

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

It is wholly chemical-free and hence has no adverse environmental effects. Dyna Eco Water System is an eco-friendly temperature management system that addresses ISO14001 and the concept of green procurement.

## Non-chemical

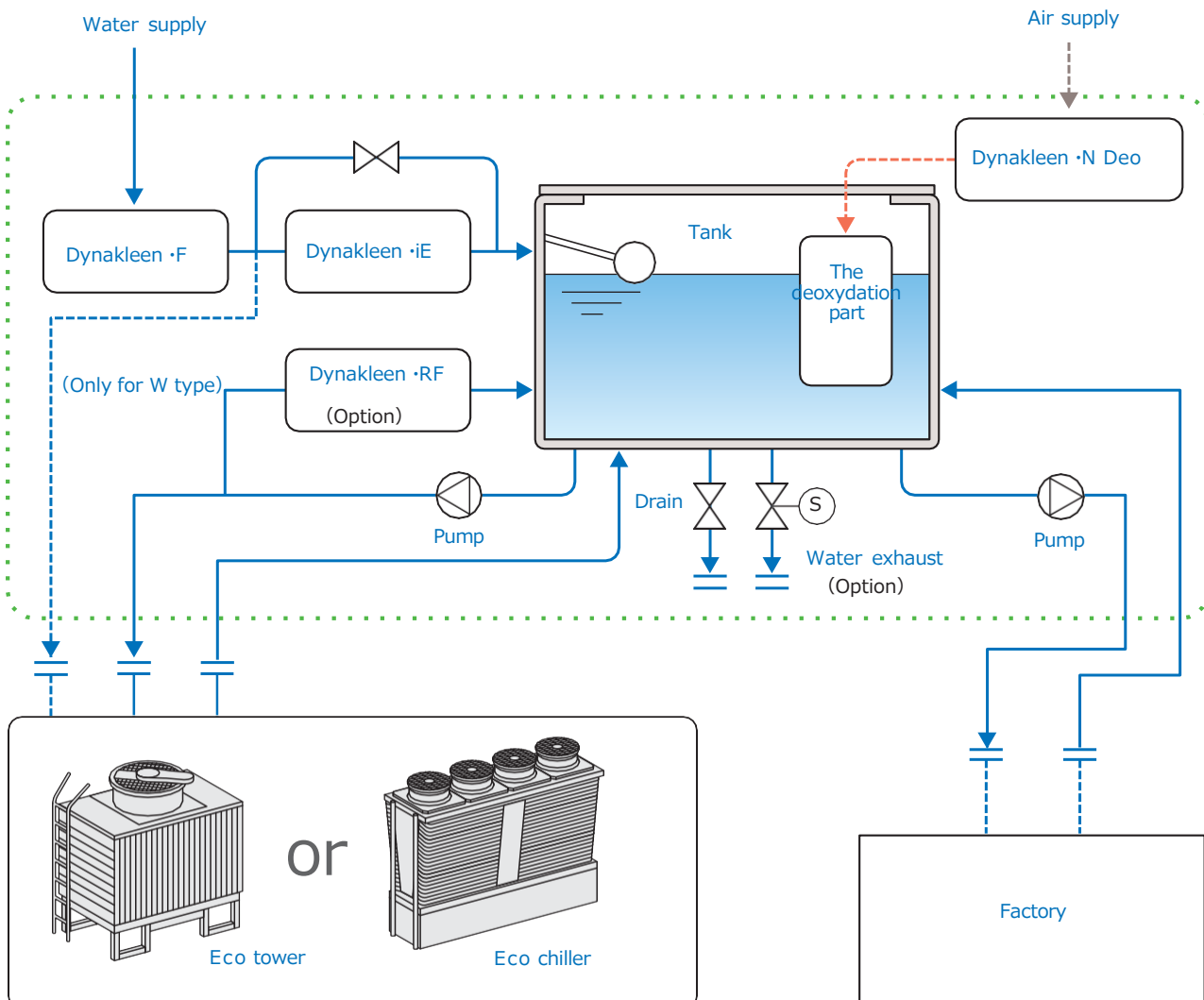
Cooling water is not treated with chemicals, ethylene glycol, or the like at all, but general city water (tap water, industrial water, and underground water) is circulated for water quality of city water and temperature management.

## Cost reduction

Scale deposit inhibiting effect keeps new piping and existing piping in good condition.

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

Cooling water, being general city water, is safe and quick to clean if spilled inadvertently.



# REIKEN Protect the Global Environment



## Eco water system equipment configuration

Sediment Filter (for supply water)

### Dynakleen•F

- Filtration of contamination sediment in make-up water by using a tornado or spin down action that can treat a large amount of contamination 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.

