

# Controlling Fire Around the World

# A World Leader in Fire Control

2

## TYPICAL WORLDWIDE APPLICATIONS



SCB BUILDING

Thousands of Patterson Fire Pumps are installed throughout the world. Many have years of continuous service, indicative of the reliability of Patterson world-class pumps.

They are daily standing guard against the rampaging renegade, fire, and when called upon, deliver the necessary force to bring it under quick and positive control. They supply water to automatic sprinkler systems, fire hydrants, standpipes, deluge systems, fog systems or any other fire protection system.

Four types of world-class Patterson pumps are effective in fire control systems: the Horizontal Split Case, the Vertical Turbine, the Vertical In-line and the End Suction.

Patterson Pump Ireland also produces booster, municipal, industrial, power and water and wastewater pumps.



GEORGIA DOME



BANK OF TOKYO



ORIENTAL HOTEL

BMW MANUFACTURING FACILITY



C O N T R O L L I N G F I R E

## ISO 9000 Certified Manufacturer



ISO CERTIFIED INSPECTION

A wholly-owned subsidiary of Patterson Pump Company U.S.A., Patterson Pump Ireland Ltd. is ISO 9000 certified, attesting to its world-class quality and dependability.

This independent European manufacturer is headquartered in Mullingar, County Westmeath, Ireland, where it builds, fabricates, assembles and tests all types of Patterson fire pumps. Sales and customer service representatives are also located there. A sales office in the UK has representatives throughout the continent, including eastern Europe.

Patterson Pump Ireland services its customers worldwide from sales to order entry, to

manufacturing and testing, to shipping and on site commissioning.

A complete range of pumps is manufactured at the Mullingar facility—horizontal split case, in-line, end suction and vertical turbine pumps. In addition, PPI can convert a container into a fully operational pump house.

Industry standard fire pumps are UL and FM listed; LPCB, VdS, and CNBOP approved; and meet all requirements set forth by NFPA and the European Local Rules Market countries.



## CNBOP

## LOCAL RULES MARKET



Member of  
*Hydraulic*  
INSTITUTE

THE PATTERSON PUMP IRELAND LTD. MANUFACTURING FACILITY PRODUCES AND TESTS PATTERSON'S FULL LINE OF FIRE PUMPS FOR DISTRIBUTION THROUGHOUT EUROPE. PATTERSON IS THE INDUSTRY LEADER IN PROMPT DELIVERY OF ALL STANDARD MODEL FIRE PUMPS WORLDWIDE.

A R O U N D T H E W O R L D

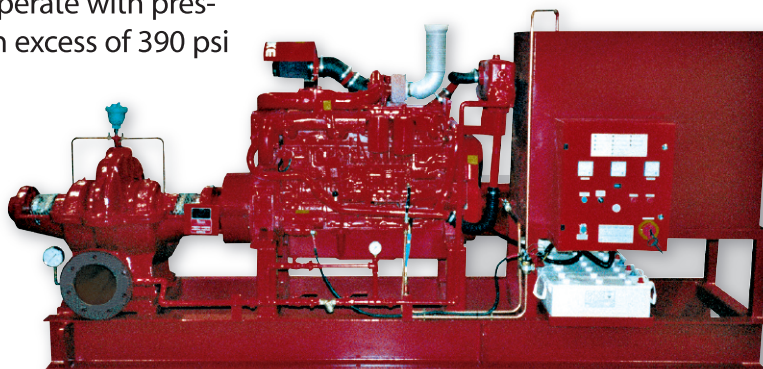
## **Horizontal Split Case Fire Pumps**

Precision balancing of all factors in the design of Patterson Horizontal Split Case Fire Pumps provides mechanical dependability, efficient operation and minimal maintenance. Simplicity of design ensures long, efficient unit life, reduced maintenance costs and minimum power consumption.

