

# iH<sup>2</sup>O INSULATED PIPE



## CHILLED WATER iH<sub>2</sub>O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL EBONY

SPECIFICATION: SCHEDULE 40

<b>Service Pipe Material:</b>	
Carbon Steel	(k = 46.7 W/m <sup>o</sup> K)
<b>Insulation Material:</b>	
DPE1783R PUR	(k = 0.024 W/m <sup>o</sup> K)
<b>Casing Material:</b>	
Painted Steel	(k = 50 W/m <sup>o</sup> 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		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