



Compact heat exchangers

Gasketed and welded heat exchangers are used in dozens of cooling positions around the nuclear power plant – in the nuclear as well as Turbine Islands. They are exceptionally efficient, reliable and compact, thus saving energy, operating costs and installation space.



High-speed separators

Alfa Laval's lube-oil treatment equipment, for example the OCM oil-cleaning module, quickly and effectively separates oil, water and sludge components in contaminated lubrication and hydraulic oils – all at the same time and regardless of the type or quantity of contaminants.



Decanter centrifuges

Decanters are used to treat radioactive wastewater from washing machines, showers and equipment cleaning before it leaves the plant. The centrifuge system removes all undissolved solids from these water streams. The result is high decontamination and considerably lower volumes.



Filters

Alfa Laval's high-performance ALF filters remove small particles debris, sand and biological matter from external water flows, prior to using it in various closed-loop cooling duties. This saves heat exchangers and other equipment from fouling and wear. The filters are self-cleaning and virtually maintenance-free.



Desalitination units

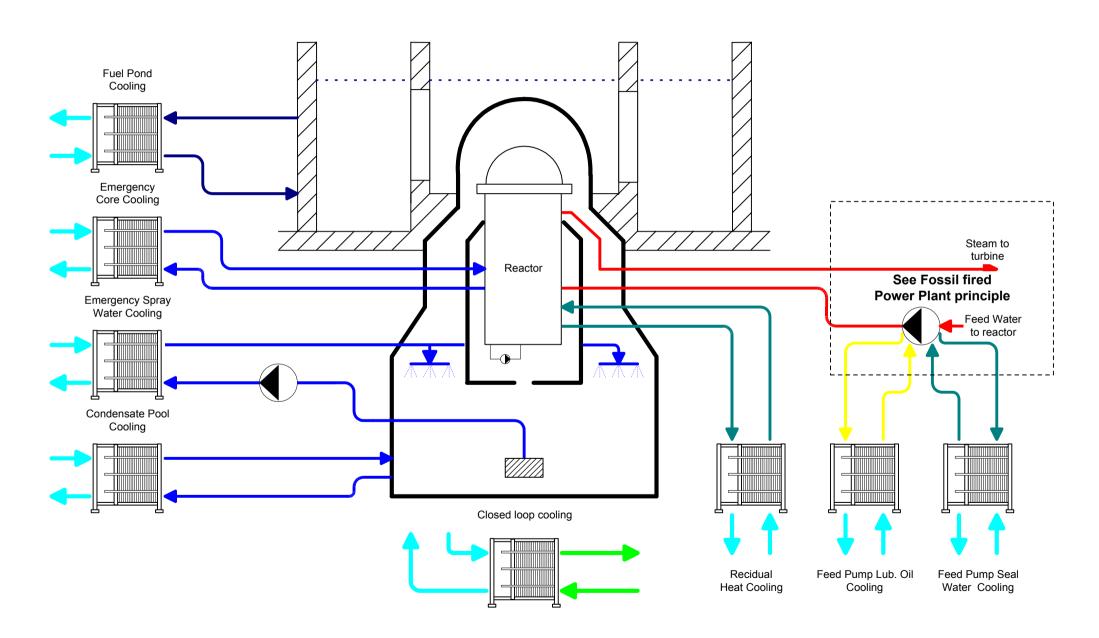
Alfa Laval's desalination systems produce demoralized/fresh water from seawater by evaporation. The water produced is used as process water in various cooling/heating positions. The desalination technologies include Multi-Effect Destillation (MEP), Thermal Vapour Compression (TVC) and Vacuum Vapour Compression (VVC). They all reduce manual operation, maintenance costs and downtime, compared to other technologies.



