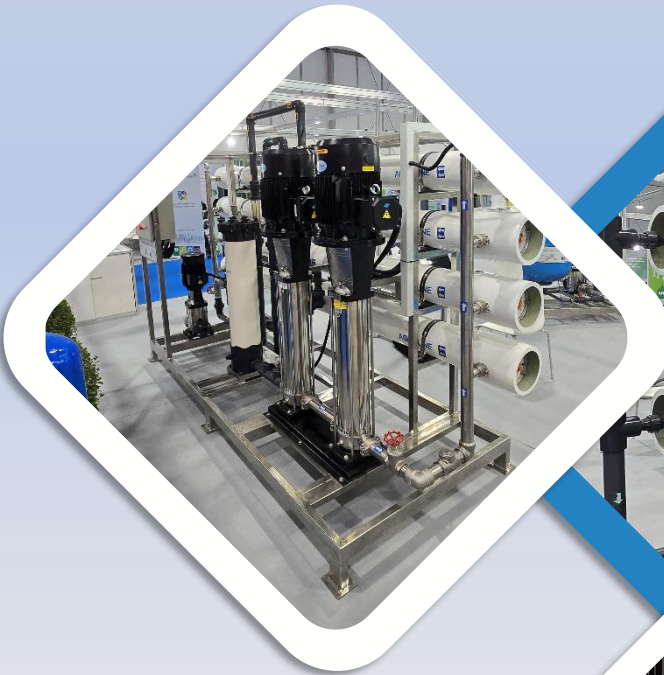


## Engineering Solutions

with High Performance Standards and Long-Term Reliability

## Mahmi Group

Integrated Solutions in Water Treatment & Advanced Agriculture



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## About Mahmi

Mahmi is a specialized engineering company providing integrated solutions in water desalination and treatment, as well as advanced greenhouse systems.

With extensive local, regional, and international experience, we design, manufacture, supply, install, and maintain high-performance systems tailored to the needs of the agricultural, industrial, municipal, and infrastructure sectors.

We focus on engineering accuracy, operational efficiency, and long-term reliability.

## Key Business Sectors:

### 1. Water Desalination and Treatment

- Implementation of integrated RO desalination plants for agricultural, industrial, and municipal sectors.
- Well water treatment systems.
- Ultra Filtration UF systems.
- Custom-designed desalination plants with PLC control systems.
- Upgrade and rehabilitation of existing systems to improve performance.
- Integrated maintenance and technical support contracts.

### 2. Greenhouses and Smart Agriculture

- Design and installation of cooled and shaded agricultural greenhouses.
- Hydroponic farming systems.
- Climate control and automatic fertigation systems.
- Cooling, ventilation, and environmental control systems for agricultural halls.
- Supply of covering materials and accessories for agricultural halls.

### 3. Why Mahmi?

- Engineering-based solutions with accurate design.
- All systems are designed based on actual water analysis and precise operational data.
- Integrated systems with high operational efficiency.
- Solutions designed to reduce long-term operating costs.
- Complete supply chain.
- From membranes and pumps to control panels and accessories.
- Local, regional, and international experience.
- Proven implementation record in Qatar and GCC countries.

## Mahmi Track Record in Water and Agricultural Projects

### Supply and Execution During the Period 2022–2026

#### Water Treatment Projects

Mahmi Trading has implemented a wide range of water treatment projects across the Gulf region, covering design, manufacturing, supply, installation, testing, and operation.

These projects served multiple sectors, including agricultural, industrial, residential, and governmental sectors, with a strong focus on execution quality, operational reliability, performance efficiency, and long-term durability.

#### Key Completed Works

1. Design, manufacturing, supply, and installation of more than **160 well water treatment plants**, customized according to the water quality at each site and the specific operating requirements of every project.
2. Supply and installation of more than **3,600 RO membranes** for new plants and for upgrading or improving the performance of existing plants.
3. Design and supply of **280 electrical control panels** for RO plants, filtration systems, and smart irrigation networks.
4. These control panels are equipped with **PLC systems**, real-time monitoring, and automated alarm systems, helping improve operational reliability and reduce maintenance and operating costs.
5. Mahmi engineering team also continues to provide commissioning, technical support, and operator training services to ensure stable performance and long-term customer partnerships.

#### Agricultural Projects

Mahmi Trading has implemented and supplied more than **160 greenhouses** in various configurations, suitable for the needs of modern farms and sustainable agricultural production.

