# AH Series Air Handling Units Model Drawings

Units At A GlanceC-1
Convertible Wet Air Handling Unit w/Mixing Section, Heating/Cooling Water Coils, Supply Air Blower/MotorC-3
Convertible Wet Air Handling Unit w/Mixing Section, Heating/Cooling Water Coils, Supply Air Blower/Motor, Return Air Blower/MotorC-7
Air Handling Unit w/Mixing Section, Heating/Cooling Water Coils, Evaporative Humidifier, Supply Air Blower/MotorC-11
Outdoor Air Handling Unit w/Mixing Box c/w Relief, Heating/Cooling Water Coils, Supply Air Blower/Motor, Return Air Blower/MotorC-15
MH Series Evaporative HumidifiersC-19
Unit SpecificationsC-24

## UNITS AT A GLANCE

UNIT MODEL	NOMINAL	NOMINAL	CFM		STAND SIZE F				/COOLING )ILS
NO.	CFM	OV FPM	RANGE		MAX. PRE	SSURE			E FACE A COIL
				NO.	LOW 2"	MED. 5"	8"	SQ. FT.	H" X W"
					DIA.	DIA.	DIA.		
AH-20-BI	2000	1290	1550-4650	1	BI	BI	BI	5.6	25X32
							12		
AH-60-BI	6000	2575	4100-9780	1			15	13.3	40X48
AH-80-BI	8000	2319	5520-14490	1			18	20.0	48X60
AH-120-BI	12000	2899	7500-17300	1			20	24.0	48X72
AH-150-BI	15000	2930	9000-21500	1			22	30.0	60X72
AH-180-BI	18000	2387	13000-31500	1			27	36.0	72X72
AH-210-BI	21000	2256	16000-35000	1			30	42.0	72X84
AH-240-BI	24000	2130	18000-43000	1			33	48.0	72X96
AH-320-BI	32000	2321	20000-55000	1			36	72.0	96X108
AH-400-BI	40000	2385	30000-65000	1			40	88.0	96X132
AH-480-BI	48000	2343	36000-85000	1			44	104.0	96X156
AH-600-BI	60000	2414	45000-104000	1			49	130.0	120X156
AH-700-BI	70000	2298	55000-120000	1			54	138.3	120X166

UNIT MODEL	NOMINAL	NOMINAL	CFM		STAND SIZE F.				/COOLING DILS
NO.	CFM	OV FPM	RANGE		MAX. PRE	SSURE			E FACE COIL
				NO.	LOW 2"	MED. 5"	MED. 6"	SQ. FT.	H" X W"
AH-20-FC	2000	1429	1600-3400	1	DIA. FC	DIA. FC	DIA. FC	5.6	25X32
					12				
AH-60-FC	6000	2691	4000-10000	1		15		13.3	40X48
AH-80-FC	8000	2667	6000-13000	1			18	20.0	48X60
AH-120-FC	12000	2804	8000-20000	1			21	24.0	48X72
AH-150-FC	15000	2727	9000-25000	1			24	30.0	60X72
AH-180-FC	18000	2590	14000-30000	1			27	36.0	72X72
AH-210-FC	21000	2471	16000-34000	1			30	42.0	72X84
AH-240-FC	24000	2299	18000-40000	1			33	48.0	72X96
AH-320-FC	32000	2522	24000-52000	1			36	72.0	96X108
AH-400-FC	40000	2633	30000-60000	1			39	88.0	96X132
AH-480-FC	48000	2622	36000-72000	1			42	104.0	96X156
AH-600-FC	60000	2673	48000-104000	1			48	130.0	120X156
AH-700-FC	70000		Consult factory.						

## UNITS AT A GLANCE

UNIT MODEL	NOMINAL	CFM		-	DARD FANS			/COOLING DILS
NO.	CFM	RANGE		MAX. PR	RESSURE			E FACE COIL
			NO.	LOW 2"	MED. 5"	8"-9"	SQ. FT.	H" X W"
				DIA.	DIA.	DIA.		
AH-20-DD	2000	1600-4600	1	DD	DD	DD	5.6	25X32
						14		
AH-60-DD	6000	4000-8200	1			18	13.3	40X48
AH-80-DD	8000	5000-14600	1			24	20.0	48X60
AH-120-DD	12000	8000-25000	1			30	24.0	48X72
AH-150-DD	15000	9000-27000	1			33	30.0	60X72
AH-180-DD	18000	14000-33200	1			36	36.0	72X72
AH-210-DD	21000	16000-40000	1			40	42.0	72X84
AH-240-DD	24000	17400-49800	1			44	48.0	72X96
AH-320-DD	32000	20000-60000	1			49	72.0	96X108
AH-400-DD	40000	30000-65000	1			54	88.0	96X132
AH-480-DD	48000	37000-91000	1			60	104.0	96X156
AH-600-DD	60000	45000-109000	1			66	130.0	120X156
AH-700-DD	70000	55000-130000	1			73	138.3	120X166

