

Best Heat Transfer



EcoWater Systems

**Temperature management
system specialist "Reiken"
proposes an environmentally
adaptive temperature
management system.**



Preserving the Environment and Reserving the Nature for Future Generations is Our Mission.

Safety & Ecology

Completely chemical-free and hence no adverse environmental effect. DynaEcoWater System is an eco-friendly temperature management system that addresses ISO14001 and the concept of green procurement.

Non-chemical

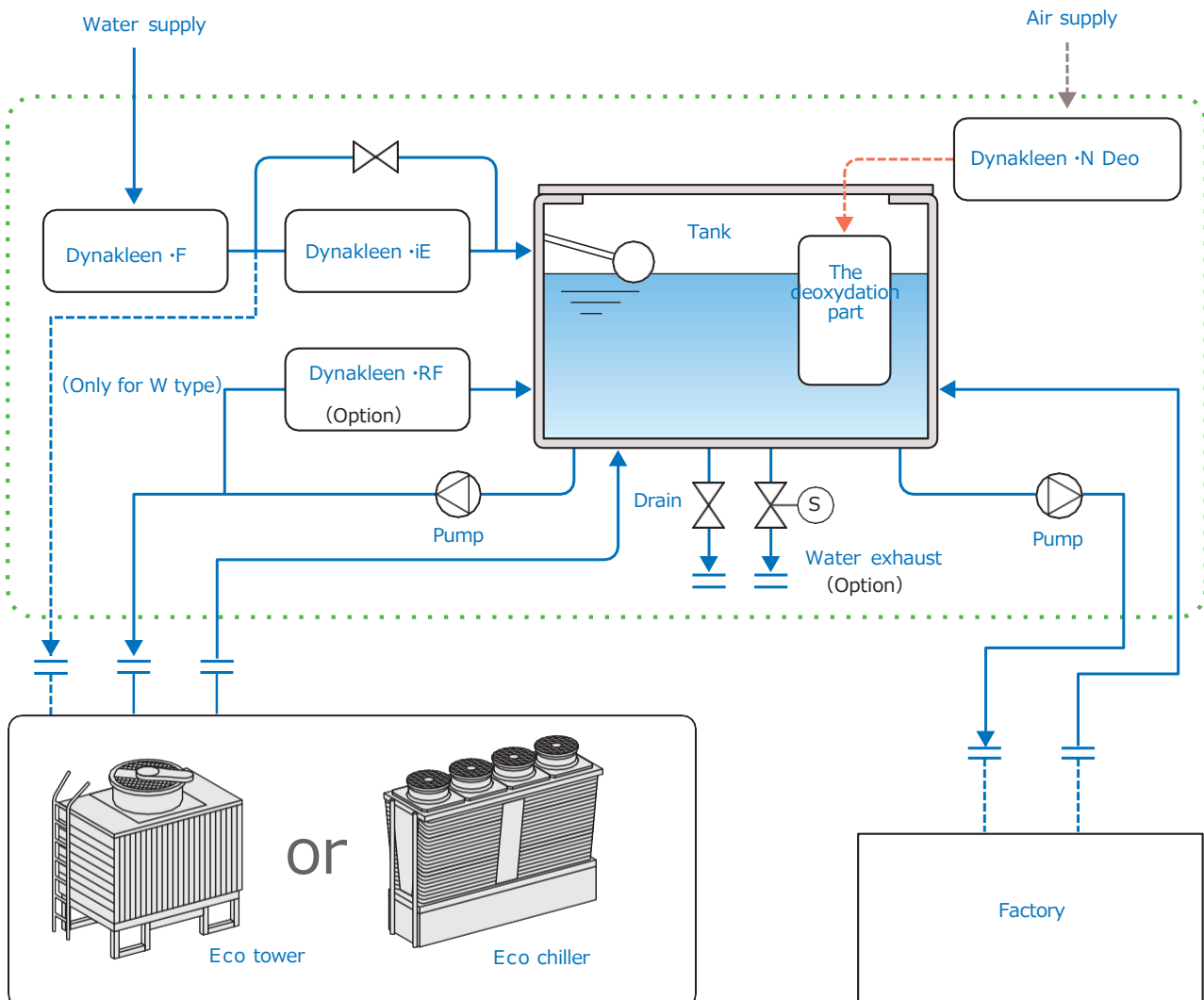
Cooling water is not treated with chemicals, ethylene glycol or the like at all, but general water (tap water, industrial water and underground water) is circulated for water quality and temperature management.

Cost reduction

Scale deposit inhibiting effect keeps not only new piping but also existing piping in good condition.

Chemical-free water quality and temperature management saves the need for wastewater treatment and chemicals replacement, cutting the running costs.

Cooling water, being general water, is safe and speedy to clean if it is spilled inadvertently.



REIKEN Protect the Global Environment



Eco water system equipment configuration

Sediment Filter (for supply water)

Dynakleen•F

- Filtration of dirt sediment in supply water by using a tornado or spin down action that can treat a large amount of dirt sediment.
- Easy check of the filter clogging status by adopting a transparent filter housing.
※Filter specifications for cold districts → Alternation to the Y-Type strainer.

