

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 - 180CT	Relative Humidity	80%
Cooling Capacity	702000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	140.4 m ³ /hr (2,340.0 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	4.808 kW
Type of Model	Axial Flow	Fan Total Efficiency	69.2%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1021 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 ..	1603B		
Model of Motor Shaft Pulley	453B		
Belt Number	BP74		

ELECTRIC MOTOR

Type	Vertical, TEFC	AC Voltage	440
Manufacturer	Hyundai or Eq.	Phase	3
Rated Power	5.5 kW	Number of Pole	4
Full Load Speed	1740 RPM		

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DESIGN & OPERATING CONDITIONS

Model No.	LCP - 180CT x 2 CELLS	Relative Humidity	80%
Cooling Capacity	1404000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	280.8 m ³ /hr (4,680.0 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	4.808 kW
Type of Model	Axial Flow	Fan Total Efficiency	69.2%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1021 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 ..	1603B		
Model of Motor Shaft Pulley	453B		
Belt Number	BP74		

ELECTRIC MOTOR

Type	Vertical, TEFC	AC Voltage	220/380/440V
Manufacturer	Hyundai or Eq.	Phase	3
Rated Power	5.5 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 - 180CT x 3 CELLS	Relative Humidity	80%
Cooling Capacity	2106000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	421.2 m ³ /hr (7,020.0 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	4.808 kW
Type of Model	Axial Flow	Fan Total Efficiency	69.2%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1021 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 ..	1603B		
Model of Motor Shaft Pulley	453B		
Belt Number	BP74		

ELECTRIC MOTOR

Type	Vertical, TEFC	AC Voltage	220/380/440V
Manufacturer	Hyundai or Eq.	Phase	3
Rated Power	5.5 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 - 180CT x 4 CELLS	Relative Humidity	80%
Cooling Capacity	2808000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	561.6 m ³ /hr (9,360.0 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	4.808 kW
Type of Model	Axial Flow	Fan Total Efficiency	69.2%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1021 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 ..	1603B		
Model of Motor Shaft Pulley	453B		
Belt Number	BP74		

ELECTRIC MOTOR

Type	Vertical, TEFC	AC Voltage	220/380/440V
Manufacturer	Hyundai or Eq.	Phase	3
Rated Power	5.5 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 - 180CT x 5 CELLS	Relative Humidity	80%
Cooling Capacity	3510000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	702 m³/hr (11,700.0 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	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

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Water Distribution Piping	PVC
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Anchor Bolt	SS400
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AXIAL FLOW FAN

Number of Fan per Cell	1 set	Fan BHP	4.808 kW
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Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1021 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		

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Model of Motor Shaft Pulley	453B		
Belt Number	BP74		

ELECTRIC MOTOR

Type	Vertical, TEFC	AC Voltage	220/380/440V
Manufacturer	Hyundai or Eq.	Phase	3
Rated Power	5.5 kW	Number of Pole	4
Full Load Speed	1740 RPM		