

**HORIZONTAL SINGLE AND DOUBLE WALL ECM DIRECT DRIVE AIR HANDLER  
ECH UNITS**

DX OR CHILLED WATER COOLING  
WITH HOT WATER OR ELECTRIC HEAT



**MADE IN USA**



**SIZES FROM 600 CFM TO 9,000 CFM**

All Technical Specifications are Subject to  
Change without Notice. For more information  
contact Customer Service Phone  
(817)624.0820 Fax (817)624.8581

## STANDARD FEATURES

### CONSTRUCTION

- Single and Double wall post and panel construction from heavy gauge galvanized steel.
- 1" Insulation sandwiched between double wall galvanized panels.
- 1" foil faced insulation on single wall units.
- IAQ drain pan sloped 3-ways.
- Drain pans made from 304 stainless steel.
- Integral auxiliary drain pan.
- Both sides of cabinet include gasket, service access panels.
- Factory installed mounting rails provided for unit suspension system on units up to 3000 cfm. Capped Knockouts to be provided for units over 3000 cfm and larger to accommodate threaded rods to pass through unit corners
- All cabinet parts are assembled with stainless steel hardware.
- All access panels can be removed while unit is suspended without affecting the unit's structure.

### BLOWER ASSEMBLY

- High efficiency ECM motors with forward curved DWDI fans provide up to 40% energy savings over PSC motors.
- All blowers are mounted to 12-gauge support channels on rubber isolators.
- Blower exits cabinet through flexible rubber isolators.
- A discharge duct flange is provided.

### FILTER SECTION

- 2" or 4" TA flat filters are standard on all units.

### COIL SECTION

- 3/8", 1/2" & 5/8" O.D. seamless copper tube on sizes 24 to 240
- Coil and drain pan assembly slides into cabinet from either side of unit for left hand or right hand piping and electrical connections.
- Units can accept up to 10 rows of coil without modification.
- Manual air vents are accessible

### STANDARD MOTORS

- Direct drive ECM fans start and stop with a ramp-up, reducing start-up sounds, and can be tuned to operate at just the right speed for less noise. Without belt losses, they are 5% or more efficient than belt drive systems.
- 115/230v 1ph, 277v 1ph, 208/230/460v 3ph.
- All units are ETL listed.
- Consult factory for single phase motors mounting options.

## OPTIONAL FEATURES

### CONSTRUCTION

- Liner options include stainless steel or Anti-microbial coating. (double wall only)
- Powder coated cabinet.
- Pre-painted steel cabinet on units up to 4000 cfm
- 1/2" foil faced and 7/8 closed cell are offered on single wall units.

### FILTER SECTION

- 2" pleated (30%), 4" pleated (65%, 85%, 95%).

### -MIXING BOXES

- \*MB3-\*\* Mixing Box with 3 position Manual Control (Non filtered)
- \*MBM-\*\* Mixing Box suitable for Modulating Actuator Control (Non Filtered)
- \*FMB3-\*\* Filtered Mixing Box w/3position Manual Control (2" TA Filter)
- \*FMBM-\*\* Filtered Mixing Box w/ suitable for modulating Control (2" TA Filter)
- \*FS-\*\* Return Filter Sec. w/ MERV-7 30% Pre Filter & MERV-11 65% Fin. Filter
- \*DFS-\*\* Discharge Filter Section w/12" MERV-15 & 95% HEPA Filters
- \*MSS-\*\* Motor Stop/Start Station
- VDP\*\* Vertical Discharge Plenum
- VRG\*\* Return Grill for Vertical Unit

### ELECTRIC HEAT SECTION

- Factory Supplied for Field Mounting
- Reheat Configurations.
- Single point power connection.
- Custom staging and controls.
- Available Voltages: Single phase (115v, 230v, 277v)  
Three phase (208v, 230v, 460v, 575v)

VFD'S - Variable Frequency Drives

Available for Field installation.