Supply water treatment unit

Dynakleen•iE

- Removal of rust and scale factors in supply water with no chemical use.
- Easy maintenance by adopting a cartridge type filter.
- Surely maintenance by adopting a filter replacement time notification system.

Rust inhibition device for circulating water

Dynakleen•N Deo

PAT. No.5953114

- High efficient deoxydation device originally developed mist spray method.
- Rust control of piping, heat exchanger, metal molds. ie by adopting high efficient deoxydation system.
- No requirements of drainage treatment due to rust inhibition system with no chemical use.

Filter device with automatic backwash function (for circulating water)

Dynakleen•RF (Option)

- Stable and efficient automatic backwash system.
- No requirements of periodic element replacement by adopting SUS element.
- Reduction of maintenance workload, no industrial waste, inhibition of rust water.

Cooling system

ECO Chiller or ECO Tower

- ECO chiller : 7°C ~ 30°C
- ECO tower : 32°C
※According to the using temperature range, we can choose an appropriate cooling system.

ECOII-80W

EcoTower 80R/T

EcoCube



DynaEcoWater System/ MAIN SPECIFICATION

Model	ECOII -30W	ECOII -40W	ECOII -50W	ECOII -60W	ECOII -80W	ECOII -100W	ECOII -125W	ECOII -150W
Medium temperature range	3 ± 2 °C							
Cooling capacity	1360	1814	2267	2721	3628	4535	5669	6802
Tank capacity	500	1000		1500			2000	
Eco tower	Fan output ^(kW)	1.1	2.2		3.7	5.5	7.5	3.7×2
	Pump output ^(kW)	0.75		1.5			1.5×2	
Internal circ. Pump Output ^{(kW) 50/60Hz}		3.7/3.7		5.5/5.5		7.5/7.5	7.5/110	110/110
Medium circ. pump 50/60Hz	Output ^(kW)	5.5/5.5		7.5/110	110/110	110/150	185/150	185/185
	High-efficiency motor							
	Max. flow rate ^(R/min)	600/700		850/1050		1300/1500	2500/1500	2500/2950
	Max. output pressure ^(MPa)	0.47/0.49	0.49/0.60	0.66/0.60	0.48/0.58	0.51/0.60	0.51/0.46	0.58/0.46
Water treatment unit	Dynakleen•iE	Bult in						
	Dynakleen•N Deo	N100020E	N200060E		N4000120E			
Pipe connection size	Medium process / Medium return	80A		100A		125A		150A
	Water supply	32A						
	Tank drain	20A			25A			
	Overflow	25A						
	Comp. air supply port	10A						
Power source		AC200V 50/60Hz, AC220V 60Hz 3 Phase 3 Wire						
Dimension S W×D×H (mm)	(Dimensions with RF) EcoCube	1364 (1390) ×3194×1950	1614 (1640) ×3194×2150		1614 (1640) ×3294×2150		1614 (1640) ×3694×2150	1834 (1860) ×3694×2150
	EcoTower	2760×2240 ×2715	2760×2240 ×3345	3240×2040×2785		3440×2340 ×2785	3240×1840 ×3865	3440×2240 ×3865
Option		Dynakleen • R F Automatic refresh filter unit Backup pump system Strainer unit (for Medium return) Remote control pane Automatic blow For cold district Pump inverter control						

