





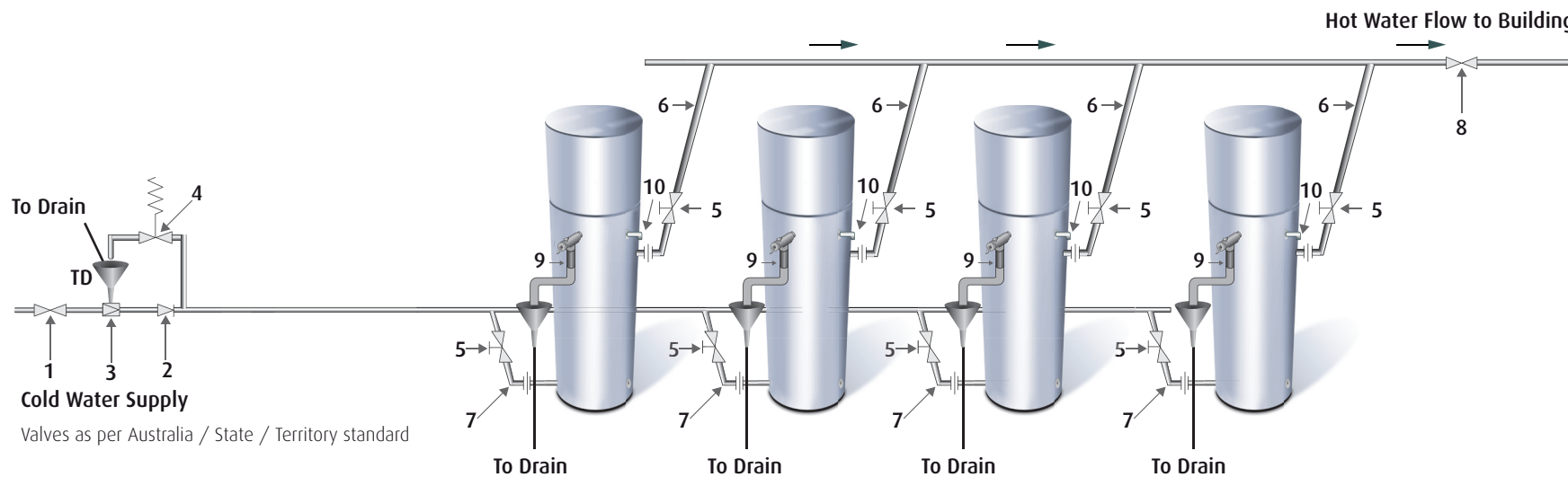
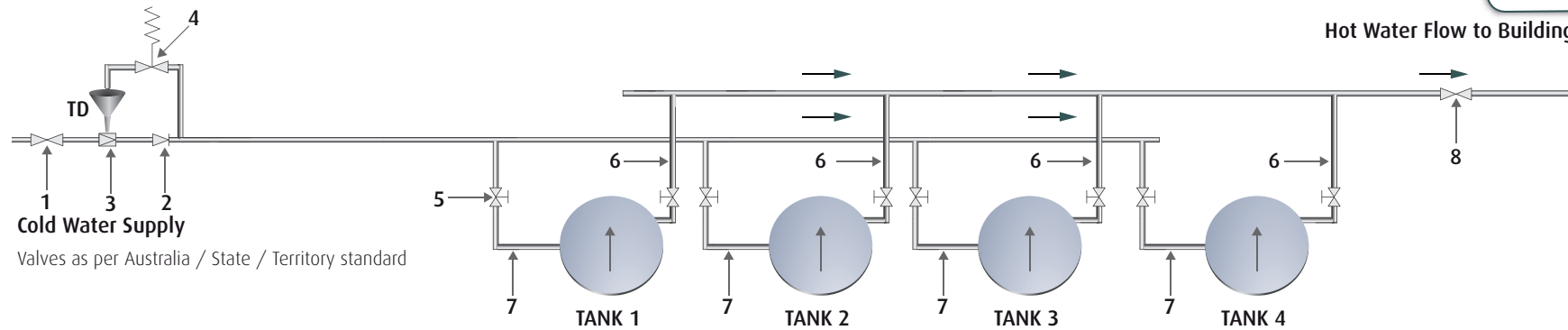


Quantum Titan Commercial - Dead Leg System

Recommendations

Legend

-  Expansion Valve
-  Tundish
-  Check / Non Return Valve
-  Pressure Limiting Valve
-  1/4 Turn Full Bore Valve
-  Isolation Valve



Quantum Titan Commercial - Dead Leg System

Header Sizes for Multiple Quantum Heat Pumps		
Number Of Heaters In Bank	Nominal Size Of Headers	Minimum Size Of Headers DN
3 to 5	One pipe size larger than branch pipes	25
6 to 10	Two pipe sizes larger than branch pipes	32
11 to 15	Three pipe sizes larger than branch pipes	40

Manifolded Titans Recommendations		
Ref No.	Description	RECOMMENDATIONS
1	Isolation Valve Cold**	Full-bore Ball or Gate Valve
2	Check Valve**	Check Valve
3	Pressure limiting Valve***	Adjustable Pressure Limiting Valve
4	Cold Water Relief Valve	DN20-40 850kPa to local codes
5	Isolation valves	DN20 1/4 turn full-bore ball valves
6	Hot water branch	DN20 equal length encapsulated copper (or flexible hose where codes allow)
7	Cold water branch	DN20 equal length encapsulated copper (or flexible hose where codes allow)
8	Isolation Valve Hot**	Full-bore Ball or Gate Valve
9	TPR Valve	1000kPa (supplied with tank) Drain To Tundish
10	Condensate Drain	To tundish and drain
	Distance from wall Tank centres	500mm where air is exhausted toward wall: 250mm where air is exhausted in any other direction 900mm (250mm between tanks)
	Insulation	Min 13mm Armaflex or similar to all hot pipework, and all pipework on flow and return systems
	Electrical Recommended	Minimum 10A isolating switch within 1 metre of each unit. Separate minimum 16A circuit breaker per unit. *NOTE* 3 pin plugs are not recommended. 240 volt power supply minimum supply 220 volts.

These recommendations are to be used as a guide only.

Please refer to current Australia / State / Territory standards for further information

* Manifold/header sizes to be calculated according to flow Australia / State / Territory standards and requirements.

** Same Nominal Diameter as header/manifold

*** Pressure limiting valve required where mains pressure exceeds 800kPa.