### COIL SECTION

- 2, 4, 6, 8 or 10 row coil options. (8 row max on 180/240)
- Heating coils are factory installed in preheat or reheat positions.
- Steam coils-Low Pressure, less than 5 PSI.
- Optional tube diameters.
- E-coated coil option
- Optional stainless steel end plates.
- Face split, row split, intertwined circuiting available.
- Face and bypass dampers.
- Automatic air vents.

### MOTOR OPTIONS

- TEFC
- High efficient.
- 2-speed 2-winding.
- 575 volt

## GUIDE SPECIFICATIONS

### Unit Description:

Horizontal direct drive ECM motors with optional chilled water, hot water, steam or DX coils. Galvanized steel cabinet can be double or single wall construction. Unit designated to be installed in above ceiling space. Units have full service access from both sides of the cabinet.

### Quality Assurance:

Coils are factory tested under water at 500 psig for operating pressures to 400 psig. Insulation and adhesive shall meet the NFPA-90A standard for smoke and flame spread.

### Delivery, Handling and Storage:

Units have to be stored and handled in accordance with equipment manufacturer's recommendations.

## PRODUCTS

### Equipment:

- A. Factory assembled, horizontal, draw-thru blower coil units, for installation above the ceiling. Units shall be complete with chilled or hot water, steam or DX coils, fans and motor, belt and drives, drain pan and filter rack to accept 2" or 4" TA filters.

### Cabinet, Single wall:

- B. Post and panel construction shall be from heavy gauge galvanize steel, lined with 1" 1.5 lb density and 0.5" as an option fiber glass Thermal acoustical insulation 7/8" closed cell is offered as an option too. Unit sizes 024 to 060 include a factory mounted suspension rail mounted to the bottom of the unit. Capped Knockouts to be provided for units over 3000 cfm and larger to accommodate threaded rods to pass through unit corners. Supply and return flanges to be 1" long. Large removable access panels shall be on both sides of unit.

### Cabinet, Double wall:

- C. Post and panel construction shall be from heavy gauge galvanize steel, lined with 1" 1.5 lb density fiber glass Thermal acoustical insulation, lined with smooth galvanized steel. Unit sizes 024 to 060 include a factory mounted suspension rail mounted to the bottom of the unit. Capped Knockouts to be provided for units over 3000 cfm and larger to accommodate threaded rods to pass through unit corners. Supply and return flanges to be 1" long. Large removable access panels shall be on both sides of unit.

### Drain Pan:

- D. The primary shall be stainless steel and include a built in overflow pan with a 1" MPT secondary

and a 1" MPT primary drain connection.

Secondary drain shall be galvanized or stainless steel to prevent corrosion should an overflow occur.

### Coil Section:

- E. Entire coil section cabinet shall be double wall lined with smooth galvanized steel for easy cleaning and coil removal.

### Blowers:

- F. Direct Drive DWDI (double with, Double Inlet) fan wheel shall be forward curved blades and be factory statically and dynamically balanced. Blower's drives shall consist of ECM Motor coupled directly into the blower. Blowers and scrolls shall be manufactured from galvanized steel.

### Coils:

- G. Coil tube diameters shall be 0.375", 0.50" or 0.625" OD copper tubes, aluminum fins mechanically bonded to the tubes and have a working pressure of 250 psig at 200 °F. Each water coil shall have manual air vents and sweat connections, which have to be accessible from the exterior of cabinet. Coils shall be circuited so they can be switched from right to left hand piping access while maintaining counter flow water circuiting.

### Motors:

- H. Motors shall be Open Type, Drip Proof, ECM Variable speed or constant torque motors, suitable for continuous duty at 130 °F; single phase motors are ramp up start, include automatic reset thermal over-load protection and are available in 115, 208, 230 and 277 volts. Three phase motors are available in 208, 230, 460 or 575 volts. Motors shall be direct mounted into the blower.

### Electric Heat:

- I. Electric heat shall be designed to mount at the discharge air openings of the unit. Electric heat are factory supplied for field installation and shall include a de-energizing magnetic control contactor per stage with a capacity of 48 Amps per circuit and include a secondary over-temperature switch. Heaters shall include fan-interlocking, power and control terminal boards with grounding lugs. An automatic limit switch shall provide over-temperature protection and a manual reset limit switch shall provide secondary over-temperature protection.

