

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



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

SERVICE PIPE/CASING: COPPER/SPIRAL GALV STEEL

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:

Type B Copper (k = 325 W/m<sup>0</sup>K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m<sup>0</sup>K)

Casing Material:

Z275 Galv Steel (k = 50 W/m<sup>0</sup>K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Z275 Galvanized steel--Spiral Wound) --- Outer Diameter (mm)																								Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					102		127		152		178		203		229		254		305		330		400		450		508			
		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	1½"	52.9	0.91	10.9	44.7	4.39	57.2	6.04																				2.1	2.2	
19.1	¾"	39.7	1.02	17.1	41.5	3.53	54.0	4.97																				2.3	2.5	
25.4	1"	35	1.02	23.4	38.3	2.93	50.8	4.22																				2.4	2.9	
31.8	1 ¼"	27.8	1.22	29.4	35.1	2.46	47.6	3.63																				2.8	3.5	
38.1	1 ½"	23	1.22	35.7	32.0	2.08	44.5	3.16	57.0	4.35																		3.0	4.0	
50.8	2"	17.1	1.22	48.4	25.6	1.47	38.1	2.40	50.6	3.44																		3.9	5.8	
63.5	2 ½"	13.7	1.22	61.1			31.8	1.82	44.3	2.74	57.3	3.79																4.6	7.6	
76.2	3"	15.2	1.63	72.9			25.4	1.34	37.9	2.17	50.9	3.12																6.1	10.3	
101.6	4"	12	1.63	98.3					25.2	1.27	38.2	2.06	50.7	2.90														7.8	15.4	
127	5"	9.6	1.63	123.7							25.5	1.24	38.0	1.97	51.0	2.79												9.4	21.5	
152.4	6"	10	2.03	148.3									25.3	1.20	38.3	1.93	50.8	2.68										12.8	30.0	
203.2	8"	7.2	2.03	199.1													25.4	1.17	50.9	2.56								17.6	48.7	
228.6	9"	8.1	2.64	223.3															38.2	1.82	50.7	2.50						22.4	61.6	
254	10"	7.3	2.64	248.7																38.0	1.78	73.0	3.75				24.7	73.3		
305	12"	TBC	3.0	299.0																		47.5	2.24	72.5	3.62		33.3	103.6		
355	14"	TBC	3.0	349.0																				47.5	2.20	76.5	3.76	38.6	134.2	
406	16"	TBC	3.0	400.0																						51.0	2.35	44.3	170.0	

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