



## MODEL AC/TC-21

### BELT BOX CONFIGURATION



SPECIFICATIONS		
Flow Range	gpm	10 – 180
	lpm	35 – 680
NPSHR	feet	2 – 8
	meter	0.6 – 2.5
Differential Head	feet	100 – 1,100
	meter	30 – 335
Pump Design Rating	hp	5 – 30
	kw	3.75 – 22.5
Speed Range	rpm	2,000 – 8,400

Consult ACD engineering for actual performance ratings.



#### FEATURES & BENEFITS

- Belt drive design allows for higher speeds
- Belt tension mechanism increases life of the timing belt and bearings
- Lightweight aluminum belt housing construction reduces overall pump weight
- Belt drive components have “full tooth engagement” for greater capacity and longer life
- Bearing purge ports are provided for liquid oxygen applications
- Cold end can be removed as a single piece, simplifying maintenance
- All bronze construction allows for O<sub>2</sub> compatibility

#### APPLICATIONS

- Liquid storage transfer
- Liquid cylinder filling
- Trailer off-loading (ground mount)
- Test facility support
- Laboratory research

#### LIQUIDS PUMPED

- N<sub>2</sub>, O<sub>2</sub>, Ar
- Methane (LNG)

#### TYPICAL SCOPE OF SUPPLY

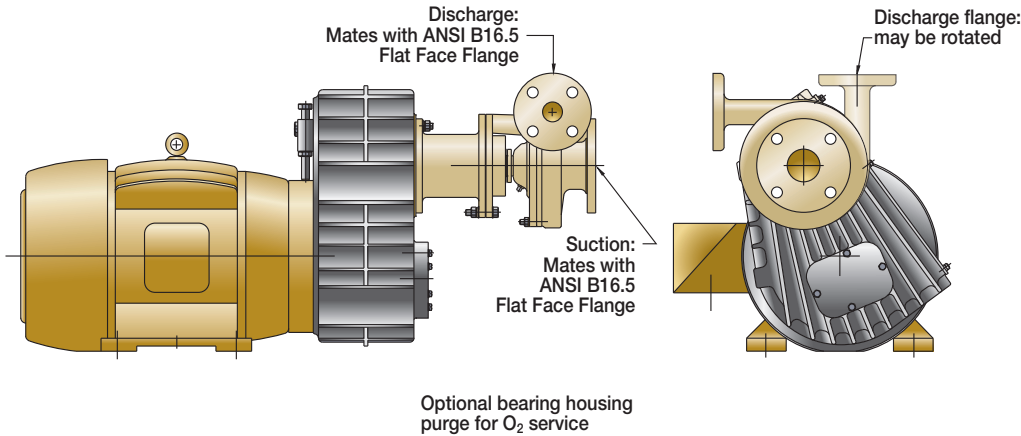
- Pump, belt box, TEFC motor shown
- Grease packed bearings
- Motor purge ports
- Long life mechanical seal (CFS)