### Filters:

- J. Standard filter rack shall include 2" TA filters but are suitable for 4" TA filters. With options for 2" and 4" pleated filters. Filter racks have to be accessible from both sides.

# DIRECT DRIVE ECM MOTOR UNITS

## CAP DESCRIPTION MODEL NUMBER NOMENCLATURE - PAGE #1

HP	H	W	E	D	A	0	9	0	B	3	2	2	5	1	.	2	5	2	4	2	A	R	H	6
TYPE	MODEL				CM	SIZE			BS	CFM			ESP			COIL ROWS			RF	CN	MOTOR			
<p><b>UNIT TYPE</b></p> <p>HP HIGH PERF EC ECM MOTOR BD BELT DRIVE</p> <p><b>UNIT CONFIGURATION</b></p> <p>H HORIZONTAL V VERTICAL M MODULAR R ROOFTOP</p> <p><b>COOLING OPTIONS</b></p> <p>W CHILLED WATER X DIRECT EXPANSION 0 NO COOLING</p> <p><b>HEATING OPTIONS</b></p> <p>H HOT WATER S STEAM E ELECTRIC NO NO HEAT O HEAT</p> <p><b>UNIT INSULATION</b></p> <p>S SINGLE WALL 1" F F FIBERGLAS D DOUBLE WALL U SINGLE WAL 7/8" CLOSED CELL X SPECIAL</p> <p><b>CABINET MATERIAL</b></p> <p>A GALVANIZED STEEL B PRE-PAINTED STEEL C POWDER PAINTED</p> <p><b>UNIT SIZE</b></p> <p>024 24000 036 36000 048 48000 060 60000 090 90000 120 120000 180 180000 240 240000</p> <p><b>BLOWER SIZE OPTIONS</b></p> <p>1 9 X 4 2 9 X 6 3 9 X 9 4 10 X 10 5 12 X 12 6 15 X 11 7 15 X 15 8 18 X 18</p> <p><b>PRE-HEAT</b></p> <p>0 NO PH 1 1- ROW 2 2-ROW</p> <p><b>COOLING</b></p> <p>0 NO COOLING 2 2-ROWS 4 4-ROWS 6 6-ROWS 8 8-ROWS</p> <p><b>RE-HEAT</b></p> <p>0 NO RH 1 1- ROW 2 2-ROW</p> <p><b>REFRIGERANT</b></p> <p>A R-410A B R-22 C R-NU22 D R-134A 0 NONE</p> <p><b>PIPING CONNECTIONS</b></p> <p>R RIGHT HAND L LEFT HAND ALL CONNECTIONS ARE SET LOOKING THE UNIT IN THE AIR FLOW DIRECTION</p> <p><b>MOTOR SIZE AND VOLTAGE OPTIONS</b></p> <p><b>1ST DIGIT</b></p> <p>A 0.25 HP B 0.33 HP C 0.50 HP D 0.75 HP E 1.00 HP F 1.50 HP G 2.00 HP H 3.00 HP I 5.00 HP J 7.50 HP K 10.0 HP</p> <p><b>2ND DIGIT</b></p> <p>1 115/1 ODP/HE 2 208/1 ODP/HE 3 230/1 ODP/HE 4 277/1 ODP 5 208/3/60/ODP/HE 6 230/3/60/ODP/HE 7 460/3/60/ODP/HE 8 575 /3/60/ ODP/HE</p>																								

## DIRECT DRIVE ECM MOTOR UNITS

### CAP DESCRIPTION MODEL NUMBER NOMENCLATURE - PAGE #2

B	B	C	0	E	1	0	0	.	0	C	0	0	C	F	0	1	1
OAO	UNIT ACCS			V	EH KW				HTR ACCS			V	VFD ACC S	REV.		REV.	

