

# Experience the TRITON™ Pipe Fusion System



JOIN THE FUTURE™

**TRITON™**  
PIPE FUSION

**WATTS®**

# TRITON™

## TRITON fast.

A new definition of speed for the future.

*Not just fast—but a pipe joining technology that saves hours of labor*

*Not just fast—but a weld that's ready for pressure testing almost immediately*



## TRITON strong.

A new definition of strength for the future.

*Not just strong—but hermetic outside diameter welds designed to last*

*Not just strong—but offering unobstructed flow and decreased pressure drop compared to insert fittings*

## TRITON safe.

A new definition of safer working conditions for the future.

*Not just safe—but a solution that removes exposed heating elements or flame*

*Not just safe—but a pipe joining system that eliminates adhesives and VOCs*

# The Technology Behind TRITON

How it Works



1.

The Control Unit converts standard 110/120 VAC electrical current to DC electrical current, then generates a radio frequency (RF) signal.



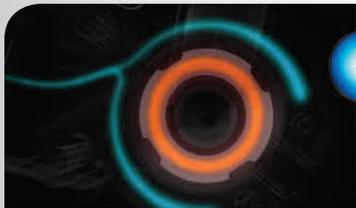
2.

The RF signal is transferred to the Fuser and concentrated into a high-frequency electromagnetic field.



3.

The pipe Fittings contain materials that react with the electromagnetic field, creating heat.



4.

The heat fuses the plastic pipe and Fitting together to form a hermetic weld.



5.

As the pipe heats, the Fuse-Tel™ indicator emerges on the Fitting to signal a completed weld.

## Just How Fast is TRITON Fast?

TRITON offers overall faster start-up time than conventional welding techniques such as socket or butt welding. With TRITON there's no prolonged equipment setup or elaborate prep work, and the Control Unit and Fuser are ready for fusion immediately. Fusers can be changed out in just minutes.

Unlike welds made using adhesive, which require curing time, TRITON welds are ready for pressure testing almost immediately—and there's no risk of VOCs.

Estimated weld times are dependent on the size of the Fitting, the ambient temperature, and the conditions. The Control Unit adjusts the welding time automatically.

TRITON also eliminates any need for exposed heating elements or open flames, creating a safer work environment.



TRITON™ (Model TRCU1)

Watts

815 Chestnut Street, North Andover, MA 01845-6098

# TRITON System Components



## TRITON Control Unit

The TRITON Series TRCU1 Control Unit is designed to operate on a standard 110/120 VAC circuit. The Control Unit converts the AC power to DC power, then generates a radio frequency (RF) signal. The RF signal is transferred to the Series TRFWP1 Fuser to complete the welding process.

The self-contained and self-calibrating Control Unit comes with a 10' long GFCI-protected power cord and a 20' long coaxial Fuser cable. The power draw for each weld is less than 100 watts. (Only Watts supplied cords should be used with TRITON).

## TRITON Fusers

The TRITON Series TRFWP1 Fusers are designed to concentrate a radio frequency (RF) signal and direct it onto a TRITON Fitting. This in turn generates heat which fuses the fitting and pipe together.

The TRITON TRFWP1 Fusers are currently available in five sizes (to standard ASTM D3035).



### TRITON TRFWP1 IPS Fusers

Fuser 3/4" IPS

Fuser 1" IPS

Fuser 1 1/4" IPS

Fuser 1 1/2" IPS

Fuser 2" IPS



## TRITON Fittings

TRITON Fittings are uniquely engineered:

- Design increases strength & rigidity
- Lightweight form factor
- Full range of sizes and configurations

### TRITON Fittings

TR12P1 IPS MPT adapters

TR15P1 IPS couplings

TR18P1 IPS tees

TR19P1 IPS elbows

TR24P1 IPS caps

Both Fusers & Fittings are sold separately.

# Join the future of plastic pipe welding.

TRITON is the next-generation pipe welding system that will change plastic pipe joining forever—and accelerate your business into a new dimension.

TRITON is the first application of radio frequency (RF) electromagnetic technology, a trusted method of welding used in industrial applications, to pipe joining.