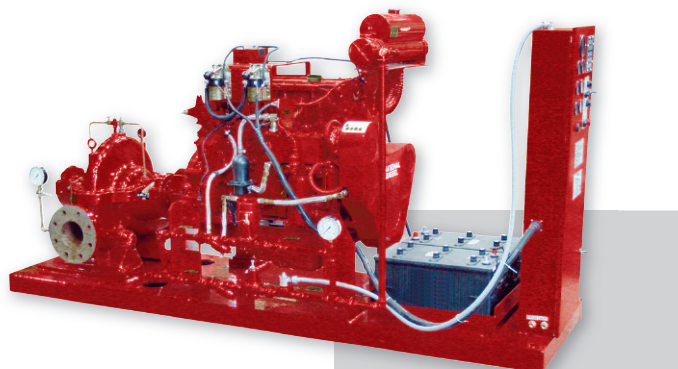
(27 bar) and up to 5,000 GPM (18,925 L/M).

Whether your fire application requires an electric motor, a diesel engine or a dual drive system, vertical or horizontal, Patterson can fit your requirement.

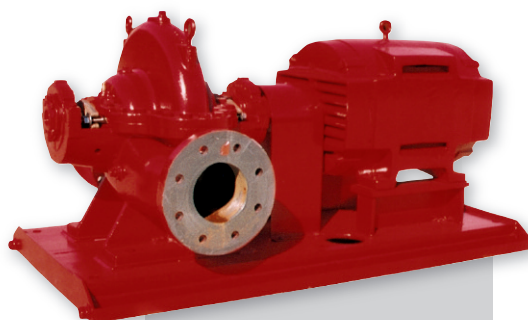
They operate with pressures in excess of 390 psi



TYPICAL LPCB UNIT



PATTERSON ENGINE PACKAGE  
(P.E.P.) UNIT



HORIZONTAL SPLIT CASE FIRE  
PUMP WITH ELECTRIC MOTOR

## **High Pressure Two-Stage Fire Pumps**

High Pressure Two-Stage Fire Pumps are engineered to produce as much head as two single-stage pumps in series, and are much more compact in size. Heavily built, they are highly efficient and have every mechanical feature to assure long and reliable service.

Designed in sizes from 3" (75mm) to 6" (150mm) discharge, for capacities to 1,000 GPM (3,785 L/M), and for heads to 1,150 feet (34 bar), they represent the most economical pumping equipment available for rugged and reliable service.

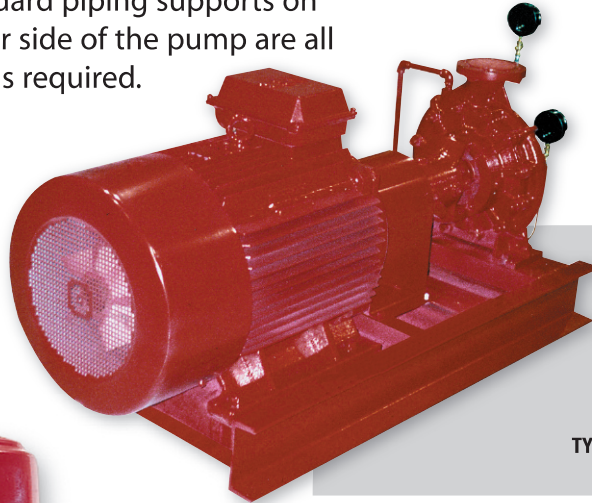
# Vertical In-line and End Suction Series Fire Pumps

Patterson's V.I.P. In-line and End Suction Fire Pumps are designed for ease in adapting to existing systems or being designed into new systems in safety applications.

Their ease of installation into pipe lines eliminates the need for costly foundations or pads. Standard piping supports on either side of the pump are all that is required.

