

Built on a tradition of exceeding quality at every step.



# V-MAC SYSTEM

THERMOWELL WAKE FREQUENCY PTC 19.3 TW-2016

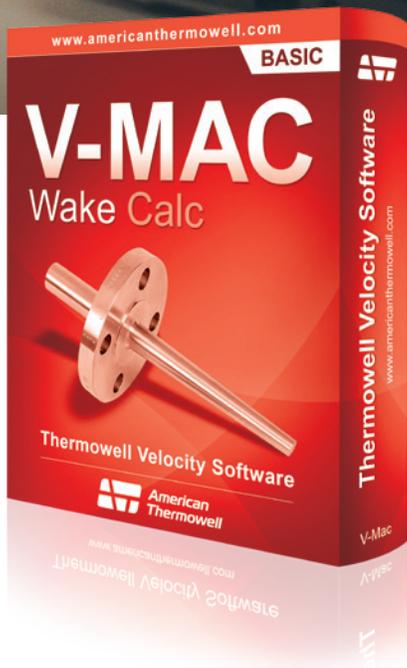


[www.americanthermowell.com](http://www.americanthermowell.com)

V-MAC comes with many features to ensure you have everything you need right at your finger tips.

Thermowell Data Entry - Inch

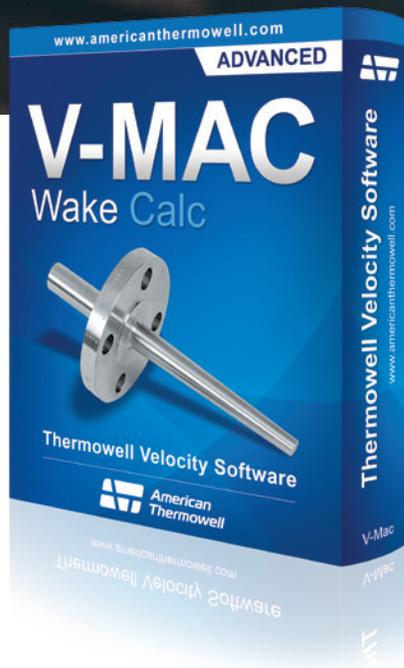
Thermowell Properties		Fluid Properties	
Date:	10/15/2011 10:00:02 AM	Process Fluid:	
Customer:	Mac-Ther	Gauge Pressure:	
Reference Number:	12345678	Viscosity (cP):	
Tag Numbers:	TW-12345		
Process Connection:	Flanged FP Weld		
Stem Style:	Tapered		
Flange Size   Rating:	2" 300#		
Flange Facing:	Raised Face		
Material:	304		
OAL Length:	310		
Bore Size:	317		
Unsupported Length (Uo):	321		
Shielded Length (Lo):	347		
Root Diameter (A):	446		
Tip Diameter (B):	30.94		
Tip Thickness (t):	0		
Fillet (Root):	0		



### V-MAC Basic

**\$4,000**

USD (1 License)



### V-MAC Advanced

**\$5,500**

USD (1 License)

# Thermowell Wake Frequency Analysis

V-MAC software sold by American Thermowell Machining Ltd.

## Thermowell velocity design software that's easy to use and ensures you meet the ASME PTC 19.3 TW 2016 code.

The ASME PTC 19.3 TW-2016 is the latest code that establishes the practical design considerations for thermowell installations in power and process piping. The current code evaluates a combination of static and dynamic forces, resulting from fluid impingement as well as external pressure acting on thermowell stem. It includes complex formulas for calculation of natural frequency, Strouhal frequency, in-line resonance and stress evaluation.

