

# TALCO Fire Systems

## RESIDENTIAL FIRE PUMP PRODUCTS



## RESIDENTIAL FIRE PROTECTION PRODUCTS

The **Talco Home Hydrant** brand fire pump system is a completely integrated fire riser, pump, and water storage tank system. Versatility, competitive pricing, and appliance-like good looks makes our flagship Home Hydrant the preferred choice of home owners and home builders alike.



**LSF Series** (*Limited Service Fire*) fire pump systems are suitable for applications using city water (booster service), private wells, or water storage tanks. The LSF's electric control system features a full voltage contactor and minimum run timer for safe and reliable operation.



**\*\*Flow Smart (FS)** series pumps are the industry's price leader. These simple, reliable pump systems are designed for tank use only and provide reliable and worry free operation for any homeowner.



**HDR** (*Heavy Duty Residential*) packaged fire pumps are designed for more demanding NFPA13D applications. These systems are built using heavy duty cast-iron bronze-fit pumps with UL listed residential controllers and fitted out as if they were NFPA13R fire pump systems.



**13-ULV** systems are built around UL/FM listed vertical inline fire pumps. These packages are configured for NFPA13R/20 compliance. Jockey pumps are available as an option.



**Tanks & Accessories** Talco Fire Systems offers a wide variety of water storage tanks as well as pump to tank connection hoses, auto-fill valves, bladder tanks, etc. many of which are not cataloged. Contact one of our friendly and knowledgeable fire system specialists for more options.





Talco's Home Hydrant brand fire pump system (U.S. Patents 8678032 & 8905069) is designed to save you money, time, and headaches. Combining a water storage tank, fire pump, controls, and our *Smart Riser* fire riser assembly, the Home Hydrant is the most complete and compact residential fire pump package on the market. Each Home Hydrant brand fire pump system ships completely assembled, tested for leaks, and includes a certified performance report.

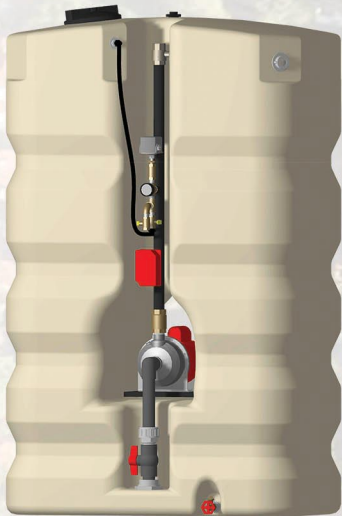
# HOME HYDRANT3

- Brand Fire Pump System**  
**350 Gallon Water Storage Tank**  
**230 Volt, Single-Phase Electric Motor**  
**1.5 to 3HP**  
**Discharge Manifold/Fire Riser -**  
 - Check Valve - Pressure Switch  
 - Pressure Gauge - Test Connection  
 - Flow Switch - System Drain

MODEL	HH3 200W	HH3 150SP	HH3 150C	HH3 300C
GPM	PSI	PSI	PSI	PSI
CHURN	49	56	48	59
30	45	52	43	55
40	42	48	40	53
50	36	45	38	50
60		38		48

## 13D RESIDENTIAL FIRE PUMP SYSTEM

- Home Hydrant System Includes:  
 350 Gallon Water Tank  
 Fire Pump  
 Discharge Manifold/Fire Riser  
 Suction Manifold  
 Auto-Fill Valve  
 Overflow Fitting  
 Tank Drain



### Home Hydrant installation is quick and easy -

- Place Home Hydrant
- Connect water supply to supplied Auto Fill Valve
- Connect drain pipe
- Attach discharge to sprinkler pipe
- Wire to pressure switch
- Fill tank
- Test system



## HOME HYDRANT4

Brand Fire Pump System

**450 Gallon Water Storage Tank**

**230 Volt, Single-Phase Electric Motor**

**1.5 to 3HP**

**Discharge Manifold/Fire Riser -**

- Check Valve - Pressure Switch
- Pressure Gauge - Test Connection
- Flow Switch - System Drain



