

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 - 350CT	Relative Humidity	80%
Cooling Capacity	1365000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	273 m³/hr (4,550.0 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	200A
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	8.443 kW
Type of Model	Axial Flow	Fan Total Efficiency	71.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	2004 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	11 kW	Number of Pole	4
Full Load Speed	1760 RPM		

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DESIGN & OPERATING CONDITIONS

Model No.	LCP - 350CT x 2 CELLS	Relative Humidity	80%
Cooling Capacity	2730000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	546 m³/hr (9,100.0 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	200A
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	4210 mm		
Overall Tower Height	4960 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	8.443 kW
Type of Model	Axial Flow	Fan Total Efficiency	71.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	2004 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	11 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 - 350CT x 3 CELLS	Relative Humidity	80%
Cooling Capacity	4095000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	819 m³/hr (13,650.0 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	200A
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	8.443 kW
Type of Model	Axial Flow	Fan Total Efficiency	71.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	2004 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	11 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 - 350CT x 4 CELLS	Relative Humidity	80%
Cooling Capacity	5460000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	1092 m³/hr (18,200.0 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	200A
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	8.443 kW
Type of Model	Axial Flow	Fan Total Efficiency	71.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	2004 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	11 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 - 350CT x 5 CELLS	Relative Humidity	80%
Cooling Capacity	6825000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	1365 m³/hr (22,750.0 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	2740 mm	Tower Inlet /Outlet Pipe Size	200A
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
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MECHANICAL EQUIPMENT

AXIAL FLOW FAN

Number of Fan per Cell	1 set	Fan BHP	8.443 kW
Type of Model	Axial Flow	Fan Total Efficiency	71.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	2004 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		

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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	11 kW	Number of Pole	4
Full Load Speed	1760 RPM		