

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 - 250CT	Relative Humidity	80%
Cooling Capacity	975000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	195 m ³ /hr (3,250.0 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	200A
Nominal Cell Width	3420 mm	Make-Up Size	50A
Overall Tower Length	2380 mm	Overflow	80A
Overall Tower Width	3560 mm	Drain	80A
Fan Deck Height	3345 mm		
Overall Tower Height	4045 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	6.239 kW
Type of Model	Axial Flow	Fan Total Efficiency	73.0%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1583 CMM
Fan Diameter	2000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	459.2 RPM		
Tip Speed	48.08 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.600 : 1
Model of Fan Drive Shaft Pulley ..	5V1802		
Model of Motor Shaft Pulley	5V502		
Belt Number	5VX900		

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		

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DESIGN & OPERATING CONDITIONS

Model No.	LCP - 250CT x 2 CELLS	Relative Humidity	80%
Cooling Capacity	1950000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	390 m³/hr (6,500.0 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	200A
Nominal Cell Width	3420 mm	Make-Up Size	50A
Overall Tower Length	4760 mm	Overflow	80A
Overall Tower Width	3560 mm	Drain	80A
Fan Deck Height	3625 mm		
Overall Tower Height	4325 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	6.239 kW
Type of Model	Axial Flow	Fan Total Efficiency	73.0%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1583 CMM
Fan Diameter	2000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	459.2 RPM		
Tip Speed	48.08 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.600 : 1
Model of Fan Drive Shaft Pulley ..	5V1802		
Model of Motor Shaft Pulley	5V502		
Belt Number	5VX900		

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		

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

Model No.	LCP - 250CT x 3 CELLS	Relative Humidity	80%
Cooling Capacity	2925000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	585 m ³ /hr (9,750.0 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	200A
Nominal Cell Width	3420 mm	Make-Up Size	50A
Overall Tower Length	7140 mm	Overflow	80A
Overall Tower Width	3560 mm	Drain	80A
Fan Deck Height	3785 mm		
Overall Tower Height	4485 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	6.239 kW
Type of Model	Axial Flow	Fan Total Efficiency	73.0%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1583 CMM
Fan Diameter	2000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	459.2 RPM		
Tip Speed	48.08 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.600 : 1
Model of Fan Drive Shaft Pulley ..	5V1802		
Model of Motor Shaft Pulley	5V502		
Belt Number	5VX900		

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		

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

DESIGN & OPERATING CONDITIONS

Model No.	LCP - 250CT x 4 CELLS	Relative Humidity	80%
Cooling Capacity	3900000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	780 m ³ /hr (13,000.0 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	200A
Nominal Cell Width	3420 mm	Make-Up Size	50A
Overall Tower Length	9520 mm	Overflow	80A
Overall Tower Width	3560 mm	Drain	80A
Fan Deck Height	3995 mm		
Overall Tower Height	4695 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	6.239 kW
Type of Model	Axial Flow	Fan Total Efficiency	73.0%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	1583 CMM
Fan Diameter	2000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	459.2 RPM		
Tip Speed	48.08 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.600 : 1
Model of Fan Drive Shaft Pulley ..	5V1802		
Model of Motor Shaft Pulley	5V502		
Belt Number	5VX900		

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		

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MANUFACTURER	Daeil Aqua Co., Ltd.	PREPARED BY	

DESIGN & OPERATING CONDITIONS

Model No.	LCP - 250CT x 5 CELLS	Relative Humidity	80%
Cooling Capacity	4875000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	975 m ³ /hr (16,250.0 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	200A
Nominal Cell Width	3420 mm	Make-Up Size	50A
Overall Tower Length	11900 mm	Overflow	80A
Overall Tower Width	3560 mm	Drain	80A
Fan Deck Height	3995 mm		
Overall Tower Height	4695 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
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Water Distribution Piping	PVC
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Motor Shaft Pulley	FC200
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Number of Fan per Cell	1 set	Fan BHP	6.239 kW
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Fan Diameter	2000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	459.2 RPM		
Tip Speed	48.08 m/sec		

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Model of Motor Shaft Pulley	5V502		
Belt Number	5VX900		

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		