U.S. Patents 8,905,069 & 8,678,032

## 13D RESIDENTIAL FIRE PUMP SYSTEM

Home Hydrant System Includes:

450 Gallon Water Tank

Fire Pump

Discharge Manifold/Fire Riser

Suction Manifold

Auto-Fill Valve

Overflow Fitting

Tank Drain

MODEL	HH4 200W	HH4 150SP	HH4 150C	HH4 300C
GPM	PSI	PSI	PSI	PSI
CHURN	49	56	48	59
30	45	52	43	55
40	42	48	40	53
50	36	45	38	50
60		38		48

## FIRE SPRINKLER SYSTEMS & STANDARD WATER METERS

Our residential fire protection systems are all designed to work with standard water meters. Costs for water meters and water service can vary wildly depending on where you live. Standard water meters (5/8" or 3/4") may not provide enough water flow (GPM) to run fire sprinklers without a pump and tank system. Some water purveyors can provide a line specifically for fire sprinklers at little or no charge. For everyone else the costs for a larger water meter can be extremely prohibitive and a pump and tank system can save thousands of dollars.

Homes supplied by a well are in a similar situation. A larger well pump could supply both domestic water and provide for fire sprinklers but will cost significantly more to purchase, use more power, and may over-tax the aquifer. When costs get too high a pump and tank system is the obvious choice. We offer multiple models to cover nearly any design condition or project requirement.



## **WHOLE HOUSE SYSTEMS** - Combining residential fire sprinklers with domestic plumbing

You may be required to supply water to the fire sprinklers and either part or all of the domestic plumbing system. Combined with a simple pressure tank the Talco Home Hydrant PW works perfectly in these applications. The Home Hydrant PW is offered with our potable water safe water storage tank in either 350 or 450 gallon capacities and a discharge manifold designed for combined fire protection/domestic water systems. The pressure tank (supplied by Talco as an option) ensures steady household pressure, efficient pump operation, and long pump life.

## **HOME HYDRANTPW DOMESTIC WATER/FIRE PUMP SYSTEM**

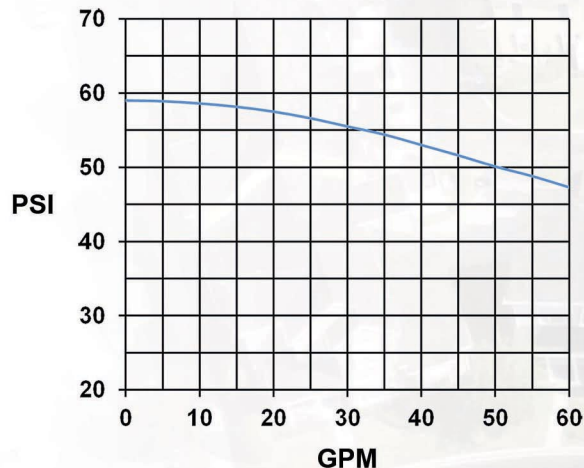
**Brand Fire Pump System** (U.S. Patents 8,905,069 & 8,678,032)

**350 or 450 Gallon Water Storage Tank**

**3HP, 230 Volt Single-Phase Electric Motor**

**Discharge Manifold/Fire Riser -**

- Check Valve - Pressure Switch -
- Pressure Gauge - Test Connection -
- System Drain - Isolation Ball Valve -



**HH3-30PW + PT**

We recommend the following:

For systems combining one toilet with the fire sprinklers install a pressure tank with at least 14 gallons capacity anywhere downstream of the discharge valve.

For systems where the fire pump supplies the sprinklers and the entire plumbing system install a pressure tank with a minimum capacity of 85 gallons on the plumbing system side anywhere downstream of the backflow preventer.



## ADDITIONAL TANKS

Sometimes even 450 gallons of water isn't enough. If your design requires higher volumes of water than one tank can provide we can supply additional tanks for extra storage. Multiple Home Hydrant tanks can be manifolded together in almost any configuration to help keep your system footprint compact and your installation looking clean. HH3 & HH4 tanks can also be mixed and matched to suit your needs.

