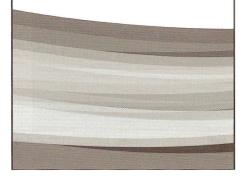
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John Barba and Bill Riley Explain Some Simple Facts of Life

The concept of variable speed hydronic circulation remains a mystery for many installers. But that's why variable speed evangelists John Barba and Bill Riley (www.rileyplumbing.com) enjoy explaining when it's best to apply the technology and what the key benefits are.

Riley is president of Warwick, RI-based WJ Riley Plumbing and Heating, an admitted hydronics junkie. Barba is Taco's residential training manager.

Why variable?

The purpose of a variable speed circulator is to automatically adjust its speed based on heating load demands. With variable speed pumps, systems can be designed and installed to place precisely as many BTUs into a building as needed.



One of the best things about Taco's approach to variable speed circulation is that they're eager to offer installers a real understanding of how the technology works. "We're not into telling professionals, 'Just push a button and walk away from the pump; it'll set itself," he said. "My 'students' tell me they really enjoy knowing how it works and how it relates to system performance."

"I can attest to that," says Riley. "My guys and I have all learned so

much from John Barba.

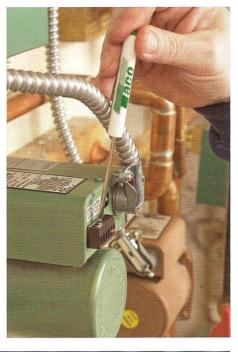
Barba says he most enjoys seeing "light bulbs go on" when installers gain true understanding of the impact of variable speed circulation and its role in improving system efficiency and even boiler performance. "If boiler short-cycling is an issue, one of the solutions may be to replace one or more pumps with a variable-speed circulator."

The perfect hydronic storm: dropping Delta-Ts

Another concern is pressure differential within the system. As zone valves close, a system curve intersects a pump curve at higher pressure differentials. This can cause higher flow velocities within the system which may result in velocity noise.

One of the best, no-noise solutions is to use a mid-flow, low head, flat-curve circulator like the Taco 007. With such a pump, system pressure rises minimally, eliminating the need for a bypass valve. *But* – if the job has

(continued on page 12)



John Barba and Bill Riley Explain Some Simple Facts of Life

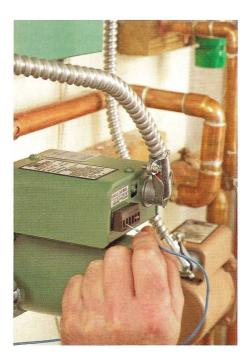
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higher head requirements than the 007 can deliver, a better solution may be a variable speed pump.

"If all of the zones in a system are calling for heat, we may find that the delta-T drops to 16 degrees, not the 20 typically designed for," said Barba. "Doesn't sound like much, right? But that equates to about a 20% difference. With only two zones calling, the delta-T drops to about 15 degrees – a 25% difference. And with only one zone calling, the delta-T drops to 12 degrees – a whopping 40% difference."

"Solve the dilemma of dropping Delta-Ts by using a fixed delta-T, variable-speed circ," he says. "You may never have to worry again about oversizing a circ."

Rather than searching for the point where the system curve intersects the



pump curve, let the pump curve selfadjust every moment and every day of the heating season.

Variable speed circs are easy to set up. Simply dial-in the required delta-T. "The simplicity of it – pump choice, installation and performance – is a huge asset for us," concluded Riley. "We know exactly what pumps to apply and how to finesse hydronic flow . . . like dialing-in comfort for our customers."



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