

Big Bubble Power — The Revolutionary System In Mixing Application

No Motors, No Gears, No Seals, No Leaks, No Downtime!

Pulse Air System is a revolutionary mixing system for various mixing applications. Pulse Air uses compressed air to create large single bubbles that will quickly mix the contents of the entire tank within minutes. The formation of big bubble power causes the bubble to rise to the surface. In the process of rising to the surface, the bubble pushes the product above it, creating a vertical motion which forces the contents to the sides, creating a circular up-and-down mixing motion in the product. Therefore the contents of the tank can be quickly blended into a uniform mix, requiring very little energy consumption. In addition, with its efficient mixing in a short time, it thus requires little air/energy consumption, reducing the operation costs. Since Pulse Air System's air consumption is little, thus it makes it applicable for special product requiring inert gas mixing.

Pulse Air Mixing System has no limitations on the mixing level/volume in the tank and it is viscosity independent. Mixing can start with just a few centimeters of the product in the tank or even when there is no product in the tank!

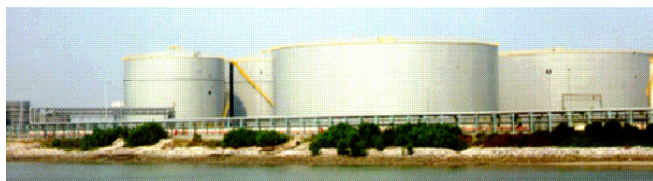
Pulse Air Mixing System offers flexibility for variable speed mixing requirements where the parameter setting can be easily set to cater to a wide range of products ranging from light viscosity to very heavy viscosity products.

As Pulse Air has no moving parts within the tank, there will be no damaged seals to repair, gears to change or blades to replace. This would mean there will be virtually no tank downtime. The only thing that moves in the tank is the product.

Pulse Air Mixing Systems can fit in and operate in almost any design of tank shape, size and volume; be it round, square, rectangular, short and wide or tall and narrow, as a single tank or multiple tanks simultaneously. It also offers remote control feature which allows for single or simultaneous multiple tank mixing for tanks that are located at various locations – near and far.

Pulse Air Serves These Industries Worldwide

PETROLEUM · WINE · FOODS · CHEMICALS · PAINTS · PAPER · WASTEWATER · WATER TREATMENT



Engineered Systems



Portable Mixers

On Spec., On Time, The First Time, Everytime!

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Standardized Pulse Air Mixing Systems



PM-200/1000

PM-200/1000 is a portable mixer that is compact enough to be held in your hands. It is a powerful, variable speed controlled and flexible handheld mixer to mix light to heavy viscosity products that are contained in drums, tote tanks, pre-mix tanks, small blending tanks up to 2,000 liters with the options of flexible add-on devices/attachments to cater for each type of container/tank blending requirement.



TN Series Mixers

TN Series is a simple to operate and cost effective system that is specially designed for batch mixing in small tanks of up to 200m³. It is catered for mixing applications only and is available as a fully pneumatic system or electro-pneumatic system that can mix a single tank up to a maximum of eight tanks that are located in the same area grouping simultaneously.

The TN Series comes with a standard 5" black & white touch screen for ease of usage, with option for color touch screen upon request. The systems uses a common mixing parameter setting for its mixing applications in the desired tanks in the same group. The parameter can be set easily for various mixing applications or pre-set to the desired parameter setting to mix a wider range of product applications.



TN Series Controller with/without Enclosure

Programmable System Controller Series (PSC Series)

Pulse Air PSC Series is an Intelligent Touch Screen with Smart Programmable Logic (PLC) Control System that can be installed at a remote location to allow control and monitoring for all mixing functions in a single to multiple tank installations. The System Controller allows for different parameter setting for each individual tank to cater to each tank's mixing requirement.

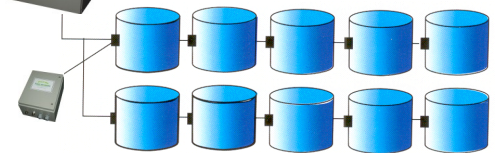
PSC Series offers a hosts of optional smart automation features like monitoring of product level/inventory in tank, product temperature in tank and remote surveillance and control!

The Controller offers greater flexibility to perform continuous operation, programmed operation, continuous intermittent operation and programmed intermittent operation according to each tank's required parameter setting.

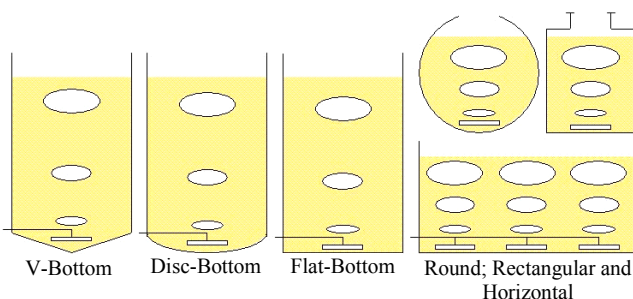
In addition, its Smart Operation feature allows for 2-stage mixing where two different parameters are set at different intervals. The system performs mixing at the first set of parameter within a pre-set time frame, after which the system will automatically switch over to the second set of parameters until the end of the process.



Typical PSC System Layout



Pulse Air Adapts To Any Tank Configuration



The Pulse Air Advantages :

1. Multiple Tank Mixing
2. Minimum Maintenance
3. Cost Effectiveness
4. Economy of Operation
5. Simplified Operation
6. Variable Speed Mixing
7. Energy Saving, Low Running Costs
8. Shortens Mixing/Blending Time