No.1 DHT CORPORATION FORWARD IN THE WORLD





Index

O1 COMPANY INTRODUCTION

03 REFERENCE LIST

O2 MAIN PRODUCT

04 CERTIFICATION PATENT













01 COMPANY INTRODUCTION

3







1. LOCATION

2. ESTABLISHED DATE

3. EMPLOYEE

4. YEARLY SALE

BUSAN, SOUTH KOREA

1 / MARCH / 1993

35

USD 20,000,000









1993. 01 Founded Dae Hwa Plant







01 COMPANY INTRODUCTION - HISTORY

1999	1999. Of Todifice Duc Tiwa Flaire
1333	1999. 03 Incorporated under the name of DH Tech (Dae Hwa Tech)
	1999. 07 Be selected as a supplier for POSCO
2000	2000. 01 Be selected as a supplier for POSCO E&C (COOLING TOWER B GRADE)
2000	
	2000. 04 Acquired ISO 9001 Certification (Ref. No. QSC02608)
	2000. 05 Moved the head office to 127-4, Gamjeon-dong, Sasang-Gu
2001~2002	
2001~2003	2001. 10 Constructed ERP IT of Small and Medium Business Administration.
	2003. 03 Be selected as an excellent company by POSCO E&C
	2004 00 Farmed de composition in Cinades China
2004~2005	2004. 09 Founded a corporation in Qingdao, China
2004 2003	2004. 12 Be selected as a clean workplace (Korea Occupational Safety & Healthy Agency)
	2005. 03 Be selected as 2005 GOOD-QUALITY supplier by POSCO E&C 2005. 12 Joined COOLING TECHNOLOGY INSTITUTE (CTI)
	2003. 12 Joined Cooling Technology Institute (CTI)
	2007 04 Percelosted as 2005 COOD QUALITY consilies by POCCO F9:C
2007~2008	2007. 04 Be selected as 2005 GOOD-QUALITY supplier by POSCO E&C 2007. 11 Be certified as INNO-BIZ
	2008. 06 Be designated as a prospective exporter (Small Business Export Support Center in Busan and Ulsan)
	(Smail business export Support Center in busan and Oisan)















COMPANY INTRODUCTION - HISTORY

2009~2010	2009. 11 Awarded USM 1 million export tower (Korea Traders Association) 2010. 03 Be selected as 2010 GOOD-QUALITY supplier by POSCO E&C 2010. 06 Being constructed for second DHT factory
2011~2013	2011. 03 Acquired ISO 14001 certification 2011. 06 Be selected as a QSS-MASTER by POSCO 2011. 12 Be selected as a GOOD-QUALITY company by POSCO 2012. 02 Nothing disaster 11 multiple attainment 2012. 03 Be selected as a member of the Busan Techno Park. 2012. 12 Be designated as a leading company by Busan City (Green Energy Sector) 2013. 02 Nothing disaster 12 multiple attainment 2013. 06 Awarded the BEST-QUALITY supplier by POSCO E&C 2013. 07 Acquired OHSAS18001 certification (Ref. No. QA130218) 2013. 11 Awarded USD 3 million export tower (KOREA TRADERS ASSOCIATION)
2014~2015	 2014. 01 Be selected as an excellent enterpriser by Busan City 2014. 02 Received a Korea Federation of Small and Medium Business citation 2014. 06 Be awarded the grand prize of safety culture by Busan City 2014. 07 Be selected as an leading environmental companies by Ministry of Environment in 2014 2014. 12 Be awarded a gold statue of Korea Environmental Energy Awards, part of technique 2015. 01 Nothing disaster 11 mulitiple attainment (Safety and Health Agency) Completed primary and secondary industry innovation movement Be selected as an PHP by POSCO 2015. 02 Be awared the best 2015 Busan innovative enterpiser award in management innovation 2015. 03 Be awared appreciation plaque of relevance to industry-academic exchange & cooperation by korea industrial complex corporation Received citation of the Minister of Commerce, Trade, Industry and Energy in the 42th Commerce & Industry day.







