

# PRODUCT DATA SHEET

November, 2009

## EURO MIX TANK UNLINED with COILS

### GENERAL INFORMATION

Vapor tight steel tanks manufactured in Europe and used for blending or suspension of liquids and/or solids while being stored. Tanks have two sealed access hatches on top and one on the driver's side. Top-mounted pressure/vacuum relief valve. Smooth interior walls for easy cleaning. "V" shaped bottom improves drainage efficiency. Bottom-mounted pipe coils for steam heating.

### WEIGHTS AND MEASURES

» Capacity:	.....	68,000 litres (68 m <sup>3</sup> ) 68,000 kilos
» Height:	.....	3180 mm (service) 3380 mm (transport)
» Width:	.....	2505 mm (overall)
» Length:	.....	11500 mm (overall)
» Weight:	.....	14500 kg empty (approx)
» Temperature Limits: (dry resistance)	.....	70° C maximum (NBR)* 100° C maximum (EPDM/Viton) (Continuous limits)
» Viscosity Limit:	.....	254 centipoise (cP)
» Tank Outside Surface Area:	.....	185 m <sup>2</sup>

### STRUCTURAL DESIGN

» Floor:	.....	6 mm S235 carbon steel, "V" bottom sloping from each side to center
» Walls:	.....	6 mm S235 carbon steel
» Top Deck:	.....	6 mm S235 carbon steel
» Wall Frame:	.....	150 mm x 80 mm x 6 mm c-channel, S355 carbon steel
» Floor Frame:	.....	Longitudinal beams with flat plate cross bracing between beams
» Top Frame:	.....	150 mm x 80 mm x 6 mm c-channel, S355 carbon steel.

### SURFACE DETAILS

» Exterior Coating:	.....	Weather and chemical resistant high gloss polyurethane finish (green)
» Interior Coating:	.....	None

### FEATURES

» Valves:	.....	(1) front 6" 150# ANSI drain and (1) rear 4" 150# ANSI drain
» Relief Valve:	.....	(1) Cast aluminum thief hatch, NBR gasket, pressure setting 17 mbar, vacuum setting 1.7 mbar.
» Misc. Pipe Connections:	.....	(1) – front spare inlet/outlet (blinded), 4" 150# ANSI flange (1) – top deck 4" 150# ANSI flange (blinded) for vapor recovery or top fill (1) – top deck 6" 150# ANSI flanged for level gauging device

### FEATURES – con't

» Guardrails:	.....	Along top deck & landing, fold-down square, steel tubing
» Heating Coil:	.....	3" (88.9 x 5.5 mm) steel pipe in continuous serpentine layout; pressure rated to 12 bar; sloped for easy drainage. Heating surface of 7 m <sup>2</sup> . Design temperature is 190° C.
» Electric Motors	.....	(4) SEW 7.5 KW, Type CD132M. 230/400V, 50 Hz, 3 phase, 1440 RPM, 25.00/14.30 Amps, 1.0 Service Factor, II 2G EEx de IIC T4 Enclosure.
» Gearboxes:	.....	(4) SEW, Type KF87 AM132S/M. Reduction ratio 19.45:1. (Input speed: 1440 RPM, Output speed: 74 RPM). 60 mm diameter output shafts.
» Mixer Shafts:	.....	(2) 3040, (1) 2203, (1) 2075 mm Long x 60 mm diameter, C35-C.
» Mixer Blades	.....	Long (bottom) Blades: 12 mm thick x 150 mm wide x 432 mm long (992 mm swing path diameter) Short (upper) Blades: 12 mm thick x 150 mm wide x 295 mm long (718 mm swing path diameter)
» Top Entry:	.....	(2) – 600 mm hinged manways with restriction bars; NBR gaskets
» Side Entry:	.....	(1) – 600 mm hinged manway on driver's side of tank; NBR gasket
» Top Access:	.....	Front stairway to access landing
» Tires:	.....	275/70 R22,5 (doubles)
» Suspension:	.....	Air suspension

\* NBR material is standard. EPDM / Viton are optional materials.

### TESTS/CERTIFICATIONS

» Test and Certifications:	.....	<ul style="list-style-type: none"> <li>Approved for road transport throughout the European Union.</li> <li>Quality control inspections Level 1, 2 &amp; 3 on a scheduled basis.</li> <li>Hydrostatic water test after construction and major repairs. Tested to 1.3 specific gravity and 1 psi (69 mbar)</li> <li>Tank is produced according to CE and ATEX 95 : II 2G Ex de IIB T4</li> <li>TÜV NORD: Fertigung überwacht – Entwurf freiwillig geprüft nach DIN 6625 – Hersteller nach AD 2000-HP 0</li> </ul>
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### ELECTRICAL SPECIFICATIONS

» Power Supply and Motor Control:	.....	<ul style="list-style-type: none"> <li>400V, 3 phase regulated voltage &amp; current supply capable of supplying 50 Amp minimum (by customer's ATEX certified personnel).</li> <li>EX II 2G Ex de IIC T4.</li> </ul>
» Cable Specifications:	.....	Cable: 400V, 50 Amp, four core Min. 4x10 mm <sup>2</sup> up to 50 meters Min. 4x16 mm <sup>2</sup> up to 100 meters Max. outside cable diameter is 28 mm