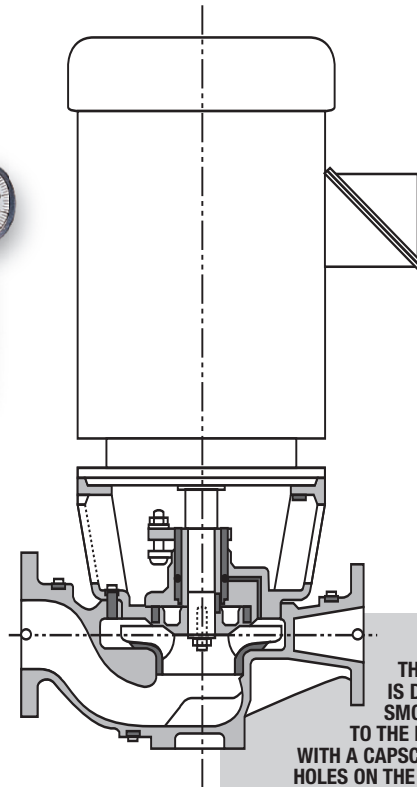
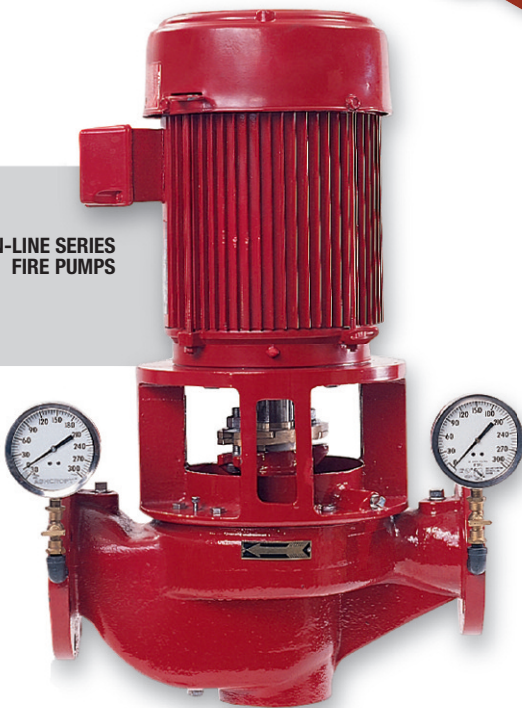
Vertical In-line suction and discharge flanges are on a common center line, 180° apart, for mounting in the pipe line. End Suction Pumps have center line suction and discharge.

Both pump types feature full ranges of psi (bar) and GPM (L/M).



TYPICAL END SUCTION  
LPCB UNIT

V.I.P. IN-LINE SERIES  
FIRE PUMPS



THE PRECISION CAST IMPELLER IS DYNAMICALLY BALANCED FOR SMOOTH OPERATION. IT IS KEYED TO THE MOTOR SHAFT AND RETAINED WITH A CAPSCREW AND WASHER. BALANCE HOLES ON THE BACK SIDE OF THE IMPELLER REDUCE THRUST WITH HYDRAULIC BALANCING OF THE PRESSURES. THE ENCLOSED DESIGN IMPELLERS ASSURE OPTIMUM PERFORMANCE AND LONG SERVICE LIFE.



# The Patterson Pre-Pac® Fire Pump



INTERIOR OF A TOTALLY  
ENCLOSED PRE-PAC.

IF YOUR REQUIREMENTS CALL FOR A  
DIESEL UNIT OR AN ELECTRIC DRIVEN  
UNIT, OR BOTH, THE PRE-PAC CAN BE  
DESIGNED TO MEET YOUR NEEDS.