These projects include:

Cooled greenhouses, net and shaded greenhouses, and hydroponic farming systems.

#### Total Implemented Areas

The total covered area exceeded **294,148 square meters**, equipped with advanced cooling systems, automation and control systems, and smart agricultural solutions that help improve productivity and operational efficiency.

#### Agricultural Supplies

Mahmi has supplied a complete range of agricultural materials and systems, including:

1. More than **230,000 cocopeat bags**, 29 liters each, dedicated to soilless cultivation.
2. More than **3,900 ventilation fans** and **12,600 cooling pads** for climate control inside greenhouses.
3. More than **850 electrical control panels** dedicated to operating and managing agricultural systems and greenhouses.
4. Complete hydroponic farming systems, including control panels, hanging systems, and crop management equipment.
5. Covering and protection materials, including shade nets, polyethylene films, and **6–8 mm polycarbonate sheets**, in addition to all required installation accessories.

## Mahmi Services and Products

### Water Treatment and Desalination Solutions

1. Design, manufacturing, supply, installation, and maintenance of water treatment and desalination plants, including all related accessories and equipment.
2. Preparation of feasibility studies and technical assessments for water treatment projects.
3. Supply of all types of pumps for industrial, agricultural, and infrastructure applications.

### Commercial Brands and Partnerships

1. Authorized distributor of **FilmTec™ RO Membranes**.
2. Exclusive agent for **CNP Pumps** in Qatar.

### Greenhouse and Modern Agriculture Systems

1. Design, manufacturing, and installation of various greenhouse types, including:
  - Cooled greenhouses
  - Net greenhouses
  - Seedling nurseries
2. Supply of 10 cm and 15 cm Cooling Pads, including all required components and accessories.
3. Supply of complete Hydroponic Farming Systems, including all accessories.
4. Supply of Double Wall Polycarbonate Sheets in thicknesses of 6, 8, and 10 mm.
5. Supply of three-layer polyethylene films, 200 microns thick.
6. Supply of shade nets and insect-proof nets in various specifications.
7. Supply of cooling fans with all required screens and motors.
8. Supply of climate control systems, automatic fertigation systems, and control systems for greenhouses.
9. Preparation of feasibility studies and technical assessments for agricultural projects.
10. Supply of custom-designed electrical control panels for greenhouse applications.



## Mahmi Team



## Selected Mahmi Projects : 2025-2026

Project Name	Plant Capacity	Client / Location
Wadi Jallal Project	650 m <sup>3</sup> /day	Golden Bay Contracting
Wadi Jallal Project	825 m <sup>3</sup> /day	Golden Bay Contracting
WP	380 + 380 m <sup>3</sup> /day	Al Mirqab Facilities Management
Privet Farm	380 m <sup>3</sup> /day	Qatfa
Al-Mazrouaa Privet farm	760 m <sup>3</sup> /day	Farm No. 1507
Al-Khor Privet farm	760 m <sup>3</sup> /day	Farm No. 179
Mr. Nasser Al-Attiyah Farm	40 m <sup>3</sup> /day	Ras Laffan
Mr. Mohammed Abdulrahman Al-Kuwari - Farm No. 22	185 m <sup>3</sup> /day	Al Shamal
Mr. Mohammed bin Hamad Al-Attiyah Farm	1110 m <sup>3</sup> /day	Alkaaban City
Mr. Abdulrahman bin Rashid Al-Thani Farm - 116	740 m <sup>3</sup> /day	Alkaaban City
Dr. Fahad Abdulrahman Hamad Al-Thani Farm - 87	150 m <sup>3</sup> /day	Alkaaban City
Mr. Mohammed bin Jassim bin Khaled Al-Thani Farm	75 + 75 m <sup>3</sup> /day	Al Wakir
Al Fardan Farm 189	185 m <sup>3</sup> /day	Al Shafalhya
Lilac landscape	185 m <sup>3</sup> /day	Al Karaana
Mr rashed ben nassir al kahtani farm	110 m <sup>3</sup> /day	Al Shamal
Beverly Nursery	220 m <sup>3</sup> /day	Al Shamal
Qatarat - Al Wbra Farm	370 m <sup>3</sup> /day	Qatarat - Alwabra
Qatarat – Gerand Agrico Farm	740 m <sup>3</sup> /day	Abou Thaylah
Ministry of Municipality and Environment - Research Department	185 m <sup>3</sup> /day	Al Utouriya
Mr. Mohammed Khamis Mubarak Al-Kuwari Farm 1465	185 m <sup>3</sup> /day	Abou Thaylah
Mr. Mohammed Khamis Mubarak Al-Kuwari Farm 691	185 m <sup>3</sup> /day	Abou Thaylah
Mr. Majed Ali Al-Kuwari Farm	185 m <sup>3</sup> /day	Abou Thaylah
Mr. Abdulaziz Hassan Al-Thani - Farm147	185 m <sup>3</sup> /day	Umm Thaniyatayn
Mr. Abdulaziz Mohammed Al Rabban - Farm	75 m <sup>3</sup> /day	Al Shamal
Mr. Saad Mohammed Saad Al Rumaihi - Farm 614	185 m <sup>3</sup> /day	Al Shamal
Mrs. Maryam Issa Khalfan Al Suwaidi - Farm 1381	370 m <sup>3</sup> /day	Rawdat Rashed
Mr. Mohammed Mishal Al-Attiyah - Farm	370 m <sup>3</sup> /day	Rawdat Rashed
Mr. Hassan bin Abdulla Al-Maadheed - Farm	185 m <sup>3</sup> /day	Mekaines
Al-Maadheed - Farm	480 m <sup>3</sup> /day	Umm Birka

