Evaporative Cooling

Fan-Air®

Manufacturer of Quality Air Moving Equipment

Made in the USA

Information subject to change. Updates available online.

Evaporative Cooling

FanAir/UMP-536/PO/04-30-2016

Resources Available for This Product

• Catalog By Mail
• Catalog Online

• Clean Pump
• Self-tensioning belt
• Installation accessories
• Fused and non-fused disconnects

United Metal Products
1920 E Broadway Road Tempe, AZ 85282
T 480.968.9550
F 480.968.9555
www.unitedmetal.com

Low Profile, High Capacity, High Efficiency Evaporative Cooling

13,000 to 16,000 CFM Industry Standard Rating

Features

• “Low profile” (only 42.75” high)

• Factory tested and shipped ready to operate, including factory wired components

• ETL listed and labeled in accordance with U.L. standards

• Copper-wound, heavy duty ball bearing motors

• One high capacity pump provides complete media saturation

• Self-aligning, heavy duty, greaseable, pillow block, ball type fan bearings

• “Rain-Tight” pitched top construction (1/4”/12”)

• Aspen wood fiber media with dust trap filters

• Lifting sky hooks

• The most up-to-date propeller type axial fan affords maximum air delivery while minimizing horsepower

• Heavy gauge, hot dipped galvanized steel construction

• Epoxy powder base paint finish baked on at 375°

• Rugged cabinet assembly with double thick steel corners

• Adjustable motor sheave for air flow adjustment

Available Options

• Clean Pump
• Self-tensioning belt
• Installation accessories
• Fused and non-fused disconnects

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FanAir/UMP-536/PO/04-30-2016
<table>
<thead>
<tr>
<th>Model #</th>
<th>Industry Standard Rating</th>
<th>Air Delivery in Cubic Feet per Minute (CFM)</th>
<th>Electrical Specifications</th>
<th>Fan Unit</th>
<th>Evaporative Media</th>
<th>Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 CFM RPM</td>
<td>0.1 CFM RPM</td>
<td>0.2 CFM RPM</td>
<td>0.3 CFM RPM</td>
<td>0.4 CFM RPM</td>
<td>HP BHP</td>
</tr>
<tr>
<td>UMP-536</td>
<td>Down</td>
<td>13,000</td>
<td>9,793</td>
<td>395</td>
<td>9,903</td>
<td>395</td>
</tr>
<tr>
<td></td>
<td>14,000</td>
<td>10,859</td>
<td>438</td>
<td>9,065</td>
<td>438</td>
<td>7,223</td>
</tr>
</tbody>
</table>
|         | 16,000 | 12,397 | 500 | 10,728 | 500 | 9,300 | 500 | 7,628 | 500 | 5,554 | 500 | 1 1/2 | 1.72 | 20.0 | 11 / 10 | 6.6 | / 6.0 | / 3.0 | 380 | 1.2 | 42° | 690 | 3.75 | 11.25 | A48 | 1 | 8 - 30 x 36 | 489 | 802 | 230v pumps are available; contact UMP for details.

* Performance rating include the effects of the evaporative media, inlet louver, motor and drives in the airstream.
* Performance shown is for installation Type B: Free Inlet, Ducted Outlet
* Power rating (BHP) does not include drive losses.

The 500 series fan type evaporative coolers are only designed for straight down ducted applications. External static pressure ranges of 0.0” to 0.2”. Higher ESP are only shown to demonstrate fan characteristics and performance with loaded media. For ducted applications with external static pressures exceeding 0.2” a UMP-800 or 900 series blower model is recommended.

Only motors with 1 HP or less are provided with integral thermal protection. Motors 1.5 HP or greater require a separate motor overload device. Amperage ratings shown are NEC. Usable at 208v. Consult factory for overload and control options.

Weights are in pounds and include motors, pumps and drives. Operating weights include saturated media and assumes 2.5” depth of water in sump. Weights exclude optional accessories such as curb, diffuser and controls.
1. 7/8” Electrical service entrance for 1/2” conduit.
2. 3/8” Compression fitting connection made inside unit. Minimum 15 p.s.i. water pressure is recommended to deliver the volume needed to meet high summer evaporation and bleed requirements. Do not exceed 125 p.s.i.
3. 3/4” Male hose thread.
4. Minimum duct sizing should be 45” x 45” (see accessories drawing for details). Evaporative cooling is an adiabatic process. Possibility of water damage may exist. Special consideration must be taken when utilizing an evaporative cooler. Consult factory for special applications.
### UMP-536 Optional Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Part #</th>
<th>Material/Finish</th>
<th>Opening</th>
<th>Weight in Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UMP-536 Adj. Curb</td>
<td>7220-46</td>
<td>18 ga galv.</td>
<td>46” x 46”</td>
<td>60</td>
</tr>
<tr>
<td>Cabinet Tie-Down Kit</td>
<td>12434</td>
<td>16 ga painted galv.</td>
<td>--</td>
<td>4</td>
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</tbody>
</table>

**Description**

- UFG45 Grill
- UFD45-2 Grill Diffuser
- A4545 Auto Damper Diff.

<table>
<thead>
<tr>
<th>Discharge Height Application</th>
<th>UFG45 Grill</th>
<th>UFD45-2 Grill Diffuser</th>
<th>A4545 Auto Damper Diff.</th>
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</thead>
<tbody>
<tr>
<td>Part #</td>
<td>10604</td>
<td>80284</td>
<td>20038</td>
</tr>
<tr>
<td>Pressure Drop @ 1,200 FPM</td>
<td>.02”</td>
<td>.07”</td>
<td>.10”</td>
</tr>
<tr>
<td>Material / Finish</td>
<td>Galv. / Beige</td>
<td>Galv. / Beige</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Weight in Lbs.</td>
<td>14</td>
<td>29</td>
<td>59</td>
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