

Low Profile, Commercial / Industrial Evaporative Cooling 7,500 to 8,500 CFM Industry Standard Rating

Features

- "Low profile" (only 32.00" high)
- External static pressure range of 0.0" to 1.2" W.G.
- 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, greasable, pillow block, ball type fan bearings
- Fan performance is factory set to job specific specifications
- Lifting sky hooks
- Premium 8" or 12" thick cross fluted media for 80% to 90% evaporative efficiency
- Heavy gauge, hot dipped galvanized steel construction
- Epoxy powder base paint finish baked on at 375°
- Rugged cabinet assembly with double thick steel corners
- "Rain-Tight" pitched top construction (1/4"/12")
- Easily accessible external distributor clean-outs
- Side access media removal
- Adjustable motor sheave for air flow adjustment

• 800 Series - "Low Profile"

• UMP-824

- Up Discharge
- Side Discharge
- Down Discharge

Available Options

- Class II, U.L. 900 media
- Pre-wired control packages
- Distribution flush system
- Freeze protection
- Hinged access door
- 2" Pre-filters
- Installation accessories
- Fused and non-fused disconnects

Resources Available for This Product

- Catalog By Mail
- Catalog Online



United Metal Products

1920 E Encanto Drive Tempe, AZ 85281
T 480.968.9550
F 480.968.9555
www.unitedmetal.com

Model #	Industry Standard Rating	Media Depth	Eff. @ 500 FPM	HP	AIR DELIVERY IN CUBIC FEET PER MINUTE (CFM)																											
					Inches Static Pressure (W.G.) ①																											
					0.0		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		1.1		1.2			
					CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM	CFM	RPM
UMP-824	7,500	8"	80%	3/4	4,950	383	4,740	399	4,530	419	4,300	439	4,030	463	3,800	483	3,560	507														
		12"	90%	3/4	4,840	391	4,530	419	4,320	436	4,110	454	3,890	477	3,680	495	3,420	518														
	8,500	8"	80%	1	5,200	404	5,200	438	5,050	454	4,870	469	4,580	495	4,400	511	4,180	533	3,980	552	3,750	573										
		12"	90%	1	5,200	431	5,000	459	4,840	472	4,670	488	4,360	514	4,190	530	4,000	549	3,800	568												
	8,500	8"	80%	1 1/2	--	--	--	--	5,200	469	5,200	500	5,200	529	5,200	556	5,090	582	4,930	596	4,780	610	4,600	626	4,360	650						
		12"	90%	1 1/2	--	--	--	--	5,200	494	5,200	523	5,200	551	5,200	577	4,900	600	4,750	612	4,600	626	4,460	640								
	8,500	8"	80%	2	--	--	--	--	--	--	--	--	--	--	--	--	5,200	584	5,200	609	5,200	634	5,200	658	5,150	681	5,010	694	4,790	715		
		12"	90%	2	--	--	--	--	--	--	--	--	--	--	--	--	5,200	604	5,200	618	5,200	653	5,200	677	4,980	698	4,850	709				

Model #	ELECTRICAL SPECIFICATIONS						BLOWER UNIT		EVAPORATIVE MEDIA	WEIGHTS ③	
	Fan Motor ②			Pump			Diameter	Type	Qty.-Depth x Width x Height	Shipping	Operate
	HP	Max BHP	Volt/Phase 115/208/230 1-Phase Amps	Volt/Phase 208/230/460 3-Phase Amps	GPH@ 5' Head	Volt/Phase 115 1-Phase Amps					
UMP-824	3/4	0.86	10.6 / 6.0 / 5.3	3.0 / 3.4 / 1.7	380	1.2	18" x 18"	DWDI-FC	5-8" x 12" x 24"	397	522
	3/4	0.86	10.6 / 6.0 / 5.3	3.0 / 3.4 / 1.7	450	1.7	18" x 18"	DWDI-FC	5-12" x 12" x 24"	416	553
	1	1.15	13.0 / 6.3 / 6.5	3.6 / 3.8 / 1.9	380	1.2	18" x 18"	DWDI-FC	5-8" x 12" x 24"	401	526
	1	1.15	13.0 / 6.3 / 6.5	3.6 / 3.8 / 1.9	450	1.7	18" x 18"	DWDI-FC	5-12" x 12" x 24"	420	557
	1 1/2	1.73	18.0 / 9.5 / 9.0	4.5 / 4.2 / 2.1	380	1.2	18" x 18"	DWDI-FC	5-8" x 12" x 24"	414	539
	1 1/2	1.73	18.0 / 9.5 / 9.0	4.5 / 4.2 / 2.1	450	1.7	18" x 18"	DWDI-FC	5-12" x 12" x 24"	433	570
	2	2.3	24.0 / 12.6 / 12.0	5.9 / 5.6 / 2.8	380	1.2	18" x 18"	DWDI-FC	5-8" x 12" x 24"	437	562
	2	2.3	24.0 / 12.6 / 12.0	5.9 / 5.6 / 2.8	450	1.7	18" x 18"	DWDI-FC	5-12" x 12" x 24"	456	593