**OUTSIDE AIR OPTIONS**

- O NONE
- A MIXING BOX W/ PLEATED FILTER 2"
- B MB W/ 3 POSITION CONTROL PACKAGE
- C MB W/MODULATING CONTROL PACKAGE
- E FACE & BYPASS DAMPER W/FILTER SEC.
- F 100% OUTSIDE AIR HOOD W/DAMPER
- G 30% OUTSIDE AIR HOOD W/DAMPER
- X SPECIAL

**UNIT ACCESSORIES**

- O NONE
- A PLEATED FILTER 2"
- B DISCHARGE GRILL PLENUM
- C RETURN GRILL AIR PLENUM
- MOTOR START STOP STATION
- F ROOF CURB 12"
- G ROOF CURB 14"
- X SPECIAL

**HEATER VOLTAGE**

- O NO HEATERS
- A 115/1
- B 208/1
- C 230/1
- E 277/1
- F 208/3
- G 230/3
- H 460/3
- J 575/3

**HEATER CAPACITY**

- 1.0 to 100.0 KW IN .1 Kw increments
- O NO HEATERS

**HEATER ACCESSORIES**

- O NO ACCESSORIES
- A Single point line Conn.
- B SCR Controls
- C Start Stop Control St
- D None

<b>FACTORY USE</b>		
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**VFD ACCESSORIES**

- O NO ACCESSORIES
- A REM MTG KIT
- B LCP11 CONT PANEL
- C LCP12 CONT PANEL
- D NE/UL TY1 K FOR M1 FR
- E NE/UL TY1 K FOR M2 FR
- F NE/UL TY1 K FOR M3 FR
- G DECOUPLING PLT KIT FOR M1&M2 FRAME
- H DECOUPLING PLT KIT FOR M3 FRAME
- I IP21 FOR M1 FRAME
- J IP21 FOR M2 FRAME
- K IP21 FOR M3 FRAME
- L DIN RAIL MTG KIT

**VFD SIZE**

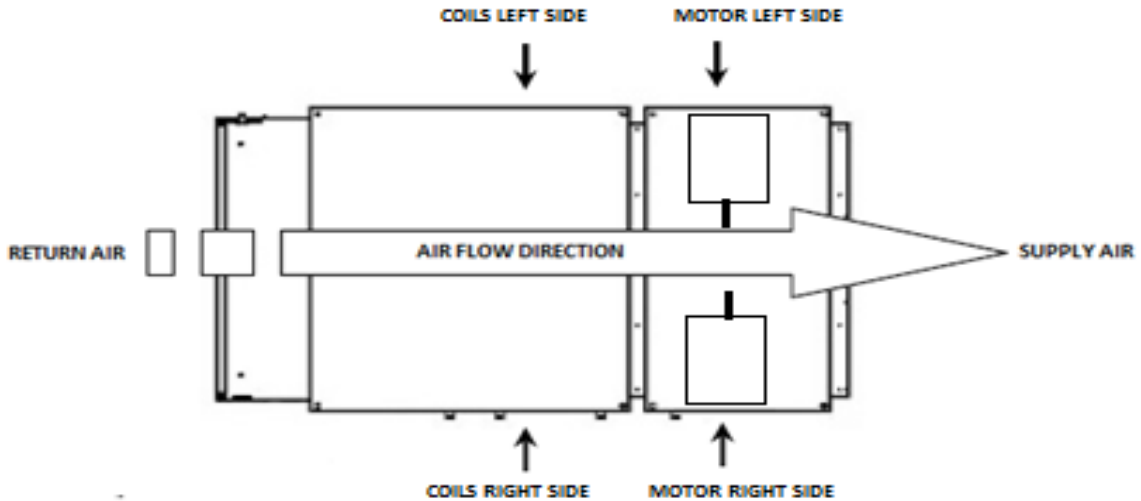
- O NO VFD
- A 0.25 HP 230/1
- B 0.50 HP 230/1
- C 1.00 HP 230/1
- D 2.00 HP 230/1
- E 3.00 HP 230/1
- F 0.33 HP 230/3
- G 0.50 HP230/3
- H 1.00 HP 230/3
- I 2.00 HP 230/3
- J 3.00 HP 230/3
- K 5.00 HP 230/3
- L 0.50 HP 460/3
- M 1.00 HP 460/3
- N 2.00 HP 460/3
- P 3.00 HP 460/3
- Q 5.00 HP 460/3
- R 7.50 HP 460/3
- S 10.0 HP 460/3

