



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL STAINLESS STEEL

SPECIFICATION: SCHEDULE 40

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:

Carbon Steel (k = 46.7 W/m°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

316L Stainless Steel (k = 13 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Stainless Steel 316L--Spiral Wound) --- Outer Diameter (mm)																				Dry & Wet mass of iH2O insulated pipe* (standard stock items)		
					152		178		203		229		254		305		356		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)
60.3	2"	40	3.91	52.5	45.9	2.90	58.9	3.98																	8.1	10.3	
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																	11.2	14.3	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46															13.8	18.6	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29													19.0	27.3	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08											25.1	38.1	
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75									32.9	51.5	
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57							48.1	80.4	
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15					66.8	117.7	
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06			86.9	159.2	
355.6	14"	40	11.13	333.3																47.2	2.19	76.2	3.74		103.2	190.5	
406.4	16"	40	12.70	381.0																		50.8	2.34		133.3	247.3	
457.0	18"	40	14.27	428.5																				76.5	3.64	169.9	314.1
508.0	20"	40	15.09	477.8																				51.0	2.31	195.6	374.9

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