UNIT MODEL	NOMINAL	CFM			DARD FANS			/COOLING DILS
NO.	CFM	RANGE		MAX. PR	ESSURE			E FACE COIL
			NO.	LOW 2"	MED. 5"	8"-9"	SQ. FT.	H" X W"
				DIA.	DIA.	DIA.		
AH-20-PF	2000	1600-4600	1	PF	PF	PF	5.6	25X32
						14		
AH-60-PF	6000	4000-8200	1			18	13.3	40X48
AH-80-PF	8000	5000-14600	1			24	20.0	48X60
AH-120-PF	12000	8000-25000	1			30	24.0	48X72
AH-150-PF	15000	9000-27000	1			33	30.0	60X72
AH-180-PF	18000	14000-33200	1			36	36.0	72X72
AH-210-PF	21000	16000-40000	1			40	42.0	72X84
AH-240-PF	24000	17400-49800	1			44	48.0	72X96
AH-320-PF	32000	20000-60000	1			49	72.0	96X108
AH-400-PF	40000	30000-65000	1			54	88.0	96X132
AH-480-PF	48000	37000-91000	1			60	104.0	96X156
AH-600-PF	60000	45000-109000	1			66	130.0	120X156
AH-700-PF	70000	55000-130000	1			73	138.3	120X166

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NOTES: NOTES: 1. 1 1/2 INLET AND DISCHARGE DUCT FLANCES. 5. SERVICE ACCESS PANELS MUST NOT BE 0. STRUCTED RECOMMENDED CLEARANCE 24 INCHES. 3. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.	C         D         E           38         19.5         4           49         22         4           61         25         4           61         25         4           61         25         4           79         33         19.5           90         32         4           107         41.5         6           1135         53         8           133         53         8

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<b>╶</b> ╼│-│ <del>╺</del> ──── <sup>¬</sup> ────►│	NOTES: 1. 1.1/2 INLET AND DISCHARGE DUCT FLANGES. 2. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED RECOMMENDED CLEARANCE 24 INCHES. 24 INCHES. 24 INCHES. 24 INCHES. 24 INCHES. 24 INCHES. 24 INCHES. 25 INCHES. 26 ONLY. 20 EXTOR REFERENCE USE ONLY. 20 EXTOR REFERENCE USE ONLY. 20 EXTOR REPORT TO CHANGE WITHOUT NOTICE.	MODEL         A         B         C         D         E           AH-20-FC         174         38         38         19.5         4           AH-80-FC         180         54         49         22.5         4           AH-80-FC         180         54         49         22.5         4           AH-80-FC         186         66         61         26         4           AH-80-FC         186         78         31         4           AH-150-FC         186         79         32.75         4           AH-150-FC         100         78         79         31         4           AH-150-FC         136         79         32.75         4         4           AH-150-FC         216         102         32         38         6         6           AH-130-FC         256         1112         50         38         6         8         4           AH-300-FC         256         162         112         50         10         8         6           AH-480-FC         256         162         133         55         59         10           AH-480-FC         336
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		RA FAN RA DAMPER (inch)         HEIGHTX WIDTH 12           12         20x24           15         25x40           18         30x42           20         30x60           22         30x60           23         40x72           30         40x72           30         40x72           31         40x72           32         55x90           40         55x108           43         55x134           54         55x134           55         55x134           54         55x134           54         55x134 <tr< td=""><td>-</td></tr<>	-
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	RETURN AIR FLOW AIR FLOW NOTES: 1. 1.1/2 INLET AND DISCHARGE DUCT FLANGES. 2. SERVICE ACCESS PANELS MUST NOT BE 0.055 THOLES. 2. SERVICE ACCESS PANELS MUST NOT BE 0.051 THOLES. 3. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.	MODEL AH-20-DD-RA AH-60-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-120-DD-RA AH-100-DD-RA A	By
	NOTES: 1. 1. 1. 2. SER 24 BST 24 DIME SUBJ		Rev

