

# CHEMPLANT Winery Agitators

*“Our range of High Efficiency Side-Entry Agitators has been used extensively in the wine industry to reduce power consumption and maximise reliability.”*



Chemplant Side-Entry Agitators are a very flexible and cost effective method of agitating larger tanks. They include a range of features ensuring that they are easy to maintain on site and are available in a wide range of configurations.

## *“The RTF4 Hydrofoil”*

The RTF4 Hydrofoil impeller was hydrodynamically developed to reduce power consumption by maximising flow and minimising turbulence or shear. The RTF4 hydrofoil transfers the available energy into pure axial flow without turbulence at the impeller.



The RTF4 Hydrofoil achieves its high efficiency in three ways:

### *Increasing Width:*

The RTF4 blade is slim at the tip where the speed is greatest and wider at the base where the speed is lowest. This shape results in uniform flow across the impeller diameter.

### *The Twist:*

The twist in the RTF4 blade is evenly decreasing from the impeller hub out toward the tip. The twist is carefully proportioned to avoid turbulence anywhere on the blade.

### *The Arc:*

The key to high pumping is the arc, or radius which is geometrically shaped to provide a low angle of attack at the leading edge while allowing the trailing edge to direct powerful currents downward.

## Portable Agitators

Chemplant Portable Agitators are used for smaller applications where the flexibility of a clamp-on agitator is required.

They include the following features as standard:

Extended housing manufactured from cast aluminium includes a bearing to prevent bending moments being transferred back to the gearbox or motor.

The housing also includes a shaft seal to prevent ingress of particles into the housing.

An integral clamp which allows the agitator to be installed quickly and easily into the process vessel.

The swivel mount ensures that the shaft angle can be optimised for the process conditions.



*The following Chemplant Agitator options are available for the Wine Industry:*

*- Chemplant Direct Speed Agitators*

*- Chemplant Gear-Reduced Agitators (with or without retract mechanism)*

## Direct Speed Agitators

*Direct Speed Agitators* are the low cost option, but do require higher power. Direct speed agitators are available with straight and angled pedestal.



## Gear-Reduced Agitators

Chemplant *Gear-Reduced Agitators* have a lower power requirement, a lower load on the tank, and a longer seal life due to a lower shaft speed. Gear Reduced agitators are available with straight and angled pedestal.



Gear-Reduced Agitator with retract mechanism. The seal can be removed as an assembly with a full tank and replaced by an identical assembly without disturbing the agitator drive or vessel internals.



## Chemical Plant and Engineering Pty Ltd

Chemical Plant & Engineering Pty Ltd was formed in 1953 and is a wholly owned Australian company. Our range of agitators are designed and manufactured in Australia from locally sourced components.

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