**Photos of Mahmi RO System Projects**

**Containerise Ro 185 m3/day**



**Rawdat Rashed RO - 370 m³/day**

**Al Shamal RO - 185 m³/day**



Some of Mahmi RO System Projects 2024-2026



Ministry of Municipality and Environment research department  
185 m3/day



Alkaaban farm - 1110 m3/day



**Some of Mahmi RO System Projects 2024-2026**



**Alkaaban farm  
740 m3/day**



**Various Plants in Qatar**



## Equipment and Spare Parts Supply for Water Treatment and Desalination Plants



Mahmi, Exclusive Agent of **CNP PUMPS**



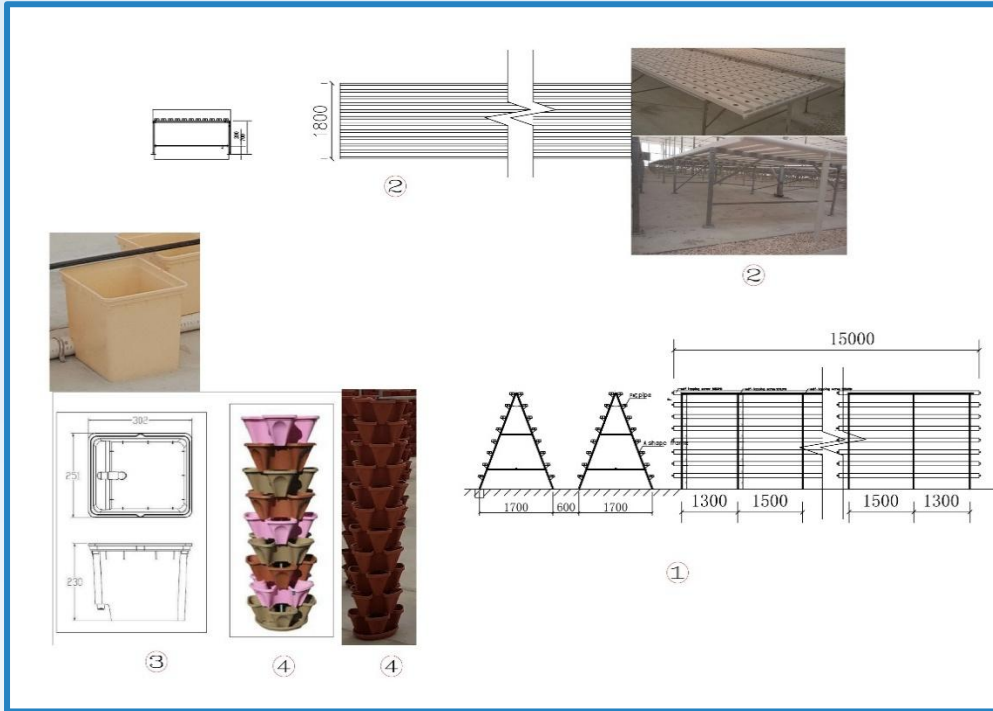
Photos of Cooled and Net Greenhouse Projects