		PAGE 010R
		AMOTOR         RAF         IRA         MALE         ILTER         CONTROL           P)         (tuch)         HEIGHTX WIDTH         OTYSIZEX2"         OTYSIZEX2"         DTYSIZEX1"         PANEL SIZE           P)         12         20x24         2-16x25         2-16x25         1/2/12         24x24           8         15         20x40         2-24x24         2-4x24         24x24         24x24           6         18         30x42         4-24x24         4-24x24         24x30         24x30           10         27         40x60         6-24x24         5-24x24         24x30         24x30           10         27         40x60         6-24x24         1/2-24x24         24x30         24x30           10         27         40x60         9-24x24         1/2-24x24         24x30         24x30           10         27         40x60         9-24x24         24x30         24x30         24x30           11         24x24         12-24x24         24x30         24x30         24x30         24x30           11         36         55         16-24x24         24x24         24x30         24x30         24x30         24x30         254x31         24x30
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		ZA DAMPER           EIGHTX WIDTI           20x24           20x24           20x40           30x60           30x60           30x60           30x60           30x61           30x60           40x62           40x63           55x134           55x134           55x134           55x134           65x134           65x134           100N, HEAT           OON, HEAT           ICON, HEAT           ITE
		AMOTOR         R.A         FAREFILTER         FIREFILTER         FINA           P)         1(bcl))         HEIGHTX WIDTH         OTYSIZEK2"         OTYN           P)         12         20x24         22-16x25         2-16x           0         15         25x40         2-24x24         2-24x           0         16         25x40         2-24x24         4-24x           0         27         40x60         6-24x24         6-24x           0         27         40x60         9-24x24         10-29           0         27         40x60         9-24x24         10-20           0         27         40x60         9-24x24         2-24x           12         33         40x72         12-24x24         10-22           16         36         30         40x72         12-24x24         20-22           15         36         55x134         30-24x24         30-24x24         30-22           16         55x134         30-24x24         30-24x24         30-24x24         30-2           10         54         65x134         30-24x24         30-2         30-2           10         55x134         30-24x24         30-2<
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	NOTES: 1. 1/2 INLET AND DISCHARGE DUCT FLANGES. 2. SERVICE ACCESS PANELS MUST NOT BE 06STRUCTED RECOMMENDED CLEARANCE 24 INCHES. 3. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.	MODEL           AH+20-FC-           AH+80-FC-           AH+80-FC-           AH+120-FC           AH+120-FC           AH+120-FC           AH+120-FC           AH+120-FC           AH+120-FC           AH+120-FC           AH+130-FC           AH+1480-FC           AH+480-FC           AH+480-FC           AH+480-FC           AH+480-FC           AH+480-FC           AH+60-FC           AH+60-FC           AH+700-FC           AH+700-FC

		C-10
		NMOTOR         RAA         FREFILTER         FINAL         FILTER         CONTROL           P         12         20x24         OTYSIZEX2"         OTYSIZEX12"         PANEL SIZE           12         20x24         216x25         216x25         24x34         24x34           5         15         255x40         224x24.224x12         24x24         24x24           5         20         30x60         624x24         424x24         24x30           6         22         30x60         624x24         524x24.24x12         24x30           6         30         40x72         9-24x24.3-24x12         624x24         24x30           6         30         62x424         524x24.2-24x12         24x30         0           7         40x60         9-24x24.3-24x12         624x24         24x30         0           6         30         40x72         12-24x24         24x30         0         0           7         44         55x134         26-24x24         24x30         0         0         0         0         0         0         24x30         0         0         0         0         0         0         0         0         24x31
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		<ul> <li>FINAL FILTER</li> <li>OTYSIZEX12"</li> <li>2-16x55</li> <li>2-16x56</li> <li>2-24x24</li> <li>2-24x24</li> <li>2-24x24</li> <li>2-24x24</li> <li>12-24x24</li> <li>12-24x24</li> <li>12-24x24</li> <li>12-24x24</li> <li>20-24x24</li> <li>20-24x24</li> <li>20-24x24</li> <li>20-24x24</li> <li>30-24x24</li> <li>35-24x24</li> <li>35-24x24</li> <li>00B NO.</li> </ul>
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		TH OTVISIZEX2" 2-16x25 2-24x24 6-24x24 6-24x24 6-24x24 6-24x24 6-24x24 6-24x24 9-24x24 9-24x24 12-24x24
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	RETUR AIR FLC NOTES: E 1. 1/2 INLET AND DISCHARGE DUCT FLANGES. 2. SERVICE ACCESS PARLES MUST NOT BE 06STRUCTED RECOMMENDED CLEARANCE 24 INCHES. 3. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.	A         B         A         B         A           A         274         38         31
	L NLET V TE ACCE TE ACCE TE ACCE TE ACCE TE ACCE TO CH	L A 274 -RA 274 284 -RA 310 F-RA 310 770 770 770 770 770 770 480 480 480 480 480 480 480 480 480 48
	NOTES: 1. 1/2 2. SERVIC 24 INCH 3. DIMENS TOLERAN 5. UDLEVA	MODEL AH-20-PF-RA AH-60-PF-RA AH-120-PF-RA AH-150-PF-RA AH-150-PF-RA AH-150-PF-RA AH-150-PF-RA AH-100-PF-RA AH-100-PF-RA AH-100-PF-RA AH-100-PF-RA AH-100-PF-RA AH-100-PF-RA AH-100-PF-RA BY RE
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Image: constrained and constrai	D         E         F         G         H         I         J         K         L         M         MTGSCIC         CONTRACE         FINAL FILTER         FONT FILTER<
NOTES: NOTES: 1. 1.1/2 INLET AND DISCHARGE DUCT FLANGES. 2. SERVICE ACCESS PANELS MUST NOT BE DISTRUCTED RECOMMENDED CLEARANCE 24 INCHES. 3. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. FOR REFERENCE USE ONLY, SUBJECT TO CHANGE WITHOUT NOTICE.	MODEL         A         B         C         D           AH-20-BI-EH         209         38         38         19.           AH-20-BI-EH         209         38         38         19.           AH-80-BI-EH         215         54         49         22           AH-80-BI-EH         217         66         61         25           AH-150-BI-EH         221         78         90         33           AH-150-BI-EH         227         78         90         35           AH-150-BI-EH         239         78         90         35           AH-150-BI-EH         231         114         107         41           AH-150-BI-EH         231         138         109         44.           AH-30-BI-EH         231         138         109         44.           AH-30-BI-EH         231         133         103         53           AH-30-BI-EH         231         1162         133         53           AH-30-BI-EH         371         180         135         59           AH-400-BI-EH         371         180         135         59           Au         Au         371         180

