

# EC0750B Evaporative Cooler

Thermostatic & Variable Speed (BLDC)



- Smart air flow change for desired temperature
- More air flow, adapting fan motor speed according duct condition
- Low power consumption and high cooling efficiency (grade A++)
- Low noise operation
- Fast cooling
- Variable speed fan (20 Steps)
- Thermostatic control panel and remote control



Thermostatic Remote Control



ISIRI



BHRC  
certificate



EU  
Standard



Automatic



BLDC  
motor



Variable  
speed



Low  
consumption



Overcoming duct  
pressure drop



High  
Efficiency



Thermostatic



Low noise



Remote  
control



Child  
lock



Air  
ventilation



Easy  
maintenance



Safety control  
RCCB

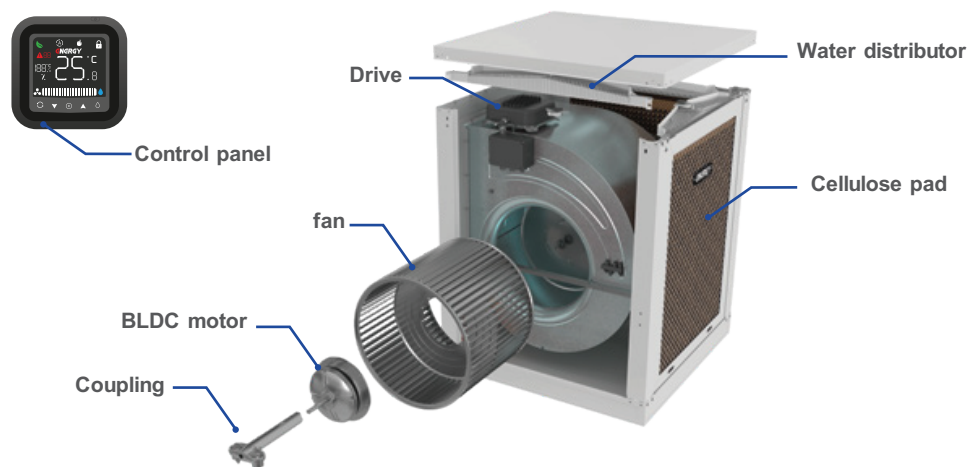


1PH  
Single  
phase

## EC 0750 B Evaporative Cooler (BLDC)

cellulose evaporative coolers can be used in most regions due to iran's climate. Nowadays, most evaporative coolers use AC motors. Energy company, with more than 50 years of experience in designing and manufacturing cooling and heating products, offers a new generation of cellulose evaporative coolers using BLDC electric motors (brushless DC motor). which, in addition to providing thermal comfort, reduces energy consumption.

These electromotor have high efficiency and more controllability. Cellulose evaporative cooler with BLDC motor have a lower noise level than other coolers due to the removal of belts and pulleys. Also, by automatically increasing the motor speed in long ducts, the maximum air flow will be provided and as a result, more ventilation will be created than the aspen pad cooler.



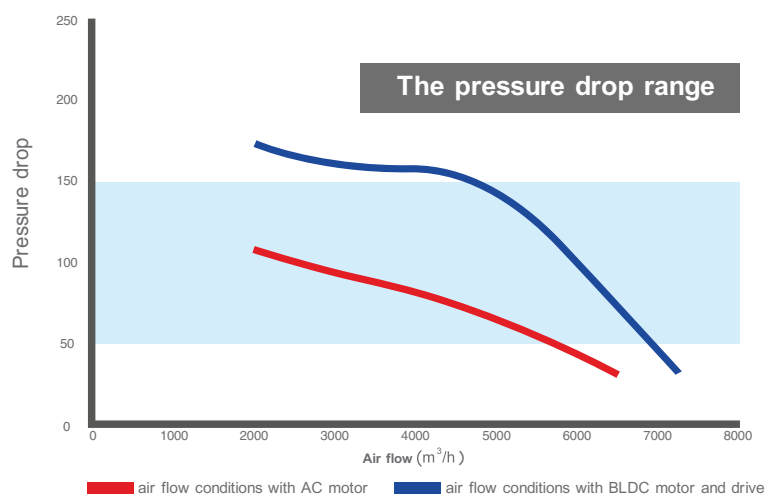
### Automatic operation

- Smart air flow change for desired temperature using drive and BLDC motor
- Thermostatic control
- Fast cooling
- Achieving thermal comfort temperature in a short time
- Automatic and manual control panel

