

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-200RT 1 CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 780000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 156 (2600lpm)	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) 7.94

DIMENSION DETAILS	
Fan Diameter (mm) 1700	Number of Water Outlet (ea)..... 1
Overall Tower Height (mm) 3310	Outlet Pipe Diameter (A)..... 150
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 1
C/T Bottom to Fan Deck 2610	OverFlow Nozzle Size (A)..... 65
Nominal Cell Dimensions (mm)..... 2090x4340	Number of Make-up (Auto/Man.)(ea) ... 1 / 1
Overall Tower Dimensions (mm)..... 2090x4340	Make-Up Size (Auto/Man.)(A)..... 32
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)..... 125	Net Weight (kg) 1450
	Operating Weight (kg) 4180

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) 49.07
Type Axial Flow	Fan BHP 7.94
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 1700	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 1368
Fan Speed (rpm) 551.6	Fan Total Efficiency (%) 71.0
SPEED REDUCER	
Number of Speed Reducer (set)..... 1	Reduction Ratio 1 / 3.2
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 10
Model of Fan Drive Shaft Pulley ... 5V1602	
Model of Motor Shaft Pulley 5V502	
Belt Number..... 5VX800	
MOTOR	
Number of motor (set) 1	Rated H.P (hp) 10
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1765	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS

Model No. DI-LXP-200RT 2 CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 1560000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 312 (5200lpm)	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) 15.88

DIMENSION DETAILS

Fan Diameter (mm) 1700	Number of Water Outlet (ea)..... 2
Overall Tower Height (mm) 3310	Outlet Pipe Diameter (A)..... 150
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 2
C/T Bottom to Fan Deck 2610	OverFlow Nozzle Size (A)..... 65
Nominal Cell Dimensions (mm)..... 2090x4340	Number of Make-up (Auto/Man.)(ea)·· 2 / 2
Overall Tower Dimensions (mm)··· 4180x4340	Make-Up Size (Auto/Man.)(A)..... 32
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)..... 125	Net Weight (kg) 2900
	Operating Weight (kg) 8360

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) 49.07
Type Axial Flow	Fan BHP 7.94
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 1700	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 1368
Fan Speed (rpm) 551.6	Fan Total Efficiency (%) 71.0

SPEED REDUCER

Number of Speed Reducer (set)··· 2	Reduction Ratio 1 / 3.2
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 10
Model of Fan Drive Shaft Pulley ··· 5V1602	
Model of Motor Shaft Pulley 5V502	
Belt Number..... 5VX800	

MOTOR

Number of motor (set) 2	Rated H.P (hp) 10
Type TEFC	Electric Char. : Phase (Φ)·· 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1765	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS

Model No. DI-LXP-200RT 3 CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 2340000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 468 (7800lpm)	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) 23.82

DIMENSION DETAILS

Fan Diameter (mm) 1700	Number of Water Outlet (ea)..... 3
Overall Tower Height (mm) 3310	Outlet Pipe Diameter (A)..... 150
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 3
C/T Bottom to Fan Deck 2610	OverFlow Nozzle Size (A)..... 65
Nominal Cell Dimensions (mm)..... 2090x4340	Number of Make-up (Auto/Man.)(ea)·· 3 / 3
Overall Tower Dimensions (mm)..... 6270x4340	Make-Up Size (Auto/Man.)(A)..... 32
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)..... 125	Net Weight (kg) 4350
	Operating Weight (kg) 12540

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) 49.07
Type Axial Flow	Fan BHP 7.94
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 1700	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 1368
Fan Speed (rpm) 551.6	Fan Total Efficiency (%) 71.0

SPEED REDUCER

Number of Speed Reducer (set)..... 3	Reduction Ratio 1 / 3.2
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 10
Model of Fan Drive Shaft Pulley ... 5V1602	
Model of Motor Shaft Pulley 5V502	
Belt Number..... 5VX800	

MOTOR

Number of motor (set) 3	Rated H.P (hp) 10
Type TEFC	Electric Char. : Phase (Φ)·· 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1765	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS	
Model No. DI-LXP-200RT 4 CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 3120000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 624 (10400lpm)	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) 31.76
DIMENSION DETAILS	
Fan Diameter (mm) 1700	Number of Water Outlet (ea)..... 4
Overall Tower Height (mm) 3310	Outlet Pipe Diameter (A)..... 150
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 4
C/T Bottom to Fan Deck 2610	OverFlow Nozzle Size (A)..... 65
Nominal Cell Dimensions (mm)..... 2090x4340	Number of Make-up (Auto/Man.)(ea).... 4 / 4
Overall Tower Dimensions (mm).... 8360x4340	Make-Up Size (Auto/Man.)(A)..... 32
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)..... 125	Net Weight (kg) 5800
	Operating Weight (kg) 16720
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) 49.07
Type Axial Flow	Fan BHP 7.94
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 1700	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 1368
Fan Speed (rpm) 551.6	Fan Total Efficiency (%) 71.0
SPEED REDUCER	
Number of Speed Reducer (set).... 4	Reduction Ratio 1 / 3.2
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 10
Model of Fan Drive Shaft Pulley ... 5V1602	
Model of Motor Shaft Pulley 5V502	
Belt Number..... 5VX800	
MOTOR	
Number of motor (set) 4	Rated H.P (hp) 10
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1765	: Voltage 220/380 VAC

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DESIGN & OPERATING CONDITIONS

Model No. DI-LXP-200RT 5 CELLS	Relative Humidity (%) 80
Cooling Capacity (kal/hr) 3900000	Evaporation Loss (%) 0.74
Water Flow Rate (m ³ /hr) 780 (13000lpm)	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) 39.7

DIMENSION DETAILS

Fan Diameter (mm) 1700	Number of Water Outlet (ea)..... 5
Overall Tower Height (mm) 3310	Outlet Pipe Diameter (A)..... 150
Fan Stack Height (mm)..... 700	Number of OverFlow (ea)..... 5
C/T Bottom to Fan Deck 2610	OverFlow Nozzle Size (A)..... 65
Nominal Cell Dimensions (mm)..... 2090x4340	Number of Make-up (Auto/Man.)(ea) ... 5 / 5
Overall Tower Dimensions (mm)..... 10450x4340	Make-Up Size (Auto/Man.)(A)..... 32
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)..... 125	Net Weight (kg) 7250
	Operating Weight (kg) 20900

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) 49.07
Type Axial Flow	Fan BHP 7.94
Manufacturer DAEILAQUA	Blade Material AL-ALLOY
Diameter (mm) 1700	Hub Material AL-ALLOY
Number of Blades (ea) 6	Air Delivery per Fan (CMM) 1368
Fan Speed (rpm) 551.6	Fan Total Efficiency (%) 71.0

SPEED REDUCER

Number of Speed Reducer (set)..... 5	Reduction Ratio 1 / 3.2
Type V-BELT	Number of Reductions 1
Manufacturer DAEIL AQUA	Rated H.P (hp) 10
Model of Fan Drive Shaft Pulley ... 5V1602	
Model of Motor Shaft Pulley 5V502	
Belt Number..... 5VX800	

MOTOR

Number of motor (set) 5	Rated H.P (hp) 10
Type TEFC	Electric Char. : Phase (Φ) ... 3 : Pole(P) 4
Manufacturer HHI OR EQUAL	: Cycle (Hz) 60
Full Load Speed (rpm) 1765	: Voltage 220/380 VAC

DAEIL AQUA CO., LTD.