PREILLERS FINAL FILTERS	6     Martine     OPTIONAL       6     Martine     Martine       6     Martine     Martine	D         E         F         0         H         1         J         K         L         M         HGG COII         CIANSTEE (PP)         TONTSTEEX27         TONTSTE
	NOTES: 1. 1.1/2. INLET AND DISCHARGE DUCT FLANGES. 2. SERVICE ACCESS PANELS MUST NOT BE OBSTRUCTED RECOMMENDED CLEARANGE 24. INCHES. 24. INCHES. 24. INCHES. 24. INCHES. 24. INCHES. 24. INCHES. 25. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANGES. FOR REFERENCE USE ONLY. SUBJECT TO CHANGE WITHOUT NOTICE.	MODEL         A         B         C           AH-20-DD-EH         242         38         38           AH-60-DD-EH         239         54         49           AH-61-DD-EH         251         66         61           AH-120-DD-EH         261         78         79           AH-120-DD-EH         261         78         79           AH-120-DD-EH         261         78         79           AH-120-DD-EH         281         78         90           AH-120-DD-EH         281         78         90           AH-120-DD-EH         281         78         79           AH-400-DD-EH         281         78         70           AH-400-DD-EH         355         114         107           AH-600-DD-EH         355         162         112           AH-600-DD-EH         371         180         135           AH-600-DD-EH         371         180         135           AH-600-DD-EH         371         180         135           AH-600-DD-EH         371         180         135           AN         AN-700-DD-EH         371         180         135

Previous de la construction de l	NOTES: I. 1.1/2 INLET AND DISCHARGE DUCT FLANGES: I. 1.1/2 INLET AND DISCHARGES: I. 1.1/2 INLET AND DISCHARGE DUCT FLANGES: I. 1.1/2 INLET AND DISCHARGES: I. 1.1/2 INLET AND DISCHARGES: I. 1.1/2 INLET AND DISCHARGES: I. 1.1/2 INLET AND DISCHARGES: I. 1.1/2 INLET AND DISCHARGES:	MODEL         A         B         C         D         E         F         G         H         I         J         K         L         M         HTS COLL GG COLL	LES CHK.BY DATE
	NOTES: NOTES: 1. 1 1/2 INLET A SERVICE ACCES OBSTRUCTED RE 24 INCHES. 3. DIMENSIONS AR TOLERANCES. FC SUBJECT TO CH		Rev By Revisi