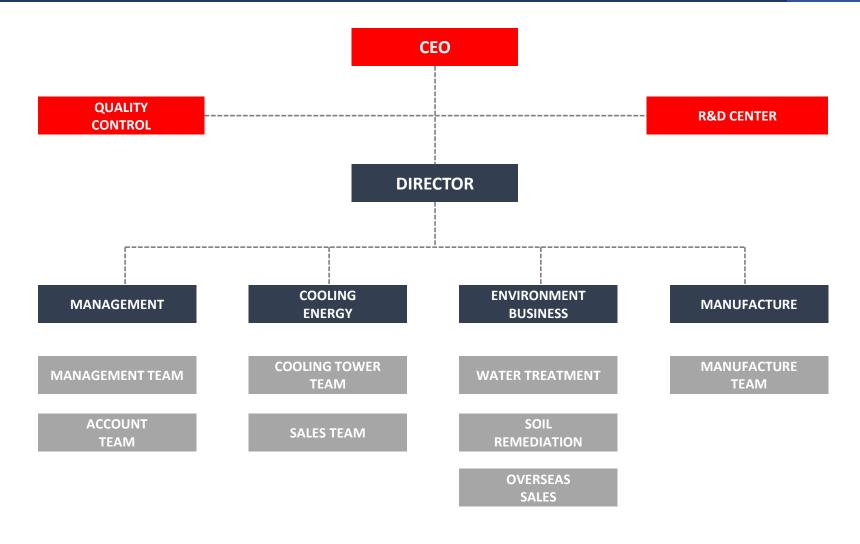








COMPANY INTRODUCTION - ORGANIZATION











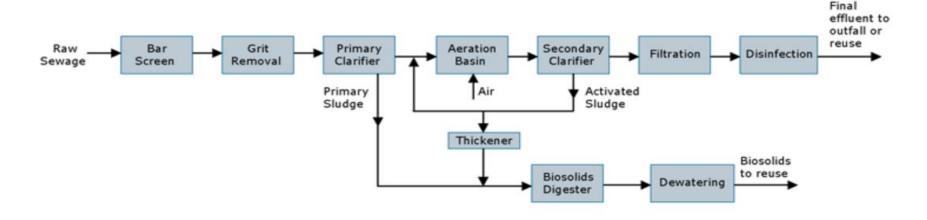






/

WATER TREATMENT SYSTEM











DEMI - WATER













OVERVIEW OF WASTE WATER TREATMENT SYSTEM

 This system is for harmful waste coming from industrial jobsites of dyeing, plating and leather. It physically, Chemically and biologically treats pollutants such as organic / inorganic matter and metals.













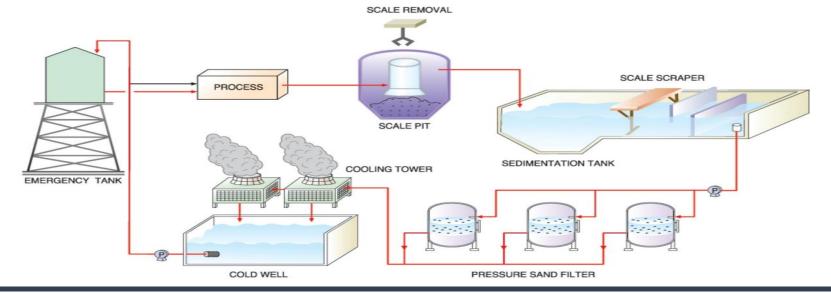






❖ OVERVIEW OF COOLING WATER SYSTEM

- This system is to supply cooling water to heat loading systems such as steel manufacturing and power generating facilities.
- Using the technologies of precipitation, filtering, isolation and cooling tower. It cools down hot water and recirculates.