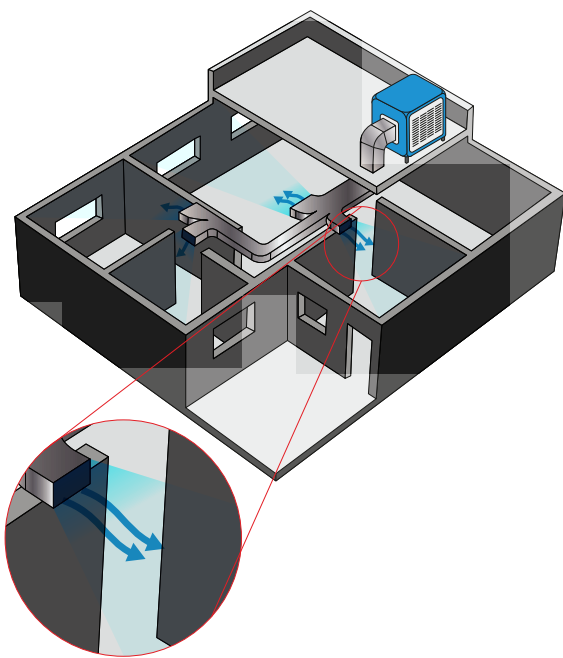


### More air flow

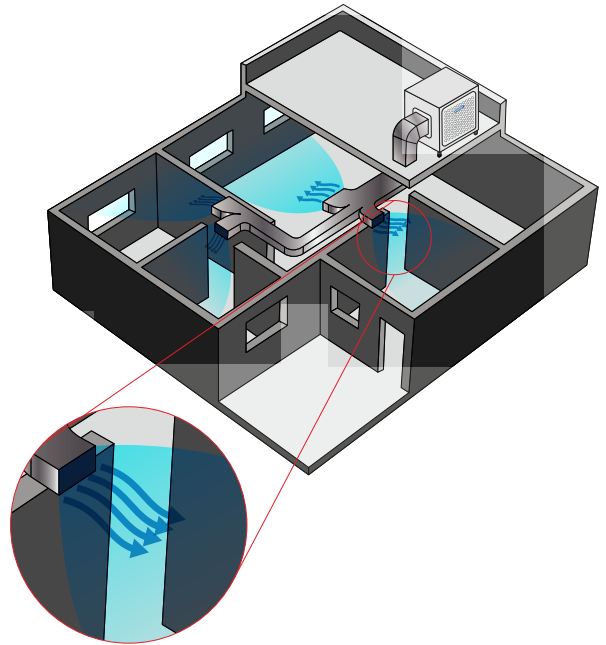
- Providing more air flow by automatically raising the fan speed in long and smaller than standard ducts.



## EC 0750 B Evaporative Cooler (BLDC)



Air flow conditions after installation AC motor



Air flow conditions after installation BLDC motor and drive



### Low power consumption and high cooling efficiency (grade A++)

- Adjustable fan speed according to indoor air temperature
- Continuous operation of BLDC motor at maximum torque



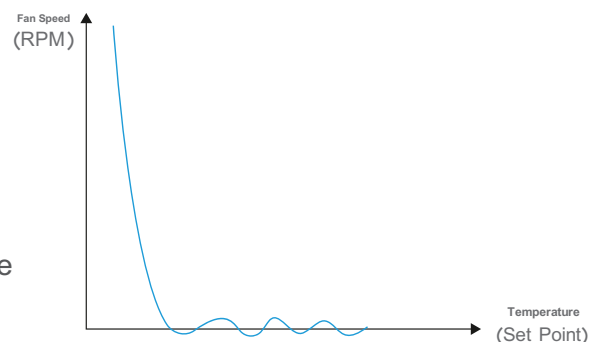
### Variable speed

- Variable speed fan (20 Steps)



### Low noise operation

- Low-noise operation in the regulation range and maintaining temperature conditions with minimum motor speed smartly
- Removal of pulleys and belts due to the direct connection of the motor to the fan
- Using high thickness galvanized sheet for more strength and durability and less vibration than other coolers



### Air ventilation

- Supplying fresh air with minimum fan speed in mild seasons



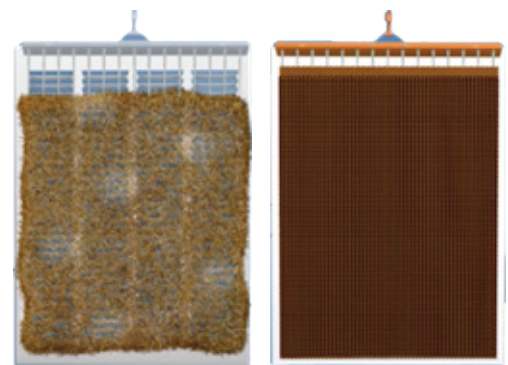
### Remote control

- Remote control



## High efficiency

- High strength, no deformation of the cellulose pad
- High evaporation efficiency with dense cellulose pad
- Steady cooling efficiency
- Long life cellulose pad (3 to 5 years)