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	R         FINAL FILTER           21         07Y/SIZEX12"           2-16x25         215x24           2-16x26         224x24           4-24x24         224x24           12         2-24x24           12         2-24x24           12         2-24x24           12         2-24x24           12         2-24x24           12         2-24x24           12-24x24         30-24x24           30-24x24         30-24x24           30-24x24         30-24x24           35-24x24         35-24x24           35-24x24         35-24x24           15-74x24         35-24x24           16-0.00LING WA         7           7 BLOWER         DONO.
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	SIA MOTOR SIA FAN RIA MOTOR RIA, FAN RIA DAMPER     PREF       (HP)     (Inch)     HEIGHTX WUTH     OTVI       2     12     1     12     20x24     P16x53       5     15     3     15     25x40     224x24       10     18     5     18     30x42     424x24       20     22     7.5     30     624x24       20     27     10     27     40x60     924x24       30     30     15     30     40x72     12-24x2       30     36     15     36     55x108     20-24x2       30     36     15     36     55x134     24-24x2       40     40     20     40x72     12-24x2       30     36     15     36     55x134     24-24x2       50     44     25     44     55x134     24-24x2       50     44     25     44     55x134     24-24x2       50     48     55x134     24-24x2     56-24x2       50     48     55x134     24-24x2       50     40     55     40     50-24x2       50     40     55     40     50-24x2       60     48     55x134
Standard Although and a standard and a standard a supply and a supply a sup	FAN RIA DAW           0         HEIGHTJ           20x24         20x24           20x42         20x42           30x60         30x60           30x61         40x72           55x134         55x134           55x134         65x134           55x134         55x134           55x134         65x134           55x134         65x134           55x134         65x134           55x134         65x134           10XC         65x134           10XTE         10XTE           10ATE         10ATE
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│	HTG COIL CLU OTY/SIZE OT 1-25x32 1-22 1-40x48 1-38 1-40x72 2-31 1-60x72 2-31 1-72x64 2-33 1-72x64 2-33 1-72x64 2-33 1-100x756 2-34 1-96x132 2-44 1-120x156 2-35 1-120x156 2-34 1-120x156 2
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FLANGES. T BE VCE ULACTURING AIR FLOW AIR FLOW	Π     4     4     4     4     4     0     0     0     0     0     0
LEARAGE DUCT CLEARAGE CLEARAGE CORE ON T NOTIC	D         D           25         25           26         28           33         33           33         33           53         33           53         53           59         53
ISCHARG NELS M MITHOL	B         C           54         49           66         61           78         78           78         78           78         78           78         79           90         90           90         90           102         112           122         112           182         103           182         103           192         112           162         113           180         135           180         135
T AND T AND T AND T AND T ARE COMPARE SOLUTION OF THE CHANGE CHANGE	A         B         A         B         A         B         A         B         A         B         A         B         A         B         A         B         B         A         B         B         A         B
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# MH Series™ Evaporative Humidifers



# Most cost-effective humidifier/cooler available today.



data centers laboratories manufacturing institutional research facilities commercial automotive Productivity and quality of life are directly affected by the indoor environment. People work better and feel better in favorable surroundings. So do products and machines! They all respond in various ways to changes in air quality, temperature and humidity. All three elements must be just right to maximize performance and reliability, both in humans and equipment. Correct humidity is critical, since too much humidity can be as destructive as too little.

Walter Meier is a world leader in state-of-the-art humidification technology. Our focus is concentrated exclusively on designing and building better humidification systems. Every MH model has been engineered to meet the highest standards of cost-effective efficient performance. They are designed for ease of installation, adaptability, simplicity of operation, ease of maintenance and servicing, energy efficiency, cleanliness and longterm reliability.

MH evaporative humidifiers offer complete application flexibility to systems engineers, contractors and customers. They can be integrated into central air handling units or ventilation ducts.

With its stingy energy consumption the MH Series is a perfect compliment towards Green/LEED building design.

- ► High humidification efficiency
- ► Hygiene friendly
- ► Free evaporative cooling
- Safe polyester media
- Complete packaged system

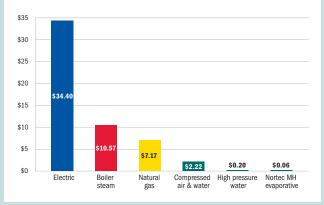


#### **Economy**

The V-Profile polyester media intensifies the evaporation process providing exceptionally high performance and efficiency. The large surface of the evaporation media results in a high evaporation rate with low energy consumption. The MH Series offers humidification efficiencies of up to 85 and 95%. The MH Series is suitable for high duty applications and when applying the Reflow model, the system captures the non-evaporated water and returns it to the water circulation system for reuse. The increased water efficiency has a very quick payback for building owners.

Saving water and energy as well as reducing operating costs is an important challenge in today's world. The MH Series not only humidifies but can cool the air by up to 22°F (12.5°C) at high humidification efficiency and at a low cost.

Energy Cost for 1000 lbs./hr based on technology



# **V-profile Media**

The core element of the MH unit is the patented humidifier box located in the air duct. Dry air flows through the box, water flows over the hygroscopic media and the extremely large wet surface releases humidity to the air. This method enables air humidifying or cooling with limited electrical energy. The V-profile humidifier box consists of synthetic media with an impressed V-profile which enables a more intensive exchange of air and water. MH V-Profile Cooling Media

- Hygroscopic Coating
- High Velocity Performance
- Low Pressure Losses
- ▶ UL 900 Class 1 Rating
- Suitable for DI/RO
- No Droplets, Free of Aerosols









### **Total Control (TC) System**

The TC system offers the most complete control of any evaporative humidifier / cooler on the market today! The integrated processor with real-time clock controls the air humidity, smart water management featuring UV treatment and conductivity monitoring, plus advanced hygiene cycles and staging operations.