### HH3-AT

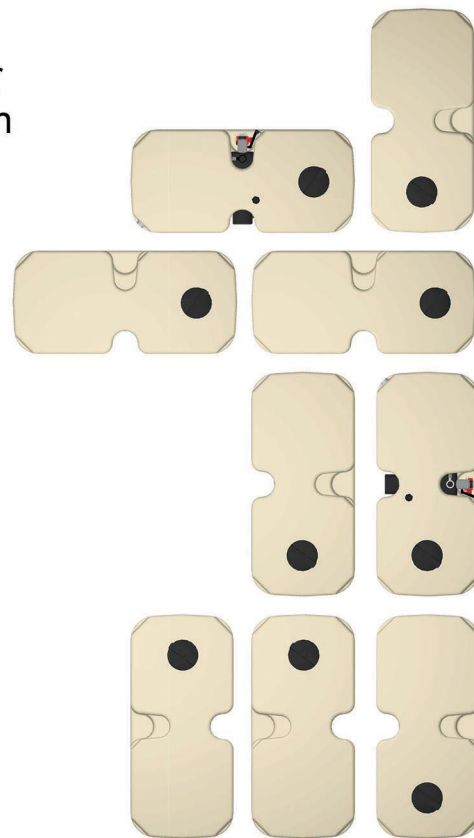
**350 Gallon Home Hydrant Water Tank**

-1 1/2" Bulkhead Fittings (x2) - Tank Lid -

### HH4-AT

**450 Gallon Home Hydrant Water Tank**

-1 1/2" Bulkhead Fittings (x2) - Tank Lid -



## FLOW SMART

Flow Smart Fire Pumps are the low cost alternative for home fire protection. Paired with a water storage tank these simple reliable pumps work perfectly for basic 13D systems.

**230 Volt, Single-Phase Electric Motor**

**1.5 to 3HP**

**Discharge Manifold -**

- Check Valve - Pressure Switch - Pressure Gauge

MODEL	FS 200W	FS 150SP	FS 150C	FS 300C
GPM	PSI	PSI	PSI	PSI
CHURN	49	56	48	59
30	45	52	43	55
40	42	48	40	53
50	36	45	38	50
60		38		48

Flow Smart Fire Pumps are intended for tank fed applications only. NOT FOR BOOSTER USE For booster applications see our LSF Fire Pumps

## 13D RESIDENTIAL FIRE PUMPS





Our LSF model residential fire pumps are the result of three decades of constant testing and development. LSF packaged systems are designed with as small a footprint as possible without leaving out the vital safety features every residential fire pump should have. These are powerful, full-featured pumps still small enough to hide in a corner. Every system is hand built using only time tested quality components. Our proprietary Run-Time Controller ensures reliable automatic pump performance far beyond industry standards. Featuring a minimum run timer tied to the pressure switch, our control suite eliminates fire pump rapid cycling under any & all operating conditions. Every LSF packaged system is tested for quality & performance prior to shipment to guarantee fail-safe operation right out of the box.

## LSF 13D RESIDENTIAL FIRE PUMPS

**230 Volt, Single-Phase Electric Motor**

**1.5 to 10HP**

**Controller -**

Contactor - Minimum Run Timer - Manual/Automatic/Off Toggle Switch

**Discharge Manifold -**

Check Valve - Pressure Switch - Pressure Gauge - Shut-Off Ball Valve

MODEL	LSF 150SP	LSF 150C	LSF 300C	LSF 300CIF	LSF 500CIF	LSF 500CIG	LSF 500CIG3	LSF 750CIF	LSF 1000CIF
GPM	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI
CHURN	56	48	59	46	77	85	64	77	96
30	52	43	55	45	72	81	62	75	95
40	48	40	53	44	70	79	60	74	94
50	45	38	50	44	67	74	58	73	93
60	38		48	43	64	71	54	72	92
70				40		66	52	70	90
80				38			49	68	88
90				36			46	64	86
100				34			43	60	85
110				33				56	80
120								51	77
130									76
140									72





Talco **Heavy Duty Residential** fire pump packages are intended for larger residential projects that don't require NFPA 13R code compliance or for situations where the greater expense and lead time for a UL listed pump could negatively impact project completion.

