



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-300

TYPE

F.R.P ROUND(COUNTER FLOW) TYPE

**DESIGN & OPERATING CONDITIONS**\* Circulating Water Flow, M<sup>3</sup>/HR

234

\* 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

1,170,000

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

8

Center Body, Piece

8

Under Body, Piece

8

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

4600 × 4230

Water Basin Dimension, B.C.D(Φ), mm

4280

Access to Top of Tower

LADDER

Shipping Weight, Kg

1854

Operating Weight, Kg

3880

DOC. NO.

REV.: A



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2 / 3

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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	200A
	Height	기초로부터 INLET 중심부까지 195mm
Water Outlet	Number	1
	Size	200A
	Height	기초로부터 OUTLET 중심부까지 195mm
Center pipe	Number	1
	Size	200A
Suction Tank	Number	1
	Size	Φ 400
Sprinkler	Number	1
	Size	200A
Sprinkler Pipe	Number	6
	Size	75A
Drain	Number	1
	Size	50A
Overflow	Number	1
	Size	80A
Auto. Make-up	Number	1
	Size	40A
Manual Make-up	Number	1
	Size	40A

DOC. NO.

REV. : A



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3 / 3

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**MECHANICAL EQUIPMENT****FANS**

Number	1
Type	ADJUSTABLE PITCH AXIAL FLOW
Manufacturer	DAE HWA TECH
Diameter(Φ). mm	2400
Number of Blades	6
Blade Material	F.R.P
Hub Material	AL+ALLOY
Fan Speed, R.P.M.	437.5
Air Volume, m <sup>3</sup> /min	2000
Fan Total Efficiency(%)	65

**SPEED REDUCER**

Number	1
Type	V-BELT( B32" x 7EA )
Model	DCT-DHG-RO-300
Manufacturer	DAE HWA TECH
Reduction Ratio	4. : 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	10HP x 4P

**ADDITIONAL DATA**

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