



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-400
TYPE	F.R.P ROUND(COUNTER FLOW) TYPE

## DESIGN & OPERATING CONDITIONS

* Circulating Water Flow, M <sup>3</sup> /HR	312
* 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	1,560,000
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	12
Center Body, Piece	12
Under Body, Piece	12
Overall Tower Dimension, DIA.(Φ)× H, mm	5537 × 4500
Water Basin Dimension, B.C.D(Φ), mm	5356
Access to Top of Tower	LADDER
Shipping Weight, Kg	3006
Operating Weight, Kg	6350

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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	3000
Number of Blades	6
Blade Material	F.R.P
Hub Material	AL+ALLOY
Fan Speed, R.P.M.	374.7
Air Volume, m <sup>3</sup> /min	2600
Fan Total Efficiency(%)	65

**SPEED REDUCER**

Number	1
Type	V-BELT( B45" x 9EA )
Model	DCT-DHG-RO-400
Manufacturer	DAE HWA TECH
Reduction Ratio	4.67 : 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	15HP x 4P

**ADDITIONAL DATA**

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