

# COOLING TOWER SPECIFICATIONS SHEET

## LCP COUNTER FLOW TYPE

CONTRACTOR	Daeil Aqua Co., Ltd.	ITEM NO.	
MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 400CT	Relative Humidity .....	80%
Cooling Capacity .....	1560000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	312 m³/hr (5,200.0 LPM)	Drift Loss .....	0.002%
In / Out Let Water Temp. ....	37.0 / 32.0 °C	Number of Cell per Body.....	1
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2740 mm	Tower Inlet /Outlet Pipe Size .....	250A
Nominal Cell Width .....	3840 mm	Make-Up Size .....	50A
Overall Tower Length .....	2840 mm	Overflow .....	100A
Overall Tower Width .....	3980 mm	Drain .....	80A
Fan Deck Height .....	3880 mm		
Overall Tower Height .....	4630 mm		

### MATERIAL OF CONSTRUCTIONS

Frameworks .....	SS400 + HDG
Cold Water Basin .....	FRP
Casing .....	FRP
Fan Deck .....	FRP
Fan Cylinder .....	FRP
Fill Support .....	SS400 + HDG
Cold Water Basin Supports .....	SS400 + HDG
Mech. Equipment Base .....	SS400 + HDG
Fan Deck Access Ladder .....	SS400 + HDG

### MATERIAL OF COMPONENTS

Anti-Vortex Box .....	FRP
Fill .....	PVC
Water Spray Nozzle .....	ABS
Water Distribution Piping .....	PVC
Drift Eliminator .....	PVC
Fan Drive Shaft Pulley .....	FC200
Motor Shaft Pulley .....	FC200
Bolts/Nuts/Washers .....	STS 304
Anchor Bolt .....	SS400
Anchor Bolt to be Furnished by	<input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

### MECHANICAL EQUIPMENT

#### AXIAL FLOW FAN

Number of Fan per Cell .....	1 set	Fan BHP .....	12.2 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	74.9%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	2290 CMM
Fan Diameter .....	2400 mm	Fan Blade Material .....	AL- Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL- Alloy
Fan Speed .....	380.0 RPM		
Tip Speed .....	47.75 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	4.400 : 1
Model of Fan Drive Shaft Pulley ..	5V2203		
Model of Motor Shaft Pulley .....	5V503		
Belt Number .....	5VX1060		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	15 kW	Number of Pole .....	4
Full Load Speed .....	1760 RPM		

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CONTRACTOR	Daeil Aqua Co., Ltd.	ITEM NO.	
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### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 400CT x 2 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	3120000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate.....	624 m <sup>3</sup> /hr (10,400.0 LPM)	Drift Loss .....	0.002%
In / Out Let Water Temp. ....	37.0 / 32.0 °C	Number of Cell per Body.....	2
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2740 mm	Tower Inlet /Outlet Pipe Size .....	250A
Nominal Cell Width .....	3840 mm	Make-Up Size .....	50A
Overall Tower Length .....	5680 mm	Overflow .....	100A
Overall Tower Width .....	3980 mm	Drain .....	80A
Fan Deck Height .....	4185 mm		
Overall Tower Height .....	4935 mm		

### MATERIAL OF CONSTRUCTIONS

Frameworks .....	SS400 + HDG
Cold Water Basin .....	FRP
Casing .....	FRP
Fan Deck .....	FRP
Fan Cylinder .....	FRP
Fill Support .....	SS400 + HDG
Cold Water Basin Supports .....	SS400 + HDG
Mech. Equipment Base .....	SS400 + HDG
Fan Deck Access Ladder .....	SS400 + HDG

### MATERIAL OF COMPONENTS

Anti-Vortex Box .....	FRP
Fill .....	PVC
Water Spray Nozzle .....	ABS
Water Distribution Piping .....	PVC
Drift Eliminator .....	PVC
Fan Drive Shaft Pulley .....	FC200
Motor Shaft Pulley .....	FC200
Bolts/Nuts/Washers .....	STS 304
Anchor Bolt .....	SS400
Anchor Bolt to be Furnished by	<input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

### MECHANICAL EQUIPMENT

#### AXIAL FLOW FAN

Number of Fan per Cell .....	1 set	Fan BHP .....	12.2 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	74.9%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	2290 CMM
Fan Diameter .....	2400 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	380.0 RPM		
Tip Speed .....	47.75 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	4.400 : 1
Model of Fan Drive Shaft Pulley ..	5V2203		
Model of Motor Shaft Pulley .....	5V503		
Belt Number .....	5VX1060		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	15 kW	Number of Pole .....	4
Full Load Speed .....	1760 RPM		

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CONTRACTOR	Daeil Aqua Co., Ltd.	ITEM NO.	
MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 400CT x 3 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	4680000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	936 m <sup>3</sup> /hr (15,600.0 LPM)	Drift Loss .....	0.002%
In / Out Let Water Temp. ....	37.0 / 32.0 °C	Number of Cell per Body.....	3
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2740 mm	Tower Inlet /Outlet Pipe Size .....	250A
Nominal Cell Width .....	3840 mm	Make-Up Size .....	50A
Overall Tower Length .....	8520 mm	Overflow .....	100A
Overall Tower Width .....	3980 mm	Drain .....	80A
Fan Deck Height .....	4390 mm		
Overall Tower Height .....	5140 mm		

### MATERIAL OF CONSTRUCTIONS

Frameworks .....	SS400 + HDG
Cold Water Basin .....	FRP
Casing .....	FRP
Fan Deck .....	FRP
Fan Cylinder .....	FRP
Fill Support .....	SS400 + HDG
Cold Water Basin Supports .....	SS400 + HDG
Mech. Equipment Base .....	SS400 + HDG
Fan Deck Access Ladder .....	SS400 + HDG