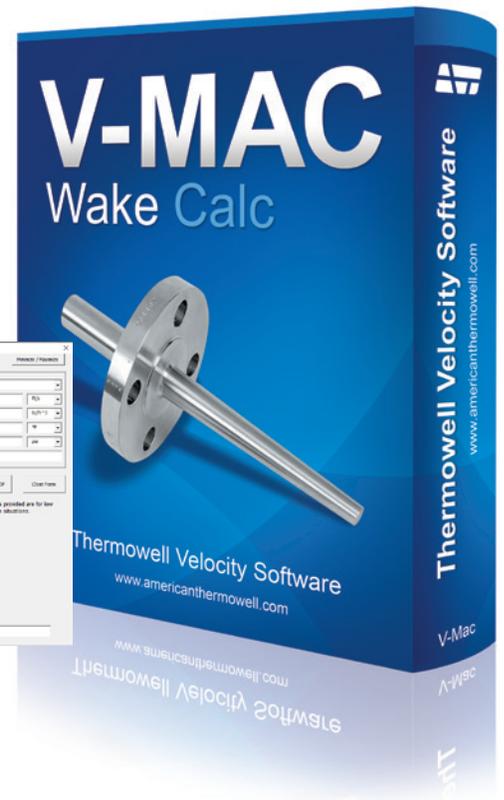
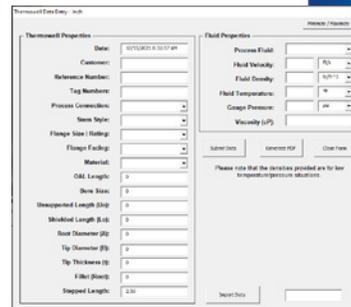
With each edition, the calculations became more and more complex. It is a great time to invest in the software that makes performing these complex calculations fast, easy and efficient.

Our system comes with many built in features to ensure you have everything you need right at your figure tips. Whether it be our 50+ preloaded materials, our convenient unit conversion tool, or simply our customizable print sheet. Our system ensures your customers get the information they need, in an easy to follow print sheet.

For a web demonstration, or more details contact us today.

### Key features standard with the V-MAC System:

- Our system comes preloaded with 50+ Materials
- Built in Unit conversion tool that handles temperature, pressure, velocity, and density.
- Ability to run calculations for flanged, threaded, socket weld, weld-in, and vanstone thermowells.
- Run 100 plus calculations with the click of a single button.



### System Requirements

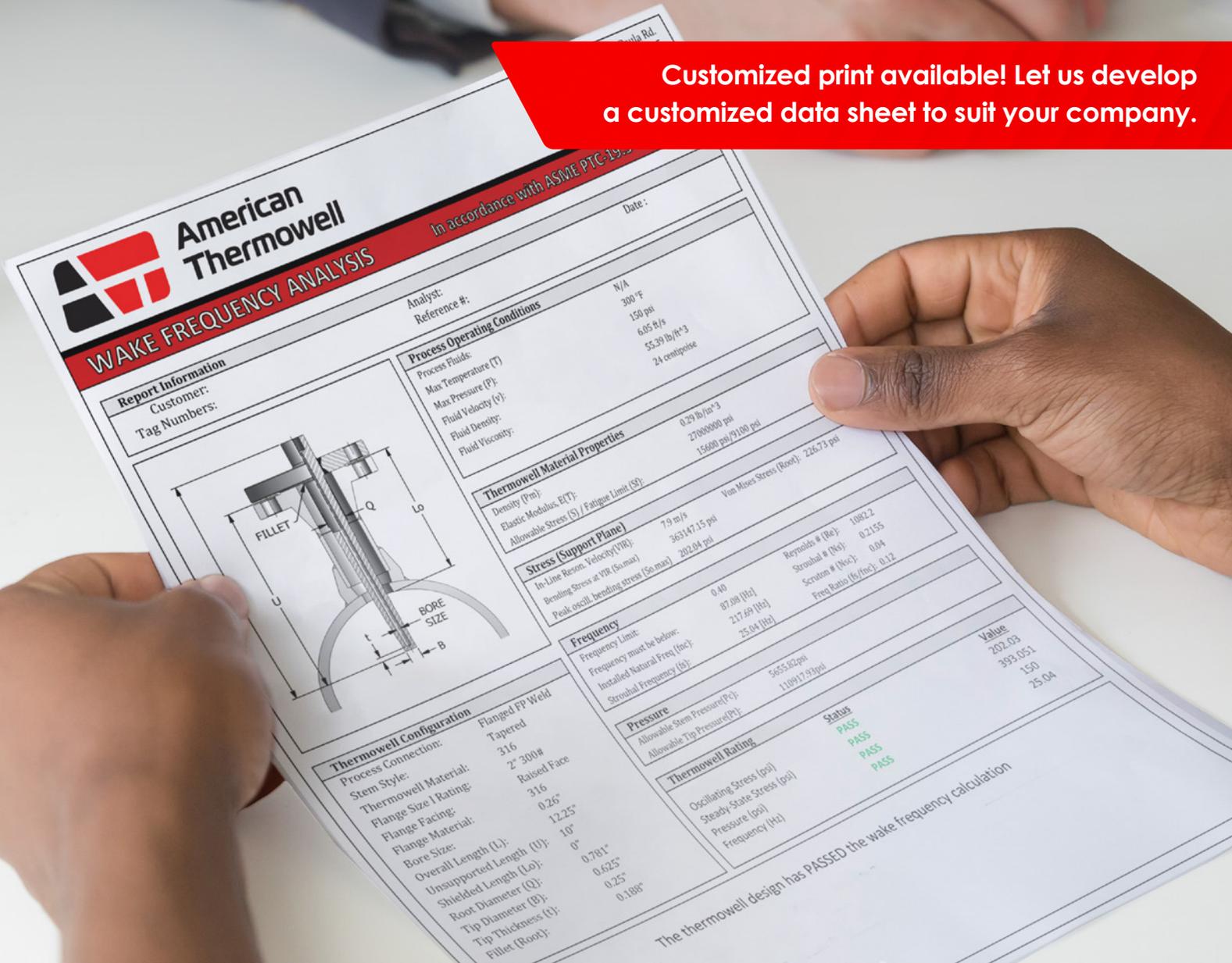
Operating System (Windows)	10 & 11
Microsoft Excel (32 bit)	Required
Support Concurrent users *	Yes