HDR packaged systems are built to the same standards as our NFPA13R systems & use many of the same components, the notable difference being the pump itself.

HDR systems use carefully selected end suction pumps that do not carry a listing for fire protection. These readily available and cost effective systems are acceptable to many AHJs for NFPA 13R projects.

## HDR COMPACT FIRE PUMP SYSTEMS

**CAST IRON/BRONZE FIT CENTRIFUGAL PUMP**

**230 Volt, Single-Phase**

**Controller -**

Tornatech RPA - Listed Residential Fire Pump Controller  
(w/ Sensing Line per NFPA-20)

**Suction Manifold -**

Monitored Ball Valve - Pressure Gauge

**Discharge Manifold -**

Check Valve - Pressure Gauge - Relief Valve - Monitored Ball Valve

CHECK WITH AHJ FOR APPROVAL  
PRIOR TO ORDERING



**HDR-50**

5 HP

50GPM @ 65PSI

**HDR-75**

7.5HP

75GPM @ 70PSI

**HDR-100**

10 HP

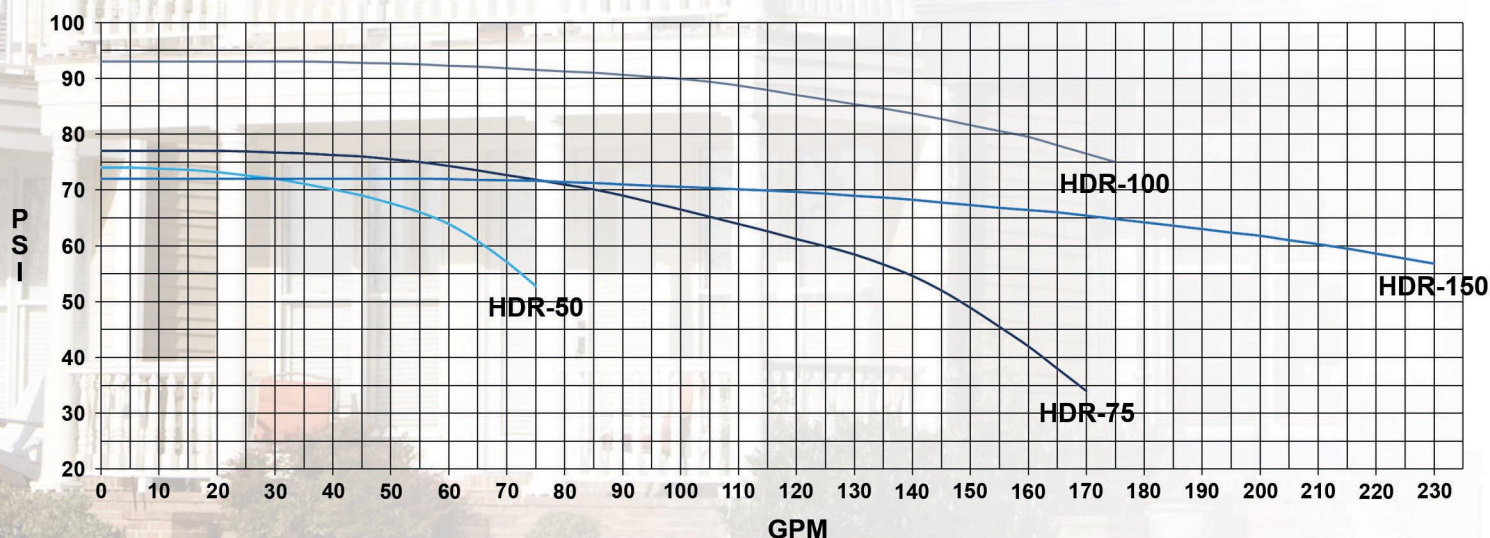
100GPM @ 90PSI

**HDR-150**

10 HP

150GPM @ 65PSI

### HDR PERFORMANCE CURVES





Talco 13ULV models are configured for NFPA 13R/20 code compliance. These packages are designed for installations using single phase power. Based around UL/FM listed vertical inline fire pumps with limited service listed fire pump controllers these systems are designed specifically for NFPA 13R applications such as mixed use residential/ commercial buildings, smaller apartment buildings, or assisted living centers. 13ULV packages have near universal acceptance within the North America.

