

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 - 125CT	Relative Humidity	80%
Cooling Capacity	487500 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	97.5 m ³ /hr (1,625.0 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	2100 mm	Tower Inlet /Outlet Pipe Size	125A
Nominal Cell Width	2100 mm	Make-Up Size	40A
Overall Tower Length	2200 mm	Overflow	50A
Overall Tower Width	2240 mm	Drain	80A
Fan Deck Height	2885 mm		
Overall Tower Height	3585 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	3.149 kW
Type of Model	Axial Flow	Fan Total Efficiency	68.4%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	791.6 CMM
Fan Diameter	1400 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	4 ea	Fan Hub Material	AL-Alloy
Fan Speed	536.3 RPM		
Tip Speed	39.32 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.082 : 1
Model of Fan Drive Shaft Pulley ..	1402B		
Model of Motor Shaft Pulley	452B		
Belt Number	BP64		

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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DESIGN & OPERATING CONDITIONS

Model No.	LCP - 125CT x 2 CELLS	Relative Humidity	80%
Cooling Capacity	975000 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	195 m³/hr (3,250.0 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	2100 mm	Tower Inlet /Outlet Pipe Size	125A
Nominal Cell Width	2100 mm	Make-Up Size	40A
Overall Tower Length	4400 mm	Overflow	50A
Overall Tower Width	2240 mm	Drain	80A
Fan Deck Height	3035 mm		
Overall Tower Height	3735 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	3.149 kW
Type of Model	Axial Flow	Fan Total Efficiency	68.4%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	791.6 CMM
Fan Diameter	1400 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	4 ea	Fan Hub Material	AL-Alloy
Fan Speed	536.3 RPM		
Tip Speed	39.32 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.082 : 1
Model of Fan Drive Shaft Pulley ..	1402B		
Model of Motor Shaft Pulley	452B		
Belt Number	BP64		

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 - 125CT x 3 CELLS	Relative Humidity	80%
Cooling Capacity	1462500 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	292.5 m ³ /hr (4,875.0 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	2100 mm	Tower Inlet /Outlet Pipe Size	125A
Nominal Cell Width	2100 mm	Make-Up Size	40A
Overall Tower Length	6600 mm	Overflow	50A
Overall Tower Width	2240 mm	Drain	80A
Fan Deck Height	3115 mm		
Overall Tower Height	3815 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	3.149 kW
Type of Model	Axial Flow	Fan Total Efficiency	68.4%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	791.6 CMM
Fan Diameter	1400 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	4 ea	Fan Hub Material	AL-Alloy
Fan Speed	536.3 RPM		
Tip Speed	39.32 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.082 : 1
Model of Fan Drive Shaft Pulley ..	1402B		
Model of Motor Shaft Pulley	452B		
Belt Number	BP64		

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 - 125CT x 4 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.....	4
Dry / Wet Bulb Temp.	29.9 / 27.0 °C	Number of Body.....	1

PHYSICAL DATA

Nominal Cell Length	2100 mm	Tower Inlet /Outlet Pipe Size	125A
Nominal Cell Width	2100 mm	Make-Up Size	40A
Overall Tower Length	8800 mm	Overflow	50A
Overall Tower Width	2240 mm	Drain	80A
Fan Deck Height	3215 mm		
Overall Tower Height	3915 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	3.149 kW
Type of Model	Axial Flow	Fan Total Efficiency	68.4%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	791.6 CMM
Fan Diameter	1400 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	4 ea	Fan Hub Material	AL-Alloy
Fan Speed	536.3 RPM		
Tip Speed	39.32 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.082 : 1
Model of Fan Drive Shaft Pulley ..	1402B		
Model of Motor Shaft Pulley	452B		
Belt Number	BP64		

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 - 125CT x 5 CELLS	Relative Humidity	80%
Cooling Capacity	2437500 kal/hr	Evaporation Loss	0.72%
Water Flow Rate per Cell.....	487.5 m ³ /hr (8,125.0 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	2100 mm	Tower Inlet /Outlet Pipe Size	125A
Nominal Cell Width	2100 mm	Make-Up Size	40A
Overall Tower Length	8800 mm	Overflow	50A
Overall Tower Width	2240 mm	Drain	80A
Fan Deck Height	3215 mm		
Overall Tower Height	3915 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	3.149 kW
Type of Model	Axial Flow	Fan Total Efficiency	68.4%
Manufacturer	Daeil Aqua Co., Ltd.	Air Volume per Fan	791.6 CMM
Fan Diameter	1400 mm	Fan Blade Material	AL-Alloy
Number of Fan Blades	4 ea	Fan Hub Material	AL-Alloy
Fan Speed	536.3 RPM		
Tip Speed	39.32 m/sec		

SPEED REDUCER

Type	V-Belt	Number of Reductions	1
Manufacturer	Daeil Aqua Co., Ltd.	Reduction Ratio	3.082 : 1
Model of Fan Drive Shaft Pulley ..	1402B		
Model of Motor Shaft Pulley	452B		
Belt Number	BP64		

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		