

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 - 500CT	Relative Humidity	80%
Cooling Capacity	1950000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate.....	390 m ³ /hr (6,500.0 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	4420 mm	Tower Inlet /Outlet Pipe Size	250A
Nominal Cell Width	4420 mm	Make-Up Size	50A
Overall Tower Length	4520 mm	Overflow	125A
Overall Tower Width	4560 mm	Drain	80A
Fan Deck Height	4465 mm		
Overall Tower Height	5265 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	8.761 kW
Type of Model	Axial Flow	Fan Total Efficiency	72.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	3166 CMM
Fan Diameter	3000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	321.5 RPM		
Tip Speed	50.51 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	5.200 : 1
Model of Fan Drive Shaft Pulley ..	5V2603		
Model of Motor Shaft Pulley	5V503		
Belt Number	5VX1180		

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.	
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DESIGN & OPERATING CONDITIONS

Model No.	LCP - 500CT x 2 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.....	2
Dry / Wet Bulb Temp.	29.9 / 27.0 °C	Number of Body.....	1

PHYSICAL DATA

Nominal Cell Length	4420 mm	Tower Inlet /Outlet Pipe Size	250A
Nominal Cell Width	4420 mm	Make-Up Size	50A
Overall Tower Length	9040 mm	Overflow	125A
Overall Tower Width	4560 mm	Drain	80A
Fan Deck Height	4765 mm		
Overall Tower Height	5665 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	8.761 kW
Type of Model	Axial Flow	Fan Total Efficiency	72.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	3166 CMM
Fan Diameter	3000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	321.5 RPM		
Tip Speed	50.51 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	5.200 : 1
Model of Fan Drive Shaft Pulley ..	5V2603		
Model of Motor Shaft Pulley	5V503		
Belt Number	5VX1180		

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 - 500CT x 3 CELLS	Relative Humidity	80%
Cooling Capacity	5850000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate.....	1170 m³/hr (19,500.0 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	4420 mm	Tower Inlet /Outlet Pipe Size	250A
Nominal Cell Width	4420 mm	Make-Up Size	50A
Overall Tower Length	13560 mm	Overflow	125A
Overall Tower Width	4560 mm	Drain	80A
Fan Deck Height	4765 mm		
Overall Tower Height	5665 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	8.761 kW
Type of Model	Axial Flow	Fan Total Efficiency	72.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	3166 CMM
Fan Diameter	3000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	321.5 RPM		
Tip Speed	50.51 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	5.200 : 1
Model of Fan Drive Shaft Pulley ..	5V2603		
Model of Motor Shaft Pulley	5V503		
Belt Number	5VX1180		

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 - 500CT x 4 CELLS	Relative Humidity	80%
Cooling Capacity	7800000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate.....	1560 m ³ /hr (26,000.0 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	4420 mm	Tower Inlet /Outlet Pipe Size	250A
Nominal Cell Width	4420 mm	Make-Up Size	50A
Overall Tower Length	18080 mm	Overflow	125A
Overall Tower Width	4560 mm	Drain	80A
Fan Deck Height	5115 mm		
Overall Tower Height	5915 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	8.761 kW
Type of Model	Axial Flow	Fan Total Efficiency	72.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	3166 CMM
Fan Diameter	3000 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL-Alloy
Fan Speed	321.5 RPM		
Tip Speed	50.51 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	5.200 : 1
Model of Fan Drive Shaft Pulley ..	5V2603		
Model of Motor Shaft Pulley	5V503		
Belt Number	5VX1180		

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 - 500CT x 5 CELLS	Relative Humidity	80%
Cooling Capacity	9750000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate.....	1950 m³/hr (32,500.0 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	4420 mm	Tower Inlet /Outlet Pipe Size	250A
Nominal Cell Width	4420 mm	Make-Up Size	50A
Overall Tower Length	22600 mm	Overflow	125A
Overall Tower Width	4560 mm	Drain	80A
Fan Deck Height	5115 mm		
Overall Tower Height	5915 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	8.761 kW
Type of Model	Axial Flow	Fan Total Efficiency	72.1%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	3166 CMM
Fan Diameter	3000 mm	Fan Blade Material	AL- Alloy
Number of Fan Blades	6 ea	Fan Hub Material	AL- Alloy
Fan Speed	321.5 RPM		
Tip Speed	50.51 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	5.200 : 1
Model of Fan Drive Shaft Pulley ..	5V2603		
Model of Motor Shaft Pulley	5V503		
Belt Number	5VX1180		

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		