



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL STAINLESS STEEL

SPECIFICATION: SCHEDULE 40

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		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 or insulated pipe (kg/m)
60.3	2"	40	3.91	52.5	45.9	2.90	58.9	3.98																		8.1	10.2	
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28	65.0	4.29																11.9	15.0	
88.9	3"	40	5.49	77.9			44.6	2.55	57.1	3.46	70.1	4.48														15.1	19.9	
114.3	4"	40	6.02	102.3					44.4	2.41	57.4	3.29	69.9	4.19												20.5	28.7	
141.3	5"	40	6.55	128.2							43.9	2.28	56.4	3.08	81.9	4.85										26.7	39.6	
168.3	6"	40	7.11	154.1									42.9	2.16	68.4	3.75	80.9	4.59								34.6	53.3	
219.1	8"	40	8.18	202.7											43.0	2.08	55.5	2.79	90.5	4.97						49.1	81.4	
273.1	10"	40	9.27	254.6															63.5	3.15	88.5	4.64				68.7	119.6	
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06	92.1	4.72		89.2	161.5	
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74		106.1	193.4	
406.4	16"	40	12.70	381.0																			50.8	2.34	101.8	5.12	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

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