**For more information contact Customer Service**

Phone: 817-624-0820 Fax: 817-624-8581

**COIL DATA**

MODEL	FIN BLOCK	FACE	ROWS	FPI	WATER CONN.	DX CONN		MODEL	FIN BLOCK	FACE AREA	ROWS	FPI	WATER CONN.	DX CONN		
	H X W	AREA			HEADER OD	SUCT	LIQ		H X W				HEADER OD	SUCT	LIQ.	
24-R	10 X 31	2.15	1	10	5/8	N/A	N/A	90-R	22.5 X 47	7.34	2	10	7/8	N/A	N/A	
			2			N/A	N/A				4		1-1/8	1-3/8	5/8	
			4			7/8	3/8				6		1-5/8	1-5/8	5/8	
			6			7/8	3/8				8		1-5/8	1-5/8	5/8	
			8			7/8	3/8				2		7/8	N/A	N/A	
36-R	13 X 31	2.8	1		5/8	N/A	N/A	120-R	28 X 47	9.14	4		10	1-1/8	1-5/8	5/8
			2			N/A	N/A				6			1-5/8	1-5/8	5/8
			4			7/8	3/8				8			1-5/8	1-5/8	5/8
			6			7/8	3/8				2			1-3/8	N/A	N/A
			8			1-1/8	3/8				4			1-5/8	1-5/8	5/8
48-R	15 X 40	4.17	1	5/8	N/A	N/A	180-R	30 X 60	12.5	6	10	1-5/8	2-1/8	5/8		
			2		N/A	N/A				8		2-1/8	2-1/8	5/8		
			4		7/8	1/2				2		1-3/8	N/A	N/A		
			6		1-1/8	1/2				4		1-5/8	2-1/8	5/8		
			8		1-1/8	1-3/8				1/2		6	2-1/8	2-1/8	5/8	
60-R	17.5 X 40	4.86	1	5/8	N/A	N/A	240-R	42.5 X 60	17.70	8		10	2-1/8	2-1/8	5/8	
			2		N/A	N/A				CONTACT THE FACTORY FOR ADDITIONAL COIL INFORMATION						
			4		1-1/8	7/8				1/2						
			6		1-1/8	1-1/8				1/2						
			8		1-3/8	1/2										

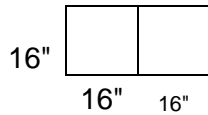


## HORIZONTAL FILTER ARRANGEMENTS

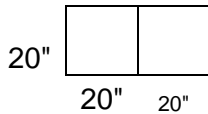
STANDARD FILTER RACK  
  
SINGLE & DOUBLE WALL  
  
(HFDA) ACCEPTS 2"  
OR 4" TA  
OR PLATED  
FILTERS

	UNIT					FILTER QUANTITY							
	MODEL					24	36	48	60	90	120	180	240
	14"	X	20"	X	2/4"								
FILTER SIZE	14"	X	25"	X	2/4"					4	4		
	16"	X	16"	X	2/4"	2	2						
	16"	X	20"	X	2/4"							4	4
	16"	X	25"	X	2/4"							4	4
	20"	X	20"	X	2/4"			2	2				
	FILTER TOTAL					2	2	2	2	4	4	8	8