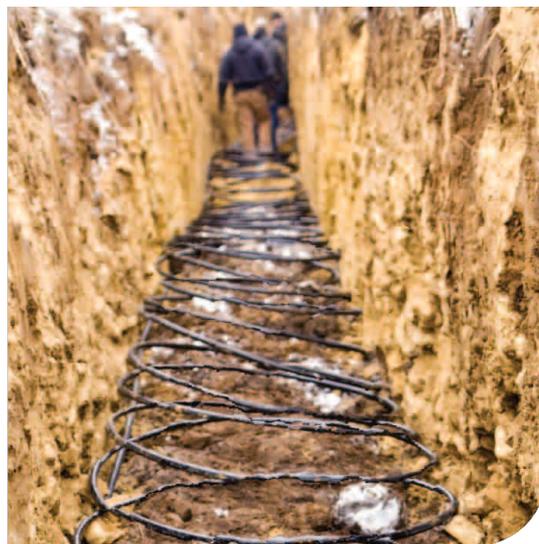
## How can TRITON benefit your business?

- Faster equipment setup
- Pipes ready for pressure testing almost immediately
- Reduce manpower requirements
- Safer work environment
- Lower energy consumption
- Quick ramp-up
- Easy to use

## TRITON Pipe Fusion System Applications



The lightweight and portable TRITON system is designed for applications utilizing flexible plastic piping. Non-potable applications include geothermal, irrigation, mining, process, and natural gas.



# See how TRITON works at TritonPipeFusion.com

Contact your local rep to see a demo.

Model	Description	Ordering Code
<b>TR12P1 IPS MPT Adapters</b>		
TR12P1-1212-IPS	ADAPTER 3/4IPS X 3/4MPT	0134003
TR12P1-1616-IPS	ADAPTER 1IPS X 1MPT	0134004
TR12P1-2020-IPS	ADAPT.1.25IPS X 1.25MPT	0134032
TR12P1-2424-IPS	ADAPT. 1.5IPS X 1.5MPT	0134033
TR12P1-3232-IPS	ADAPTER 2IPS X 2MPT	0134034

<b>TR15P1 IPS Couplings</b>		
TR15P1-1212-IPS	COUPLING 3/4IPS X 3/4IPS	0134007
TR15P1-1612-IPS	COUPLING 1IPS X 3/4IPS	0134036
TR15P1-1616-IPS	COUPLING 1IPS X 1IPS	0134008
TR15P1-2016-IPS	COUPLING 1.25IPS X 1IPS	0134037
TR15P1-2020-IPS	COUPL. 1.25IPS X 1.25IPS	0134038
TR15P1-2420-IPS	COUPL. 1.5IPS X 1.25IPS	0134039
TR15P1-2424-IPS	COUPLING 1.5IPS X 1.5IPS	0134040
TR15P1-3224-IPS	COUPLING 2IPS X 1.5IPS	0134041
TR15P1-3232-IPS	COUPLING 2IPS X 2IPS	0134042

<b>TR18P1 IPS Tees</b>		
TR18P1-121212-IPS	TEE 3/4IPS	0134012
TR18P1-161616-IPS	TEE 1IPS	0134013
TR18P1-202020-IPS	TEE 1-1/4IPS	0134043
TR18P1-242424-IPS	TEE 1-1/2IPS	0134044
TR18P1-323232-IPS	TEE 2IPS	0134045

<b>TR19P1 IPS Elbows</b>		
TR19P1-1212-IPS	ELBOW 3/4IPS X 3/4IPS	0134017
TR19P1-1616-IPS	ELBOW 1IPS X 1IPS	0134018
TR19P1-2020-IPS	ELBOW 1.25IPS X 1.25IPS	0134046
TR19P1-2424-IPS	ELBOW 1.5IPS X 1.5IPS	0134047
TR19P1-3232-IPS	ELBOW 2IPS X 2IPS	0134048

Model	Description	Ordering Code
<b>TR24P1 IPS Caps</b>		
TR24P1-12-IPS	CAP 3/4IPS	0134022
TR24P1-16-IPS	CAP 1IPS	0134023
TR24P1-20-IPS	CAP 1-1/4IPS	0134049
TR24P1-24-IPS	CAP 1-1/2IPS	0134050
TR24P1-32-IPS	CAP 2IPS	0134051

<b>TRFWP1 IPS Fusers</b>		
TRFWP1-12-IPS	FUSER 3/4IPS	0134028
TRFWP1-16-IPS	FUSER 1IPS	0134029
TRFWP1-20-IPS	FUSER 1-1/4IPS	0134052
TRFWP1-24-IPS	FUSER 1-1/2IPS	0134053
TRFWP1-32-IPS	FUSER 2IPS	0134054

<b>TRCU1 Control Unit</b>		
TRCU1-M1	CONTROL UNIT	0134024

<b>Accessories</b>		
TRPC10-M1	TRITON POWER CORD	0134030
TRFC20-M1	TRITON FUSER CABLE	0134031

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 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • www.watts.ca