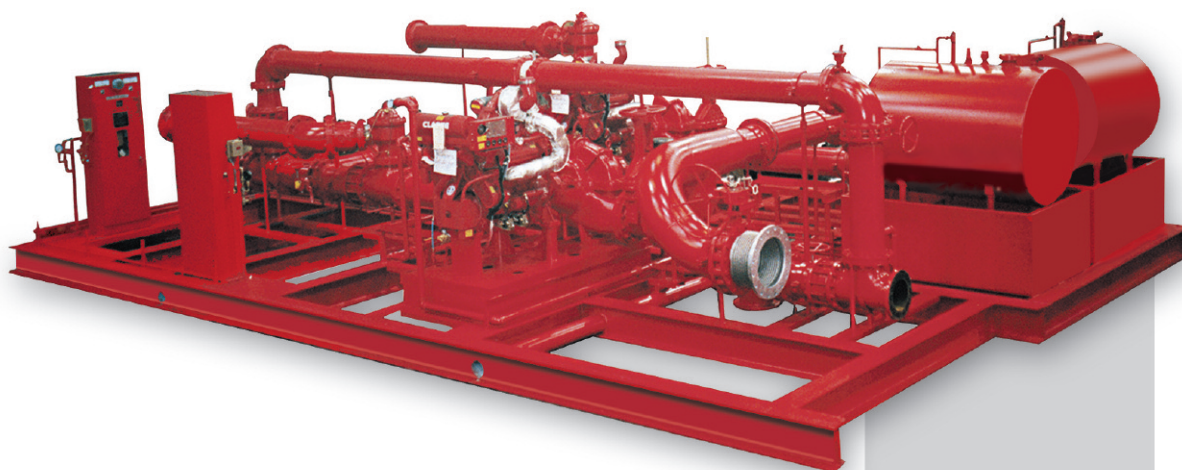
The Patterson Pre-Pac Fire Pump was created to provide quality fire control at less cost and in less space. Unlike conventional pumping systems, the Pre-Pac is self-contained so it saves money by reducing labor, engineering and installation time.

The real muscle of this pre-packaged system is Patterson's reliable split case or vertical turbine pump, featuring discharge pressures of 40 to 390 psi (2.8 to 27 bar) and capacities of 150 to 5,000 GPM (565 to 18,925 L/M), plus all the

necessary ranges of hydraulic performance that meet individual requirements and European standards.

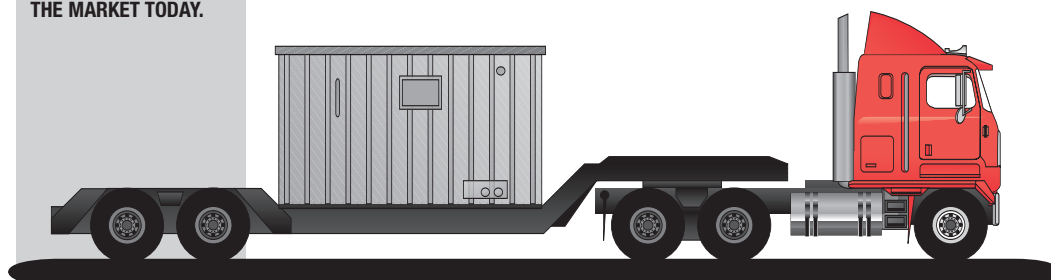
Whether you select a completely housed Pre-Pac or a base mounted package, you can be assured that all sensing lines, fittings, piping, drive, pump and controls are designed to meet, or exceed, all applicable codes.

For an added measure of security, the Pre-Pac is completely unit tested with all piping hydrostatically tested.



A BASE MOUNTED PRE-PAC.

THE PATTERSON  
PRE-PAC IS ONE OF  
THE MOST POPULAR  
PREPACKAGED FIRE  
PUMP SYSTEMS IN  
THE MARKET TODAY.



