

# 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-300RT 1CELL	Relative Humidity (%) ..... 80
Cooling Capacity (kal/hr) ..... 1170000	Evaporation Loss (%) ..... 0.74
Water Flow Rate (m <sup>3</sup> /hr) ..... 234 (3900lpm)	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) ..... 11.84

### DIMENSION DETAILS

Fan Diameter (mm) .....2000	Number of Water Outlet (ea)..... 1
Overall Tower Height (mm) ..... 3610	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 1
C/T Bottom to Fan Deck ..... 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2360x4790	Number of Make-up (Auto/Man.)(ea)·· 1 / 1
Overall Tower Dimensions (mm)..... 2360x4790	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) ..... 1900
	Operating Weight (kg) ..... 5750

### 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) ..... 51.465
Type ..... Axial Flow	Fan BHP ..... 11.84
Manufacturer ..... DAEIL AQUA	Blade Material ..... AL-ALLOY
Diameter (mm) ..... 2000	Hub Material ..... AL-ALLOY
Number of Blades (ea) ..... 6	Air Delivery per Fan (CMM) ..... 1836
Fan Speed (rpm) ..... 491.7	Fan Total Efficiency (%) ..... 71.0

#### SPEED REDUCER

Number of Speed Reducer (set)··· 1	Reduction Ratio ..... 1 / 3.6
Type ..... V-BELT	Number of Reductions ..... 1
Manufacturer ..... DAEIL AQUA	Rated H.P (hp) ..... 15
Model of Fan Drive Shaft Pulley ··· 5V1803	
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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<b>DESIGN &amp; OPERATING CONDITIONS</b>	
Model No. .... DI-LXP-300RT 2CELLS	Relative Humidity (%) ..... 80
Cooling Capacity (kal/hr) ..... 2340000	Evaporation Loss (%) ..... 0.74
Water Flow Rate (m <sup>3</sup> /hr) ..... 468 (7800lpm)	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) ..... 23.68

<b>DIMENSION DETAILS</b>	
Fan Diameter (mm) ..... 2000	Number of Water Outlet (ea)..... 2
Overall Tower Height (mm) ..... 3610	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 2
C/T Bottom to Fan Deck ..... 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2360x4790	Number of Make-up (Auto/Man.)(ea) ... 2 / 2
Overall Tower Dimensions (mm)..... 4720x4790	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) ..... 3800
	Operating Weight (kg) ..... 11500

<b>MATERIALS OF CONSTRUCTIONS</b>	
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

<b>MECHANICAL EQUIPMENT</b>	
<b>FAN</b>	
Number of Fan (set) ..... 2	Tip Speed (m/s) ..... 51.465
Type ..... Axial Flow	Fan BHP ..... 11.84
Manufacturer ..... DAEIL AQUA	Blade Material ..... AL-ALLOY
Diameter (mm) ..... 2000	Hub Material ..... AL-ALLOY
Number of Blades (ea) ..... 6	Air Delivery per Fan (CMM) ..... 1836
Fan Speed (rpm) ..... 491.7	Fan Total Efficiency (%) ..... 71.0
<b>SPEED REDUCER</b>	
Number of Speed Reducer (set) ... 2	Reduction Ratio ..... 1 / 3.6
Type ..... V-BELT	Number of Reductions ..... 1
Manufacturer ..... DAEIL AQUA	Rated H.P (hp) ..... 15
Model of Fan Drive Shaft Pulley ... 5V1803	
Model of Motor Shaft Pulley ..... 5V503	
Belt Number..... 5VX900	
<b>MOTOR</b>	
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-900	Relative Humidity (%) ..... 80
Cooling Capacity (kal/hr) ..... 3510000	Evaporation Loss (%) ..... 0.74
Water Flow Rate (m <sup>3</sup> /hr) ..... 702 (11700lpm)	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) ..... 35.52

### DIMENSION DETAILS

Fan Diameter (mm) ..... 2000	Number of Water Outlet (ea)..... 3
Overall Tower Height (mm) ..... 3610	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 3
C/T Bottom to Fan Deck ..... 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2360x4790	Number of Make-up (Auto/Man.)(ea)·· 3 / 3
Overall Tower Dimensions (mm)..... 7080x4790	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) ..... 5700
	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) ..... 3	Tip Speed (m/s) ..... 51.465
Type ..... Axial Flow	Fan BHP ..... 11.84
Manufacturer ..... DAEILAQUA	Blade Material ..... AL-ALLOY
Diameter (mm) ..... 2000	Hub Material ..... AL-ALLOY
Number of Blades (ea) ..... 6	Air Delivery per Fan (CMM) ..... 1836
Fan Speed (rpm) ..... 491.7	Fan Total Efficiency (%) ..... 71.0

