

COOLING TOWER SPECIFICATIONS SHEET

FACTORY ASSEMBLED CROSS FLOW

2013-07-12

CUSTOMER:	ITEM NO.:
MAIN CONTRACTOR: DAEIL AQUA CO., LTD.	MANUFACTURER: DAEIL AQUA CO., LTD.

DESIGN & OPERATING CONDITIONS

Model No. DI-LXP-450RT 1CELL	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 1755000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 351 (5850lpm)	Drift Loss (%) 0.01
Inlet / Outlet Water Temp. (°C) .. 37 / 32	Number of Cell..... 1
Dry / Wet Bulb Temp. (°C) 29.93 / 27	Total Fan Horse Power (hp) 19.84

DIMENSION DETAILS

Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 1
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 250
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 1
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 100
Nominal Cell Dimensions (mm)..... 3000x5800	Number of Make-up (Auto/Man.)(ea)·· 1 / 1
Overall Tower Dimensions (mm)···· 2800x5800	Make-Up Size (Auto/Man.)(A)..... 50
Access to Top of Tower LADDER	Number of Drain (ea) 1
Number of Hot Water Inlet (ea)..... 2	Drain Size (A) 80
Inlet Pipe Diameter (A)..... 200	Net Weight (kg) 2370
	Operating Weight (kg) 8625

MATERIALS OF CONSTRUCTIONS

Casing FRP	Cold Water Basin..... FRP
Fill PVC	Water Distribution Box..... FRP
Fill Support..... SS400+HDG	FrameWorks..... SS400+HDG
Hot Water Basin FRP	Bolts, Nuts and Washers STS 304
Nozzle..... PP	Anchor Bolts SS400
	Anchor Bolts Furnished by <input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

MECHANICAL EQUIPMENT

FAN

Number of Fan (set) 1	Tip Speed (m/s) 50.525
Type Axial Flow	Fan BHP 19.84
Manufacturer DAEIL AQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2754
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 77.8

SPEED REDUCER

Number of Speed Reducer (set)···· 1	Reduction Ratio 1 / 4.4
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 25
Model of Fan Drive Shaft Pulley 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX1060	

MOTOR

Number of motor (set) 1	Rated H.P (hp) 25
Type TEFC	Electric Char. : Phase (Φ)·· 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1770	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS	
Model No. DI-LXP-400RT 2CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 3510000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 702 (11700lpm)	Drift Loss (%) 0.01
Inlet / Outlet Water Temp. (°C) .. 37 / 32	Number of Cell..... 2
Dry / Wet Bulb Temp. (°C) 29.93 / 27	Total Fan Horse Power (hp) 39.68

DIMENSION DETAILS	
Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 2
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 250
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 2
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 100
Nominal Cell Dimensions (mm)..... 3000x5800	Number of Make-up (Auto/Man.)(ea) ... 2 / 2
Overall Tower Dimensions (mm)..... 6000x5800	Make-Up Size (Auto/Man.)(A)..... 50
Access to Top of Tower LADDER	Number of Drain (ea) 2
Number of Hot Water Inlet (ea)..... 4	Drain Size (A) 80
Inlet Pipe Diameter (A)..... 200	Net Weight (kg) 4740
	Operating Weight (kg) 17250

MATERIALS OF CONSTRUCTIONS	
Casing FRP	Cold Water Basin..... FRP
Fill PVC	Water Distribution Box..... FRP
Fill Support... SS400+HDG	FrameWorks..... SS400+HDG
Hot Water Basin FRP	Bolts, Nuts and Washers STS 304
Nozzle..... PP	Anchor Bolts SS400
	Anchor Bolts Furnished by <input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

MECHANICAL EQUIPMENT	
FAN	
Number of Fan (set) 2	Tip Speed (m/s) 50.525
Type Axial Flow	Fan BHP 19.84
Manufacturer DAEIL AQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2754
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 77.8
SPEED REDUCER	
Number of Speed Reducer (set)..... 2	Reduction Ratio 1 / 4.4
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 25
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX1060	
MOTOR	
Number of motor (set) 2	Rated H.P (hp) 25
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1770	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS	
Model No. DI-LXP-450RT 3CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 5265000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 1053 (17550lpm)	Drift Loss (%) 0.01
Inlet / Outlet Water Temp. (°C) .. 37 / 32	Number of Cell..... 3
Dry / Wet Bulb Temp. (°C) 29.93 / 27	Total Fan Horse Power (hp) 59.52

DIMENSION DETAILS	
Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 3
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 250
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 3
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 100
Nominal Cell Dimensions (mm)..... 3000x5800	Number of Make-up (Auto/Man.)(ea) ... 3 / 3
Overall Tower Dimensions (mm)..... 9000x5800	Make-Up Size (Auto/Man.)(A)..... 50
Access to Top of Tower LADDER	Number of Drain (ea) 3
Number of Hot Water Inlet (ea)..... 6	Drain Size (A) 80
Inlet Pipe Diameter (A)..... 200	Net Weight (kg) 7110
	Operating Weight (kg) 25875

