MTH PUMPS
T31 Series

- Capacities to 10 GPM
- Heads to 300 Feet
- Low NPSH Requirements
- Horizontal Close Coupled
- Flex Coupled

T31 SERIES
Composite Curves

T31 SERIES (60 Hz ODP Service Factor Motor Horsepower Selections*) 3450 RPM

OPEN DRIP PROOF MOTORS ONLY

* Horsepower data is valid for 1.0 specific gravity fluids only

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Dated January 2008
* Horsepower data is valid for 1.0 specific gravity fluids only
**T31 Series**

**Performance Curves**

**T31A 3450 RPM**

- **Head-Capacity**
- **% Efficiency**
- **BHP**

**T31A 2880 RPM**

- **Head-Capacity**
- **% Efficiency**
- **BHP**

*Indicates altered performance at NPSH Available

* Horsepower data is valid for 1.0 specific gravity fluids only

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Dated January 2008

MTH PUMPS
401 West Main Street • Plano, IL 60545-1436
Phone: 630-552-4115 • Fax: 630-552-3688
Email: SALES@MTHPUMPS.COM
http://WWW.MTHPUMPS.COM
T31 SERIES

Performance Curves

**T31B 3450 RPM**

- Head-Capacity
- % Efficiency
- BHP*
- EFP

**T31B 2880 RPM**

- Head-Capacity
- % Efficiency
- BHP*
- EFP

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*Indicates altered performance at NPSH Available

*Horsepower data is valid for 1.0 specific gravity fluids only
T31 SERIES

Performance Curves

T31C 3450 RPM

U.S. GALLONS PER MINUTE

HEAD IN FEET

% Efficiency

BHP*

NPSH 4'

% Efficiency

BHP*

NPSH 4'

T31C 2880 RPM

U.S. GALLONS PER MINUTE

Indicates altered performance at NPSH Available

* Horsepower data is valid for 1.0 specific gravity fluids only
T31 SERIES

Performance Curves

T31D 3450 RPM

T31D 2880 RPM

- Indicates altered performance at NPSH Available

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# T31 SERIES Performance Curves

## T31F 3450 RPM

**U.S. Gallons Per Minute**

0 2 6

**Head in Feet**

0 100 200 300 400 500

**BHP**

0 0.5 1.0 1.5 2.0

**Efficiency**

0% 10% 20% 30% 40%

---

**Indicates altered performance at NPSH Available**

*Horsepower data is valid for 1.0 specific gravity fluids only*

---

## T31F 2880 RPM

**U.S. Gallons Per Minute**

0 2 6

**Head in Feet**

0 100 200 300 400 500

**BHP**

0 0.5 1.0 1.5 2.0

**Efficiency**

0% 10% 20% 30% 40%

---

**Indicates altered performance at NPSH Available**

*Horsepower data is valid for 1.0 specific gravity fluids only*
T31 SERIES

Performance Curves

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**T31G 3450 RPM**

- **Head-Capacity**
- **BHP**
- **% Efficiency**

**NPSH**

- 4'
- 7'
- 10'

---

**T31G 2880 RPM**

- **Head-Capacity**
- **BHP**
- **% Efficiency**

**NPSH**

- 4'
- 7'

---

*Indicates altered performance at NPSH Available

*Horsepower data is valid for 1.0 specific gravity fluids only*
T31 SERIES

Performance Curves

T31H 3450 RPM

T31H 2880 RPM

Indicates altered performance at NPSH Available

* Horsepower data is valid for 1.0 specific gravity fluids only
**Dimensions**

**Horizontal Close Coupled**

![Diagram of Horizontal Close Coupled Pump Dimensions]

**T31 SERIES • THREE PHASE • HORIZONTAL CLOSE COUPLED**

<table>
<thead>
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<th>FRAME</th>
<th>ENCL</th>
<th>D</th>
<th>E</th>
<th>H</th>
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<th>2F</th>
<th>HS</th>
<th>HD</th>
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<td>TEF</td>
<td>2 1/16</td>
<td>2 3/16</td>
<td>1/4-20</td>
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<td>7 1/8</td>
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<td>TEF</td>
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**T31 SERIES • SINGLE PHASE • HORIZONTAL CLOSE COUPLED**

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<td>6 3/4</td>
<td>7 13/16</td>
<td>18</td>
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**NOTES**

All dimensions in inches. May vary ± ¼ inches.

Not for construction purposes unless certified.

*See motor dimension (Section Motors) for “C-AH” dimension (varies depending on motor enclosure).
P2 Bearing Frame

4-H Taps

Optional Steel Base (Not included in standard price)

4-17/32 Dia. Foundation Holes

T31 SERIES WITH P2 BEARING FRAME

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<td>24</td>
<td>3 1/16</td>
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</table>

NOTES
All dimensions in inches. May vary ± ¼ inches.
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*See motor dimension (Section Motors) for “C-AH” dimension (varies depending on motor enclosure).