C O N T R O L L I N G F I R E

# Patterson Vertical Turbine Fire Pumps

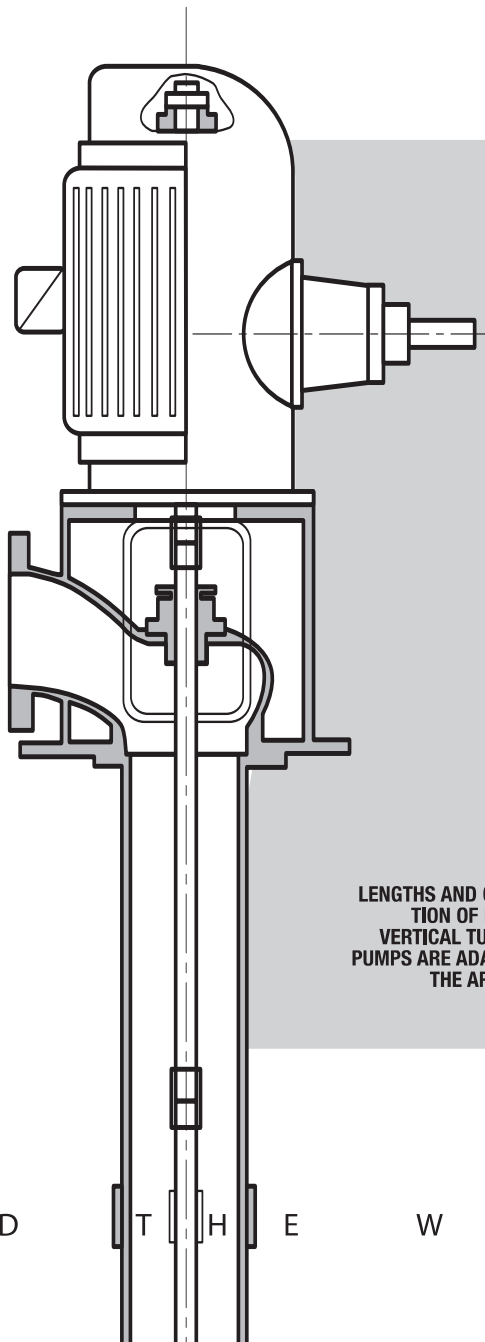
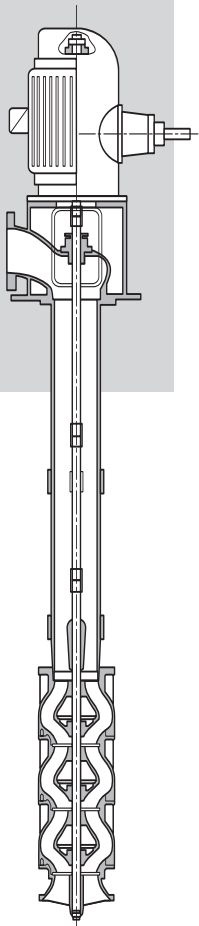
Patterson Vertical Turbine Fire Pumps employ the latest design concepts and engineering technology in producing highly efficient pumps for use in all safety applications.

They can be staged as necessary to meet desired requirements. Minimum floor space is required.

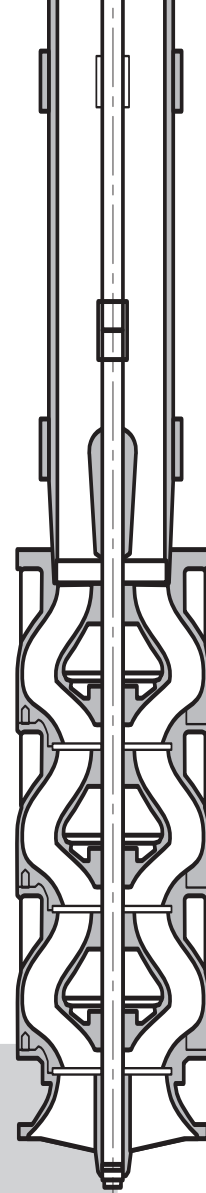
Fire fighting application capacities are from 500 to 5,000 GPM (1,892 to 18,925 L/M), with pressures up to 350 psi (24 bar).



PATTERSON VERTICAL  
TURBINE FIRE PUMP



LENGTHS AND CONSTRUCTION OF PATTERSON VERTICAL TURBINE FIRE PUMPS ARE ADAPTABLE TO THE APPLICATION.



