

ENFIELD ELECTROFUSION ACID WASTE SYSTEMS

1-1/2" - 12"

ENFIELD™

Enfield electrofusion fittings are molded with an integral resistance wire in the socket, with jointing completed by energizing the resistance wire via a microprocessor controlled Enfusion Control Unit. The result of these innovations is an unparalleled level of joint reliability and repeatability. Enfield has proven over time that it produces the optimum level of performance where it matters most - at the joint interface. It offers unprecedented control of jointing - controlled fit, controlled temperature and controlled time.

ADVANTAGES

- 1 **Positive reliable joints** made in 2 minutes - installation time is reduced
- 2 **Several joints can be made at one time**
- 3 **Proven reliability** for over a decade
- 4 **Enfield is manufactured from polypropylene** which has an operating temperature range from -10°F to 180°F. With occasional exposure to 212°F; this allows systems to be flushed with boiling water
- 5 **Heavy gauge resistance wire** molded into sockets - no loose components, controlled fusion of joints
- 6 **Easy connecting** heavy duty socket terminal posts complete with protection ears
- 7 **Microprocessor controlled Enfusion unit** ensures secure joints and joint repeatability
- 8 **Matched system** - high quality pipe and fittings are matched to give ease of installation and long term reliability
- 9 **Easy to install** - even in difficult areas
- 10 **Installed cost 50% less than glass**
- 11 **Breakage factor eliminated**
- 12 **Maintenance free**

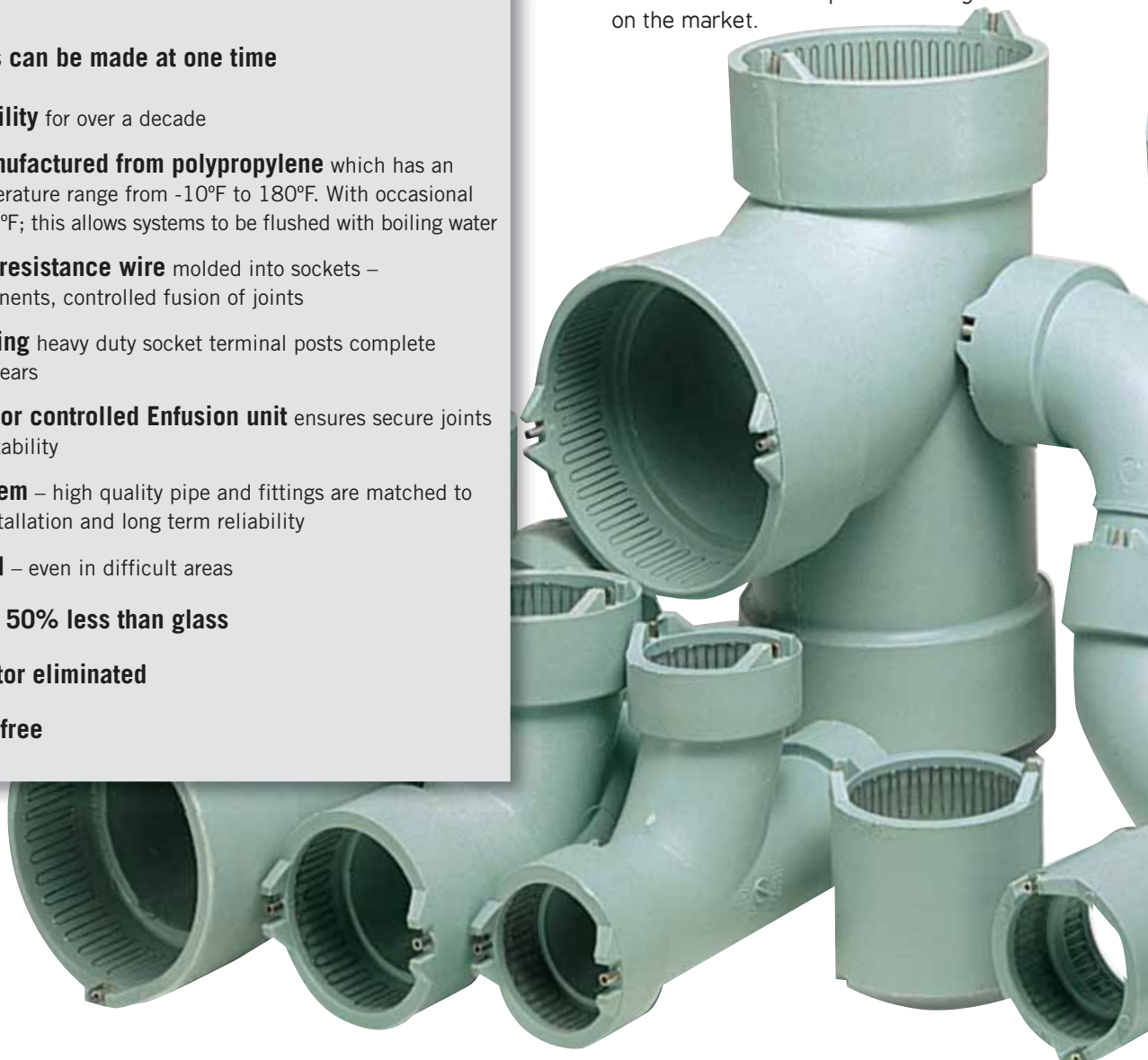
STANDARDS



NSF-approved
IAPMO-listed & CSA-certified
Meets ASTM F1412, D4101 and CSA B181.3

i DID YOU KNOW?

Enfield® offers polypro fittings, constructed with a heavy gauge resistance wire that is integrally molded into the socket. These are considered to be the premier fittings on the market.



