

# 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**

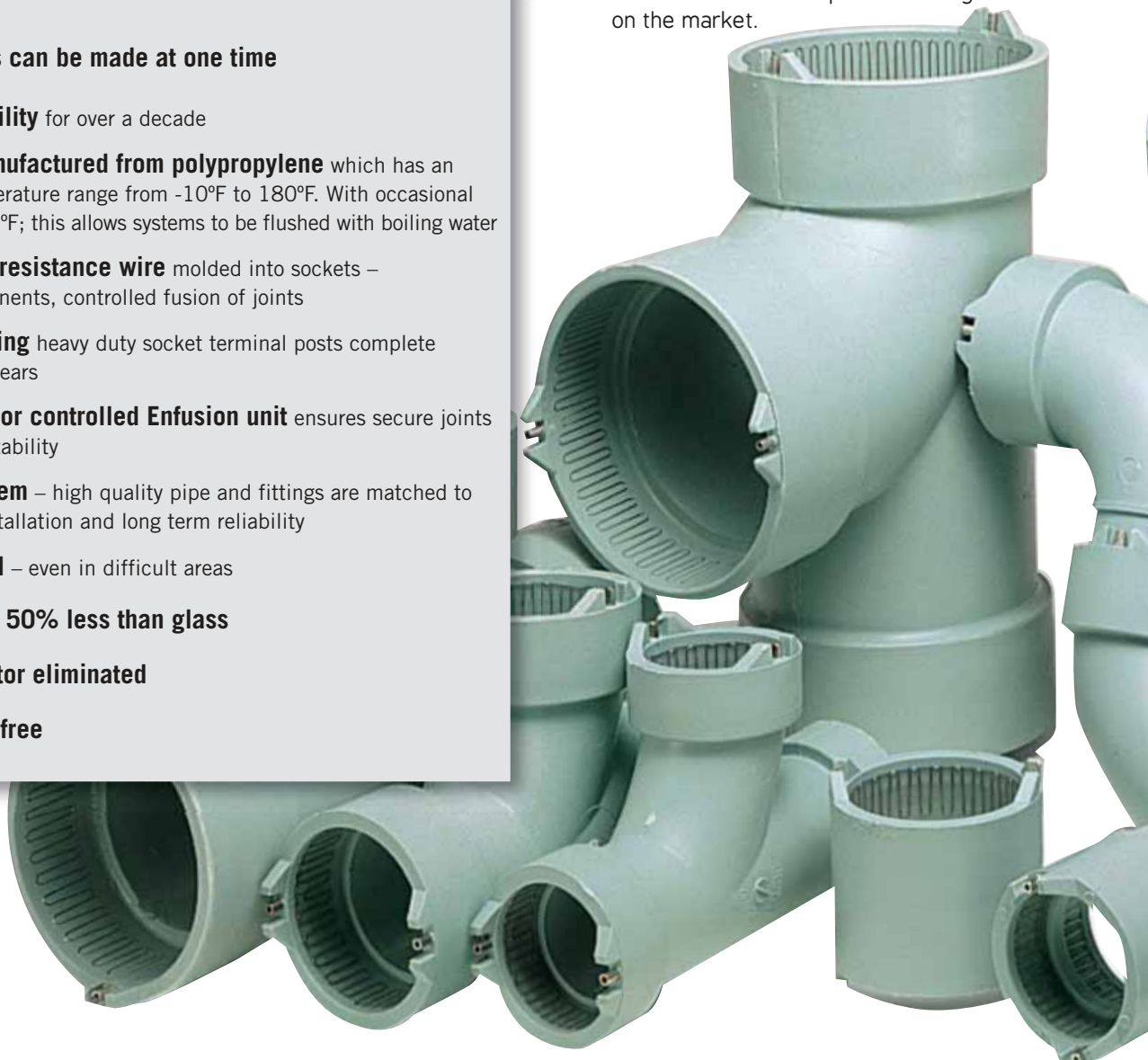
### STANDARDS



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

### 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.

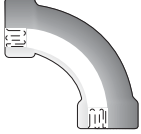
Connections between polypropylene and other piping materials shall be made using Enfield adapters according to manufacturer's (IPEX) recommendations. All electrofusion machines shall be third party certified by UL and CSA.

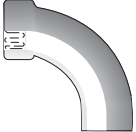
### INSTALLATION AND TESTING


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".




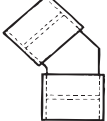
## PRODUCT SELECTION CHART – ENFIELD

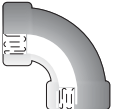
	Dimension inches	Significant Number	Product Code
	1-1/2	L171	257171
	2	L172	257172
	3	L173	257173
	4	L174	257174
	6	L176	257175


	Dimension inches	Significant Number	Product Code
	1-1/2	L281	257281
	2	L282	257282
	3	L283	257283
	4	L284	257284
	6	L286	257286


	Dimension inches	Significant Number	Product Code
	1-1/2	L191	257191
	2	L192	257194
	3	L193	257195
	4	L194	257196
	6	L196	257197

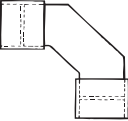
	Dimension inches	Significant Number	Product Code
	1-1/2	L211	257221
	2	L212	257222
	3	L213	257223
	4	L214	257224
	6	L216	257225

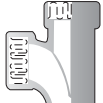
	Dimension inches	Significant Number	Product Code
	8	L198	257198
	10	L1910	257192
	12	L1912	257193

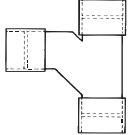
	Dimension inches	Significant Number	Product Code
	1-1/2	L181	257181
	2	L182	257184

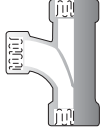
	Dimension inches	Significant Number	Product Code
	1-1/2	L291	257291
	2	L292	257293

	Dimension inches	Significant Number	Product Code
	1-1/2	L291 A	257292

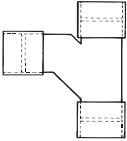
	Dimension inches	Significant Number	Product Code
	8	L188	257185
	10	L1810	257182
	12	L1812	257183

	Dimension inches	Significant Number	Product Code
	1-1/2	L201	257201
	2	L202	257206
	3	L203	257208
	4	L204	257211

	Dimension inches	Significant Number	Product Code
	6	L206	257214
	8	L208	257217
	10	L2010	257202
	12	L2012	257205

	Dimension inches	Significant Number	Product Code
	2 x 1-1/2	L2021	257207
	* 3 x 1-1/2	L2031	257209
	* 3 x 2	L2032	257210
	4 x 2	L2042	257212
	* 4 x 3	L2043	257213

\* Assembled

	Dimension inches	Significant Number	Product Code
	6 x 2	L2062	257215
	6 x 4	L2064	257216
	8 x 3	L2083	257163
	8 x 4	L2084	257218
	8 x 6	L2086	257219
	10 x 3	L20103	257164
	10 x 4	L20104	257203
	10 x 6	L20106	257204
	10 x 8	L20108	257165
	12 x 4	L20124	257166
	12 x 6	L20126	257167
	12 x 8	L20128	257168
	12 x 10	L201210	257169

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