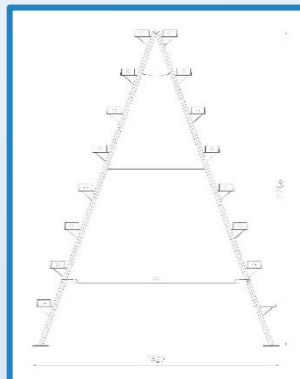
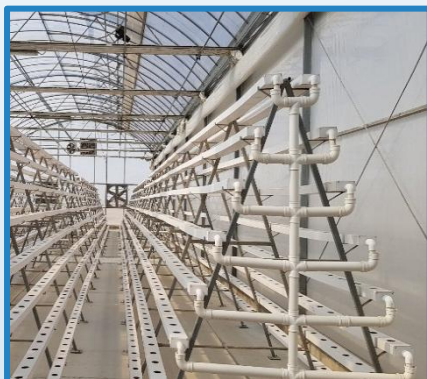
Photos of Cooled and Net Greenhouse Projects



## Hydroponic Systems Projects



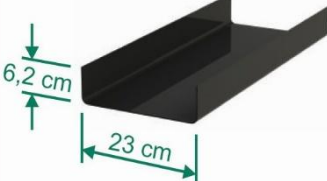
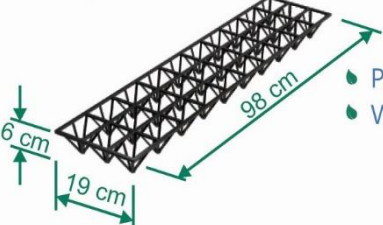





Bucket Size	30 x 25 x 23cm (L,W,H)
Volume	11L
Weight	0.4kg
Material	Food-grade PP&UV
Color	Beige, black or customized
Packing Detail	30 pcs per carton
Carton Size	25x 34x 162cm
20FT	6600 pcs
40FT	13200 pcs
40FT	16000 pcs



## Hydroponic Systems Projects

### - Polypropylene Growing Gutter :

- co-polymer, white, 100% virgin material with UV protection
- Maximum load Spacer: (40Kg/m uniform - **Planar** surface - All legs work equally )
- Estimated lifespan, Gutter: 6 years - Spacer: 4 years
- Disinfection of the gutter: We recommend 200 ppm Sodium hypochlorite (NaClO), rinsing afterwards with water - Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)

<h4>Gutter 6,2 x 23</h4>  <ul style="list-style-type: none"> <li>• Polypropylene 0,7 mm</li> <li>• Extended Width: 35,4 cm</li> <li>• Weight: 640 gr/m<sup>2</sup></li> </ul>	<h4>Eco Spacer</h4>  <ul style="list-style-type: none"> <li>• Polypropylene</li> <li>• Weight: 270 g/m</li> </ul>
<h4>Clip without ring</h4> <p>Ref. 030008</p>  <hr/> <h4>Clip-E Ø16</h4> <p>Ref. 030011</p>  <hr/> <h4>Clip Ø25</h4> <p>Ref. 030007</p>  <ul style="list-style-type: none"> <li>• Polypropylene</li> <li>• Piece Weight: 3 g.</li> <li>• For fixing the gutter, the spacer and the drip pipe.</li> </ul>	<h4>Out-Flow</h4>  <ul style="list-style-type: none"> <li>• Polypropylene</li> <li>• Piece Weight: 60 g.</li> <li>• Exit Diameter: 26 mm.</li> </ul>

## Growing bags



## Cooling Systems for Greenhouses

1. Cooling panels are insulated with black exterior insulation for enhanced thermal efficiency.
2. The cooling frame is made of 1.5 mm anodized aluminum, offering high resistance to corrosion and salt exposure.
3. The system allows quick disassembly and reinstallation of the cooling panels during maintenance or replacement.