\* Requires a V-MAC Server License

### Features

	Basic	Adv.
1 Year Free Support	✓	✓
50+ Preloaded Materials	✓	✓
Multiple Thermowell Configurations	✓	✓
Enter Data in Imperial or Metric	✓	✓
Unit Conversion Tool	✓	✓
1 Click PDF Generator	✓	✓
Large Project Capability	✓	✓
Customized Print Sheet	✓	✓
Custom Material Add-on		✓

Customized print available! Let us develop a customized data sheet to suit your company.



## Wake Frequency Analysis Report

Your report is displayed in several key sections to easily identify and sort all the components and variables needed to generate your calculation.

This allows you to easily view your results, while also giving users the ability to check input field for any issues.

The *ASME PTC 19.3 TW-2016* applies to threaded, flanged and weld style *thermowells*, manufactured from bar-stock.

### These include several sections including:

- Process Operating Conditions
- Thermowell Configuration
- Material Properties
- Stress
- Frequency
- and more...



Flanged Thermowell



One of North America's largest thermowell and instrumentation hardware manufacturers.

# Solutions for all businesses

With multiple packages available, we can offer a solution that matches your needs.

## User License

If you find that your company is running a significant amount of calculations, then your best option is to purchase a **license**. This gives you the ability to run calculations in house, and drastically reduce your turn around time.

\* Additional licenses allow you to install the software on additional computers

\*\* Our server license is best for larger companies where many users will access the system using their business network

### Pricing - License

V-MAC Basic (1 License)	\$4000.00
V-MAC Advanced (1 License)	\$5500.00
Additional Licenses (2 - 5)*	\$750.00 ea.
Additional Licenses (6 - 10)*	\$550.00 ea.
Server License (15 users) **	\$3000.00
Maintenance / Support (1 Year)	FREE
Customize Print (One Time Charge)	\$500.00

All prices shown in USD

## Pay As You Go

Our **Pay as You Go** service, is best for those who do not typically run a large amount of calculations, however still need the option for the occasional customer. This option allows you to purchase calculations in bulk to save on small batch costs.

\* Calculations purchased using our Pay as You Go option must be used within 6 months from date of purchase

\*\* Purchase in bulk for greater saving

### Pricing - Pay As You Go

1 - 100 Calculations*	\$35.00 ea.
101 - 250 Calculations*	\$25.00 ea.
> 250 Calculations*	Call**
Customize Print (One Time Charge)	\$500.00

All prices shown in USD

### Easy to use features:

- Export to PDF format for easy sharing or file storage
- Import data for quick and easy calculations
- Submit an RFQ directly from the app to our facility
- Easy to read results with colour coded labels
- Dropdowns with common measurement units
- Support packages available



For a web demonstration,  
or more details contact us today.