#### OPTIONAL ACCESSORIES

- Bearing purge seal
- Spare parts kit
- Gas riding seal

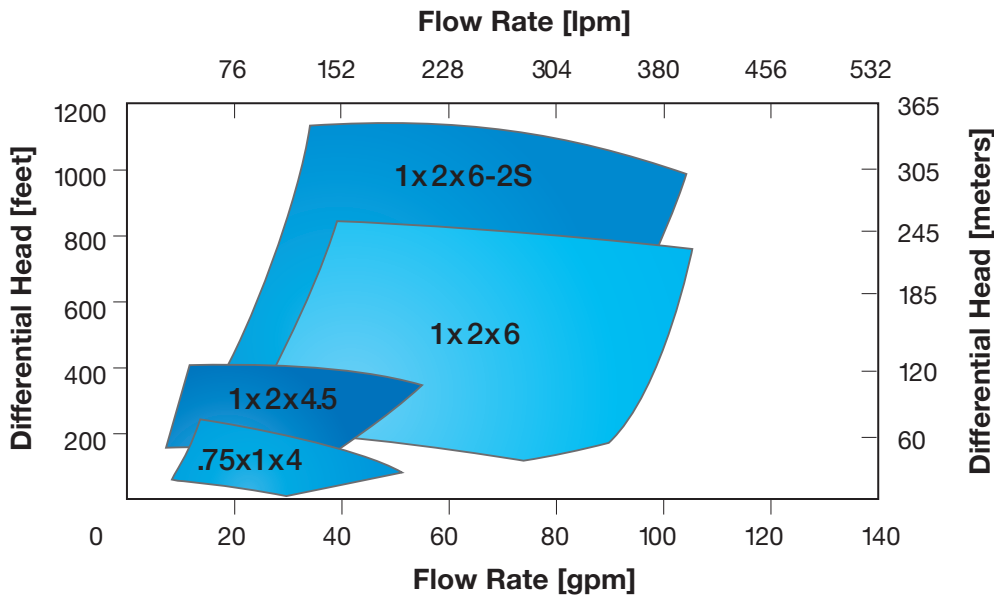
# MODEL AC/TC-21

## TYPICAL INSTALLATION



Contact ACD for dimensional information.

## PUMP PERFORMANCE CURVE



### Speed Range:

.75 x 1 x 4	3,950 to 7,000 rpm
1 x 2 x 4.5	4,700 to 7,400 rpm
1 x 2 x 6	3,950 to 8,400 rpm
1 x 2 x 6-2S	3,900 to 7,400 rpm

60 HZ performance

## MANUFACTURING



2321 S. Pullman Street  
Santa Ana, CA 92705 USA  
Tel 800.525.4216 (USA only)  
Tel +1.949.261.7533  
Fax +1.949.261.6285  
acd@acdllc.com • acdllc.com



Gutenbergstrasse 1  
CH-4142 Muenchenstein Switzerland  
Tel: +41.61.413.0230  
Fax: +41.61.413.0233  
sales@acdryo.com • acdryo.com

## GLOBAL SERVICE

### NORTH AMERICA

#### Atlanta

Atlanta, Georgia, USA  
+1 404.696.8113 • Fax +1 404.696.8116  
sales@cryoatlanta.com • cryoindservice.com

#### California

Santa Ana, California, USA  
+1 949.724.8636 • Fax +1 714.641.1921  
sales@cryocal.com • cryoindservice.com

#### Houston

Houston, Texas, USA  
+1 281.590.4800 • Fax +1 281.590.4801  
sales@cihouston.com • cryoindservice.com

#### Pittsburgh

Imperial, Pennsylvania, USA  
+1 724.695.1910 • Fax +1 724.695.1926  
pittcryo@pittcryogenic.com • cryoindservice.com

#### Red Deer

Red Deer, Alberta, Canada  
+1.403.352.4436 • Fax +1.403.352.4439  
sales@cryocanada.com • cryoindservice.com

#### Toronto

Toronto, Ontario, Canada  
+1 416.502.1950 • Fax +1 416.502.1952  
info@cryocanada.com • cryoindservice.com

### INTERNATIONAL

#### Australia

Dandenong, Victoria, Australia  
+61.3.9791.7888 • Fax +61.3.9769.2788  
sales.au@cryoquip.com • cryoquip.com

#### Brasil

São Paulo – SP, Brasil  
+55 11 9619.6532 SP  
sales.br@acdcom.com • www.acdcom.com

#### China

Hangzhou, China  
+86.571.8869.0788 • Fax +86.571.8869.0715  
hci@mail.hz.zj.cn • cryoindservice.com

#### Europe

D-79415 Bad Bellingen Germany  
+49.7635.8105.0 • Fax: +49.7635.8965  
info@acdryo.com • acdryo.com

#### India

Vadodara, Gujarat, India  
+91.265.283 0113 • Fax +91.265.283 0112  
npatel@acdllc.com • acdcom.com

#### Korea

Yongin-si, Gyeonggi-do, Korea  
+82.31.286.6114 • Fax +82.31.286.6118  
info@ci-korea.co.kr • cryoindservice.com

#### Malaysia

Shah Alam, Selangor D.Ehsan, Malaysia  
+603.5740.8770 • Fax +603.5740.8775  
cryogen@po.jaring.my • cryoindservice.com

Bulletin No. ACD AC/TC21-R2.09

© 2009 ACD LLC, Printed in USA