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EXPANSION \& PUMP TANKS

Reliance Water Heaters 500 Tennessee Waltz Parkway
Ashland City TN 37015 Ashland City, TN 37015
Reliance Hotline: 1-800-365-4054 www.reliancewaterheaters.com



| Model Number | Water Heater Expansion Tanks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Cinenions |  |  |
|  |  | 40 PI | 60 PsI | A | в |  |
| Etc-2x | 1.96 | 1.27 | ${ }^{1.03}$ | 8\%/9 | 121/2 |  |
| eit-5x | 4.55 | 3.05 | 2.19 | ${ }^{117 \%}$ | ${ }^{14 \%}$ | ${ }^{8}$ |
| eit-10x | 9.21 | 6.55 | 5.25 | 15\% | 15\% | 20 |

WHY PUMP TANKS ARE IMPORTANT
A punm tank is an essential patt of any well system, delivering
these benefits:
${ }^{7}$ It ensures that vour punp will un for at least one minute
n It stoeses supplemental water suply between pump yccles. to reduce the number of
helps prolong pump life.
${ }^{7}$ It hepss maintain water pressure within vour systen, ensuring
proper operation of your disiswaster and washing machine,
and robust fow for showeing and bathing. A property sized dump and punp tank will work asa team to neet
your needs and wiild delier mand years of feependable senice.

## HOW TO SIZE A PUMP TANK

1.If you know your current punp siee use columns 2 and 3 in the
siing chart to mave yourtank selection. sizing clat to make your tank seletion.
2.If you do not know your punp size or the size of your current
tank, count all your water fixtures. Be sure to icclude sinks, tubs, showereneads, outside faucets, utility sinks, dishwasher, washing machine, etc. Count each hixture individuall. Use
colums 1 and 3 in the size chatr to make your tank seletion.
 make your tank selection.

| SIIING CHART |  |  |  |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| Number of | ESTIMATED | DIAPHRAGM | "STANDARD" |
| WAIER FIXTURES | PUMP SIZE | tank models | tank SIIES |
| UPT0 7 | $5.76 \mathrm{gm*}$ | PMD-20, PMOH-20 | 42 Callow |
| 8.12 | 10 GpM* | PMD-45 | 82 gallon |
| 13-16 | $12-15 \mathrm{Gm}{ }^{\text {* }}$ | PM0.65 | 120 gallon |
| 17-28 | $20.6 \mathrm{PM}^{*}$ | PMM-85, PMO-119 | 2206 ALl |

HOW TO INSTALL A PUMP TANK
tahb STA-CHARGEE Pressurized Diaphragm Tank includes a
detailed. manual that takes ou stepeby-step through detailed, manual that takes you
instalatoon proceduese such ass

1. Determining proper tank location.
2. Attaching the acceptance fititings.
3. Adjusting the tank pre-charge pressure.
4. Leveling the tank and comnecting it to
5. Leveling the tank and
6. Fine-tuning the tank to assure lag-fre deliver.

