iH2O INSULATED PIPE

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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL ALUMINUM

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:	
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)	
		Schedule Number	Thickness (mm)		152		178		203		229		254		305		330		400		450		508		610			
					PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/W)	PUR_Thk (mm)	R-Val (m^2K/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																	7.1	9.3
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	**52.5**	**3.28**	65.0	4.29															10.7	13.8
88.9	3"	40	5.49	77.9			44.6	2.55	**57.1**	**3.46**	70.1	4.48													13.8	18.6
114.3	4"	40	6.02	102.3					44.4	2.41	**57.4**	**3.29**	69.9	4.19											19.0	27.2
141.3	5"	40	6.55	128.2							43.9	2.28	**56.4**	**3.08**	81.9	4.85									25.0	37.9
168.3	6"	40	7.11	154.1									42.9	2.16	**68.4**	**3.75**	80.9	4.59							32.6	51.3
219.1	8"	40	8.18	202.7											43.0	2.08	**55.5**	**2.79**	90.5	4.97					46.9	79.2
273.1	10"	40	9.27	254.6															**63.5**	**3.15**	88.5	4.64			66.0	116.9
323.9	12"	40	10.31	303.3															38.1	1.74	**63.1**	**3.06**	92.1	4.72	86.2	158.5
355.6	14"	40	11.13	333.3																	47.2	2.19	**76.2**	**3.74**	102.7	190.0
406.4	16"	40	12.70	381.0																			**50.8**	**2.34**	101.8	5.12	130.0	244.0
457.0	18"	40	14.27	428.5																					**76.5**	**3.64**	165.8	310.0
508.0	20"	40	15.09	477.8																					**51.0**	**2.31**	191.5	370.8

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

APS AUSTRALIAN PIPING SOLUTIONS

GlobalGROUP ISO 9001 · UKAS MANAGEMENT SYSTEMS 0039

TICA The Insulation Contractors Association of Australia