Fermentation Controller

The industry standard for red fermentation control and automation

TC-1

Overview

The TC-1 builds on the trusted temperature control and wireless connectivity of the PL-1, adding intelligent automation features specifically designed for red wine fermentations.

In addition to precise heating, cooling, and auto mode, the TC-1 includes dedicated outputs for automated pump-overs and venturi control, bringing hands-free efficiency to cap management and oxygenation during peak fermentation activity.

With support for WiFi 6 or Thread Mesh networking, the TC-1 connects effortlessly to TankNET® fermentation software for remote control, scheduling, and real-time fermentation insights.

Built for winemakers who expect more from their controls, the TC-1 delivers simple, reliable, and scalable automation for red wine fermentation.

Applications

- ✓ Built for red wine.
- ✓ Reduces manual work.
- ✓ Pump-over & Venturi controls.
- ✓ Scales easily as your cellar grows.

Key Features

Precise Heating and Cooling
Jump starts fermentation with gentle heat, then seamlessly transitions to free-rise

Venturi Control
Automate aeration to support yeast health and wine structure

IP-67 Rated Enclosure
Fully sealed, water-tight, and dust proof enclosure for harsh cellar and outdoor environments

Pump-Over Control
Automated pump-overs for consistent extraction and flavor development and labor savings

Real-Time Brix Integration
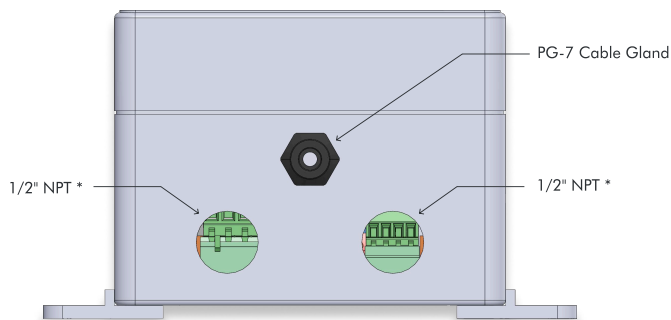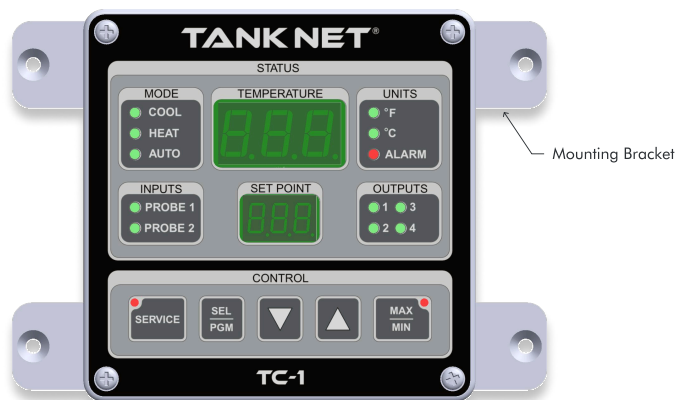Works with Acrolon's brix monitoring solution for actionable, real-time fermentation insights

Wi-Fi 6 or Mesh Networking
Robust and cost effective wireless integration with TankNET® software

Mounting Bracket

Optional Stainless Steel
Pole Mounting Bracket

PG-7 Cable Gland

1/2" NPT *

1/2" NPT *

*Use only IP-67 rated conduit fittings
REQUIRED FOR IP-67 PROTECTION

Model Selection Guide

🔌 **5000-W-024**
24VAC 50/60Hz
For low-voltage control panels

⚡ **5000-W-120**
120VAC 50/60Hz
For standard North-American line voltage

Available through **acrolon.com** or authorized resellers

Specifications

🏷 **Model**
TC-1

🌡 **Operating Temp.**
-10°C to 50°C

✅ **Safety Rating**
ETL Listed

🔌 **Input Voltage**
120VAC 50/60Hz at 0.15A
24VAC 50/60Hz at 0.39A

💧 **Enclosure**
Polycarbonate, UL50, NEMA-4X Rated

📏 **Dimensions (with brackets)**
164mm x 120mm x 94mm
6.5" x 4.7" x 3.7"

⌘ **Relay Output**
- **Cool**: Form-C, Fused @ 2A at 120VAC
- **Heat**: Form-C, Fused @ 2A at 120VAC
- **Pump**: Form-A, Fused @ 2A at 120VAC
- **Venturi**: Form-A, Fused @ 2A at 120VAC

(O) **Probes**
- **Input 1**: Two-wire temperature probe
- **Input 2**: Temperature Probe / 4-20mA Sensor

DESIGNED TO SCALE WITH · TANKNET ECOSYSTEM

*Specifications subject to change without notice