

# 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 - 200CT	Relative Humidity .....	80%
Cooling Capacity .....	780000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate.....	156 m³/hr (2,600.0 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 .....	2280 mm	Tower Inlet /Outlet Pipe Size .....	150A
Nominal Cell Width .....	2280 mm	Make-Up Size .....	40A
Overall Tower Length .....	2380 mm	Overflow .....	65A
Overall Tower Width .....	2420 mm	Drain .....	80A
Fan Deck Height .....	3315 mm		
Overall Tower Height .....	4015 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 .....	6.58 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	69.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	1135 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	516.6 RPM		
Tip Speed .....	45.98 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.200 : 1
Model of Fan Drive Shaft Pulley ..	5V1602		
Model of Motor Shaft Pulley .....	5V502		
Belt Number .....	5VX800		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	7.5 kW	Number of Pole .....	4
Full Load Speed .....	1750 RPM		

# 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 - 200CT x 2 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	1560000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate.....	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.....	2
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2280 mm	Tower Inlet /Outlet Pipe Size .....	150A
Nominal Cell Width .....	2280 mm	Make-Up Size .....	40A
Overall Tower Length .....	4760 mm	Overflow .....	65A
Overall Tower Width .....	2420 mm	Drain .....	80A
Fan Deck Height .....	3505 mm		
Overall Tower Height .....	4205 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 .....	6.58 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	69.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	1135 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	516.6 RPM		
Tip Speed .....	45.98 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.200 : 1
Model of Fan Drive Shaft Pulley ..	5V1602		
Model of Motor Shaft Pulley .....	5V502		
Belt Number .....	5VX800		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	7.5 kW	Number of Pole .....	4
Full Load Speed .....	1750 RPM		

# 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 - 200CT x 3 CELLS	Relative Humidity ..... 80%
Cooling Capacity ..... 2340000 kal/hr	Evaporation Loss ..... 0.72%
Water Flow Rate..... 468 m³/hr (7,800.0 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 ..... 2280 mm	Tower Inlet /Outlet Pipe Size ..... 150A
Nominal Cell Width ..... 2280 mm	Make-Up Size ..... 40A
Overall Tower Length ..... 7140 mm	Overflow ..... 65A
Overall Tower Width ..... 2420 mm	Drain ..... 80A
Fan Deck Height ..... 3595 mm	
Overall Tower Height ..... 4295 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 ..... 6.58 kW
Type of Model ..... Axial Flow	Fan Total Efficiency ..... 69.4%
Manufacturer ..... Daeil Aqua Co., Ltd.	Air Volume per Fan ..... 1135 CMM
Fan Diameter ..... 1700 mm	Fan Blade Material ..... AL-Alloy
Number of Fan Blades ..... 6 ea	Fan Hub Material ..... AL-Alloy
Fan Speed ..... 516.6 RPM	
Tip Speed ..... 45.98 m/sec	

#### SPEED REDUCER

Type ..... V-Belt	Number of Reductions ..... 1
Manufacturer ..... Daeil Aqua Co., Ltd.	Reduction Ratio ..... 3.200 : 1
Model of Fan Drive Shaft Pulley .. 5V1602	
Model of Motor Shaft Pulley ..... 5V502	
Belt Number ..... 5VX800	

#### ELECTRIC MOTOR

Type ..... Vertical, TEFC	AC Voltage ..... 220/380/440V
Manufacturer ..... Hyundai or Eq.	Phase ..... 3
Rated Power ..... 7.5 kW	Number of Pole ..... 4
Full Load Speed ..... 1750 RPM	

# 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 - 200CT x 4 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.....	4
Dry / Wet Bulb Temp. ....	29.9 / 27.0 °C	Number of Body.....	1

### PHYSICAL DATA

Nominal Cell Length .....	2280 mm	Tower Inlet /Outlet Pipe Size .....	150A
Nominal Cell Width .....	2280 mm	Make-Up Size .....	40A
Overall Tower Length .....	9520 mm	Overflow .....	65A
Overall Tower Width .....	2420 mm	Drain .....	80A
Fan Deck Height .....	3715 mm		
Overall Tower Height .....	4415 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 .....	6.58 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	69.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	1135 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	516.6 RPM		
Tip Speed .....	45.98 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.200 : 1
Model of Fan Drive Shaft Pulley ..	5V1602		
Model of Motor Shaft Pulley .....	5V502		
Belt Number .....	5VX800		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	7.5 kW	Number of Pole .....	4
Full Load Speed .....	1750 RPM		

# 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 - 200CT x 5 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	3900000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate.....	780 m³/hr (13,000.0 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 .....	2280 mm	Tower Inlet /Outlet Pipe Size .....	150A
Nominal Cell Width .....	2280 mm	Make-Up Size .....	40A
Overall Tower Length .....	9520 mm	Overflow .....	65A
Overall Tower Width .....	2420 mm	Drain .....	80A
Fan Deck Height .....	3715 mm		
Overall Tower Height .....	4415 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 .....	6.58 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	69.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	1135 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	516.6 RPM		
Tip Speed .....	45.98 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.200 : 1
Model of Fan Drive Shaft Pulley ..	5V1602		
Model of Motor Shaft Pulley .....	5V502		
Belt Number .....	5VX800		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	7.5 kW	Number of Pole .....	4
Full Load Speed .....	1750 RPM		