

iH²O INSULATED PIPE



HEATING WATER iH2O PRE-INSULATED PIPING (R>1.5)

SERVICE PIPE/CASING: STAINLESS STEEL/SPIRAL HERITAGE RED

SPECIFICATION: SCHDULE 10S

FUNCTIONAL OPERATING TEMP: -30°C TO +85°C (PUR) ; -20 °C TO +120 °C (PIR)

All R-values are calculated based on PUR factors

Service Pipe Material:

Stainless Steel (k = 13 W/m^oK)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m^oK)

Casing Material:

Painted Steel (k = 50 W/m^oK)

| Pipe Diameter/ OD (mm) | Equivalent Imperial (in) | Class | | NB (mm) | Casing (Heritage Red--Spiral Wound) --- Outer Diameter (mm) | | | | | | | | | | | | | | | | | | | | | | | | Dry & Wet mass of iH2O insulated pipe* (standard stock items) | |
|---------------------------|--------------------------|--------------|---------------|---------|---|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|---|-----------------------------------|
| | | | | | 152 | | 178 | | 203 | | 229 | | 254 | | 305 | | 330 | | 400 | | 450 | | 508 | | 610 | | 711 | | | |
| | | PUR_Thk (mm) | R-Val (m²K/W) | | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | PUR_Thk (mm) | R-Val (m²K/W) | Dry Mass of insulated pipe (kg/m) | Wet Mass of insulated pipe (kg/m) |
| 60.3 | 2" | 10s | 2.77 | 54.8 | 45.9 | 2.90 | 58.9 | 3.98 | | | | | | | | | | | | | | | | | | | 6.8 | 9.2 | | |
| 73.0 | 2 1/2" | 10s | 3.05 | 66.9 | 39.5 | 2.30 | 52.5 | 3.28 | | | | | | | | | | | | | | | | | | | 8.1 | 11.6 | | |
| 88.9 | 3" | 10s | 3.05 | 82.8 | 31.6 | 1.68 | 44.6 | 2.55 | 57.1 | 3.46 | | | | | | | | | | | | | | | | | 9.2 | 14.6 | | |
| 114.3 | 4" | 10s | 3.05 | 108.2 | | | 31.9 | 1.63 | 44.4 | 2.41 | 57.4 | 3.29 | | | | | | | | | | | | | | | 11.7 | 20.8 | | |
| 141.3 | 5" | 10s | 3.40 | 134.5 | | | | | 30.9 | 1.52 | 43.9 | 2.28 | 56.4 | 3.08 | | | | | | | | | | | | | 15.3 | 29.6 | | |
| 168.3 | 6" | 10s | 3.40 | 161.5 | | | | | | | 30.4 | 1.46 | 42.9 | 2.16 | 68.4 | 3.75 | | | | | | | | | | | 18.9 | 39.4 | | |
| 219.1 | 8" | 10s | 3.76 | 211.6 | | | | | | | | | | | 43.0 | 2.08 | 55.5 | 2.79 | | | | | | | | | 26.2 | 61.4 | | |
| 273.1 | 10" | 10s | 4.19 | 264.7 | | | | | | | | | | | | | 28.5 | 1.29 | 63.5 | 3.15 | | | | | | | 37.1 | 92.1 | | |
| 323.9 | 12" | 10s | 4.57 | 314.8 | | | | | | | | | | | | | | | 38.1 | 1.74 | 63.1 | 3.06 | | | | | 44.2 | 122.0 | | |
| 355.6 | 14" | 10s | 4.78 | 346.0 | | | | | | | | | | | | | | | | | 47.2 | 2.19 | 76.2 | 3.74 | | | 51.2 | 145.2 | | |
| 406.4 | 16" | 10s | 4.78 | 396.8 | | | | | | | | | | | | | | | | | | | 50.8 | 2.34 | | | 58.7 | 182.4 | | |
| 457 | 18" | 10s | 4.78 | 447.4 | | | | | | | | | | | | | | | | | | | | | 76.5 | 3.64 | 69.0 | 226.2 | | |
| 508.0 | 20" | 10s | 5.54 | 496.9 | | | | | | | | | | | | | | | | | | | | | 51.0 | 2.31 | 82.7 | 276.6 | | |
| 559.0 | 22" | 10s | 5.54 | 547.9 | | | | | | | | | | | | | | | | | | | | | 76.0 | 3.53 | 94.2 | 330.0 | | |
| 610.0 | 24" | 10s | 6.35 | 597.3 | | | | | | | | | | | | | | | | | | | | | 50.5 | 2.25 | 111.2 | 391.4 | | |

RED BLOCKS DENOTE STANDARD STOCK ITEMS

*Dry mass of insulated pipe = Service pipe mass + PUR insulation mass + Casing mass,

Wet mass of insulated pipe = Dry mass of insulated pipe + Service fluid (water) mass