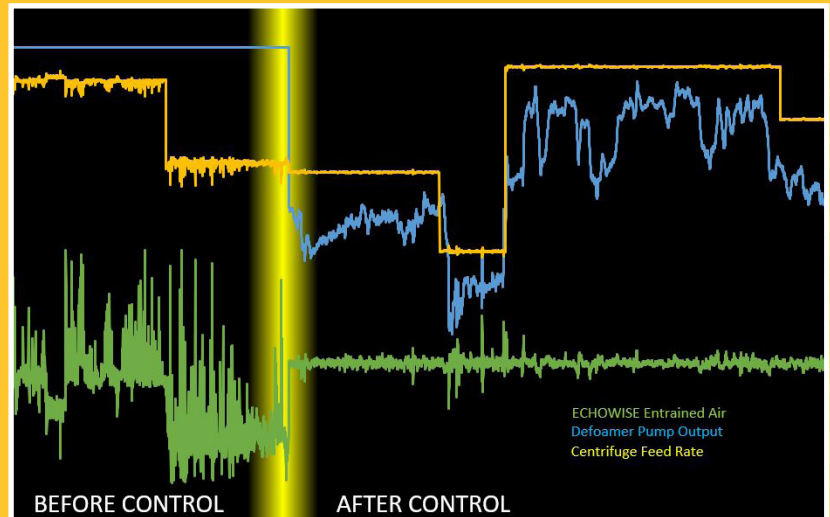


ECHOWISE® PROCESS CONTROL

What if you could continuously maintain stable process flow? Then you could maximize separator efficiency and improve production and quality.

A major driver of flow variability and centrifuge efficiency is entrained air. The ECHOWISE process control solution gives you the visibility to:

- Remove the impact of entrained air on flow and separator variability
- Easily identify other variability drivers



Vary your defoamer dosage not your process

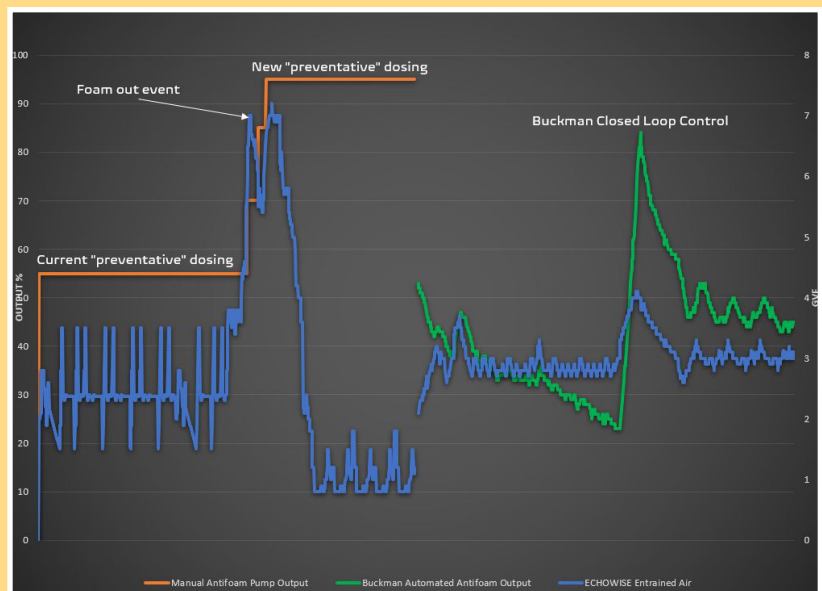
Buckman's Echowise Process Control program provides continuous entrained air monitoring and control for defoamer applications. This ensures that you only use the amount of defoamer you need, when you need it.

Improve process stability and lower defoamer usage

Often there is a cost associated with making a gain. With ECHOWISE, you can capture gains without adding additional cost.

Buckman has a proven track record of providing process improvements and production increases with no increase in defoamer spend.

Allow a Buckman representative to design an automated anti-foam program for your process. We can provide six figure financial gains with no capital investment.



"The ability to Measure/Control process air in an accurate/reliable manner should be considered Best Practice and a component of any World Class Anti-foam Management Program."

*Plant Manager
Current Buckman Echowise Customer*

ECHOWISE® PROCESS CONTROL

What if you could expand your operating window?

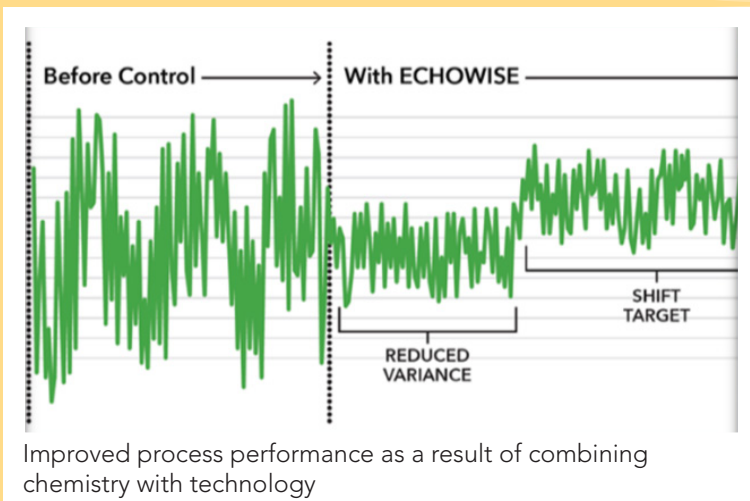
Imbedded in the ECHOWISE process control solution is the ability to identify and assess other process variables. By removing entrained air as a process variable, you can now see the other process drivers that contribute to variability.

Here's how in three easy steps:

Step 1 - ECHOWISE is installed and you begin to see the variability in your process that you could not see before.

Step 2 - Control is introduced. Closed loop control using ECHOWISE reduces flow fluctuations and separator inefficiencies related to entrained air variability. This increases total process throughput and improves centrifuge performance.

Step 3 - With entrained air variability removed and real-time control in place, you are now able to select the optimum entrained air value for pump and separator performance and operational cost.



ECHOWISE System Deliverables

A combination of unmatched monitoring technology and personalized chemistry dosing programs provide

- Expanded operating window
- Centrifuge efficiency improvements
- Improved flow stability
- Increased Production
- Reduced performance chemistry spend

ECHOWISE PARAMETERS AND OPTIONS

- Fits pipe sizes 2" to 60" diameter
- Compatible with Steel, Plastic, Fiberglass pipe
- Sample stream configuration also available
- 2, 4-20mA inputs / outputs



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Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. E577H (12/20)

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