

# NELSON™ DOMESTIC HOT WATER TEMPERATURE MAINTENANCE SYSTEM

## BILL OF MATERIAL/INSTALLATION INFORMATION

### Project Information:

Plumbing System: \_\_\_\_\_

Project No. \_\_\_\_\_

Location: \_\_\_\_\_

### Nominal Maintenance Temperature:

The Nelson Domestic Hot Water Temperature Maintenance System has been designed to provide nominal pipe temperatures under specific conditions. Due to variations in sealing techniques, operating environment, installation methods, etc., exact temperatures cannot be assured without thermostatic control. This is recommended where critical temperature tolerances are required. Refer to Specification/Application Information brochure 316-SA-010.

### Plumbing Information:

Pipe Size	Total Pipe Length	Location	Description	Insulation Thickness

### Circuit Breaker Selection:

Cable Type	Nominal Maintenance Temperature	Maximum Segment Length	Service Voltage	Max. Total Length (Feet) Vs. Circuit Breaker Size			
				15A	20A	30A	40A
LT-A	105°F	810	208	810	1080	1620	2160
LT-B	115°F	770	208	515	685	1030	1370
LT-C	125°F	720	208	340	450	680	905
LT-D	140°F	715	208	285	380	570	760

Circuit breakers are sized per North American electrical codes.

### Electrical Design:

Pipe Size	Total Pipe Length	Insulation Thickness	Voltage	Cable Catalog Number	Breaker Size	Maximum Segment Length	Number of Circuits
0.50				LT-			
0.75				LT-			
1.00				LT-			
1.25				LT-			
1.50				LT-			
2.00				LT-			
2.50				LT-			
3.00				LT-			
4.00				LT-			
5.00				LT-			
6.00				LT-			



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### Circuit Design:

Circuit Number	Panel Number	Service Voltage	Total Cable Length	Nominal Current	Branch Breaker Size	Description/Location
		208				
		208				
		208				
		208				
		208				
		208				

### Nominal Current:

Heating Cable Amps per Foot @ Maintenance Temperature			
LT-A @ 105°F	LT-B @ 115°F	LT-C @ 125°F	LT-D @ 140°F
.006 amp / ft	.009 amp / ft	.011 amp / ft	.012 amp / ft

Amps/foot values are used to calculate steady-state current values and/or transformer loading.

### Accessories:

Description	Catalog Number	U/M	Quantity
Heater Cable 105°F	LT-A	Per foot	
Heater Cable 115°F	LT-B	Per foot	
Heater Cable 125°F	LT-C	Per foot	
Heater Cable 140°F	LT-D	Per foot	
Power Connection Kit	PLT-LP-J	each	
Power Connection Kit with cable seals	PLT-LPS-J	each	
Junction Box, NEMA 4X, 5"x5"x2"	JB-552	each	
Splice Kit, shrink tube	LT-SS	5/kit	
Tee Splice Kit, shrink tube	LT-ST	5/kit	
End Seals, shrink tube	LT-SE	5/kit	
Fiberglass Tape	GT-6	60ft/roll	
Fiberglass Tape	GT-60	60yds/roll	
Caution Label "Electric Traced"	WS-100	each	

- Notes:
1. For additional heater cable information, refer to Nelson brochure 316-SA-010.
  2. For additional accessory information, refer to Nelson brochure 309-SG-040.

Nelson Heat Tracing Systems products are supplied with a limited warranty. Complete Terms and Conditions may be found on Nelson's website at [www.nelsonheaters.com](http://www.nelsonheaters.com).