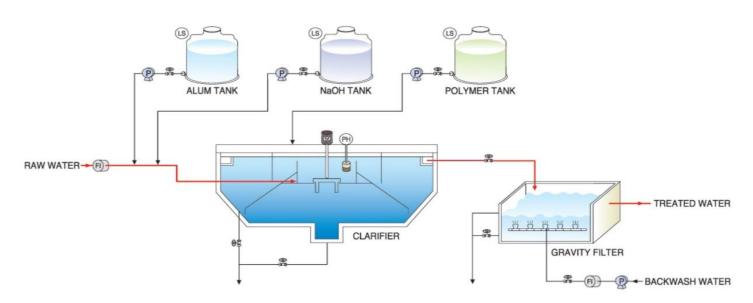






OVERVIEW OF PRE-TREATMENT SYSTEM

- It isolates turbidity, chromaticity, mud, SS and organic/inorganic matters from the surface water collected from a river or a lake using the gravity-sedimentation technique.
- The sludge which is precipitated at the bottom is moved to the thickener to be concentrated.













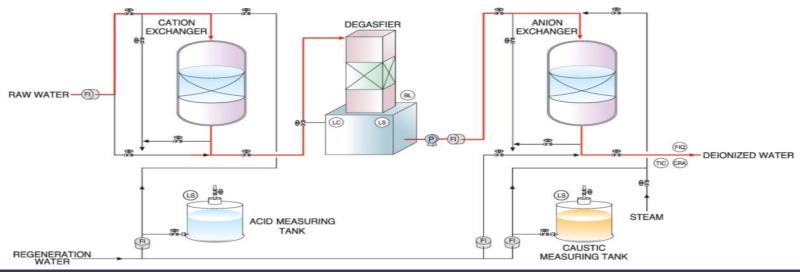






OVERVIEW OF DEMINERALIZED WATER SYSTEM

- It removes cations, anions and particular harmful materials from a solution using ion exchange resin.
- It is used for softening water, removing iron and manganese, and making pure water. With RO and MF system added, it can make ultrapure water.













































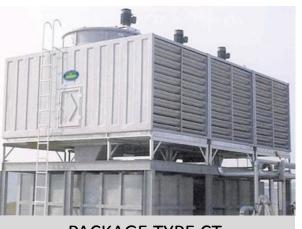
















CLOSE TYPE CT



ROUND TYPE CT









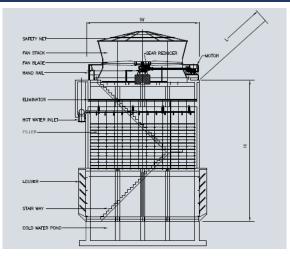


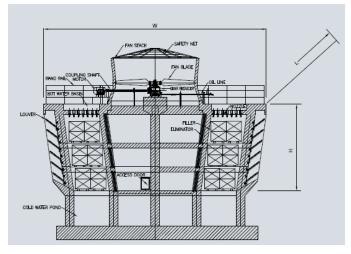




14







INDUSTRIAL TYPE CT

❖ INDUSTRIAL TYPE COOLING TOWER

CORROSION RESISTANCE

The Kinds of frame are metal, RF CON'C and DOUGLAS FIR. Which is treated to preserve from decay with ACQ and all metal frames are coated with zinc alloy and casting is composed of zinc coated plate or CACB combinated With FRP These features will give you high resistance of corrosion and guarantee high durability.

EASY MAINTENANCE

Prefabricated construction will be the most convenient to maintain the system

ANTI-WATER DRIFT LOSS

Excellent eliminator will prevent from any water drift loss

LOW NOISE OPERATION

Newly developed V-belt double reducer or geared double reducer and FRP fan will give water scattering to the Outside of tower.

RECTIFICATION
TYPE LOUVER

Utilizing rectification system increases the efficiency of filling and also prevents any water scattering to the outside of Tower.







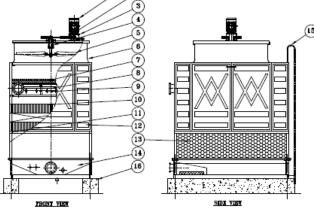






15





NO	DESCRIPTION	MATERIAL
1	MOTOR	T_E_F_C
2	V-BELT	RUBBER
3	MOTOR SUPPORT	SS400+H_D_G
4	SHAFT	FC
5	FAN BLADE	F.R.P
6	FAN STACK	F.R.P
7	ELIMINATOR	P.V.C
8	NOZZLE PIPE	P.V.C or P.E
9	NOZZLE	P.P
10	FILLER	P.V.C
11	FILLER SUPPORT	SS400+HDG
12	CASING(BODY)	F.R.P
13	LOUVER	P.V.C
14	COLD WATER BASIN	F.R.P
15	LADDER	S_P_P_W
16	FOUNDATION	CON'C

COUNTER TYPE CT

COUNTER TYPE COOLING TOWER

FILLER OF HIGH EFFICIENCY

The weak point which the cooling water leaned to one side is removed by the air velocity which is sucked and the heat exchange efficiency is maximized. The interval maintenance method of filler was especially designed and the air resistant minimized.

