The ATC System is a closed loop system that cleans mudtanks with Tank Cleaning Machines positioned inside the tanks. The system rinses the dirty washwater with a Washwater Recycling Unit before the water is pumped, with integrated pumps, back to the Tank Cleaning Machines. The closed loop is a continuous process.
ATC Unit (Separator)

ATC unit – main figures

- Water Capacity: 6.5 m³
- Maximum slop processing capacity: 33 m³/h (45 m³/h with expansion pack).
- Weight: 4500 kg (dry)
- Dimensions: LxWxH 3213x2435x2583 (mm)
- Lifting: By crane or forklift for installation
- Supplier: Shiptronics AS
# ATC Unit – Utility Schedule

<table>
<thead>
<tr>
<th>Utility Schedule /Consumption Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATC Unit No.</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Voltage / Hz</td>
</tr>
<tr>
<td>Maximum total power consumption</td>
</tr>
<tr>
<td>Maximum consumption per unit:</td>
</tr>
<tr>
<td>Tank Cleaning Machine (TCM) supply pump (Calpeda)</td>
</tr>
<tr>
<td>Maximum flow rate:</td>
</tr>
<tr>
<td>Sediment pump (Bellin)</td>
</tr>
<tr>
<td>Maximum flow rate:</td>
</tr>
<tr>
<td>Slop pump (Bellin)</td>
</tr>
<tr>
<td>Maximum flow rate:</td>
</tr>
<tr>
<td>Air consumption (Introduced into sediment pump outlet)</td>
</tr>
<tr>
<td>Total cleaning water capacity</td>
</tr>
<tr>
<td>Maximum capacity per unit: Lamella settler water capacity</td>
</tr>
<tr>
<td>Maximum capacity per unit: Buffer tank water capacity</td>
</tr>
<tr>
<td>Slop processing rate</td>
</tr>
<tr>
<td>Dry weight</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
</tbody>
</table>
How does it work?

ATC LITE – HOW IT WORKS

1. WRU - Water Recycling Unit
2. Buffer Tank
3. TCM Feed Pump
4. TCM - Tank Cleaning Machine
5. Slop Pump
6. Mud Tank
7. Sediment Pump
8. Mud Skip
How does it work?

Explanations to flow diagram; Loop between mud tank(6) and Water Recycling Unit/WRU(1):

The WRU(1) is filled initially with 6.5 m³ washwater. A pump(3) transfers water from the buffer tank(2) to the TCM(4) in the mud tank(6) which cleans the tank internals.

Under the mud tank(6) there is a slop pump(5) which transport dirty washwater back to the WRU(1).

The dirty washwater is routed through a strainer and a system which reduces turbulens (not shown) before it is further processed inside the WRU(1). Solids settle in the WRU tank(1) and are pumped with the sediment pump(7) into a Mud Skip(8).

Lamella sedimentation (not shown) in the upper part of the WRU tank(1) helps remove smaller particles. The WRU tank(1) which is constantly full, is assuring a clean washwater overflow into the buffer tank (2), and recirculation.
ATC LITE – Tank Cleaning Machines (TCMs)

Scanjet SC30A:

- Type: top mounted (through tank deck)
- Nozzle rotation: portable air motor
- Nozzles: 1x8mm
- Capacity: 10m³/h
- Cleaning pattern: Helical
- Connections: 6” flange to tank and 2 “Cam-Lock to water
- Weight: 44 Kg
- Air: consumption: 200l/min

With and without Drive Unit mounted
ATC LITE – Tank Cleaning Machines (TCMs)

SC15TW-GL

**Type:** top mounted (through tank deck), mounted to stand pipe

**Weight:** 9.6 kg (21.2 lb)

**Operating pressure range:** 4-12 bar (60-180 psi)

**Nominal pressure range:** 6-10 bar (85-145 psi)

**Max pressure:** 14 bar (200 psi)

**Max working temperature:** 95°C (200°F)

**Max ambient temperature:** 140°C (284°F)

**Rotation speed:** 2-4 rpm

**Connection:** Flange or treads

**Materials:** AISI316L, SS5204, SS5465, PEEK

**Gearbox Oil:** Shell Tivela S150
ATC LITE – Tank Cleaning Machines (TCMs)

Scanjet SC40A:
- Type: side mounted (through tank side)
- Nozzle rotation: portable air motor
- Nozzles: 2x8mm or 4x6mm
- Capacity: 20m³/h
- Cleaning pattern: crisscross w/densest pattern facing tank bottom
- Connections: 6” flange to tank and 2 “Cam-Lock to water
- Weight: 44 Kg
- Air: consumption: 200l/min