

INTRODUCTION

The BluTree SAM (Stable Air Movement) line of high efficiency air handlers deliver an alluring blend of superior performance and robust energy savings. The system utilizes either configurable water-air heat exchangers or electric heating to reduce energy costs.



Each indoor space has unique heating, cooling and air movement requirements. The variable speed blower is programmed to move air at the optimal rate to provide comfortable air circulation throughout your space. For maximum energy efficiency, our air handlers are typically coupled with hydronic heat pump systems which can recover heat energy that is able to be reused.

Products

- SAM Mini
- SAM 18
- SAM 21
- SAM X
- SAM 'Can' filter and filter rack
- Hydronic coil and electric heating assemblies

APPLICATIONS

SAM units are modular and are configured to suit project requirements. Units can be matched with heat pumps and boilers on a hydronic energy loop. This flexibility allows SAMs to be adapted for a variety of uses in different spaces. From multi-family suites to large green houses, the systems are engineered to maximize user control and energy savings. Filtered fresh air is constantly introduced into the return air flow, ensuring the best possible indoor air quality.

ACCESSORIES AND OPTIONS

CONTROL SYSTEM

Utilizing high quality control units and Proprietary Control methods from years of research & development to maximize energy efficiency and comfort.



HEAT RECOVERY

SAM air-handling units can be coupled with four-pipe hydronic systems, which allows for high-efficiency heat recovery throughout your building.

DEHUMIDIFICATION

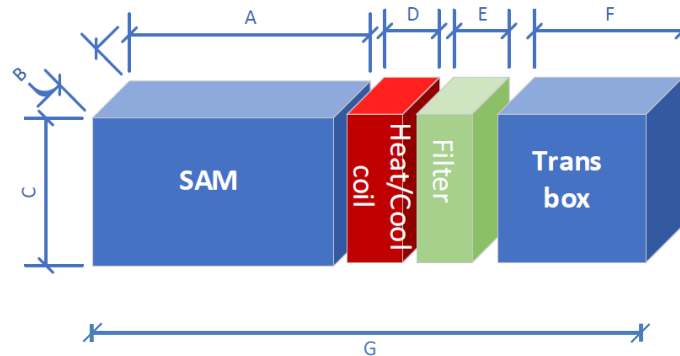
SAM units can include cooling, dehumidification and reheat coils for humidity control in high latent heat applications such as greenhouses.

FRESH AIR AND FILTRATION

Pleated panel filters are provided as standard accessories. For increased air filtration needs, our units can be supplied with electronic, UV or activated carbon filtration.



SPECIFICATIONS AND DIMENSION DATA



Size (in.)	A	B	C	D	E	F	G*
SAM-Mini	17	40	9.75	18.5	1.5	N/A	37
SAM-18	32	18	18	8	4	18	62
SAM-21	21	21	21	10	4	18	53
SAM-X(A)	27	27	27	Note 1	Note 2	27	N/A
SAM-X(B)	27	27	27	Note 3	Note 4	27	N/A


NOTE: Typical dimensions are shown. These are customized units, so other combinations of orientation and overall dimensions are available upon request.

NOTE 1: size for coil box A in inches: Height 85.6" Width 18.5" Depth 32.8"

NOTE 2: size for filter box A in inches: Height 85.6" Width 4.5" Depth 32.8"

NOTE 3: size for coil box B in inches: Height 44.9" Width 18.5" Depth 25.4"

NOTE 4: size for filter box B in inches: Height 44.9" Width 4" Depth 25.4"

Certification – Each unit is  approved prior to leaving our manufacturing facility.

NOMINAL PERFORMANCE DATA

	SAM-Mini small	SAM-Mini big	SAM-18	SAM-21	SAM-XA	SAM-XB
Minimum Heating Capacity (Btu/hr)	9008	TBD	38,000	25,000	270,000	180,000
Max. Heating Capacity (Btu/hr)	14000	19,830	50,000	74,000	525,000	350,000
Minimum Cooling Capacity (Btu/hr)	TBD	TBD	11,000	14,000	150,000	100,000
Max. Cooling Capacity (Btu/hr)	19970	30,600	23,000	31,000	300,000	200,000
Min. Airflow (cfm)	518	518	800	1,400	2,000	2,000
Max. Airflow (cfm)	604	604	1,600	2,200	3,000	3,000
Max. Static Pressure (in. H ₂ O)*	0.7"	0.7"	1.25"	1.25"	1.25"	1.25"
Net Weight (lb)						
Electrical Supply (V/Ph/Hz)	120/1/60	120/1/60	240/1/60	240/1/60	240/1/60	240/1/60
MCA	15	15	15	15	15	15
RLA			6	10		

NOTE: Typical capacities are shown. These are customized units, so other combinations of performance and capacity may be available upon request.

*Static pressure includes requirement for filter and coil, so external static pressure capabilities will be lower.

BluTree Indoor Climate Systems Inc.
105 – 7188 Progress Way Delta, BC V4G 1M6
604.946.4321
sales@blutree.ca
www.blutreeclimate.com

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