- Smart Water Management
- Advanced Hygiene Control
- Internet Monitoring & Control
- BMS Interoperability
- Full Function Operating Panel
- NRTL-C Approved



### Models

The MH Series is available in two basic versions. The **FLOW** model with direct water drainage and the **REflow** model for water recirculation. Whether to use a flow or REflow system depends considerably on the primary application of humidifying or cooling and the supplied water quality.



The **REflow** model contains a circulation pump that conveys the water via EPDM plastic hose to the spray beam located above the humidifier box. The water then trickles vertically through the boxes. The water not needed for humidifying flows back into the water basin where it is collected and recuirculated for optimal water efficiency.

In the **FLOW** model, the water is not collected in the water basin, but is discarded and flows directly into the drain.

Operates on DI/RO, Potable, Soften WaterImage: Soften Water </th <th>Features Comparison</th> <th>MHB Flow</th> <th>MHTC Flow</th> <th>MHB REflow</th> <th>MHTC REflov</th>	Features Comparison	MHB Flow	MHTC Flow	MHB REflow	MHTC REflov
Direct Water System••••ITotal Control (TC) System with Full Backlit Display••••••On/Off control system••• <td>Operates on DI/RO, Potable, Soften Water</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	Operates on DI/RO, Potable, Soften Water	•	•	•	•
Total Control (TC) System with Full Backlit DisplayImage: State S	Circulation Water System			•	•
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Adjustable Flush CyclesImage: Constraint of the section	On/Off control system	•		•	
Pre-cleaning SequenceImage: s	Smart Water Management System		•		•
Smart Media Box DryingImage: Smart Box	Adjustable Flush Cycles		•		•
Modbus BMS host protocolImage: Second control 1, 2 or 3 StageImage: Second contr	Pre-cleaning Sequence		•		•
Programmable Maintenance SettingsImage: M	Smart Media Box Drying		•		•
Step-Control 1, 2 or 3 StageImage: Step-Control 0, 2 or 3 StageImage: Step-C	Modbus BMS host protocol		•		•
Multi-Unit NetworkingImage: Constraint of the sector of the s	Programmable Maintenance Settings		•		•
Display and Control of RHImage: Section 1 and the section 2	Step-Control 1, 2 or 3 Stage		•		•
Multiple Control Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceOperation History LogImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceReal Time InformationImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceAdjustable Capacity of Nominal OutputImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceRemote Fault IndicationImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceStainless Steel ReservoirImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceStainless Side framesImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceV-Profile Polyester Media (above 750 fpm)Image: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal Acceptance2 Year Limited Warranty *Excluding MediaImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal Acceptance2 Year Limited Water TreatmentImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal AcceptanceImage: Signal A	Multi-Unit Networking		•		•
Operation History LogImage: Section 4 and the section 4 and	Display and Control of RH		•		•
Real Time InformationImage: Section of the section of th	Multiple Control Signal Acceptance		•		•
Adjustable Capacity of Nominal OutputImage: Section of Constraints of C	Operation History Log		•		•
Remote Fault Indication••••••••Stainless Steel Reservoir••••••••Stainless Side frames••••••••V-Profile Polyester Media••••••••Nist Eliminator V-Profile Polyester Media (above 750 fpm)••••••••2 Year Limited Warranty *Excluding Media••••••••Conductivity Smart Monitoring••••••••Ultra Violet Water Treatment•••••••Nortec LINKS BMS Interoperability - BACnet, Lon Talk, Modbus•••••	Real Time Information		•		•
Stainless Steel Reservoir••••Stainless Side frames•••••V-Profile Polyester Media••••••Mist Eliminator V-Profile Polyester Media (above 750 fpm)••••••2 Year Limited Warranty *Excluding Media••••••••Conductivity Smart Monitoring••• <td>Adjustable Capacity of Nominal Output</td> <td></td> <td>•</td> <td></td> <td>•</td>	Adjustable Capacity of Nominal Output		•		•
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	OnLine - Internet Monitoring and Control		ο		о

#### **Ultra Violet Sterilization**

For applications where higher hygienic requirements must be met an optional UV package is available. The ultra violet radiation from the discharge lamp sterilizes the water and controls potential microbial build up. Both Flow and REflow models can be fully equipped.