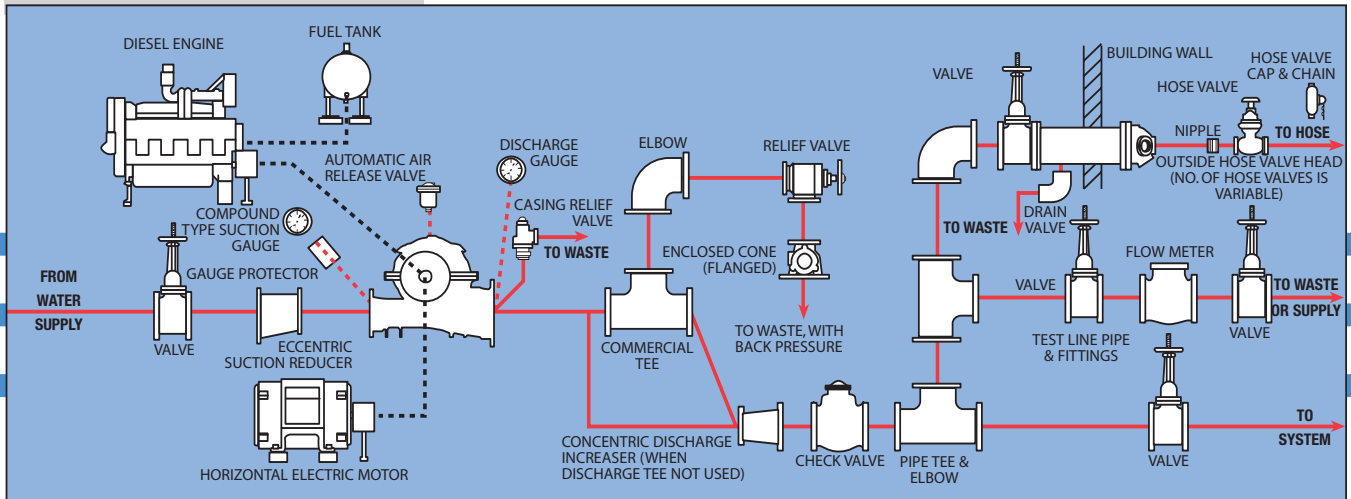
A R O U N D T H E W O R L D

# Patterson Fire Pump Accessories

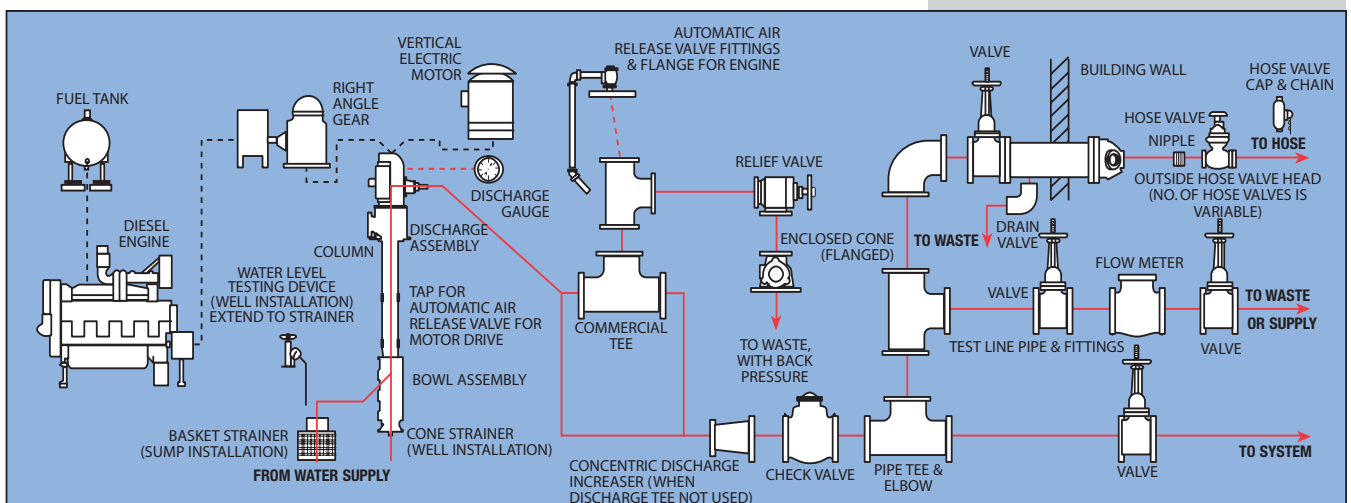
Patterson can provide a full line of accessories for fire pump installations as shown on the illustrations below. In addition, Patterson can also furnish Manual or Automatic

Motor Controls or Engine Controls; Batteries; Battery Chargers; Fuel Systems; Fuel Tanks; Coupling Guards and Splash Partitions.

## PATTERSON HORIZONTAL FIRE PUMPS



## PATTERSON VERTICAL FIRE PUMPS



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