

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: COPPER/HDPE BLACK

Service Pipe Material:

Type B Copper (k = 325 W/m⁰K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m⁰K)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m⁰K)

Pipe Diameter (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)	
					110	103	160	150	200	188	225	211	250	235	280	263	315	296	355	338	400	380	450	430	500	476	560	533						
		Pressure (Bar)	Thickness (mm)		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)		
12.7	1/2"	52.9	0.91	10.9	45.3	4.48	68.8	7.69																					1.8	1.9				
19.1	3/4"	39.7	1.02	17.1	42.1	3.61	65.6	6.42																					2.0	2.2				
25.4	1"	35	1.02	23.4	39.0	3.00	62.5	5.53																					2.2	2.6				
31.8	1 1/4"	27.8	1.22	29.4	35.8	2.52	59.3	4.83																					4.1	4.8				
38.1	1 1/2"	23	1.22	35.7	32.6	2.14	56.1	4.27	74.9	6.21																			4.3	5.3				
50.8	2"	17.1	1.22	48.4			49.8	3.38	68.5	5.09																			4.7	6.6				
63.5	2 1/2"	13.7	1.22	61.1			43.4	2.69	62.2	4.23	73.9	5.27																	6.9	9.8				
76.2	3"	15.2	1.63	72.9					55.8	3.52	67.6	4.47																	8.1	12.2				
101.6	4"	12	1.63	98.3					43.1	2.40	54.9	3.22	66.6	4.08															10.3	17.9				
127	5"	9.6	1.63	123.7							42.2	2.24	53.9	3.00	68.0	3.98													12.7	24.8				
152.4	6"	10	2.03	148.3									41.2	2.12	55.3	2.99	71.8	4.08											17.2	34.5				
203.2	8"	7.2	2.03	199.1											46.4	2.32	67.2	3.56											23.2	54.4				
228.6	9"	8.1	2.64	223.3													54.5	2.74	75.9	4.03									28.1	67.2				
254	10"	7.3	2.64	248.7													41.8	2.01	63.2	3.20	88.2	5.34							33.1	81.7				
305	12"	TBC	3.0	299.0															37.7	1.76	62.7	3.64	85.3	4.39					41.8	112.0				
355	14"	TBC	3.0	349.0																	37.7	2.23	60.3	2.90	88.8	4.50			51.2	146.9				
406	16"	TBC	3.0	400.0																							63.3	3.02	60.7	186.4				

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