



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL ALUMINUM

SPECIFICATION: SCHEDULE STANDARD

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:

Aluminum (k = 205 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Aluminum--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 or insulated pipe (kg/m)
60.3	2"	STD	3.91	52.5	45.9	2.90	58.9	3.98																			7.1	9.3
73.0	2 1/2"	STD	5.16	62.7	39.5	2.30	52.5	3.28																			10.2	13.3
88.9	3"	STD	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																	12.8	17.6
114.3	4"	STD	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29															17.9	26.1
141.3	5"	STD	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08													23.8	36.7
168.3	6"	STD	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75											31.2	49.8
219.1	8"	STD	8.18	202.7											43.0	2.08	68.5	3.57									46.1	78.4
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15							64.5	115.4
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06					78.4	151.4
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74			87.0	175.9
406.4	16"	STD	9.53	387.3																			50.8	2.34			99.9	217.8
457.0	18"	STD	9.53	437.9																					76.5	3.64	115.2	265.8
508.0	20"	STD	9.53	488.9																					51.0	2.31	125.2	313.0

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