ECOII-80C



Eco Chiller

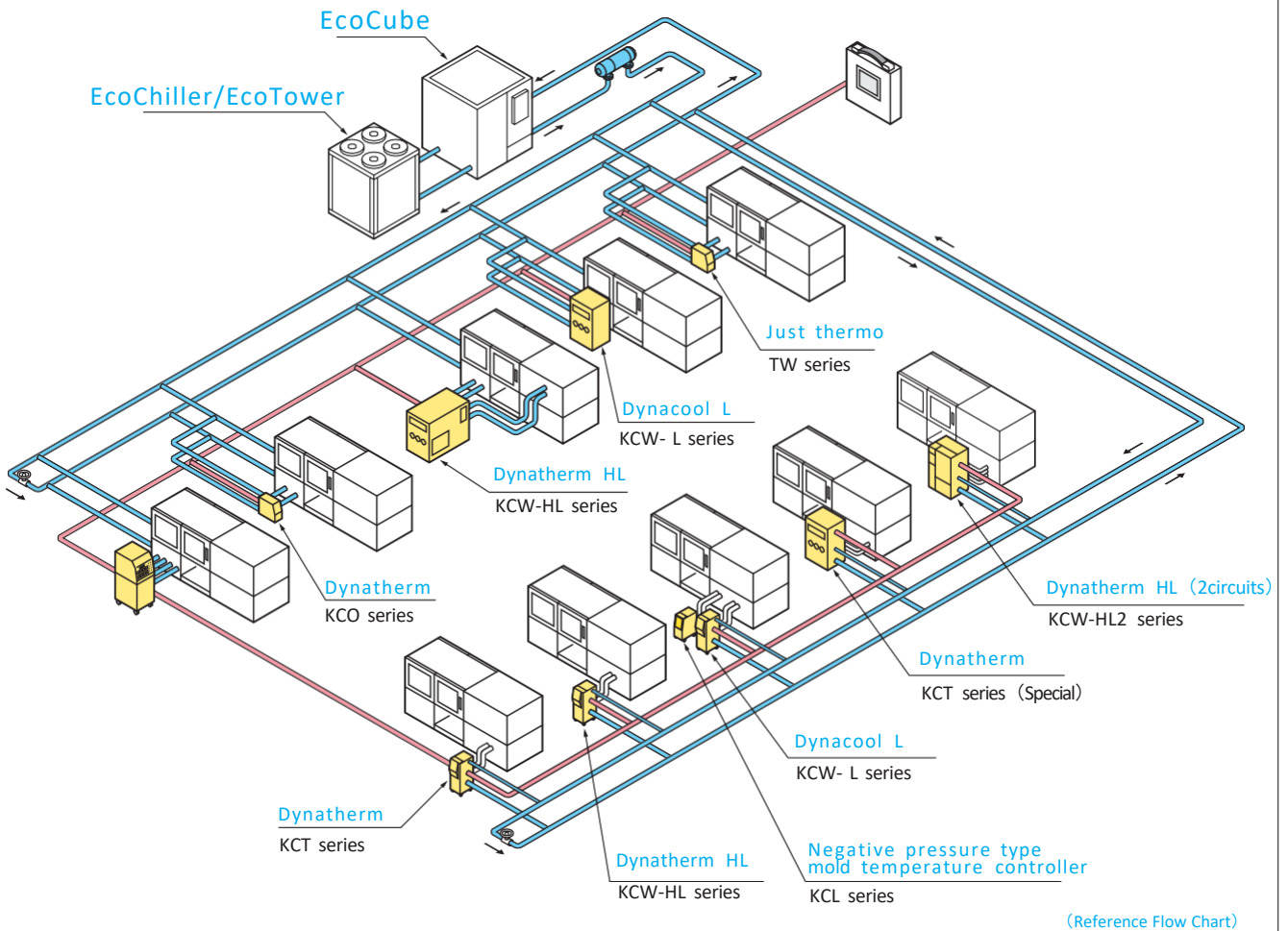
Eco Cube

DynaEcoWater System/ MAIN SPECIFICATION

Model		ECOII -30C	ECOII -40C	ECOII -50C	ECOII -60C	ECOII -70C	ECOII -80C	ECOII -100C	ECOII -120C	ECOII -140C	
Medium temperature range ※1		7 ~ 3 0 °C									
Cooling capacity 50/60Hz	Cooling water outlet temperature	9 °C	679/757	1255	1594	1902	2091	251	3188	3804	4182
		1 5 °C	778/863	1518	1924	2235	2391	3036	3848	447	4782
		2 1 °C	880/972								
		2 5 °C	950/1047								
Tank capacity		500	1000					1500			
Eco chiller	(kW) Compressor output	7.5×3	7.0×4	9.2×4	11.5×4	13.9×4	(7.0×4)×2	(9.2×4)×2	(11.5×4)×2	(13.9×4)×2	
	(kW) Fan output	0.38×3	0.92×4				(0.92×4)×2				
	Refrigerant	R407C / R32									
Internal circ. pump	(kW) 50/60Hz Output	1.5/1.5	2.2/2.2		3.7/3.7			5.5/5.5			
Medium circ. pump 50/60Hz	(kW) Output	4.0/5.5	5.5/5.5				7.5/11.0	11.0/11.0	11.0/15.0		
	(R/min) Max. flow rate	367/433	467/550	600/700			850/1050		1300/1500		
	Max. output pressure	0.54/0.57	0.57/0.61	0.47/0.49			0.49/0.60	0.66/0.60	0.48/0.58		
Water treatment unit	Dynakleen•iE	Bult In									
	Dynakleen•N Deo	N100020E	N200060E					N4000120E			
Pipe connection size	Medium process / Medium return	50A			80A			100A		125A	
	Water supply	20A									
	Tank drain	20A							25A		
	Overflow	25A									
	Comp. air supply port	10A									
Power source		AC200V 50/60Hz, AC220V 60Hz 3Φ 3W									
Dimensions W×D×H (mm)	(Dimensions with RF) Eco Cube	1364 (1390) ×280×1950	1614 (1640) ×3194×2150					1614 (1640) ×3294×2150			
	Eco Chiller	2990×840×1955	3400×1080×2350				3 4 0 0 × 1 0 8 0 × 2 3 5 0 × 2 units				
Option		Dynakleen RF Automatic refresh filter unit Backup pump system Strainer unit (for Medium return) Remote control panel Automatic blow For cold district Pump inverter control									

Environmentally adaptive temperature management system

Dyna Eco Water Systems



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