**Technical Index**

**Pump ID Meaning**

<table>
<thead>
<tr>
<th>SUBTRAN 2 x 180 x 5400</th>
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<td>(model) (stages) (impeller diameter in mm) (speed in rpm)</td>
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</table>

- **Applications**: Submerged pump for liquid transfer, LNG stations, micro-bulk delivery
- **Liquids pumped**: LIN, LAR, LNG
- **Drive type**: Direct submerged motor
- **Design pressure**: 20 bar / 290 PSI

**Test Procedure**

Each pump manufactured by CRYOSTAR is mechanically and cryogenically tested prior to shipment in our state-of-the-art testing facility to ensure that performance meets customer specification. The precision of measuring devices provides essential results: differential head, flow rate, seal gas consumption, pump efficiency, NPSH, noise and vibration levels – all documented and submitted to the customer.

**Quality**

Designed in compliance with guidelines like IGC 11/82 norm

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**Performance**

- Head (m) vs. Flow (l/min)
- Pump efficiency vs. Flow (l/min)
**Features**

1. Balanced and machined inducer, allowing lowest possible NPSH requirement, throughout the performance curve.
2. High efficiency closed impellers made from “lost wax” casting technology
3. Optimal shaped pump casing with machined axial diffuser
4. Aluminium cold end for light weight design
5. Special submerged electric motor cooled by pumped fluid
6. Motor bearings lubricated by the process fluid resulting in a “zero-maintenance” design

- Dimensionally designed to fit interchangeably into existing similar sump installations
- Immediate start / stop of the pump with minimal cool down time
- Robust sealless design for extended service life
- Very low noise level thanks to the submerged design

For more details please contact your local Cryostar representative