### MAHMI COOLING PAD



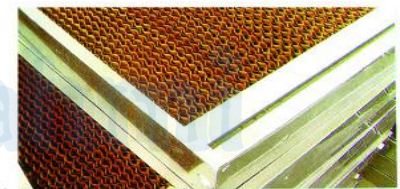
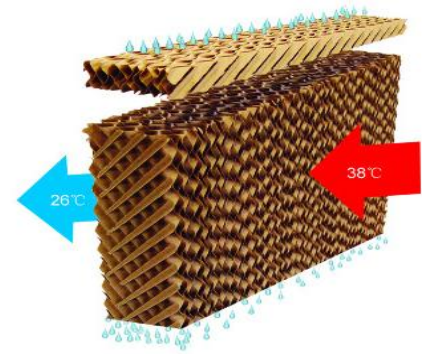
Black cooling pad



Green cooling pad



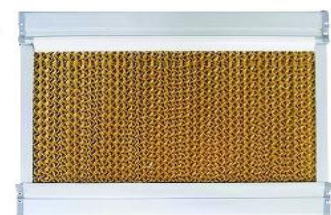
Brown cooling pad



#### Performance characteristics :

- ◆ Adopting imported European fiber paper, our pad exhibits high absorbability and water resistance. It uses anti-mildew and moth-preventive material to ensure long life service.
- ◆ Using spatial crossing linking technology and a large evaporation area, cooling efficiency is increased to as high as 80%.
- ◆ Our cooling pad involves active surface agents which absorb water naturally, allowing for rapid penetration and lasting effectiveness. A drop of water can diffuse in 4-5 seconds. Limit of water absorption: 60-70 mm/ 5 minutes, 200mm/1.5 hours – consistent with international standards.
- ◆ Our cooling pad does not contain phenol, which is irritant to the skin. It is harmless to humans and animals and is free of poisons.
- ◆ Available colors: brown and green coats.

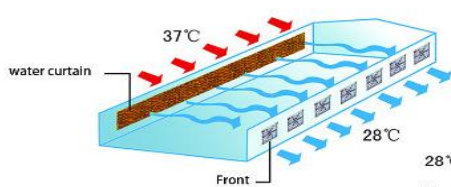
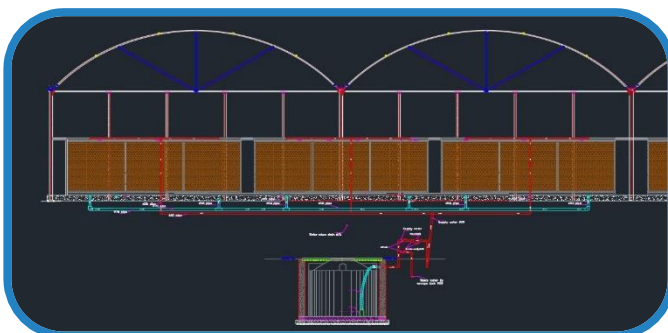
#### Stainless steel frame



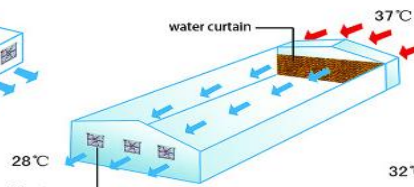
#### Aluminum alloy frame



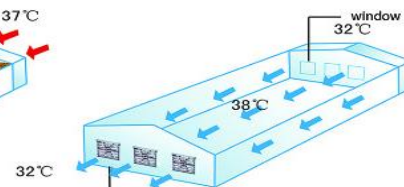
#### Filter



Horizontal water curtain cooling system



Longitudinal water curtain cooling system



Negative pressure exhaust fan



## Cooling Systems for Greenhouses – Exhaust fan-

### MAHMI CENTRIFUGAL EXHAUST FAN



#### Structure and principle :

The MHC High Class Fan is composed of a blade, motor, outer frame protecting nets and supporting frames and shutters. The shutters are opened by the Push-pull Centrifugal system. The major parts are made of galvanized steel sheets (180g/275g/m<sup>2</sup> zinc coating) and stainless steel sheets. Based on sound aerodynamic principles, wind resistance is minimized and efficient airflow is achieved. All products are used in a wide range of settings, including various types of farms, greenhouses and factory buildings.

#### Application examples:



#### Technical parameters

Model specifications	Diameter blades (mm)	Blades rotational speed rpm	Motor rotational speed rpm	Air flow (m <sup>3</sup> /h)	(Pa) Total pressure	Noise decibels	Import power	(V) Rated voltage	(mm) Height	(mm) Width	(mm) Thickness
MHC-800	710 (28")	650	1400	18000	60	≤70	370	380	800	800	450
MHC-1000	910 (36")	650	1400	26000	60	≤70	550	380	1000	1000	450
MHC-1100	1000(40")	600	1400	33000	70	≤70	750	380	1100	1100	450
MHC-1220	1100(43")	440	1400	39500	50	≤70	1100	380	1220	1220	450
MHC-1380	1270(50")	440	1400	43500	56	≤70	1100	380	1380	1380	450
MHC-1530	1400(55")	420	1400	51000	56	≤75	1500	380	1530	1530	450