#### SPEED REDUCER

Number of Speed Reducer (set)..... 3	Reduction Ratio ..... 1 / 3.6
Type ..... V-BELT	Number of Reductions ..... 1
Manufacturer ..... DAEIL AQUA	Rated H.P (hp) ..... 15
Model of Fan Drive Shaft Pulley ... 5V1803	
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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<b>DESIGN &amp; OPERATING CONDITIONS</b>	
Model No. ....DI-LXP-300RT 4CELLS	Relative Humidity (%) ..... 80
Cooling Capacity (kal/hr) .....4680000	Evaporation Loss (%) ..... 0.74
Water Flow Rate (m <sup>3</sup> /hr) .....936 (15600lpm)	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) ..... 47.36

<b>DIMENSION DETAILS</b>	
Fan Diameter (mm) .....2000	Number of Water Outlet (ea)..... 4
Overall Tower Height (mm) ..... 3610	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 4
C/T Bottom to Fan Deck ..... 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2360x4790	Number of Make-up (Auto/Man.)(ea) ... 4 / 4
Overall Tower Dimensions (mm)..... 9440x4790	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) ..... 7600
	Operating Weight (kg) ..... 23000

<b>MATERIALS OF CONSTRUCTIONS</b>	
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

<b>MECHANICAL EQUIPMENT</b>	
<b>FAN</b>	
Number of Fan (set) ..... 4	Tip Speed (m/s) ..... 51.465
Type ..... Axial Flow	Fan BHP ..... 11.84
Manufacturer ..... DAEILAQUA	Blade Material ..... AL-ALLOY
Diameter (mm) ..... 2000	Hub Material ..... AL-ALLOY
Number of Blades (ea) ..... 6	Air Delivery per Fan (CMM) ..... 1836
Fan Speed (rpm) ..... 491.7	Fan Total Efficiency (%) ..... 71.0
<b>SPEED REDUCER</b>	
Number of Speed Reducer (set) ... 4	Reduction Ratio ..... 1 / 3.6
Type ..... V-BELT	Number of Reductions ..... 1
Manufacturer ..... DAEIL AQUA	Rated H.P (hp) ..... 15
Model of Fan Drive Shaft Pulley ... 5V1803	
Model of Motor Shaft Pulley ..... 5V503	
Belt Number..... 5VX900	
<b>MOTOR</b>	
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-300RT 5CELLS	Relative Humidity (%) ..... 80
Cooling Capacity (kal/hr) ..... 5850000	Evaporation Loss (%) ..... 0.74
Water Flow Rate (m <sup>3</sup> /hr) ..... 1170 (19500lpm)	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) ..... 59.2

### DIMENSION DETAILS

Fan Diameter (mm) ..... 2000	Number of Water Outlet (ea)..... 5
Overall Tower Height (mm) ..... 3610	Outlet Pipe Diameter (A)..... 200
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 5
C/T Bottom to Fan Deck ..... 2910	OverFlow Nozzle Size (A)..... 80
Nominal Cell Dimensions (mm)..... 2360x4790	Number of Make-up (Auto/Man.)(ea) ... 5 / 5
Overall Tower Dimensions (mm)..... 11800x4790	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) ..... 9500
	Operating Weight (kg) ..... 28750

### 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) ..... 51.465
Type ..... Axial Flow	Fan BHP ..... 11.84
Manufacturer ..... DAEILAQUA	Blade Material ..... AL-ALLOY
Diameter (mm) ..... 2000	Hub Material ..... AL-ALLOY
Number of Blades (ea) ..... 6	Air Delivery per Fan (CMM) ..... 1836
Fan Speed (rpm) ..... 491.7	Fan Total Efficiency (%) ..... 71.0

#### SPEED REDUCER

Number of Speed Reducer (set)..... 5	Reduction Ratio ..... 1 / 3.6
Type ..... V-BELT	Number of Reductions ..... 1
Manufacturer ..... DAEIL AQUA	Rated H.P (hp) ..... 15
Model of Fan Drive Shaft Pulley ... 5V1803	
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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