



Markey Cryogenic Equipment Co.
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TC-34 Dual LNG Dispensing Pump Skid (2 Pumps)

Flowrate: 51 GPM
Pressure: 236 PSIG
Horse Power: 25 H.P.
Voltage: 460V

- 2 Dispensing submerged pumps with sumps
- 2 Sump temperature transmitters
- 2 Pump discharge pressure transmitter
Control Valves & Piping



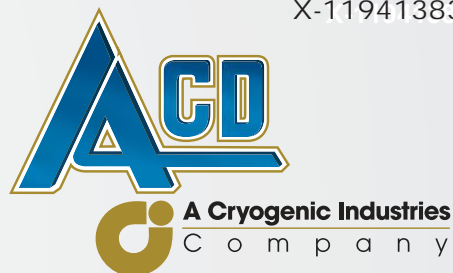
Your Cryogenic e-Marketplace



ACD CRYOGENIC INDUSTRIES		S.O. No.	450094	
Model	TC34	Duty	INTERMITTENT	
Assy PN	59435-1	Service	LNG	
Pump Size	1x2x6-2VSL	Capacity	51	GPM
Pump Speed	7200	RPM	Head	1175
Impeller Dia	6.00	IN	Power	14.7
Serial No.	144500941	NPSHR	3.1	Feet
Case Matl	BRONZE/SS	Suc Press	20	PSIG
Hydro Test		PSIG	Disch Press	236
Date Of Mfg	6/27/2014	Max Suc Pr	50	PSIG
52222-1	CHART P# 11941383			

ACD CRYOGENIC INDUSTRIES		Santa Ana, California, U.S.A.	
S.O.#	450094	AC Motor	
Part No.	52366-2	Service Factor	1.00
HP	44	Code	H
RPM	5750	Design	F
Phase	3	Insulation	
Hz	102	Time Rating	
Voltage	460	Max Ambient °C	0
Amps	55	Frame	
Type	SUBMERSIBLE	Serial No.	144500941
16268-1			

75031	
DUPLICATE	
CERTIFIED BY: CHART INC.	
NEW PRAGUE, MINNESOTA USA	
PUMP SUYP	
INNER VESSEL ONLY	
MAWP	250 PSI AT 100 °F
MIN DESIGN METAL TEMP	-321 °F @ 150 PSI
SERVICE RESTRICTED OPERATING TO THE FOLLOWING TEMPERATURE	
LIQUID:	MINUS [] °F
LIQUID:	MINUS [] °F
LIQUID:	MINUS [] °F
SERIAL NUMBER:	27417
YEAR BUILT:	2015
TARE WEIGHT:	[]
APPROVAL #	[]
MADE IN THE U.S.A.	



MODEL TC-34

SUBMERGED MOTOR PUMP



SPECIFICATIONS		
Flow Range	gpm	2 – 135
	lpm	8 – 510
NPSHR	feet	3 – 12
	meters	1 – 4
Differential Head	feet	50 – 1,600
	meters	15 – 488
Pump Design Rating	hp	10 up to 38
	kw	7.5 up to 34
RPM Range*	rpm	1,500 – 7,200



Not suitable for O₂ service

* See back page for details

FEATURES & BENEFITS

- Gastight design
- Pump and motor are fully submerged in liquid minimizing loss and guaranteeing quick response pumping
- Vacuum jacketed sump provides extremely low heat leak—ideal pumping conditions (optional)
- Seamless and submerged design minimizes maintenance requirements
- Vertical pump design provides greater stability and longer life
- Special design VFD motor provides broad range of operation

APPLICATIONS

- Use where product loss is not acceptable
- Liquid storage transfer
 - Mobile delivery transfer – LAR, LN₂
 - Vehicle fueling stations – LNG