MATERIALS OF CONSTRUCTIONS	
Casing FRP	Cold Water Basin..... FRP
Fill PVC	Water Distribution Box..... FRP
Fill Support... .. SS400+HDG	FrameWorks..... SS400+HDG
Hot Water Basin FRP	Bolts, Nuts and Washers STS 304
Nozzle..... PP	Anchor Bolts SS400
	Anchor Bolts Furnished by <input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

MECHANICAL EQUIPMENT	
FAN	
Number of Fan (set) 3	Tip Speed (m/s) 50.525
Type Axial Flow	Fan BHP 19.84
Manufacturer DAEIL AQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2754
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 77.8
SPEED REDUCER	
Number of Speed Reducer (set) ... 3	Reduction Ratio 1 / 4.4
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 25
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX1060	
MOTOR	
Number of motor (set) 3	Rated H.P (hp) 25
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1770	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS	
Model No. DI-LXP-450RT 4CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 7020000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 1404 (23400lpm)	Drift Loss (%) 0.01
Inlet / Outlet Water Temp. (°C) .. 37 / 32	Number of Cell..... 4
Dry / Wet Bulb Temp. (°C) 29.93 / 27	Total Fan Horse Power (hp) 79.36

DIMENSION DETAILS	
Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 4
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 250
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 4
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 100
Nominal Cell Dimensions (mm)..... 3000x5800	Number of Make-up (Auto/Man.)(ea) ... 4 / 4
Overall Tower Dimensions (mm)..... 12000x5800	Make-Up Size (Auto/Man.)(A)..... 50
Access to Top of Tower LADDER	Number of Drain (ea) 4
Number of Hot Water Inlet (ea)..... 8	Drain Size (A) 80
Inlet Pipe Diameter (A)..... 200	Net Weight (kg) 9480
	Operating Weight (kg) 34500

MATERIALS OF CONSTRUCTIONS	
Casing FRP	Cold Water Basin..... FRP
Fill PVC	Water Distribution Box..... FRP
Fill Support... SS400+HDG	FrameWorks..... SS400+HDG
Hot Water Basin FRP	Bolts, Nuts and Washers STS 304
Nozzle..... PP	Anchor Bolts SS400
	Anchor Bolts Furnished by <input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

MECHANICAL EQUIPMENT	
FAN	
Number of Fan (set) 4	Tip Speed (m/s) 50.525
Type Axial Flow	Fan BHP 19.84
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2754
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 77.8
SPEED REDUCER	
Number of Speed Reducer (set).... 4	Reduction Ratio 1 / 4.4
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 25
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX1060	
MOTOR	
Number of motor (set) 4	Rated H.P (hp) 25
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1770	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS

Model No. DI-LXP-450RT 5 CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 8775000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 1755 (29250lpm)	Drift Loss (%) 0.01
Inlet / Outlet Water Temp. (°C) .. 37 / 32	Number of Cell..... 5
Dry / Wet Bulb Temp. (°C) 29.93 / 27	Total Fan Horse Power (hp) 99.2

DIMENSION DETAILS

Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 5
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 250
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 5
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 100
Nominal Cell Dimensions (mm)..... 3000x5800	Number of Make-up (Auto/Man.)(ea).... 5 / 5
Overall Tower Dimensions (mm).... 15000x5800	Make-Up Size (Auto/Man.)(A)..... 50
Access to Top of Tower LADDER	Number of Drain (ea) 5
Number of Hot Water Inlet (ea)..... 10	Drain Size (A) 80
Inlet Pipe Diameter (A)..... 200	Net Weight (kg) 11850
	Operating Weight (kg) 43125

MATERIALS OF CONSTRUCTIONS

Casing FRP	Cold Water Basin..... FRP
Fill PVC	Water Distribution Box..... FRP
Fill Support... SS400+HDG	FrameWorks..... SS400+HDG
Hot Water Basin FRP	Bolts, Nuts and Washers STS 304
Nozzle..... PP	Anchor Bolts SS400
	Anchor Bolts Furnished by <input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

MECHANICAL EQUIPMENT

FAN

Number of Fan (set) 5	Tip Speed (m/s) 50.525
Type Axial Flow	Fan BHP 19.84
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2754
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 77.8

SPEED REDUCER

Number of Speed Reducer (set).... 5	Reduction Ratio 1 / 4.4
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 25
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX1060	

MOTOR

Number of motor (set) 5	Rated H.P (hp) 25
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1770	: Voltage 220/380 VAC

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