## 13ULV-R VERTICAL INLINE FIRE PUMP SYSTEMS

### UL/FM VERTICAL INLINE FIRE PUMP

**230 Volt, Single-Phase**

#### **Controller -**

Tornatech GPL - Limited Service Fire Pump Controller  
(w/ Sensing Line per NFPA-20)

#### **Suction Manifold -**

OS&Y Gate Valve - Pressure Gauge

#### **Discharge Manifold -**

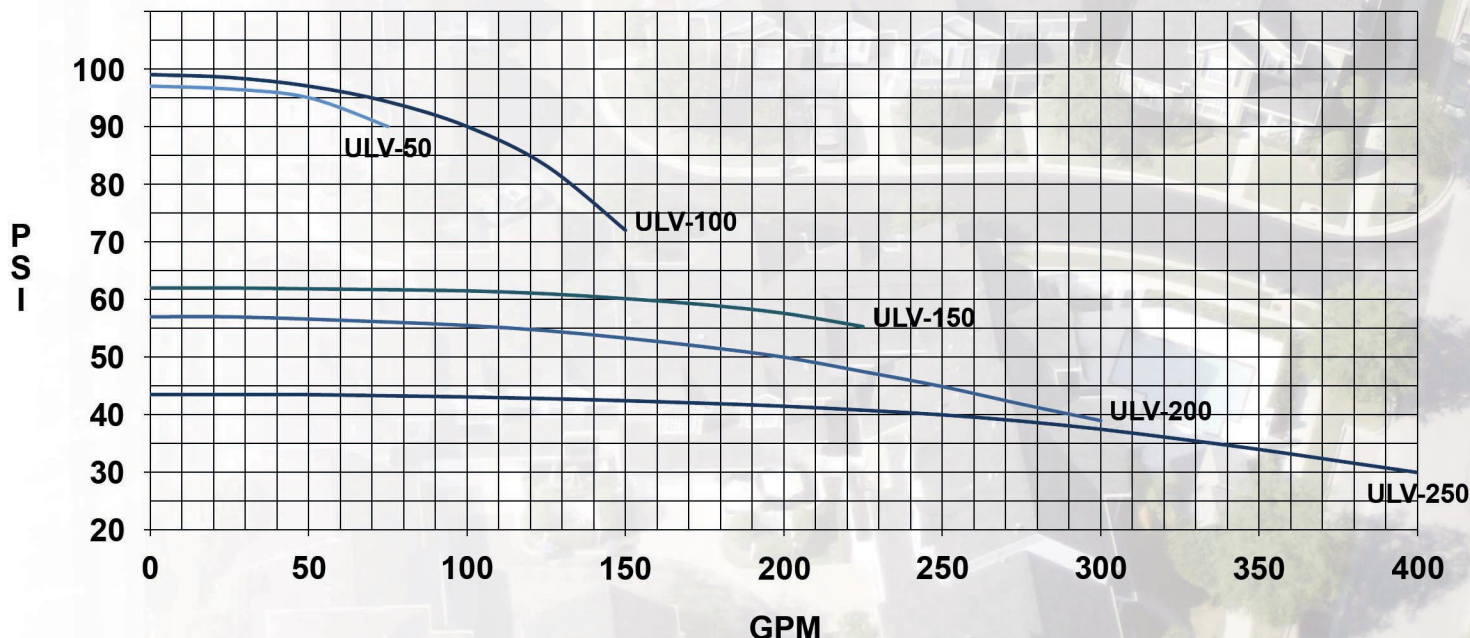
Check Valve - Pressure Gauge - Relief Valve -  
Monitored Butterfly Valves - Test Header Connection



Optional jockey pumps also available.