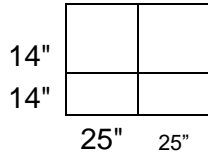
24/36  
2-  
**16"X16"X2/4"**



48/60  
2-  
**20"X20"X2/4"**



90/120  
4-  
**14"X25"X2/4"**



180/240  
4-  
**16"X20"X2/4"**  
4-  
**16"X25"X2/4"**

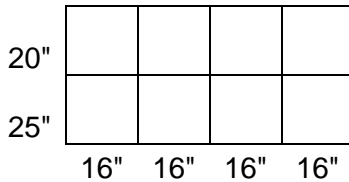
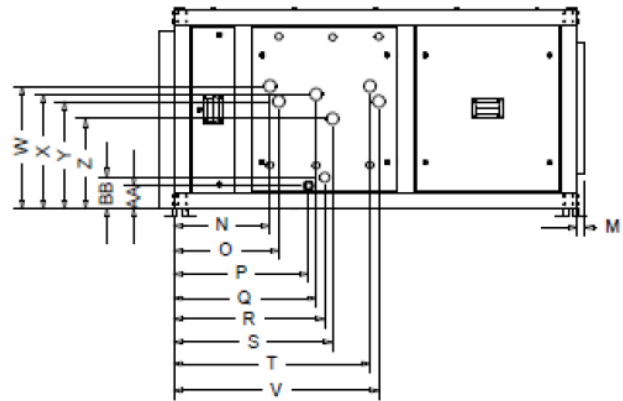
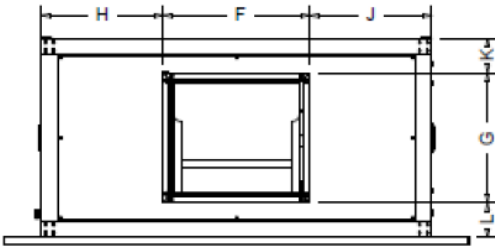
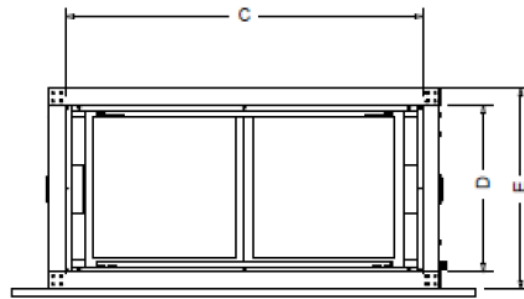
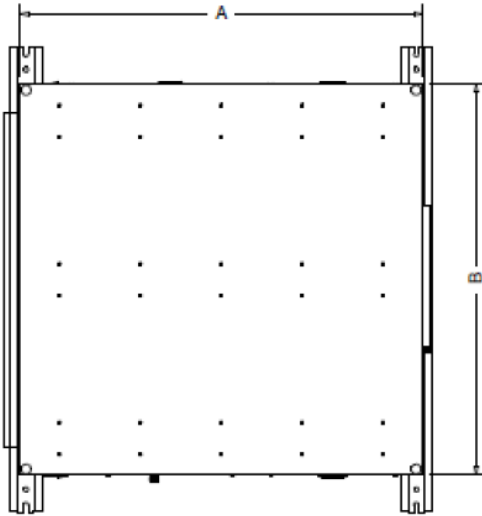


CHART ABOVE SHOWS SPECIFIC FILTER ARRANGEMENTS

2" & 4" FILTER RACKS FOR UNITS FROM 24 TO 240 ARE SIDE LOADING ONLY

## UNIT DIMENSIONS SINGLE & DOUBLE WALL 024 TO 240



**HORIZONTAL SINGLE & DOUBLE WALL DIMENSIONS FROM 024 TO 120**

UNIT	A	B	C	D	E	F	G	H	J	K	L	M	N
H***A-024	49.50	39.00	34.93	16.06	20.06	14.00	12.50	12.50	12.50	2.01	5.55	1.00	11.42
H***A-036	49.50	39.00	34.93	16.06	20.06	14.00	12.50	12.50	12.50	2.01	5.55	1.00	11.42
H***A-048	49.50	48.00	43.93	20.56	24.56	18.00	16.00	14.98	14.98	4.28	4.28	1.00	11.78
H***A-060	49.50	48.00	43.93	20.56	24.56	18.00	16.00	14.98	14.98	4.28	4.28	1.00	11.78
H***A-090	63.00	57.09	53.00	32.41	36.69	19.97	17.53	18.52	18.52	9.53	9.53	1.00	12.75
H***A-120	63.00	57.09	53.00	32.41	36.69	19.97	17.53	18.52	18.52	9.53	9.53	1.00	12.75

