

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-350RT 1CELL	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 1365000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 273 (4550lpm)	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) 11.82

DIMENSION DETAILS	
Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 1
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 1
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2790x5325	Number of Make-up (Auto/Man.)(ea).... 1 / 1
Overall Tower Dimensions (mm)..... 2790x5325	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)..... 150	Net Weight (kg) 2060
	Operating Weight (kg) 7230

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 11.82
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2172
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 71.7
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) 15
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX900	
MOTOR	
Number of motor (set) 1	Rated H.P (hp) 15
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-350RT 2CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 2730000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 546 (9100lpm)	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) 23.64

DIMENSION DETAILS

Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 2
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 2
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2790x5325	Number of Make-up (Auto/Man.)(ea).... 2 / 2
Overall Tower Dimensions (mm)..... 5580x5325	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)..... 150	Net Weight (kg) 4120
	Operating Weight (kg) 14460

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 11.82
Manufacturer DAEIL AQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2172
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 71.7

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) 15
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX900	

MOTOR

Number of motor (set) 2	Rated H.P (hp) 15
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-350RT 3CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 4095000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 819 (13650lpm)	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) 35.46

DIMENSION DETAILS	
Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 3
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 3
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2790x5325	Number of Make-up (Auto/Man.)(ea) ... 3 / 3
Overall Tower Dimensions (mm)..... 8370x5325	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)..... 150	Net Weight (kg) 6180
	Operating Weight (kg) 21690

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 11.82
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2172
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 71.7
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) 15
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX900	
MOTOR	
Number of motor (set) 3	Rated H.P (hp) 15
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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MAIN CONTRACTOR: DAEIL AQUA CO., LTD.	MANUFACTURER: DAEIL AQUA CO., LTD.

DESIGN & OPERATING CONDITIONS	
Model No.DI-LXP-35RT 4CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr)5460000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 1092 (18200lpm)	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) 47.28

DIMENSION DETAILS	
Fan Diameter (mm)2400	Number of Water Outlet (ea)..... 4
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 4
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2790x5325	Number of Make-up (Auto/Man.)(ea).... 4 / 4
Overall Tower Dimensions (mm)..... 11160x5325	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)..... 150	Net Weight (kg) 8240
	Operating Weight (kg) 28920

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 11.82
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2172
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 71.7
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) 15
Model of Fan Drive Shaft Pulley 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX900	
MOTOR	
Number of motor (set) 4	Rated H.P (hp) 15
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-350RT 5CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 6825000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 1365 (22750lpm)	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) 59.1

DIMENSION DETAILS	
Fan Diameter (mm) 2400	Number of Water Outlet (ea)..... 5
Overall Tower Height (mm) 3660	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 750	Number of OverFlow (ea)..... 5
C/T Bottom to Fan Deck 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2790x5325	Number of Make-up (Auto/Man.)(ea) ... 5 / 5
Overall Tower Dimensions (mm)..... 13950x5325	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)..... 150	Net Weight (kg) 10300
	Operating Weight (kg) 36150

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 11.82
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 2400	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 2172
Fan Speed (rpm) 402.3	Fan Total Efficiency (%) 71.7
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) 15
Model of Fan Drive Shaft Pulley ... 5V2203	
Model of Motor Shaft Pulley 5V503	
Belt Number..... 5VX900	
MOTOR	
Number of motor (set) 5	Rated H.P (hp) 15
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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