



**MODULAR AIR TOWER (MAT):**

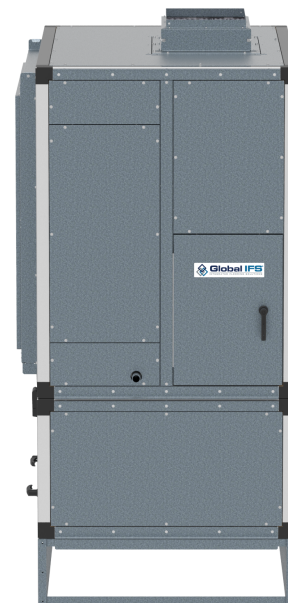
**PRODUCT DESCRIPTION**



Modular Air Tower (MAT), is a vertical air handling unit used to condition air for an Under Floor Air Distribution (UFAD) system in Raised Access Floor (RAF) applications. MAT is designed to be installed vertically in the mechanical space rather than horizontally, allowing to potentially reducing the size of the mechanical room and increase the usable occupancy space. The design of MAT allows a wide range of customisation as per specific needs. MAT is versatile and available in three cabinet variations with discharge air flow ranges between 2000 to 14000 CFM.

**SPECIFICATIONS**

Unit is made of G 90 galvanized steel. Bases are minimum 16 - gauge, and corner posts, access panels and top pans are minimum 20 - gauge. Hardware is non-corroding. Air handler constructed with modular tube and galvanized sheet metal panels, double-wall with fiber glass insulation. Unit is designed to fit a 1/2" cooper tube and aluminum fin with galvanized steel casing chilled water coil and single or dual direct drive backward - inclined blowers with EC motors. Filter options include 2-inch MERV 8 or MERV 13 filter housings with slide-in tracks. Special bypass return air damper with filter is provided for reheat purposes with 2-inch filter MERV 8 or MERV 13 option. Connections for ductwork and electric power are provided. Controls, valves and hydronic specialties are not included.



\*SIDE VIEW

Project Name and Number:

Description:

MODULAR AIR TOWER(MAT)

Engineer:

Submission  
Date :

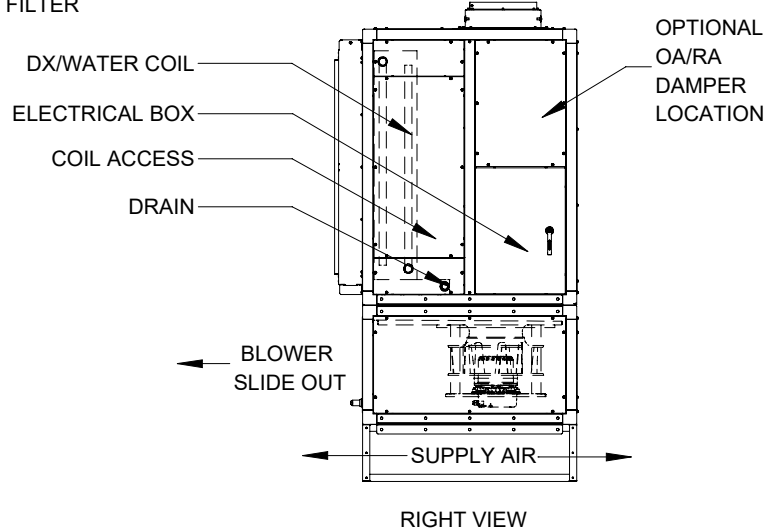
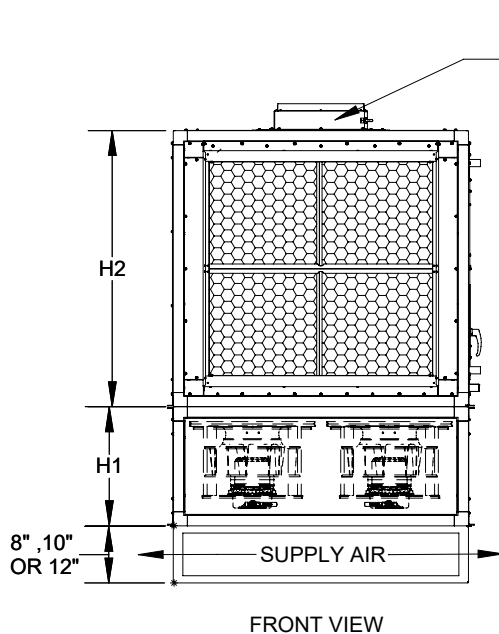
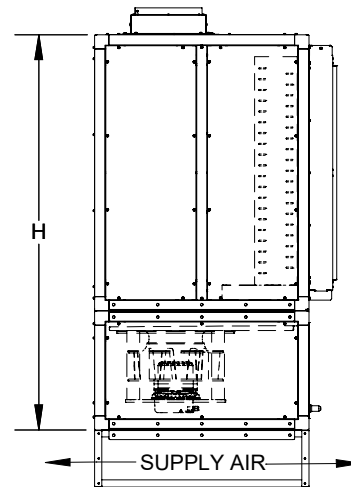
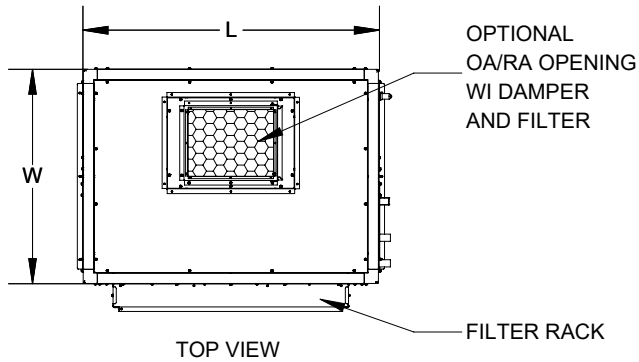
**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF  
Global IFS. ANY REPRODUCTION IN PART  
OR AS A WHOLE WITHOUT THE WRITTEN  
PERMISSION OF Global IFS IS  
PROHIBITED.

