

Acid Waste Piping Systems



INDUSTRIAL SYSTEMS

YOUR LAB SPECIALIST

- Enfield™ Electrofusion Acid Waste Systems FRPP & NRFP
- Labline® Mechanical-Joint Acid Waste System FRPP
- Plenumline™ Mechanical Joint Acid Waste System FR-PVDF
- Encase™ Double Containment System PP & FRPP
- Neutratanke® Neutralization Tanks HDPE & PP
- Floway™ Drains PP
- Neutrasystem2™ Monitoring

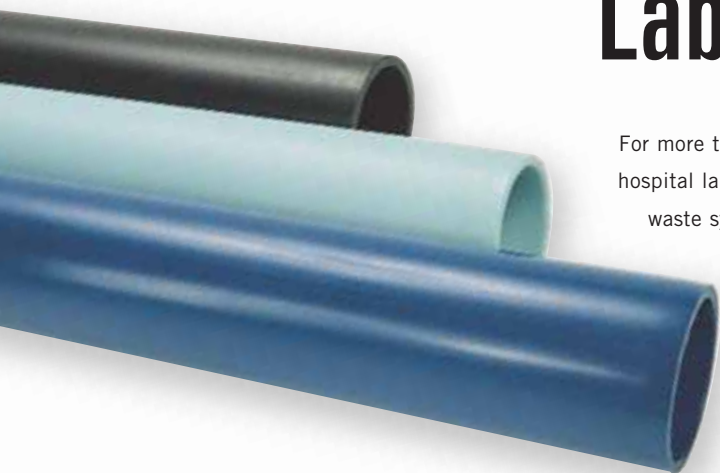


IPEX

We build tough products for tough environments®.



Integrated Total Laboratory Solutions



For more than 30 years, IPEX has been supplying industrial, commercial, school and hospital laboratories throughout North America with high-quality, easy-to-install acid waste systems designed to handle a wide variety of chemicals and pH levels.

Our comprehensive line of dedicated acid waste conveyance, neutralization and monitoring systems offers innovative features not available with any other system. In fact, IPEX Enfield™ electrofusion and Labline® mechanical joint systems have long been recognized as the industry benchmark for performance and reliability, and are among the most widely specified systems in North America. Also available through IPEX is the next generation, E-84 compliant Plenumline™ system, made of flame retardant PVDF for extremely demanding applications such as return-air plenums.

The complete range of IPEX integrated total solutions for acid waste applications also includes our Neutratanke® neutralization tanks, Neutrasystem2™ pH monitoring system and Floway™ drains, as well as Encase™ double containment systems.

Your full-spectrum acid waste specialist

Increasingly stringent government and industry standards, along with the widespread public desire to minimize the impact of chemical waste on the environment, continues to make compliance a vital concern for our customers.

- IPEX offers a complete range of pipe and fittings in a variety of materials to suit any acid waste application.
- With the ability to handle intermittent temperatures from -20 °F to 210 °F and self extinguishing properties, our flame-retardant polypropylene (FRPP) systems are ideally suited for all above-grade laboratory applications.
- With identical chemical/temperature properties for below-grade installations, our non-flame-retardant polypropylene (NFRPP) is the material of choice.
- Specifically designed and approved for use in return-air plenums or higher temperature/higher concentration applications, IPEX offers a flame-retardant polyvinylidene fluoride (FR-PVDF) system.

Compared to conventional ductile iron and borosilicate glass systems, all three IPEX thermoplastic materials exhibit excellent resistance to a wide range of chemicals with pH from 1 to 13 and will not corrode, rust, pit or scale and offer much greater flexibility/impact resistance. The result: far easier installations, low maintenance and substantial cost savings over the life of the systems.



ENFIELD™ Electrofusion Acid Waste Systems



The premier acid waste system on the market, Enfield™ polypropylene acid waste systems feature:

- A heavy-gauge, nickel-chromium resistance wire integrally molded into the fitting socket and,
- Multiple joints completed simultaneously, using our microprocessor controlled Enfusion™ electrofusion unit creating a high-integrity bond between pipe and fitting – in a matter of minutes.



ENFIELD™

Material	Joint Type	Application	Size (in)
FRPP / NFRPP	Electrofusion/Permanent	Drainage	1½ to 12

PLENUMLINE™ FR-PVDF Mechanical Joint Acid Waste System

Made from a specially formulated, flame-retardant polyvinylidene fluoride (PVDF), our Plenumline™ acid waste system:

- Meets the stringent specification of ASTM E-84 / UL 723,
- Although specifically designed for use in return-air plenums, Plenumline™ is also ideal for other specialized applications such as high-temperature or extremely aggressive media and,
- Plenumline™ fittings incorporate our unique Elastolive™ joining system for unmatched joint integrity.



PLENUMLINE™

Material	Joint Type	Application	Size (in)
FR-PVDF	Mechanical/Re-usable	Return-Air Plenum/High Temp drainage	1½ to 4

LABLINE® Mechanical Joint Acid Waste Systems



IPEX Labline® polypropylene acid waste system features our state-of-the-art mechanical joining design using:

- A no-heat Elastolive™ compression seal for fast installation and superior joint performance and,
- Labline's® patented grooved joint assembly, preventing leaks due to misalignment and potential pullout resulting from thermal contraction.

LABLINE®			
Material	Joint Type	Application	Size (in)
FRPP	Mechanical/Re-usable	Drainage	1½ to 4

Encase™ Polypropylene Double Containment Systems

Certain environments demand fail-safe systems. No leaks. No risk. The professionals at IPEX understand the complexity of design and installation for demanding double containment applications.