SHORT FORM SPECIFICATIONS

GENERAL

Acid waste drain and vent system, as shown on drawings, shall be NSF listed and CSA certified Schedule 40, polypropylene as manufactured by IPEX. System to include pipe supplied in 10 ft. lengths (or 20 ft lengths if NFRPP is specified), fittings, traps and neutralization tanks from the same manufacturer. It shall also include recommended adapters to connect to other piping materials, where applicable.

MATERIAL

Pipe shall be made from NSF listed Type 110 or 210, flame retardant polypropylene conforming to ASTM D4101, with a maximum average flame spread of zero seconds and a maximum extent of burning of 13 mm, in accordance with ASTM D635. Matched fittings shall be made from NSF listed flame retardant polypropylene with average maximum burn time of 80 seconds and maximum extent of burning of 20 mm in accordance with ASTM D635.

If NFRPP pipe is specified, it shall be made from NSF 14 listed and CSA certified Schedule 40 PP as manufactured by IPEX. Pipe shall comply with ASTM F1412 and material used shall comply with the material requirements of ASTM D4101.

FITTINGS

Fittings shall be NSF listed and have an integral heavy gauge, nickel/chrome electrical resistance wire molded in place in the fitting body. Copper wire elements, loose wire or other loose joint components, are prohibited. Fittings shall be Enfield or approved equal.

JOINTS

Connections between polypropylene pipe and fittings shall be made using the Enfield joint. All joints shall have a fusion cycle controlled by a microprocessor operated, waterproof, Enfusion control unit equipped with input and output voltage sensors, ambient temperature sensors to automatically adjust fusion time and audible alarms to indicate cycle interruptions and completion of the joining process. The unit shall be capable of fusing multiple joints and with a minimum capability of eight 2" joints with the same fusion time as a single joint.


Connections between polypropylene and other piping materials shall be made using Enfield adapters according to manufacturer's (IPEX) recommendations. All electrofusion machines shall be third party certified by UL and CSA.

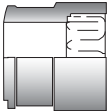
INSTALLATION AND TESTING

Installation and testing shall be in accordance with the contract drawings, the manufacturer's recommendations and the local plumbing codes. Testing with compressed air is prohibited. The entire system shall be installed free of stress and in proper alignment. Horizontal supports shall provide a wide bearing area and be free of burrs or sharp edges. Support spacings shall be in accordance with the manufacturer's recommendations and local plumbing codes. Vertical piping shall have riser clamps at each floor. Pipe supports should be installed so that horizontal piping is in uniform alignment and with a uniform slope of at least 1/8".





PRODUCT SELECTION CHART – ENFIELD

	Dimension inches	Significant Number	Product Code
Glass Adapter EJ x Bead 	1-1/2	L451	257501
	2	L452	257502
	3	L453	257503
	4	L454	257504

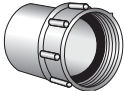
	Dimension inches	Significant Number	Product Code
Cast Iron Adapter EJ x Sp 	1-1/2	L461	257511
	† 2	L462	257512
	† 3	L463	257513
	† 4	L464	257514

† Fabricated

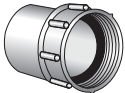
	Dimension inches	Significant Number	Product Code
Duriron Adapter MJ x Spigot 	1-1/2	W461	156461
	2	W462	156462
	3	W463	156463
	4	W464	156464

	Dimension inches	Significant Number	Product Code
3"/12" FRPP Tail Piece Adapter 	1-1/2 x 3	W303	257133
	1-1/2 x 12	W3012	257134


c/w Spigot x Brass Compression Ring

	Dimension inches	Significant Number	Product Code
1-1/2" x 12" FRPP Swivel Sink Strainer Adapter Spg x Female Thread 	1-1/2 x 12	W5512	257090

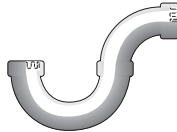
c/w Viton® Gasket

	Dimension inches	Significant Number	Product Code
FRPP Swivel Sink Strainer Adapter Spg x Female Thread 	1-1/2	W551	257093
	* 1-1/2	W551G	156450

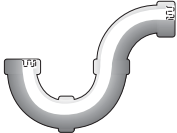
c/w Viton® Gasket
*Pregrooved for Labline. Nut and Olive are extra.

	Dimension inches	Significant Number	Product Code
P Trap - 2 piece EJ 	1-1/2	L1021	257104
	2	L1022	257105


Shipped as 2 pieces

	Dimension inches	Significant Number	Product Code
Fabricated P Trap - 2 piece EJ 	8	LT18	257566
	10	LT110	257562

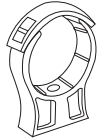
Shipped as 2 pieces

	Dimension inches	Significant Number	Product Code
P Trap - 3 piece EJ 	3	LT13	257563
	4	LT14	257564
	6	LT16	257565

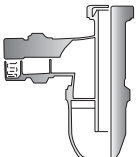
Shipped as 3 pieces

	Dimension inches	Significant Number	Product Code
Pipe Clip 	* 1-1/2	W251	156251
	* 2	W252	156252

* Obsolete when stock depleted

	Dimension inches	Significant Number	Product Code
Cobra Pipe Clip – Polypropylene 	3/8	434305	437340
	1/2	434306	437341
	3/4	434307	437342
	1	434308	437343
	1-1/4	434309	437344
	1-1/2	434310	437345
	2	434311	437346
	2-1/2	434312	437347
	3	434313	437348
	4	434314	437349
	6	434317	437432

Note: 3/8" 1/2", 3/4" and 1" pipe clips are supplied without retaining bands.

	Dimension inches	Significant Number	Product Code
Universal Trap - Solid Base, P Type EJ x Female Thread 	1-1/2	L501	257521
	1-1/2	L5011	257522

IPEX components are dimensionally matched; do not install system of mixed brands without our expressed written consent.