LIQUIDS PUMPED

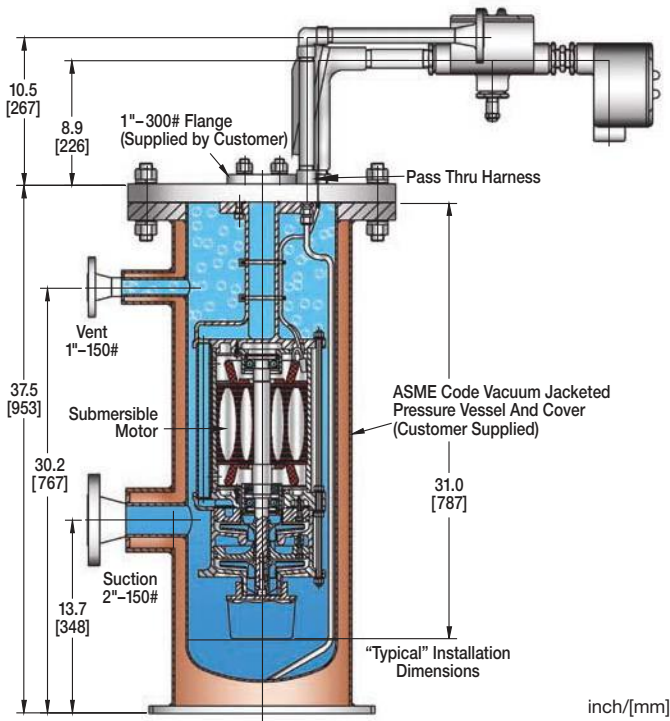
- Liquid nitrogen
- Liquid argon
- Methane (LNG)

OPTIONAL ACCESSORIES

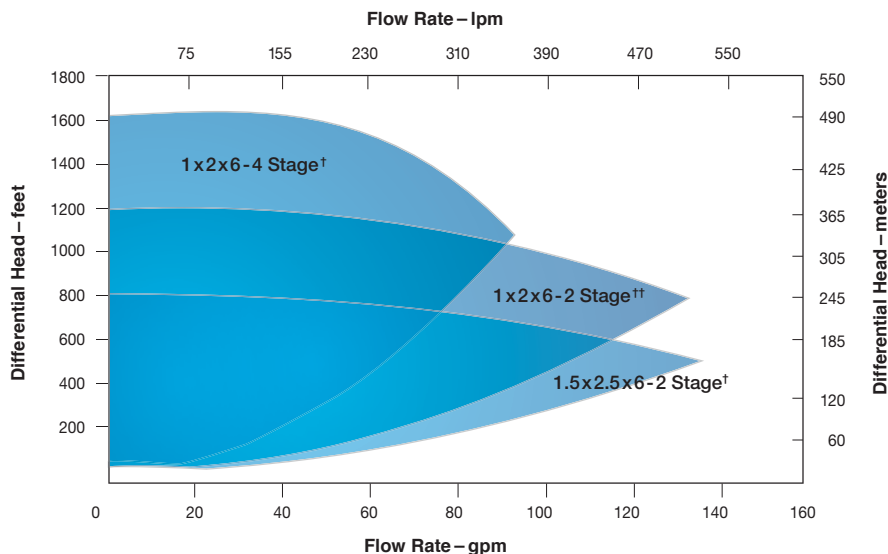
- Vacuum jacketed sump
- Variable frequency drive
- Differential pressure gauge
- Loss of prime detector (cavitation protection)
- Safety relief valve
- Dual conduit box per NFPA standards for LNG service

MODEL TC-34

OVERALL DIMENSIONS: SUCTION BARREL MOUNTED



PUMP PERFORMANCE CURVE



[†] Speed range – 1,500 to 6,000 rpm

^{††} Speed range (KA) – 1,500 to 7,200 rpm

Note: Consult factory for LNG/LN₂/LAR pump speeds

TYPICAL SCOPE OF SUPPLY

- Pump and integral VFD designed motor with hermetically sealed lead through
- Mounting flanges for mating connections
- Junction box

MANUFACTURING



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