

The Coil 70m³ Tank

Overview:

The mobile Coil Tank provides both storage and heating for temporary liquid handling and processing.

The tank is fitted with steam coils in a continuous sloped serpentine loop and provides high efficiency heat transfer from steam to stored liquid while avoiding condensate build-up during the process.

The mobile coil tank variant has been designed, tested and CE certified for safety, process functionality and transport throughout Europe.

All documented test data is available on request to provide support with customer specific applications.

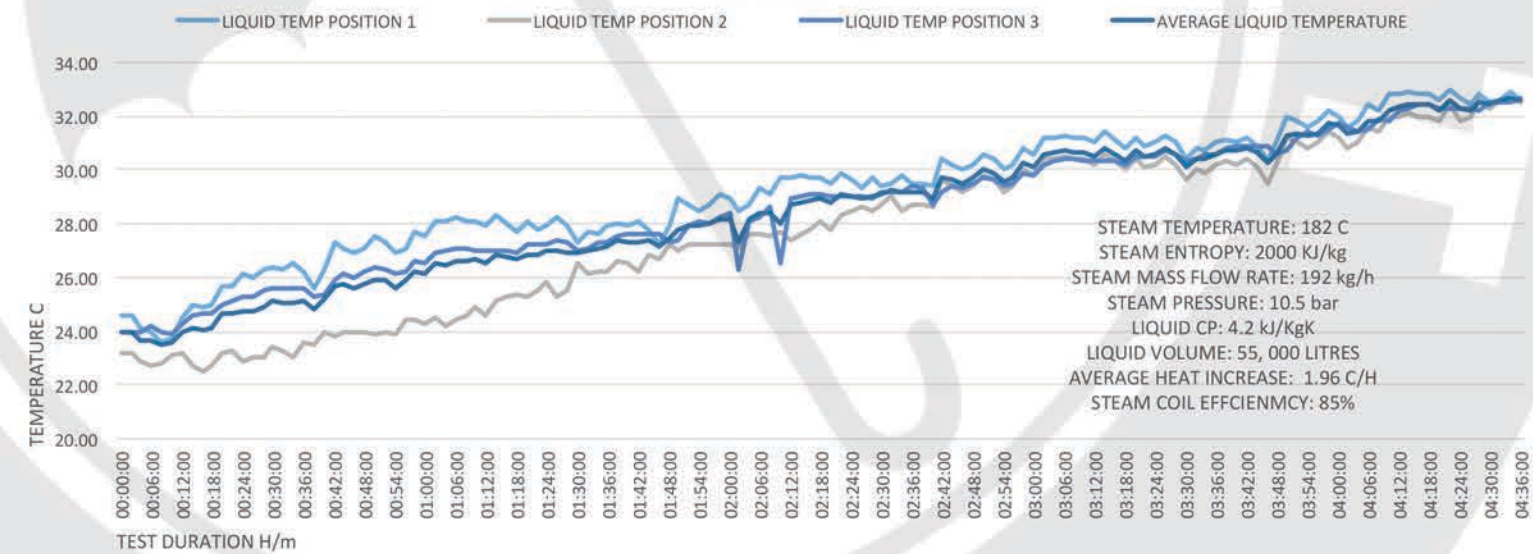
Features and Benefits:

- Protection against zero degree temperatures by maintaining liquid above the liquid freezing point
- Liquid temperature control for thermal sensitive process applications
- Liquid viscosity control for dense liquid movement applications
- Continuous serpentine configuration for high efficiency heat transfer
- Sloped and inclined configuration for the elimination of condensate build-up
- High pressure input and output connections for customer supplied steam services
- Field tested for safety adherence and process functionality
- V-sloped main floor for trouble-free cleaning
- Refined pneumatically-actuated rear suspension system ensures safe operation when raising and lowering
- Mechanical locking system for safe on road transport
- Remote valve actuation at the rear of the tank for tank filling and draining
- Integrated staircase ensures personnel protection, giving access to all upper manways, gauges, and connection points
- Large capacity on small footprint
- Transported and installed without the need for any plant lifting equipment

Optional Accessories & Equipment:

- E-Contain® Spillguards
- Spillguard Hose Bridge
- PipeStax®
- Level gauges

Dimensions & Construction	
Capacity:	70,000 Litres (70m ³)
Length:	11,667mm
Width:	2,530mm
Height:	3,970mm (Transport) 3,780mm (Service)
Weight:	approx. 12,250kg (empty)
Materials:	Carbon steel walls (6mm) Carbon steel reinforcements
Exterior Coating:	Weather resistant with durable chemical resistant coating around manway openings
Certification & Testing	
Design:	Designed per DIN 6625-2:2013 guidelines and approved to hold liquids up to 1.6 S.G.
Welding Inspections:	All welds joints fabricated per EN ISO 5817 inspected and inspected per EN ISO 3834.
Quality Control:	Manufactured by ISO 9001:2009 certified manufacturer to AD2000/HPO quality standards.
Hydrostatic:	Hydrostatic water test during construction. Retested during repairs and regular maintenance schedule.
Type Approval:	Approved for road transport throughout European Union per Directive 2007/46/EC.
Pressure Tested:	Steam coils have been tested to 20.7 bar under the pressure equipment directive.
Features & Accessories	
Ladder:	Galvanized fold-down ladder for safe access to landing
Access:	3 x 600mm hinged manways (1 x roof, 1 x rear wall, 1 x side)
Pipe & Hose Connections:	6 x DN 100 PN16 flanges (2 x roof, 4 x front - separator style)
2 x Drain Valves:	DN 100 PN16 (rear) 1 x DN 150 PN16 (front)
Temperature:	70 °C max. continuous (uncoated)
Relief Vent:	1 x Thief hatch, Buna-N®/NBR gasket, pressure setting 69m Bar, vacuum setting 1.3mmHg
Level Gauge:	Roof-mounted dial gauge (optional)
Steam Coils:	Recommended customer steam input services: Inlet steam pressure: 10- 10.5 bar Inlet steam mass flow: 190-220 kg/h Inlet steam temperature: 180-195 C Based on 55,000 litres of clean water the following liquid temperatures parameter have been achieved. Please see graph showing these results. Average steam coil temperature: 34.75 C Average liquid temperature increase per hour: 1.89 C/h Due to meticulous testing completed on the steam coil tanks, Rain for Rent can provide solid application support for desired liquid temperature parameters on a wide range of liquid types.



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