#### **Conductivity Monitoring**

Conductivity monitoring will continuously check the Total Dissolved Solid (TDS) content inside the water tank. The adjustable conductivity sensor then initiates drains accordingly. This feature is available for the REflow models only.

#### Controls

We offers a wide range of digital controls when selecting the MH product. The total controller allows easy integration into any local building management system with it's host protocol modbus. See Nortec LINKS2 and Online for other communication options.



Specification	
Media Box Efficiency max.	85% and 95%
Maximum Face Velocity over Media	750 fpm (3.8 m/s)
Maximum Face Velocity with Integral Mist Eliminator	1080 fpm (5.5 m/s)
Pressure Drop at 500 fpm	0.25 IWC (62 Pa)
Fire Protection Rating	UL 900 Class I
Power supply pump (REflow, REflow C, REflow SC)	120 VAC/1, 50 and 60 Hz
Power consumption	0.2 - 0.6 kw
Water supply pressure	30 - 145 psi
Unit Height	26" (650mm) - 130" (3300mm)
Unit Width	24" (610mm) - 130" (3300mm)
Unit Depth	30" (575mm)
Standards and guidelines	UL 900 Class 1 and NRTL Approval

#### **INSTALLATION FEATURES & REQUIREMENTS**

 Pre-assembled hydraulic package for quick installation

 Only three connections to be made- water, drain and electrical

 REflow pump model powered by a 120 V 1phase 60Hz connection

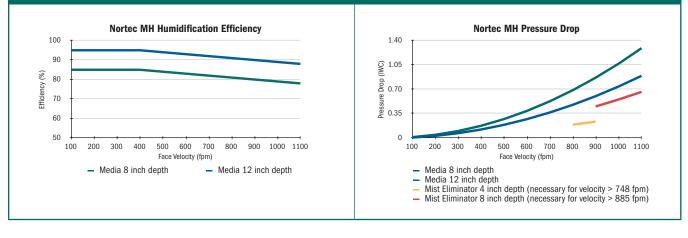
 Stainless steel water tank and lateral supports

 Media boxes can be installed in seconds

 Footprint not to exceed 3" top and 2" side clearance from AHU/duct wall



#### PERFORMANCE



# **AH SERIES SPECIFICATIONS**

# CASING

The unit exterior casing shall be heavy gauge G90 rated bonderized steel. Unit roof shall feature standing seam construction. The entire unit casing shall be insulated with 1-in. thick 1.5-lb. (2-in. thick 1.5-lb.) fiberglass insulation with hard neoprene backing in a sandwich wall fashion (22-gauge solid liner). The unit exterior shall be finished with industrial enamel (catalyzed epoxy) paint. An integral welded iron channel frame shall support the unit casing. The structural iron frame shall be sandblasted, primed and finished with industrial enamel (catalyzed epoxy) paint.

# **BLOWER/MOTOR SECTION**

The fan section and motor assembly shall be constructed in accordance with the requirements of the Air Moving and Conditioning Association (AMCA). The assembly shall be designed to house the fan(s), bearings, motor, and v-belts, which shall be selected for at least 50% above the rated motor capacity. The fan(s) and motor shall be mounted on a welded unitary base made of angle iron frame. The frame shall be sandblasted, primed and finished with industrial enamel (catalyzed epoxy) paint. The unitary base shall be provided with seismic spring vibration isolation. The blower section shall have a hinged access door with Ventlock handles to allow easy maintenance of filters and belts. The NEMA T-Frame motor shall be mounted on an adjustable base located within the fan section. The blower wheel shall be statically and dynamically balanced, and mounted on a turned, ground and polished shaft with rigid bearing supports. The shaft shall be designed with a maximum operating speed not exceeding 75% of the first critical speed. The bearings shall be split taper lock ball bearing type L20 minimum life of 100,000 hours (L10 200 kHr).

Fan performance shall be based on tests conducted in accordance with AMCA Standard Test Code for Air moving Devices. (All fans shall have sharply rising pressure characteristic extending throughout the operating range and continuing to rise well beyond the efficiency peak to assure quiet and stable operation under all conditions. Horsepower characteristics shall be truly non-overloading and shall reach a peak in the normal selection area.) Fan manufacturer shall provide sound power ratings in the eight octave bands, which shall be based on AMCA Standard 300-67, test, setup number one. Sound power ratings shall be referenced 10-12 watts. A factory dynamic balance shall be made on all fans after their assembly. An IRD or PMC analyzer shall be used to measure velocity, and the final reading shall not exceed 0.1 inches per second. The exact level of vibration shall be recorded on the fan as proof of the final dynamic balance at the factory.