- ① UMP-800 series, blower type evaporative coolers are designed for ducted applications with external static pressure ranges of 0.0" through 1.2". For straight down ducted low static applications with external static pressure ranges of 0.0" to 0.2" a UMP-700 series propeller type axial fan model may be recommended.
 - ② 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 is nameplate data. Consult factory for overload and control options.
 - ③ Weights are in pounds and include motors, pumps and drives. Operating weights include saturated media and assume 2.5" depth of water in sump. Weights exclude optional accessories such as curbs, diffusers and controls.
- NOTE: Do not exceed 5,200CFM.

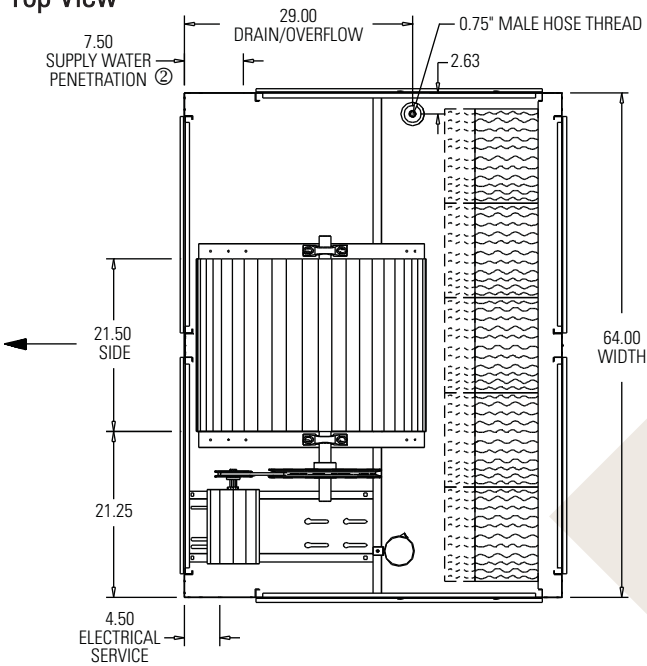
* Performance ratings include the effects of the evaporative media, inlet louver, motor and drives in the airstream.
 * Fan performance shown is based on tests made in accordance with AMCA 210-85, installation Type B; free inlet, ducted outlet.
 * Power rating (BHP) does not include drive losses.



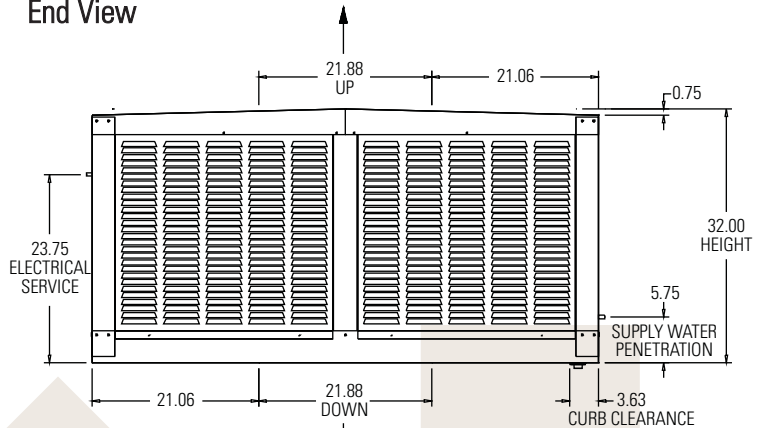


UMP-824

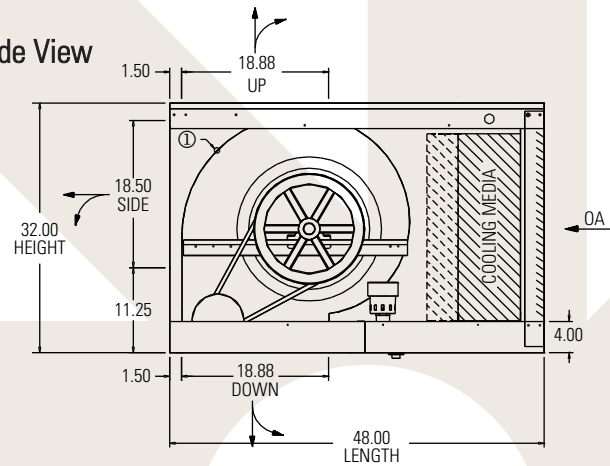
Top View



End View



Side View



① 7/8" Electrical service entrance
(NOTE: When the unit is supplied with an Integral Single Point Power Connection / Control Panel the electrical service entrance will be on the opposite side of the unit - above the supply water penetration)

② 3/8" Compression fitting connection made inside unit.

NOTE: Minimum 50 p.s.i. of water pressure required for float.