



DAE HWA TECH

SPECIFICATION SHEET FOR COOLING TOWER

SHEET NO.

1 / 3

Project Name

COOLING WATER SYSTEM

INFORMATION

All data set forth herein is in accordance with definitions and standards Published by the Cooling Tower Institute.

Symbol * = minimum information to be filled - in by customer, other items may be specified at customer's option.

GENERATION

SELECTION

INDUCED DRAFT WATER COOLING TOWER

TOWER MODEL

DHG-RO-700

TYPE

F.R.P ROUND(COUNTER FLOW) TYPE

DESIGN & OPERATING CONDITIONS* Circulating Water Flow, M³/HR

546

* Hot(inlet) Water Temp. °C

37

* Cold(outlet) Water Temp. °C

32

Wet Bulb Temp. Inlet °C

27

Ambient Temp. °C

-

Relative Humidity %

-

Tower Pump Head, M

-

Nominal Capacity, Kcal/Hr

2,730,000

Drift Loss, % of circulating flow

0.01

Evaporation Loss(at design), %

0.83

* Tower Site(ground level,roof,etc.)

GROUND

* Elevation Above Sea Level, M

-

* Tower Exposure

NONE

PHYSICAL DETAILS

Number of Cells

1

Upper Body, Piece

16

Center Body, Piece

16

Under Body, Piece

16

Overall Tower Dimension, DIA.(Φ)× H, mm

6600 × 5085

Water Basin Dimension, B.C.D(Φ), mm

6400

Access to Top of Tower

LADDER

Shipping Weight, Kg

4461

Operating Weight, Kg

9640

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MATERIALS OF CONSTRUCTION

Frame work Members	
Casing	F.R.P 5t
Filler	P.P 0.4t
Filler Support	SS400+H.D.G
Drift Eliminators	F.R.P
Water Distribution - Type	Sprinkler Pipe
Material	P.V.C
Center Pipe	S.G.P+H.D.G
Suction Tank	SS400+H.D.G
Motor Support	SS400+H.D.G
Support Frame	SS400+H.D.G
Leg	SS400+H.D.G
Ladder	S.G.P+H.D.G

WATER PIPING CONSTRUCTION

Water Inlet	Number	1
	Size	250A
	Height	기초로부터 INLET 중심부까지 230mm
Water Outlet	Number	1
	Size	250A
	Height	기초로부터 OUTLET 중심부까지 230mm
Center pipe	Number	1
	Size	250A
Suction Tank	Number	1
	Size	Φ 483
Sprinkler	Number	1
	Size	250A
Sprinkler Pipe	Number	8
	Size	75A
Drain	Number	1
	Size	80A
Overflow	Number	1
	Size	100A
Auto. Make-up	Number	1
	Size	50A
Manual Make-up	Number	1
	Size	50A

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MECHANICAL EQUIPMENT**FANS**

Number	1
Type	ADJUSTABLE PITCH AXIAL FLOW
Manufacturer	DAE HWA TECH
Diameter(Φ). mm	3400
Number of Blades	6
Blade Material	F.R.P
Hub Material	AL+ALLOY
Fan Speed, R.P.M.	271.3
Air Volume, m ³ /min	4200
Fan Total Efficiency(%)	65

SPEED REDUCER

Number	1
Type	V-BELT(C61" x 11EA)
Model	DCT-DHG-RO-700
Manufacturer	DAE HWA TECH
Reduction Ratio	6.45 : 1
AGMA Mechanical H.P Rating	-
Service Factor at Rated H.P. of Driver	1.2
No. of Reductions	2

DRIVE

Number	1
Kind	SQUIRREL CAGE INDUCTION MOTOR
Type	T.E.F.C
Manufacturer	MAKER STD.
Full Load Speed, R.P.M	1750
Elec. Char - phase / cycles / volt	3/60/220/380/440 "F" CLASS, IP54
Rated H.P	20HP x 4P

ADDITIONAL DATA

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