# **COOLING CONTROLS**

Cooling control shall be achieved via a Honeywell T775 multi-stage sequencer. The sequencer shall be controlled with an analog signal provided by the discharge air thermostat. As the discharge air thermostat requires cooling the signal shall increase, thereby turning on the stages at specific set points. The set points shall be set with appropriate offset and differential to ensure accurate discharge temperature is maintained. The stages are to be sequenced without turning on and off of compressors to minimize unnecessary wear on the compressors. Upon sensing a call for cooling from the space, the compressors shall provide full cooling until the space sensor is satisfied, upon which time the cooling shall revert to discharge air control. A low discharge temperature set point with a large differential shall

be set to prevent the compressor from cycling on and off. The compressor will remain on low setting until cooling is disabled manually or the ambient temperature falls below the minimum set point.

# ELECTRICAL CONTROL EQUIPMENT

Electrical assembly and components shall be in strict accordance with the latest provisions and requirements of the National Electric Code. Control cabinet shall be designed and constructed to ETL specifications. A safety disconnect switch shall be mounted on the unit. The controls shall be located in a weatherproof cabinet. Provisions for service padlocking shall be provided. The following items shall be located within the cabinet: fuses, starters, control relays, timing and holding relays, resistors and numbered terminal strips. All components shall be labeled and cross-referenced to control and field wiring diagrams. The control circuit shall be 24V, single phase. Wiring shall be neatly run in "PANDUIT" wiring duct. Low and/or line voltage thermostats shall be furnished shipped loose for installation by others. Unit shall be equipped with automatic low limit freeze protection with bypass timer.

# DAMPERS & FILTER SECTION

The dampers are to be galvanized steel (aluminum airfoil low leak) type (with seals). The dampers shall be equipped with 2-position (modulating) actuators. The filters shall be 2" pleated throwaway type with minimum of 85% arrestance and 30% efficiency. Filter access shall be through a latched and gasketed access doors located on both sides of the unit. (Final filters shall be 4 or 12 inch high efficiency cartridge filters.)

# **REMOTE CONTROL PANELS**

Remote NEMA 1(12) locking control panel shall be equipped with summer/off/winter switch and blower on, burner on, flame failure and loaded filter lights. (A remote adjustment potentiometer shall control damper positioning.) (An LCD display shall provide system temperature and set points.)

# FLUID COILS

Fluid coils are intended for use with water, glycol, or other appropriate heat transfer fluids. Coils are to be designed to maximize performance under specified conditions with minimal air-side pressure drop. All water coils designed with 1/2" or 5/8" tubes are to be ARI performance certified and shall bear the ARI symbol.

Tubes and return bends shall be constructed from seamless UNS C12200 copper conforming to ASTM B224 and ASTM E527. Properties shall be O50 light annealed with a maximum grain size of 0.040 mm.

Tubes are to mechanically expanded into fins (secondary surface) for maximum heat transfer. Materials are to be 3/8" diameter x (0.014, 0.022) wall thickness, 1/2" diameter x (0.016, 0.025) wall thickness, or 5/8" diameter x (0.020, 0.025, 0.035, 0.049) wall thickness.

Secondary surface (fins) shall be of the plate-fin design using aluminum or copper, with die-formed collars. Fin design to be flat, waffle, or sine-wave in a staggered tube pattern to meet performance requirements.

Collars will hold fin spacing at specified density, and cover the entire tube surface. Aluminum properties are to be Alloy 1100 per ASTM B209, with O (soft) temper; copper is to be Alloy 11000 per ASTM B152-06 with soft (anneal) temper. Fins are to be free of oils and oxidation.

Headers are to be constructed of seamless UNS C12200, Type L (drawn) copper material sized to match specified connection size. Type K (drawn) copper headers and Schedule 40 steel headers shall be offered as optional materials.

Die-formed copper end caps are brazed on the inside of the headers, unless spun-closed (for sizes up to 1-3/8"). 1/4" vents and drains are to be provided for all fluid coils.

Connection material shall be copper, or Schedule 40 steel or red brass pipe. The type of connection is to be sweat type, MPT or FPT, grooved, or flanged as required.

Coil casing material shall be of G90 galvanized steel, 16 gauge minimum. Heavier material, stainless steel, copper, or aluminum casing are to be provided as required.

Intermediate tube supports are to be provided on all coils 48" and longer fin length. Coil casing on top and bottom of coils are to have double-flange construction, allowing for vertical stacking of coils.

All coils are to be brazed with minimum 5% silver content (BCup-3) filler material to insure joint integrity. Low-fuming, flux-coated bronze braze-weld material is to be used for ferrous to non-ferrous joints.

Coils shall be tested at 550 psig using dry nitrogen, submerged under water. Dual-operator verification shall determine that all coils are leak-free.

Fluid coils shall be designed to withstand 300°F maximum operating fluid temperature, and 250 psig maximum operating pressure.