DUPLEX
DISTRIBUTION SYSTEM

We improved the efficiency of heat exchange by jetting out the cooling water sufficiently through the SPRIAL TARGET NOZZLE and the DISTRIBUTION EQUIPMENT which is added at the top of the filler.

WIDE AIR TRAVEL

The width of filler was made longer.

PROFITABLE DESIGN
AIR FLOW

Optimum arrangement in fan and filler removed DEAD SPACE of air flow and promoted the efficiency









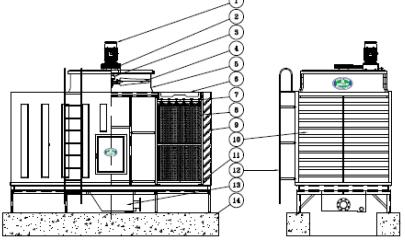






16





NO	DESCRIPTION	MATERIAL
1	MOTOR	T_E_F_C
2	V-BELT	RUBBER
3	REDUCER	FC
4	FAN ASS'Y	F.R.P
5	FAN STACK	F.R.P
6	HOT WATER BASIN	F.R.P
7	NOZZLE	P.P
8	FILLER / ELIMINATOR	P.V.C
9	LOUVER	P.V.C
10	CASING	F.R.P
11	STRUCTURE	SS400+H _• D _• G
12	LADDER	S_P_P_W
13	COLD WATER BASIN	F.R.P
14	FOUNDATION	CON'C

CROSS TYPE COOLING TOWER

MINIMIZATION LIGHTWEUGHT Installation space is reduced and operation weight is minimized, using high efficiency packing materials specially designed for cooling tower of vertically alternating current.

ENERGY SAVING

The power of fan is reduced by smoothing air flow due to bell mouth-shaped fan stack and energy is saved, using packing materials with less pressure loss.

CORROSION RESISTANCE

It has made been semi-permanent by using PP and PVC not to corrode, water to touch all parts within cooling tower, and made corrosion resistant FRP for hot water basin, cold water basin and casing

BUILT-UP TYPE

The cooling tower shall be manufactured, assembled and installed in the factory at same time, so it has good quality due to simple and rapid installation. The kind under 500R/T cannot need assembling process







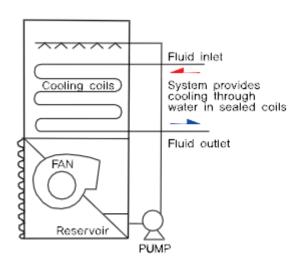


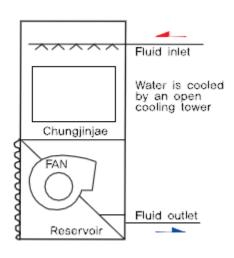












CLOSE TYPE COOLING TOWER

- 2-stage heat transfer is contained within a single unit, improving cooling efficiency and yielding lower temperatures.
- Lower volumes of circulating water are required compared to the cooling water + heat exchanger method. This allows optimization of pump capacity to minimize capacity and power requirements.
- Much less tubing is required as well. The coils are integrated within the unit, doing away with the need for tubing between the cooling tower and heat exchanger.









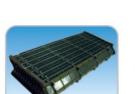


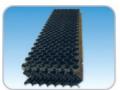




ELIMINATOR PART

Eliminator, which prevents the loss of water caused by scattering and evaporation, is made of PP, PVC, HIPS, or wood. Depending on the type of the cooling tower, other material, which is excellent at heat resistance and acidity removal and has long lifetime, can be used.