13ULV50-R	13ULV100-R	13ULV150-R	13ULV200-R	13ULV250-R
10 HP	10 HP	10 HP	10 HP	10 HP
50GPM @ 95PSI	100GPM @ 90PSI	150GPM @ 60PSI	200GPM @ 50PSI	250GPM @ 40PSI

### ULV PERFORMANCE CURVES





Talco offers a variety of water tanks and accessories to help complete your pump room. Our standard tank and fitting products are listed below, larger tanks from 500 to 15,000 gallons are also available. Contact one of our friendly and knowledgeable fire pump specialists for more options.

## POLY WATER STORAGE TANKS

**-BARE TANKS-** Tank fitting kits sold separately, see below

MODEL	CAPACITY	CONFIGURATION	DIMENSIONS	WEIGHT
300V	300 GAL.	VERTICAL ROUND	34.5" DIA X 78" H	100#
400V	400 GAL.	VERTICAL ROUND	42" DIA X 75" H	145#
500V	500 GAL.	VERTICAL ROUND	48" DIA X 75" H	150#
300R	300 GAL.	RECTANGLE	62" L X 29" W X 48" H	150#
400R	400 GAL.	RECTANGLE	62" L X 29" W X 64" H	180#



## WATER TANK FITTING KITS

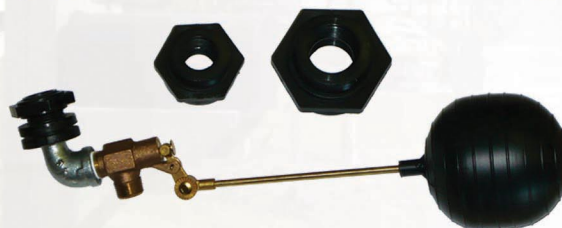
**-With 3/4" AutoFill, 1 1/2" or 2" NPT Outlet, 1" NPT Overflow Fitting, & Suction Hose Assembly**

MODEL	HOSE SIZE
TF-1.5	1 1/2"
TF-2	2"

## SUCTION HOSE ASSEMBLY

**-27" Overall Length With Hose Mender & Ball Valve**

MODEL	HOSE SIZE
SH-1.5	1 1/2"
SH-2	2"




## FLOAT KIT

**-AutoFill & 1" Overflow Fitting**

MODEL	VALVE SIZE
FK-75	3/4"
FK-125	1 1/4"





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For over thirty years Talco Fire Systems has been in the business of building premium quality fire pump systems and making our customers' lives easier. Our dual focus on attention to detail and excellent customer service has made us a market leader in both residential and commercial fire pump systems.

We are experts in fire pumps and the codes that govern them, with years of experience in pumps, controls, hydraulics, and the distribution supply chain. Our versatile in house product development and design team gives us the ability to respond quickly to customer feedback and deliver practical innovative products on time and when needed. We strive to make everything about dealing with fire pumps as simple and straight forward as possible so you can finish your current project and get on to the next one. Let us be your fire pump division.

At the core of these efforts are...

- Constant product and program development.
- Delivering value for the customer and distribution network.
- Reliability in our product and services.
- Dependable lead times.
- Helping you create new revenue streams.

This catalog contains the most complete line of Residential Fire Pump systems available today. The products shown here, built for systems designed and installed in accordance with NFPA-13D and NFPA-13R Residential Fire Sprinkler codes, will cover practically any residential fire pumping requirement you will encounter. We have also included information about where and why each type of system applies.

With a national distribution network, a worldwide presence, and innovative ground-breaking products like the Home Hydrant (U.S. Patent 8678032) and our popular 13-ULV series units, **Talco has you covered.**

Please visit our website to see our innovative line of products and contact us for one of our wholesale distributors near you.

[www.talcofire.com](http://www.talcofire.com)



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