

# Model TC-34.2

## State-of-the-Art Submerged Motor Pumps



Sump Mounted Installation

In-tank and Removable Column Mounted Installations

### Specifications

Flow Range	gpm	1 – 1,600
	lpm	4 – 6,056
NPSHR	feet	0.5 – 5
	meter	0.15 – 1.5
Differential Head	feet	50 – 4,000
	meter	15 – 1,220
Pump Design Rating	hp	3.35 – 335
	kw	2.5 – 250
RPM Range	rpm	2,000 – 10,000

Consult ACD engineering for application specific performance ratings.

### Features & Benefits

- Active thrust balancing system for extended bearing life
- High efficiency hydraulics with low NPSHR inducer
- Light weight and compact
- Available in sump and in-tank designs
- Very wide operating range utilizing VFD control technology
- Features a quick electrical disconnect for ease of maintenance
- High efficiency compact permanent magnet motor
- All parts from wrought aluminum precision machined
- Vacuum jacketed sump
- Heavy duty ceramic bearings

### Applications

- Fuel supply systems for rail locomotives
- Low pressure marine fuel systems
- Booster feed pump for high pressure reciprocating pump applications
- Liquid storage transfer
- Bunkering operations
- Peak-shaving
- Trailer loading and off-loading
- High pressure pipeline injection
- Power generation

### Complete Pumping System

- High-efficiency submerged pump
- Vacuum jacketed sump
- Choice of VFD drive configuration from a variety of world class manufacturers – Factory sized and string tested
- Single or dual hermetically sealed electrical feedthrough with class approved junction box – ratings available up to 500 amps

### Liquids Pumped

- Nitrogen
- Argon
- Ethylene
- Ethane
- Methane (LNG)

### Optional Accessories

- Extank Liquid level monitoring
- Loss of prime detection (cavitation protection)
- Safety relief valve
- Dual conduit box per NFPA standards for LNG services
- Mechanical lifting systems for column mounted pump applications
- Long term storage container
- Vibration monitoring accessories
- Seal plates and foot valves for column mounted pump applications