Dwg Release:

Sheet:

Size:  
Letter

**MAT DIMENSIONS:**

**MAT CABINET SIZE AND AIRFLOW**

MODEL	RATED CFM	SUPPLY FAN	L	W	H	H1	H2	DAMPER SIZE	COIL SECTION WEIGHT (lbs)	BLOWER SECTION WEIGHT (lbs)	FRAME WEIGHT (lbs)	COIL SECTION SHIPPING WEIGHT (lbs)	BLOWER SECTION SHIPPING WEIGHT (lbs)
A CABINET	2000-3500	SINGLE	55"	45"	73"	25"	48"	14" X 14"	550	280	39	608	377
B CABINET	3500-7000	SINGLE/DUAL *	62"	45"	83"	25"	58"	14" X 14"	580	295	43	645	403
C CABINET	7000-14000	DUAL	83"	58"	108"	30"	78"	20" X 20"	911	443	62	1001	595

\* B CABINET SINGLE FAN AIRFLOW RANGE = 3500-5000CFM / B CABINET DUAL FAN AIRFLOW RANGE = 5000-7000CFM

Project Name and Number:

Description:

MODULAR AIR TOWER(MAT)

Engineer:

Submission Date :

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF Global IFS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF Global IFS IS PROHIBITED.

Dwg Release:

Sheet:

Size: Letter



**MODULAR AIR TOWER(MAT) OPTIONS:**

1. CABINET:

- ☐ A CAB  
☐ B CAB  
☐ C CAB

2. AIRFLOW: \_\_\_\_\_

3. COOLING COIL:

- ☐ CHILLED WATER  
☐ DX

4. COIL CONNECTION:

- ☐ RIGHT HAND COIL  
☐ LEFT HAND COIL

5. HEATING COIL:

- ☐ NONE  
☐ HOT WATER - 2 ROW COIL  
COPPER/ALUMINUM (REHEAT  
POSITION)

6. VOLTAGE OPTIONS:

- ☐ 208 V - 3 PHASE - 60 HZ  
☐ 230 V - 3 PHASE - 60 HZ  
☐ 460 V - 3 PHASE - 60 HZ

7. DISCONNECT:

- ☐ REQUIRED  
☐ NOT REQUIRED

8. COMETER, 24V TRANSFORMER AND  
ENCLOSURE (AIR FLOW MEASURING):

- ☐ REQUIRED  
☐ NOT REQUIRED

9. BYPASS DAMPER OPTIONS:

- ☐ 14"X14" FOR TYPE A AND B  
☐ 20"X20" FOR TYPE C  
☐ NOT REQUIRED.

10. OUTDOOR AIR DAMPER OPTIONS:

- ☐ NONE  
☐ SINGLE OA  
☐ DUAL OA  
\* DAMPER ACTUATOR NOT INCLUDED

11. RETURN AIR FILTERS:

- ☐ 2" - MERV 8  
☐ 2" - MERV 13  
☐ APPLIED SPECIAL

12. MAINTENANCE OPTIONS:

- ☐ NONE  
☐ CONDENSATE OVERFLOW  
SWITCH

13. BASE FRAME:

- ☐ 8" BASE  
☐ 10" BASE  
☐ 12" BASE  
☐ CUSTOM

**ELECTRICAL DATA**

MODEL	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP	MCA	MOP
	SINGLE 350 FAN		SINGLE 450 FAN		SINGLE 500 FAN		DUAL 450 FAN		DUAL 500 FAN		DUAL 560 FAN	
A-CAB												
208/230V	10.3	15	11.5	20								
460V	5.8	15	8.3	15								
B-CAB												
208/230V			11.5	20	11.5	20	20.7	25				
460V			8.3	15	8.8	15	14.9	20				
C-CAB												
208/230V							20.7	25	20.7	25	22.5	30
460V							14.9	20	15.8	20		

Project Name and Number:

Description:

MODULAR AIR TOWER(MAT)

Engineer:

Submission  
Date :

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF  
Global IFS. ANY REPRODUCTION IN PART  
OR AS A WHOLE WITHOUT THE WRITTEN  
PERMISSION OF Global IFS IS  
PROHIBITED.

Dwg Release:

Sheet:

Size:  
Letter