

iH²O INSULATED PIPE



CHILLED WATER iH₂O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL CAUFIELD GREEN

SPECIFICATION: SCHEDULE 40

Service Pipe Material:

Carbon Steel (k = 46.7 W/m^oK)

Insulation Material:

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

Casing Material:

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

| Pipe Diameter (mm) | Equivalent Imperial (in) | Class | | NB (mm) | Casing (Caufield Green--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 | |
| | | 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" | 40 | 3.91 | 52.5 | 45.9 | 2.90 | 58.9 | 3.98 | | | | | | | | | | | | | | | | | 8.2 | 10.4 | | |
| 73.0 | 2 1/2" | 40 | 5.16 | 62.7 | 39.5 | 2.30 | 52.5 | 3.28 | 65.0 | 4.29 | | | | | | | | | | | | | | | 12.1 | 15.1 | | |
| 88.9 | 3" | 40 | 5.49 | 77.9 | | | 44.6 | 2.55 | 57.1 | 3.46 | 70.1 | 4.48 | | | | | | | | | | | | | 15.3 | 20.1 | | |
| 114.3 | 4" | 40 | 6.02 | 102.3 | | | | | 44.4 | 2.41 | 57.4 | 3.29 | 69.9 | 4.19 | | | | | | | | | | | 20.7 | 28.9 | | |
| 141.3 | 5" | 40 | 6.55 | 128.2 | | | | | | | 43.9 | 2.28 | 56.4 | 3.08 | 81.9 | 4.85 | | | | | | | | | 26.9 | 39.8 | | |
| 168.3 | 6" | 40 | 7.11 | 154.1 | | | | | | | | | 42.9 | 2.16 | 68.4 | 3.75 | 80.9 | 4.59 | | | | | | | 34.9 | 53.6 | | |
| 219.1 | 8" | 40 | 8.18 | 202.7 | | | | | | | | | | | 43.0 | 2.08 | 55.5 | 2.79 | 90.5 | 4.97 | | | | | 49.4 | 81.7 | | |
| 273.1 | 10" | 40 | 9.27 | 254.6 | | | | | | | | | | | | | | | 63.5 | 3.15 | 88.5 | 4.64 | | | 69.1 | 119.9 | | |
| 323.9 | 12" | 40 | 10.31 | 303.3 | | | | | | | | | | | | | | | 38.1 | 1.74 | 63.1 | 3.06 | 92.1 | 4.72 | | | 89.6 | 161.9 |
| 355.6 | 14" | 40 | 11.13 | 333.3 | | | | | | | | | | | | | | | | | 47.2 | 2.19 | 76.2 | 3.74 | | | 106.6 | 193.8 |
| 406.4 | 16" | 40 | 12.70 | 381.0 | | | | | | | | | | | | | | | | | | | 50.8 | 2.34 | 101.8 | 5.12 | 133.8 | 247.8 |
| 457.0 | 18" | 40 | 14.27 | 428.5 | | | | | | | | | | | | | | | | | | | | | 76.5 | 3.64 | 170.4 | 314.6 |
| 508.0 | 20" | 40 | 15.09 | 477.8 | | | | | | | | | | | | | | | | | | | | | 51.0 | 2.31 | 196.1 | 375.4 |

BLUE 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