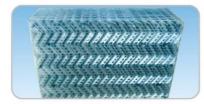






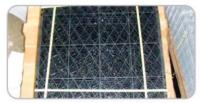
FILLER PART

The filler makes the heat transfer area of water and air and the heat exchange time large. A splash type and a film type are available. Wood, PP, PVC, or HIPS, which is heat-resistant enough to stand hot water, is used.























DISTRIBUTION PART





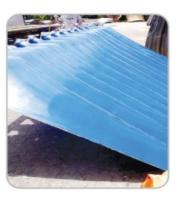


The filler makes the heat transfer area of water and air and the heat exchange time large.

A splash type and a film type are available. Wood, PP, PVC, or HIPS, which is heat-resistant enough to stand hot water, is used.

FAN PART





It is designed to determine the direction of air flow and to increase the cooling effect. FRP or aluminum is used.













03 REFERENCE LIST – MAIN CUSTOMER

posco

POSCO E&C ροsco 포스코플랜텍 ρosco 포스코강판

POSCO

posco



Hyundai Oilbenk



HYUNDRI HYSCO



















03 REFERENCE LIST – MAIN CUSTOMER



SAMSUNG ELECTRO-MECHANICS





































03 REFERENCE LIST – MAIN CUSTOMER



































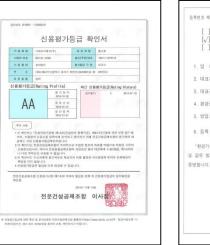


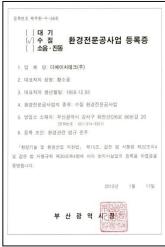
04 CERTIFICATION AND PATENT











Business License



Construction Business Registration Certification

Factory Registration Certification



ISO9001 CERTIFICATION

Credit Report (DNA/BBB-)



Certificate of INNO-BIZ

Credit Report



Promising Export Small Business Certification

Special Construction Business Of Water Quality Environment



Member of KITA









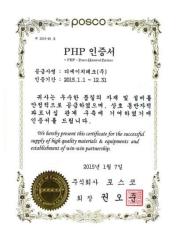


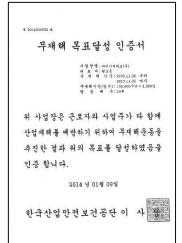


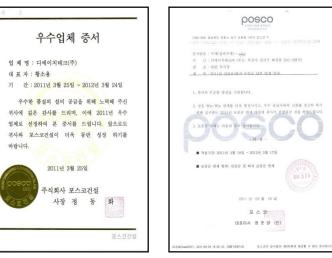


04 CERTIFICATION AND PATENT



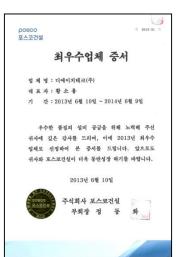








Certificate of Research Institute



OHSAS18001

Certificate of PHP (POSCO)



Certificate of ZERO-HAZARD Goal Attainment



PATENT

Certificate of Leading Company By POSCO E&C



PATENT [Cooling Tower]

Certificate of Leading Company by POSCO



PATENT [Cooling Tower]

Certificate of Leading Company By POSCO E&C

[Carbon Membrain]























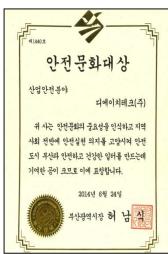
PATENT [Sludge Removal]



PATENT [Cooling Tower]



Certificate of Leading Company By Busan City

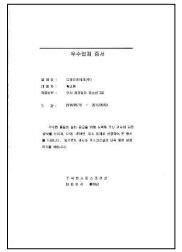


Grand Prize of The Safety Culture

Environment Special Construction Business



Certificate of Leading **Environment Company**



Water and Sewage **Facilities Construction Business**

Certificate of Leading Company by POSCO

Small Business Confirmation

Certificate of Leading Company By POSCO E&C

THANK YOU



Contact Point:

(48471) 20, 66BEON-GIL, HWAJEONSANDAN6-RO, GANGSEO-GU, BUSAN, KOREA

TEL: 82-51-314-3321 FAX: 82-51-316-3321

E-mail: dht@dh3321.com

