



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL EBONY

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:

Painted Steel (k = 50 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Ebony--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)	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																			11.4	14.5	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																	13.9	18.7	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29															19.2	27.4	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08														25.3	38.2
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75												33.1	51.7
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57										48.4	80.7
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15								67.2	118.0
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06						87.3	159.5
355.6	14"	40	11.13	333.3																47.2	2.19	76.2	3.74					103.6	190.9
406.4	16"	40	12.70	381.0																			50.8	2.34				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	

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