

Model TC-34.2

State-of-the-Art Submerged Motor Pumps



Suction Pot Mounted Installation



In-tank and Removable Installations

Specifications

Flow Range	gpm	1 – 1,600
	lpm	4 – 6,056
	LH ₂ kg/hr	15 – 25,000
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
Speed Range	rpm	2,000 – 10,000

Consult Nikkiso ACD engineering to confirm available sizes and ratings.

Multiple sizes available. Not suitable for Oxygen service.

Features & Benefits

- Active thrust balancing system for extended bearing life
- High efficiency hydraulics with extremely low NPSHR inducer
- Lightweight and compact
- Available in sump and in-tank designs
- Special design VFD drive provides operation point control over the entire pump operating range
- Features a quick electrical disconnect for ease of maintenance
- Permanent magnet motor
- All parts from wrought aluminum are precision machined
- Vacuum jacketed sump
- Heavy duty ceramic bearings

Applications

- Fuel supply systems for rail locomotives
- Low pressure marine fuel systems
- HP Booster pump
- 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
- Custom made VFD drive – factory string tested
- Dual electrical feed thru hermetically sealed up to 500A

Liquids Pumped

- Nitrogen
- Argon
- Ethylene
- Ethane
- Methane
- Propane
- Hydrogen

Optional Accessories

- Differential pressure gauge
- Loss of prime detector (cavitation protection)
- Safety relief valve
- Dual conduit box per NFPA standards for LNG services
- Complete removal systems
- Long term storage container