

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: STAINLESS STEEL/PE100 S1 HDPE BLACK

SPECIFICATION: MIXED SCHEDULE

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/m²K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m²K)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m²K)

| Pipe Diameter/ OD (mm) | Equivalent Imperial (in) | Class | | NB (mm) | Casing (PE100 S1 HDPE Black) --- OD/ID (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Dry & Wet mass of iH2O insulated pipe* (standard stock items) | |
|---------------------------|--------------------------|--------------|---------------|---------|---|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|-----------------------------------|-----------------------------------|-------|--|---|--|
| | | | | | 160 | 150 | 180 | 169 | 200 | 188 | 225 | 211 | 250 | 235 | 280 | 263 | 315 | 296 | 355 | 338 | 400 | 380 | 450 | 428 | 500 | 476 | 560 | 533 | 630 | 599 | 710 | 675 | 800 | 761 | | | | |
| | | 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) | 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" | 40s | 3.91 | 52.5 | 45.0 | 2.85 | 54.4 | 3.62 | | | | | | | | | | | | | | | | | | | | | | | | | 8.5 | 10.7 | | | | |
| 73.0 | 2 1/2" | 40s | 5.16 | 62.7 | 38.7 | 2.25 | 48.0 | 2.95 | 57.4 | 3.68 | | | | | | | | | | | | | | | | | | | | | | | 11.7 | 14.8 | | | | |
| 88.9 | 3" | 40s | 5.49 | 77.9 | 30.7 | 1.64 | 40.1 | 2.26 | 49.5 | 2.92 | 61.2 | 3.80 | | | | | | | | | | | | | | | | | | | | | 14.3 | 19.1 | | | | |
| 114.3 | 4" | 40s | 6.02 | 102.3 | | | 27.4 | 1.38 | 36.8 | 1.94 | 48.5 | 2.70 | 60.3 | 3.51 | | | | | | | | | | | | | | | | | | | 20.8 | 29.0 | | | | |
| 141.3 | 5" | 40s | 6.55 | 128.2 | | | | | | | 35.0 | 1.77 | 46.8 | 2.48 | 60.9 | 3.40 | | | | | | | | | | | | | | | | | 27.6 | 40.5 | | | | |
| 168.3 | 6" | 40s | 7.11 | 154.1 | | | | | | | | | 33.3 | 1.63 | 47.4 | 2.45 | 63.8 | 3.47 | | | | | | | | | | | | | | | 35.3 | 54.0 | | | | |
| 219.1 | 8" | 40s | 8.18 | 202.7 | | | | | | | | | | | | | 38.4 | 1.86 | 59.3 | 3.04 | | | | | | | | | | | | | 53.6 | 85.9 | | | | |
| 273.1 | 10" | 40s | 9.27 | 254.6 | | | | | | | | | | | | | | | 53.7 | 2.63 | | | | | | | | | | | | | 72.0 | 122.9 | | | | |
| 323.9 | 12" | 40s | 9.53 | 304.8 | | | | | | | | | | | | | | | 28.3 | 1.29 | 52.1 | 2.49 | | | | | | | | | | | 92.8 | 165.7 | | | | |
| 355.6 | 14" | STD | 9.53 | 336.5 | | | | | | | | | | | | | | | | | 36.2 | 1.67 | 60.0 | 2.89 | | | | | | | | | 99.5 | 188.5 | | | | |
| 406.4 | 16" | STD | 9.53 | 387.3 | | | | | | | | | | | | | | | | | | | 34.6 | 1.57 | 63.1 | 3.01 | | | | | | | 115.2 | 233.0 | | | | |
| 457.0 | 18" | STD | 11.13 | 434.7 | | | | | | | | | | | | | | | | | | | | | 37.8 | 1.72 | 71.1 | 3.39 | | | | | | 149.9 | 298.4 | | | |
| 508.0 | 20" | STD | 12.70 | 482.6 | | | | | | | | | | | | | | | | | | | | | | | 45.6 | 2.08 | 83.7 | 4.01 | | | | 190.2 | 373.2 | | | |
| 559.0 | 22" | STD | 12.70 | 533.6 | | | | | | | | | | | | | | | | | | | | | | | | | 58.2 | 2.68 | | | | 215.8 | 439.4 | | | |
| 610.0 | 24" | STD | 14.27 | 581.5 | | | | | | | | | | | | | | | | | | | | | | | | | 32.7 | 1.46 | 75.5 | 3.52 | | 267.2 | 532.8 | | | |

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