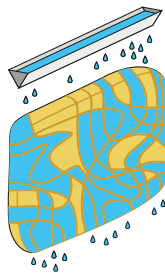
Aspen Pad

Cellulose Pad

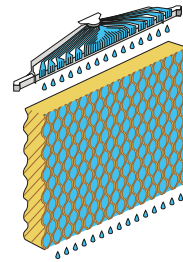


## More cooler

- Using high efficiency cellulose pad
- More water absorption
- Special water distributor (patent) that leaves no dry area on the cellulose pad
- Higher air-to-water contact surface than aspen pad
- Better performance of cellulose pad up to 40 °C



Non - Uniformity of water distribution on Aspen pad



Uniformity of water distribution on pad



## Health breathing

- Reducing the transfer of harmful respiratory bacteria due to reduction of the transfer of tiny droplets of unevaporated water in the air flow
- Special geometric structure and thickness of cellulose pad: Reduce the transfer dust and soil
- Special coating of industrial resin in cellulose pads: Reducing the growth of fungi and bacteria
- Air flow free of aspen particles



## Life protection system

- Automatic shutdown in case of power leakage of more than 30 mA (danger range for person)
- **Double-pole circuit breakers:** Circuit breakers both phase and null to protect against wiring errors during installation and service



## Low maintenance cost

- Low maintenance cost by removing belts and bearings
- Increasing the life of the electric motor by starting the cooler with low RPM
- Voltage fluctuations resistance



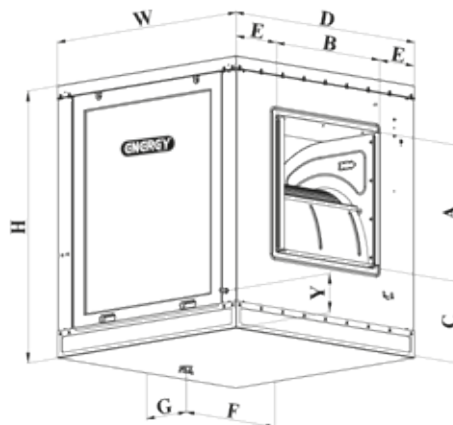
# EC 0750 B Evaporative Cooler (BLDC)

## Technical Specification

Title	Unit	EC 0750 B
Cooling System	-	Evaporative
Cooling Efficiency	%	83
Air Flow	cfm m <sup>3</sup> /h	4410 (7500)
Cooling Area (Approx.)	(m <sup>2</sup> )	90-150
Motor Power	W	450
Electrical	ph	1
	V (Volt)	220
	I max (A)	2.3
Weight + (Water Weight)	Kg	86 + (50)
Duct Length (Max)	m	25

Water inlet	The height of the pan	The location of the water overflow		Dimensions of the outlet opening			Body dimensions			Model
Y	J	F	G	A	B	C	H	W	D	
14.3	10	45	20	54	52	42.5	111	90	90	

Dimensions are in centimeters.



## Applications

Residential

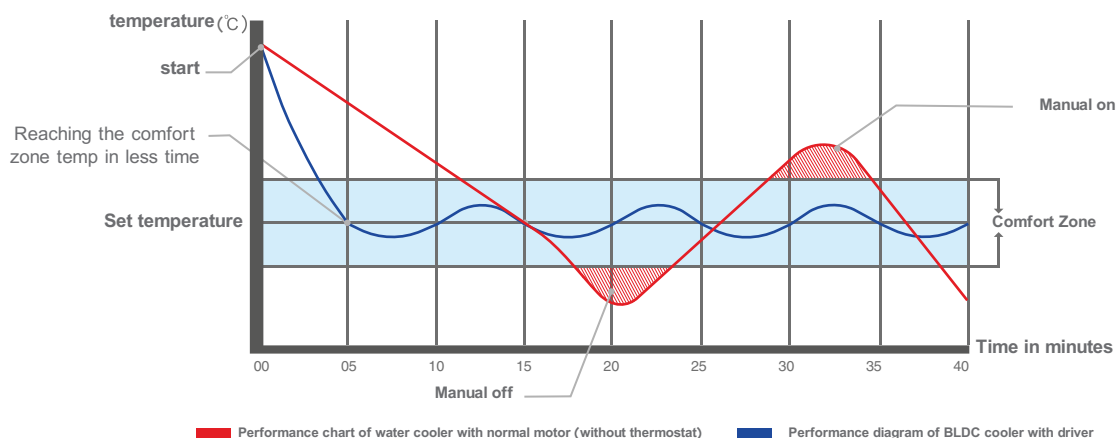
Commercial

Industrial

Official

## Performance comparison diagram

Performance comparison diagram of the BLDC evaporative cooler and AC motor (without thermostat)



**Office:** No. 58, Nategh Noori St.(Zomorod), Golnabi St.,  
Pasdaran Ave., Tehran, IRAN ☎ (+9821)61444

**Factory:** 7th km. Qom Road, Tehran, IRAN  
☎ (+9821)61442244

**Postal Code:** 1947755651

**Postal Code:** 1813159341