## Cooling Systems for Greenhouses – Circulation fan-

### MAHMI SERIES CIRCULATION FAN



#### Performance characteristics :

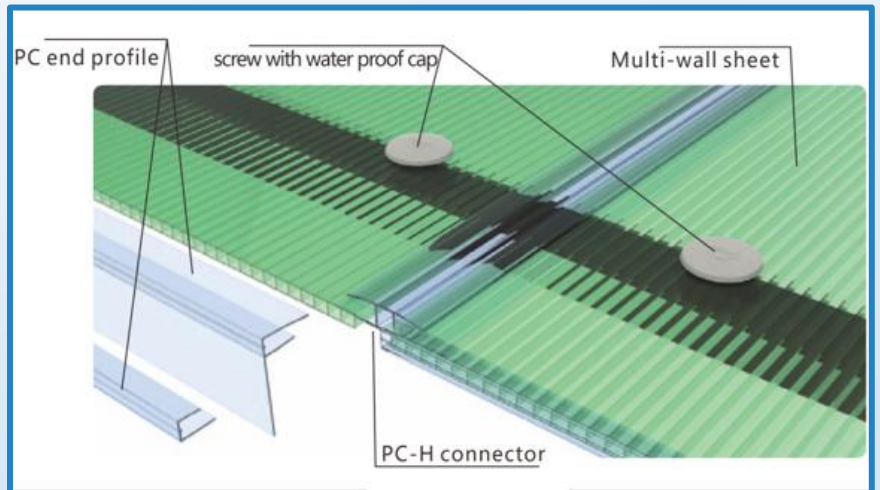
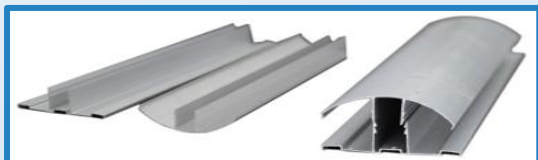
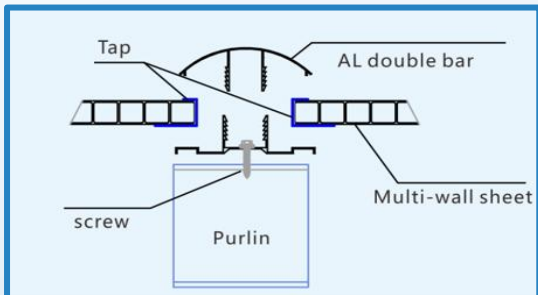
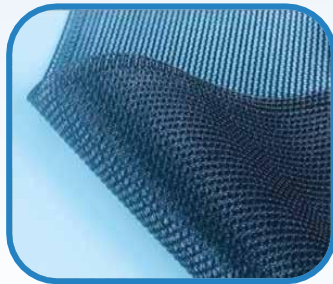
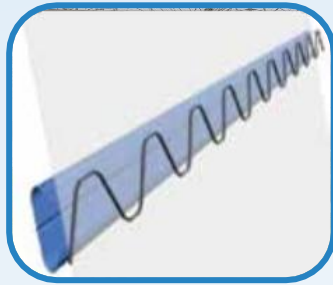
- ◆ Features the excellent “Haier” brand electronics.
- ◆ International advanced energy conservation technology tested.
- ◆ Light aluminum board punch press fan blazer: exhibits a wide angle, large air pressure and low noise.
- ◆ Outer covering is stainless steel. Steel spraying is also available.
- ◆ Equipped with beautiful and convenient button type hanging articles.
- ◆ Long service life: over 10 years.

#### Technical parameters :

Type	mm Diameter blades	m <sup>3</sup> /h AirVolume	(w) Power	(v) Voltage	(rev/min)	HZ
MH-300	300	2880	150	220 (380)	1400	50
MH-400	400	4180	250	220 (380)	1400	50
MH-500	500	5300	250	220 (380)	1400	50
MH-600	600	6500	370	220 (380)	1400	50



greenhouse covering materials and all related fixing and installation accessories.  
 polycarbonate sheets - shade nets, anti-insect - plastic sheets for greenhouse flooring - polyethylene films





**Mahmi** Agricultural Trading - for water solutions & greenhouse



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