## Flexible maintenance options available

### V-MAC Basic



Maintenance / Support	1 Year	3 Year
Software Updates	Included	Included
Email Support	Included	Included
Updated Documentation	Included	Included
Price	\$800.00	\$1400.00

### V-MAC Advanced



Maintenance / Support	1 Year	3 Year
Software Updates	Included	Included
Email Support	Included	Included
Updated Documentation	Included	Included
Price	\$1000.00	\$2000.00

All prices shown in USD. Our 3 year maintenance / support package gives you 3 years for the price of 2.

# Wake calculations made easy!

The ASME PTC 19.3 TW-2016 code is very complex, but does that mean that the software needs to be? We didn't think so either, so that's why when we set out to develop this system, we held nothing back. We wanted to create a system that was not only user friendly, but very accurate and consistent.

## Discover how V-Mac can help you and your customers today!

Contact a American Thermowell sales representative, and setup your free web demonstration.

✉ [sales@americanthermowell.com](mailto:sales@americanthermowell.com)

☎ 1-409-246-1111

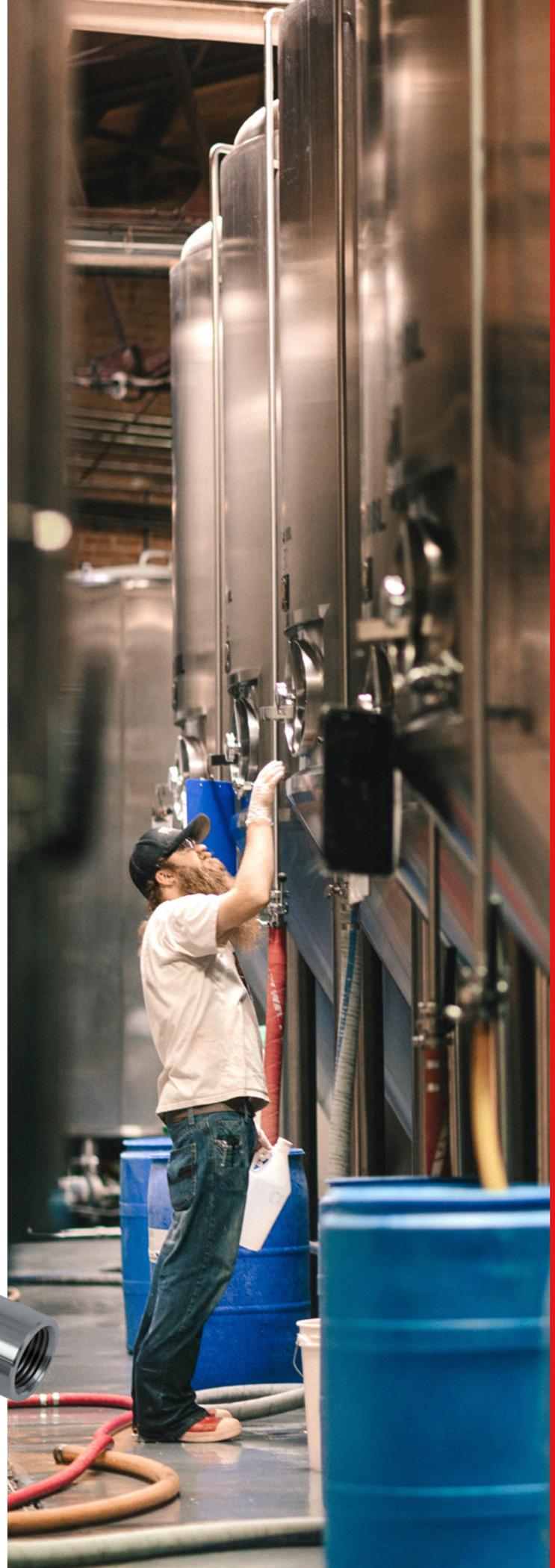
### Hours of Operation

Monday	8am - 4pm
Tuesday	8am - 4pm
Wednesday	8am - 4pm
Thursday	8am - 4pm
Friday	8am - 4pm
Sunday & Sunday	Closed



Socket-Weld  
Thermowell

Threaded  
Thermowell





American  
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FLOW | TEMPERATURE | PRESSURE | LEVEL



- ▶ Thermowells
- ▶ Orifice Plates
- ▶ Bleed & Flush Rings
- ▶ Gauge Siphons

📍 4861 Paula Road, Kountze, Texas 77625

📞 1-409-246-1111

✉ [sales@americanthermowell.com](mailto:sales@americanthermowell.com)