

# 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 - 150CT	Relative Humidity .....	80%
Cooling Capacity .....	585000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	117 m <sup>3</sup> /hr (1,950.0 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 .....	3015 mm		
Overall Tower Height .....	3715 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 .....	3.199 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	67.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	949.9 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	469.6 RPM		
Tip Speed .....	41.80 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.520 : 1
Model of Fan Drive Shaft Pulley ..	1602B		
Model of Motor Shaft Pulley .....	452B		
Belt Number .....	BP74		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	440
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	3.7 kW	Number of Pole .....	4
Full Load Speed .....	1740 RPM		

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MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 150CT x 2 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	1170000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	234 m³/hr (3,900.0 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 .....	3205 mm		
Overall Tower Height .....	3905 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 .....	3.199 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	67.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	949.9 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	469.6 RPM		
Tip Speed .....	41.80 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.520 : 1
Model of Fan Drive Shaft Pulley ..	1602B		
Model of Motor Shaft Pulley .....	452B		
Belt Number .....	BP74		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	3.7 kW	Number of Pole .....	4
Full Load Speed .....	1740 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 - 150CT x 3 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	1755000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	351 m <sup>3</sup> /hr (5,850.0 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 .....	3295 mm		
Overall Tower Height .....	3995 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 .....	3.199 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	67.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	949.9 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	469.6 RPM		
Tip Speed .....	41.80 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.520 : 1
Model of Fan Drive Shaft Pulley ..	1602B		
Model of Motor Shaft Pulley .....	452B		
Belt Number .....	BP74		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	3.7 kW	Number of Pole .....	4
Full Load Speed .....	1740 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 - 150CT x 4 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	2340000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	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.....	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 .....	3415 mm		
Overall Tower Height .....	4115 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 .....	3.199 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	67.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	949.9 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	469.6 RPM		
Tip Speed .....	41.80 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.520 : 1
Model of Fan Drive Shaft Pulley ..	1602B		
Model of Motor Shaft Pulley .....	452B		
Belt Number .....	BP74		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	3.7 kW	Number of Pole .....	4
Full Load Speed .....	1740 RPM		

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MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

### DESIGN & OPERATING CONDITIONS

Model No. ....	LCP - 150CT x 5 CELLS	Relative Humidity .....	80%
Cooling Capacity .....	2925000 kal/hr	Evaporation Loss .....	0.72%
Water Flow Rate per Cell.....	585 m³/hr (9,750.0 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 .....	11900 mm	Overflow .....	65A
Overall Tower Width .....	2420 mm	Drain .....	80A
Fan Deck Height .....	3415 mm		
Overall Tower Height .....	4115 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 .....	3.199 kW
Type of Model .....	Axial Flow	Fan Total Efficiency .....	67.4%
Manufacturer .....	Daeil Aqua Co., Ltd.	Air Volume per Fan .....	949.9 CMM
Fan Diameter .....	1700 mm	Fan Blade Material .....	AL-Alloy
Number of Fan Blades .....	6 ea	Fan Hub Material .....	AL-Alloy
Fan Speed .....	469.6 RPM		
Tip Speed .....	41.80 m/sec		

#### SPEED REDUCER

Type .....	V-Belt	Number of Reductions .....	1
Manufacturer .....	Daeil Aqua Co., Ltd.	Reduction Ratio .....	3.520 : 1
Model of Fan Drive Shaft Pulley ..	1602B		
Model of Motor Shaft Pulley .....	452B		
Belt Number .....	BP74		

#### ELECTRIC MOTOR

Type .....	Vertical, TEFC	AC Voltage .....	220/380/440V
Manufacturer .....	Hyundai or Eq.	Phase .....	3
Rated Power .....	3.7 kW	Number of Pole .....	4
Full Load Speed .....	1740 RPM		