Air coolers

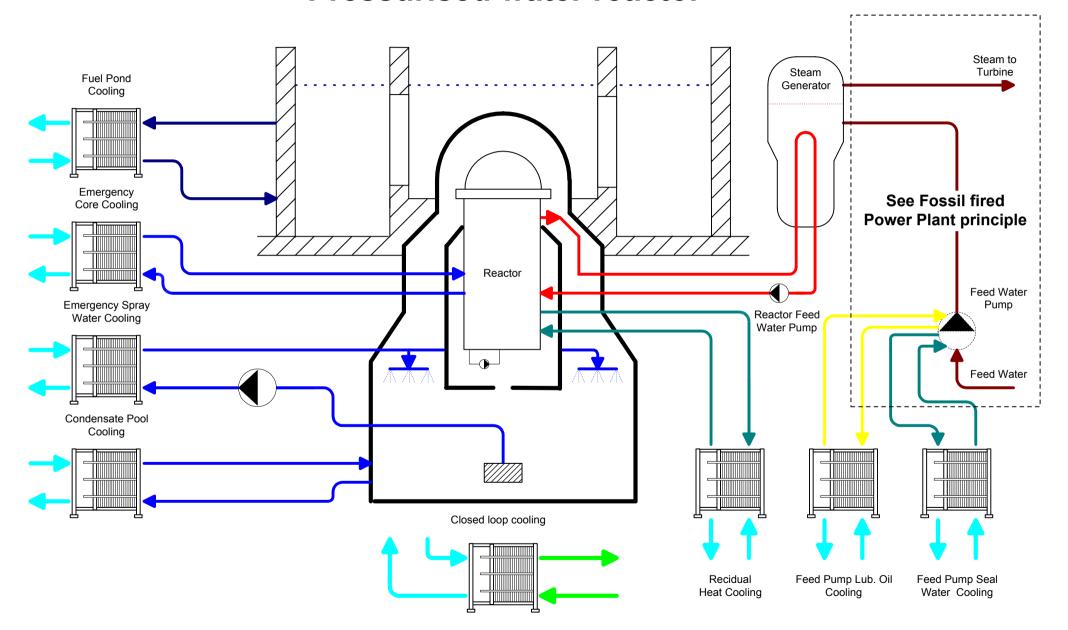
Alfa Laval's wide range of air coolers are used for space cooling in various parts of the Turbine Island and, increasingly, for liquid cooling duties.

Nuclear Boiling water reactor



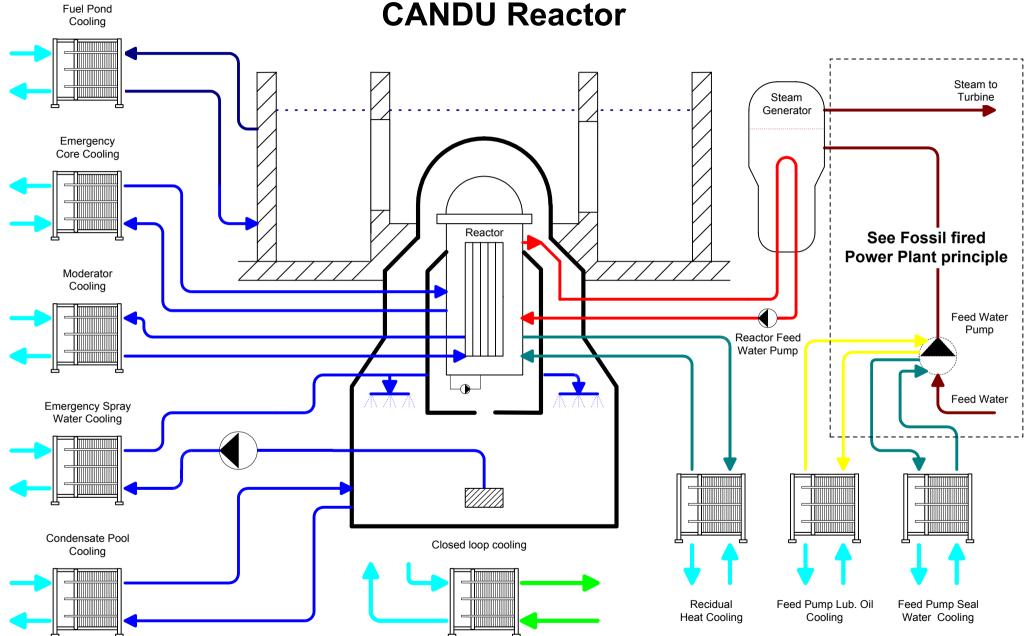
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Nuclear Pressurised water reactor



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Nuclear CANDU Reactor



APPLICATIONS	PRODUCTS			
	PHE	HSS	Secool filter	Alpacon
Closed loop cooling system	X		Х	-
Cooling tower with interm. cooling	X			
Feed water pre-heating	X			
Condensate cooling/heating	X			
Turbine lubricant oil system	X	X		Χ
Make-up water pre-heating	X			
Feed water pump cooling	X			
Generator cooling	X			
Transformer Oil system	X	X		
Fuel pond cooling	X			
Spray water cooling	X			
Condensate pool cooling	X			
Emergency core cooling	X			
Residual heat cooling	X			
Moderator cooling	X			
Waste treatment cooling	X			