

TU 12L Tank Unit

for Hazardous area Zone 2 with pumps and agitator

A single 12m³ (75 BBL) compartment tank containing an independent paddle mix system. This unit are designed specifically for applications in 3G areas (Zone 2) and is CE, NORSOK Z-015, DNV 2.7-3 and ATEX Zone 2 compliant. The unit can operate in ambient temperatures from -20° C to +50° C. Unit sound pressure level (SPL) is equal or below 83 dBA @ 1m according NORSOK Z-015 requirements.

Features:

- Hydraulic driven agitator and pump.
- Central operator panel.
- Tank housed in a strong crash frame.
- Quick and easy rig up.
- Certified to be lifted **with** content. DNV 2.7-3.
- Powered by external HPU or auxiliary hydraulic power.

Skid mounted hydraulic control panel with all essential gauges and control handles. Operating of 2 hydraulic motors (pump and agitator) for 2-way direction. Emergency stop valve is located below the control panel.



About Enerion:

Enerion is a leading provider of products and services to the energy sector. We have extensive experience in engineering, manufacturing and service of equipment and are committed to deliver flexible and future oriented solutions to our customers.

Technical data:

Max input hydraulic flow	: 0-180 lpm
Max input hydraulic pressure	: 210 bar
Max specific gravity (SG)	: 2,2 SG

Tank:

Design	: 12 m ³ (75 BBL), atmospheric tank. Pump suction. Flat bottom.
Piping material	: Carbon steel (A105)
Tank material	: Carbon steel (A105)
Frame material	: Carbon steel (S355 J2+N)
Valves	: 1 of hydraulic knife gate valve, 5 of manual butterfly valves

Pump:

Charge pump	: Johstadt progressive cavity pump, PF-FJ100-3
Charge pump motor	: 0-100 LPM @ 210 bar
Max flow	: 60m ³ /h @ 18 bar
Rated speed	: 200 rpm

Agitator:

Agitator	: Vertical w/double set of blades, outlet device and bottom bearing
Agitator hydraulic motor	: 0-80LPM@210BAR. Agitator max speed 60RPM
Agitator max torque	: 2767 Nm (at 210BAR at 85% efficiency)

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Interface:

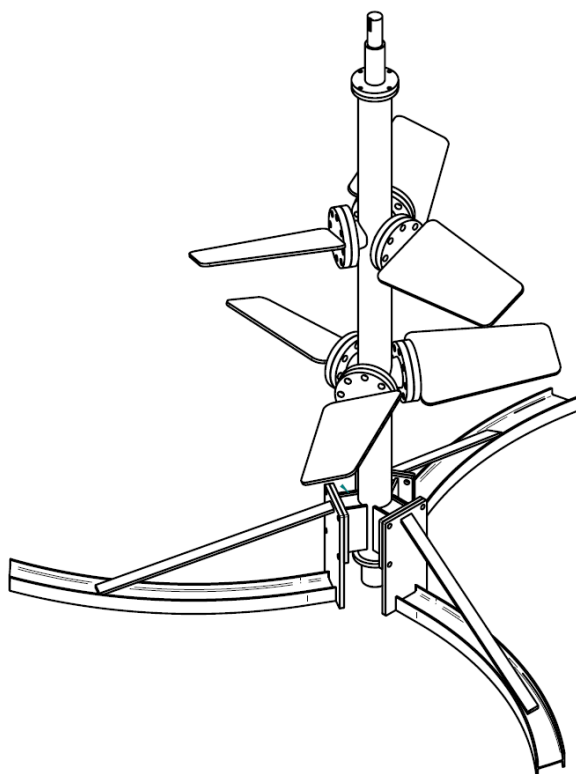
Air	: 5 – 8 BAR, 1" Chicago claw coupling
Filling connection	: 4" Hammerlug Fig 206 female (no wings)
Discharge connection	: 4" Hammerlug Fig 206 female (no wings)
Filling connection at top	: 4" Hammerlug Fig 206 female (no wings)
Drain connection in tank	: 4" Flange 150# RF, ASME
Hydraulic supply	: 1" quick connection (Snaptite 75 Female)
Hydraulic return	: 1" quick connection (Snaptite 75 Male)
Hydraulic leak	: 1/2" quick connection (Faster VVS Female)

Approvals:

CE marked	: Yes
ATEX	:  II 3G IIB T4
Lifting	: DNV 2.7-3, EN 12079
NORSOK	: Z-015:2020

Weight & Dimensions:

Length	: 4000 mm
Width	: 2540 mm
Height	: 3700 mm
Tare	: 7 000 kg
Max Gross Weight	: 40 000 kg
Payload	: 33 000 kg



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