## OOLS NEEDED FOR installation <br> Screwdriv <br> ${ }^{n}$ Pipe Wrenc

| MODEL | $\begin{aligned} & \text { VOL. } \\ & \text { US GAL } \end{aligned}$ | $\begin{aligned} & \text { DRAWDOWN } \\ & 30-50 \text { PSI } \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { CON SIZE } \\ \text { NPT } \\ \text { NNCHES } \end{array}$ | $\begin{gathered} \text { INCHES } \end{gathered}$ | $\begin{gathered} \text { inches } \end{gathered}$ | $\begin{gathered} \text { INCHES } \end{gathered}$ | $\begin{gathered} \hline \text { SHIPPING } \\ \text { WEIGHT } \\ \text { LBS } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FREE STANDING PUMP TANKS |  |  |  |  |  |  |  |
| PMD-14 | 14 | 4.3 | 1 F | 24 | 2 | $153 / 8$ | 24 |
| PMO-20 | 20 | 6.2 | 1 F | 31 | 2 | $153 / 8$ | 34 |
| PMD-26 | 26 | 8.1 | 1 F | $381 / 2$ | 2 | $153 / 8$ | 40 |
| PMD-32 | 32 | 9.9 | 1F | 46 | 2 | $153 / 8$ | 52 |
| PMD-45 | 45 | 13.9 | 11/4 F | $351 / 2$ | 2 | 22 | 65 |
| PMD-65 | 65 | 20.1 | 11/4 F | $471 / 2$ | 2 | 22 | 90 |
| PMD-85 | 85 | 26.7 | 11/4 F | $601 / 8$ | 2 | 22 | 114 |
| PMO-119 | 119 | 37.0 | 11/4 F | 61 | 2 | 26 | 161 |
| IN-LINE PUMP TANKS |  |  |  |  |  |  |  |
| PMDI-2 | 2 | . 6 | $3 / 4 \mathrm{M}$ | $121 / 2$ | - | $83 / 8$ | 4.5 |
| PMDI-5 | 4.6 | 1.4 | 3/4 M | 143/4 | - | 113/8 | 7.5 |
| PMoI-7 | 7 | 2.3 | 3/4 M | 187/8 | - | 113/8 | 11 |
| PMOI-14 | 14 | 4.3 | 1 M | 24 | 2 | $153 / 8$ | 24 |
| HORIZONTAL PUMP TANKS |  |  |  |  |  |  |  |
| PMOH-7 | 7 | 2.3 | 3/4 M | 187/8 | - | 113/8 | 11 |
| PMDH-14 | 14 | 4.3 | 1 M | 20 | - | $153 / 8$ | 24 |
| PMDH-20 | 20 | 6.2 | 1 M | 28 | - | 153/8 | 34 |

MODEL, ITEM, DIMENSIONS \& DRAWDOWN

## Drawdown is the actual use can deliver during a cycl.

Can turnga a ycle.

NOTE: The maximum working pressure is 100 PSI. Install a pressure
relief value on every pump installation.
horizontal

set for your pump tank. Prawdown isa function of the tank volung.
Approximately 1 /3rd of the tank total volume is usble e water.


in-line


A TYPICAL PUMP TANK INSTALLATION


REPLACING AN EXISTING PUMP TANK
A standard pump tank can be replaced with a diaphragm tank. This
will ensure operation of a maintenance-free system.
$n$ Install a pressure relie valve at the tank connection to ensure system
${ }^{n}$ Install a pros
$n$ Be sure to plug the air port on a jet pump, since outside air is no
longer needed.
${ }^{n}$ All open bleeder orafaces in the well casing must be plugged. NOTE: A pressurized tank always takes up less space than a similar
capacity standard pump tank.

DIAPHRAGM PUMP TANKS
n For dependable protection of your jet
or submersible well pump
n Steel shell with powder-coated exterior
$\cdots$
n Metal air charge valve
n Metal air charge valve
is convenently located and
resistant to mechanical damage
Strong butyl diaphragm delivers
Eppoxy-coated inner shell protects the water reservoir
HOW A DIAPHRAGM PUMP TANK WORKS

| 1. START-UP CYCLE | 3. HOLD CYCLE |
| :---: | :---: |
| Diaphragm is pressed against the bottom of he chamber | Pump-cutoff pressure is attained. Diaphragm |
| 2. FILL CYCLE | Reservoir is now filed to it rated capacity. |
| into the reservoir,which forces the | 4. DELIVERY CYCLE |
|  | Pump remains shut |
| diaphragm upward into the air chamber. | off while air pressure |
|  | in top chamber |
|  | forces diaphragm |
|  | downward, delivering |



We also offer glass-lined tanks up to 120 gallons and galvanized tanks
up to 900 gallons. Please call $1-800-365-4054$ for more information.