Make-up water treatment unit

### Dynakleen•iE

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

Circulating water rust suppression

### Dynakleen•N Deo

PAT. No.5953114

- High efficient deoxidation unit 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	ECO II -30W	ECO II -40W	ECO II -50W	ECO II -60W	ECO II -80W	ECO II -100W	ECO II -125W	ECO II -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 <sup>(kW)</sup>	1.1	2.2		3.7	5.5	7.5	3.7×2	
	Pump output <sup>(kW)</sup>	0.75		1.5			1.5×2		
Internal circ. Pump Output <sup>(kW) 50/60Hz</sup>		3.7/3.7		5.5/5.5			7.5/7.5	7.5/110	110/110
Medium circ. pump 50/60Hz	Output <sup>(kW)</sup>	5.5/5.5		7.5/110	110/110	110/150	185/150	185/185	220/185
	High-efficiency motor								
	Max. flow rate <sup>(L/min)</sup>	600/700		850/1050		1300/1500	2500/1500	2500/2950	
	Max. output pressure <sup>(MPa)</sup>	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 Make-up water	80A		100A		125A		150A	
	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	3240×4080 ×2785
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



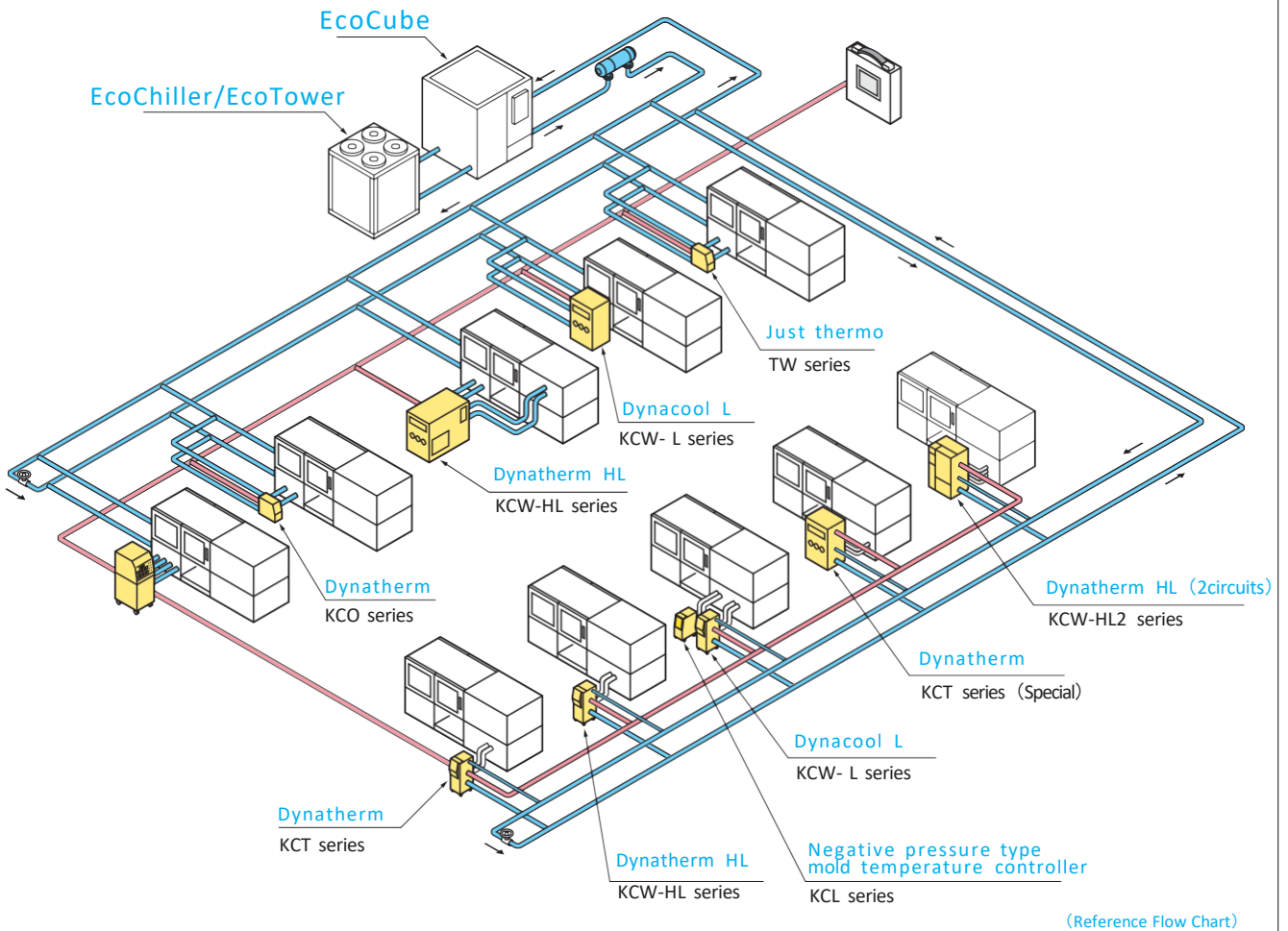
Eco Chiller

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℃										
Cooling capacity 50/60Hz	Cooling water outlet temperature	9℃	679/757	1255	1594	1902	2091	251	3188	3804	4182	
		1 5℃	778/863	1518	1924	2235	2391	3036	3848	447	4782	
		2 1℃	880/972									
		2 5℃	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			
	(L/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 Make-up water	50A		80A			100A		125A			
	Tank drain	20A							25A			
	Overflow	20A					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) ×2804×1950	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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