At the heart of our Encase™ polypro system is our Enfield® electrofusion technology with its:

- Substantially lower installation costs, compared to traditional technologies,
- Heavy-gauge resistance wire molded into the fitting (carrier & containment) socket and,
- Staggered design allowing for testing of the carrier pipe before the containment system is sealed.

The combined result is a premier off-the-shelf double containment system.



ENCASE™			
Material	Joint Type	Application	Size (in)
FRPP / NFRPP	Electrofusion/Permanent	Double Containment drainage	Carrier: 1-1/2 to 8, Containment: 4 to 12

Repeatable and controllable, both the Enfield™ electrofusion, Labline® and Plenumline™ mechanical joining processes allow full hydrostatic testing immediately after the joint is formed.

FLOWAY™ Polypropylene Floor Drains

For efficiently managing chemical spills, our Floway™ adjustable and non-adjustable polypropylene drain ports are specially designed to feed into IPEX acid waste systems.

- Rated for pedestrian traffic and available in sizes from 2" to 6".
- Floway™ drains can be optionally configured with adjustable strainers, round funnels, sediment baskets and plain end or threaded outlets.
- Adjustable feature allows easy leveling after pouring of finished floors.



Accessories



A complete range of accessories are available for use with IPEX acid waste systems, including:

- Oval and round cupsinks, faucets, solids interceptors, expansion joints and a wide selection of cobra clips, dilution traps, spacers, hangers and,
- Transition adapters are also available for interfacing with glass or iron systems.



MATERIALS & ATTRIBUTES CHART

Resin	Color	Schedule	Length (ft)	Size (in)	ASTM Rating	Classification
FRPP	Green	40	10/20	1½ to 12	V-1	Self extinguishing. Does not support combustion after flame is removed.
NFRPP	Black	40/80	20	1½ to 12	V-2	Suitable for locations where no burning classification is required.
FR-PVDF	Blue	40	10	1½ to 4	V-0	Self extinguishing. Meets ASTM E-84. Suitable for areas such as return-air plenums and other specialized applications.

IPEX acid waste systems are designed and manufactured to meet or exceed the requirements of the following standards organizations. A comprehensive list of compliance approvals is available on request.



Consult the IPEX Chemical Resistance Guide, available at ipexinc.com, for compatibility of our acid waste systems with over 900 chemicals, at a full range of temperatures and concentrations.

NEUTRATANK® HDPE & Polypropylene Neutralization Tanks

IPEX offers a complete range of Neutratan[®] neutralization tanks as well as dilution, sampling and pH tanks for managing concentrations and pH levels in acid waste systems.



- Cylindrical and rectangular limestone neutralization tanks from 5 to 2000 gallons are available.
- A variety of lids, inlets, outlets and accessories are offered.
- Dilution tanks are available in 1 - 2 and 5-gallon sizes.

NEUTRASYSTEM2™ Monitoring Recording & Alarm Systems

Our Neutrasystem2™, NEMA 4X rated, pH monitoring system incorporates:

- UL 508 listed monitoring and alarm panel,
- Chemically resistant pH probe for the continuous sampling of the downstream flow, while keeping an accurate, permanent record of pH discharge levels and,
- Visual and audible alarms which are triggered if the system senses that concentrations have drifted outside pre-set parameters.





For more information or to be on our mailing list for new product announcements, complete this card and fax it back to us at (905) 403-1124.

Name _____

Title _____ Dept. _____

Company _____

Address _____

City _____ Province/State _____

Postal Code/Zip _____ Phone _____

Fax _____ E-mail _____

Company classification

- Distributor/Wholesaler
- Consulting Engineer
- Contractor
- OEM – Products manufactured:

- Government

SIC or industry sector:

I am primarily interested in the following thermoplastics (check all that apply):

- Pipe
- Valves
- Fittings
- Double containment systems
- Acid waste and drainage systems
- High purity systems
- Compressed air systems
- Other _____

I would like:

- Information on my closest IPEX distributor

Please forward information on:

- Xirtec & Corzan process piping systems
- Enpure high-purity polypropylene system
- Plenumline Mechanical Joint Acid Waste System
- Duraplus ABS industrial system
- Enfield electrofusion acid waste system

- Labline mechanical joint acid waste system
 - Neutratanke neutralization tanks
 - Neutrasystem2 pH monitoring
 - Floway drains
 - Manual and actuated thermoplastic valves
 - Guardian PVC and CPVC double containment systems
 - Encase polypro double containment system
 - CustomGuard specialty double containment systems
 - Centra-Guard leak detection system
 - Duraplus Air-Line compressed air system
 - IPEX ventilation system
 - Grooved PVC pipe
 - Well casing
 - IPEX solvent cements
- I would also like to know about other IPEX products:**
- Plumbing and mechanical piping systems
 - Electrical or telecommunications piping systems
 - Municipal piping systems
 - Irrigation piping systems
 - PE Electrofusion piping systems



SALES AND CUSTOMER SERVICE

Canadian Customers call IPEX Inc.

Toll free: (866) 473-9462

www.ipexinc.com

U.S. Customers call IPEX USA LLC

Toll free: (800) 463-9572

www.ipexamerica.com

About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- Telecommunication systems
- PVC, CPVC, PP, ABS, PEX, FR-PVDF and PE pipe and fittings (1/4" to 48")
- Industrial process piping systems
- Double containment systems
- Acid waste systems
- High purity systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems

Products are manufactured by IPEX Inc. and distributed in the United States by IPEX USA LLC.

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.



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