### MATERIAL OF COMPONENTS

Anti-Vortex Box .....	FRP
Fill .....	PVC
Water Spray Nozzle .....	ABS
Water Distribution Piping .....	PVC
Drift Eliminator .....	PVC
Fan Drive Shaft Pulley .....	FC200
Motor Shaft Pulley .....	FC200
Bolts/Nuts/Washers .....	STS 304
Anchor Bolt .....	SS400
Anchor Bolt to be Furnished by	<input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

### MECHANICAL EQUIPMENT

#### AXIAL FLOW FAN

Number of Fan per Cell .....	1 set	Fan BHP .....	12.2 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	74.9%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	2290 CMM
Fan Diameter .....	2400 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	380.0 RPM		
Tip Speed .....	47.75 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	4.400 : 1
Model of Fan Drive Shaft Pulley ..	5V2203		
Model of Motor Shaft Pulley .....	5V503		
Belt Number .....	5VX1060		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	15 kW	Number of Pole .....	4
Full Load Speed .....	1760 RPM		

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## LCP COUNTER FLOW TYPE

CONTRACTOR	Daeil Aqua Co., Ltd.	ITEM NO.	
MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 400CT x 4 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	6240000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	1248 m³/hr (20,800.0 LPM)	Drift Loss .....	0.002%
In / Out Let Water Temp. ....	37.0 / 32.0 °C	Number of Cell per Body.....	4
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2740 mm	Tower Inlet /Outlet Pipe Size .....	250A
Nominal Cell Width .....	3840 mm	Make-Up Size .....	50A
Overall Tower Length .....	11360 mm	Overflow .....	100A
Overall Tower Width .....	3980 mm	Drain .....	80A
Fan Deck Height .....	4640 mm		
Overall Tower Height .....	5390 mm		

### MATERIAL OF CONSTRUCTIONS

Frameworks .....	SS400 + HDG
Cold Water Basin .....	FRP
Casing .....	FRP
Fan Deck .....	FRP
Fan Cylinder .....	FRP
Fill Support .....	SS400 + HDG
Cold Water Basin Supports .....	SS400 + HDG
Mech. Equipment Base .....	SS400 + HDG
Fan Deck Access Ladder .....	SS400 + HDG

### MATERIAL OF COMPONENTS

Anti-Vortex Box .....	FRP
Fill .....	PVC
Water Spray Nozzle .....	ABS
Water Distribution Piping .....	PVC
Drift Eliminator .....	PVC
Fan Drive Shaft Pulley .....	FC200
Motor Shaft Pulley .....	FC200
Bolts/Nuts/Washers .....	STS 304
Anchor Bolt .....	SS400
Anchor Bolt to be Furnished by	<input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

### MECHANICAL EQUIPMENT

#### AXIAL FLOW FAN

Number of Fan per Cell .....	1 set	Fan BHP .....	12.2 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	74.9%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	2290 CMM
Fan Diameter .....	2400 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	380.0 RPM		
Tip Speed .....	47.75 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	4.400 : 1
Model of Fan Drive Shaft Pulley ..	5V2203		
Model of Motor Shaft Pulley .....	5V503		
Belt Number .....	5VX1060		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	15 kW	Number of Pole .....	4
Full Load Speed .....	1760 RPM		

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MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 400CT x 5 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	7800000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	1560 m³/hr (26,000.0 LPM)	Drift Loss .....	0.002%
In / Out Let Water Temp. ....	37.0 / 32.0 °C	Number of Cell per Body.....	5
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2740 mm	Tower Inlet /Outlet Pipe Size .....	250A
Nominal Cell Width .....	3840 mm	Make-Up Size .....	50A
Overall Tower Length .....	14200 mm	Overflow .....	100A
Overall Tower Width .....	3980 mm	Drain .....	80A
Fan Deck Height .....	4640 mm		
Overall Tower Height .....	5390 mm		

### MATERIAL OF CONSTRUCTIONS

Frameworks .....	SS400 + HDG
Cold Water Basin .....	FRP
Casing .....	FRP
Fan Deck .....	FRP
Fan Cylinder .....	FRP
Fill Support .....	SS400 + HDG
Cold Water Basin Supports .....	SS400 + HDG
Mech. Equipment Base .....	SS400 + HDG
Fan Deck Access Ladder .....	SS400 + HDG

### MATERIAL OF COMPONENTS

Anti-Vortex Box .....	FRP
Fill .....	PVC
Water Spray Nozzle .....	ABS
Water Distribution Piping .....	PVC
Drift Eliminator .....	PVC
Fan Drive Shaft Pulley .....	FC200
Motor Shaft Pulley .....	FC200
Bolts/Nuts/Washers .....	STS 304
Anchor Bolt .....	SS400
Anchor Bolt to be Furnished by	<input checked="" type="checkbox"/> Maker <input type="checkbox"/> Owner

### MECHANICAL EQUIPMENT

#### AXIAL FLOW FAN

Number of Fan per Cell .....	1 set	Fan BHP .....	12.2 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	74.9%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	2290 CMM
Fan Diameter .....	2400 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	380.0 RPM		
Tip Speed .....	47.75 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	4.400 : 1
Model of Fan Drive Shaft Pulley ..	5V2203		
Model of Motor Shaft Pulley .....	5V503		
Belt Number .....	5VX1060		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	15 kW	Number of Pole .....	4
Full Load Speed .....	1760 RPM		