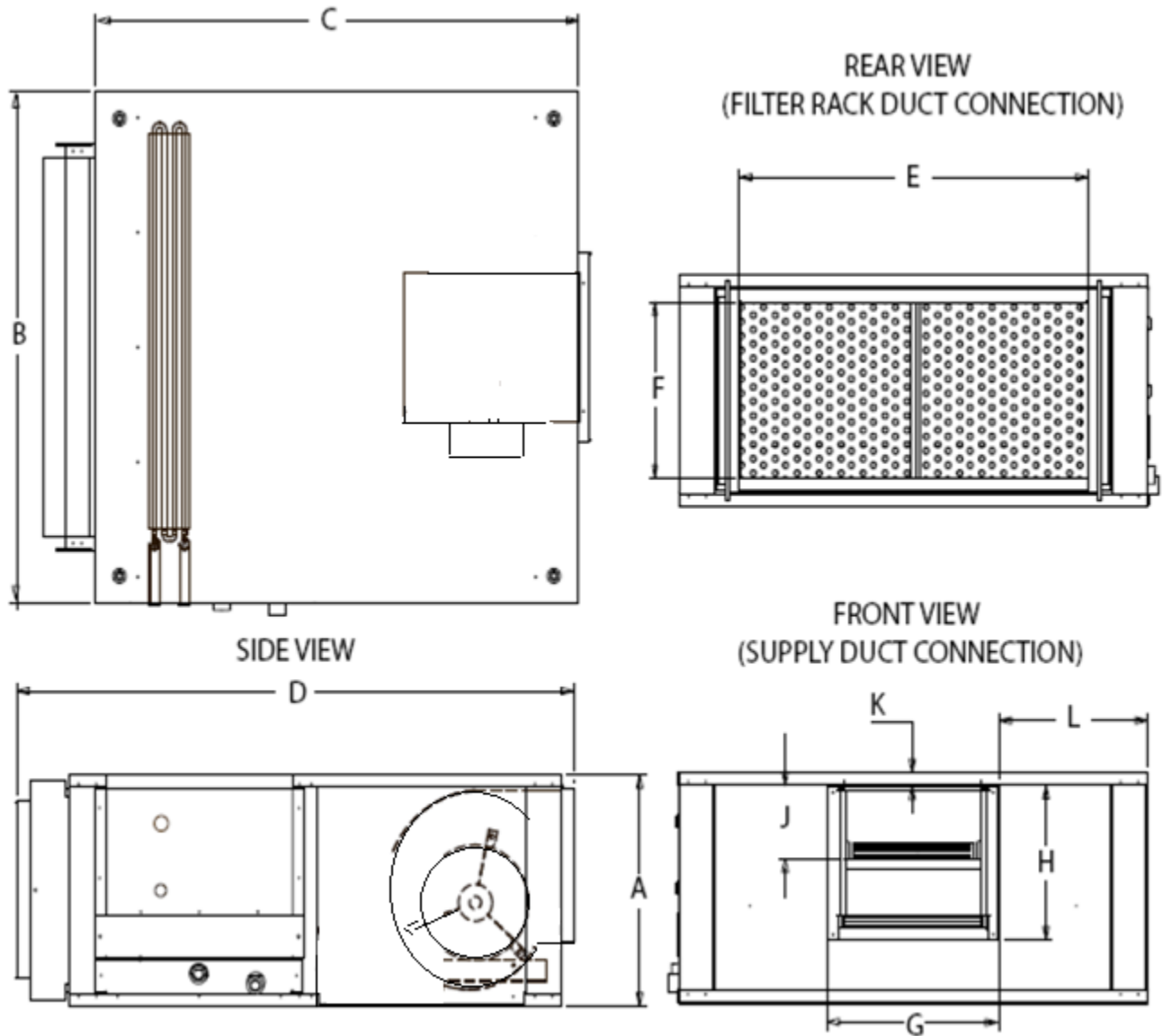
UNIT	O	P	Q	R	S	T	V	W	X	Y	Z	AA	BB
H***A-024	13.79	16.80	20.05	34.93	16.06	23.72	26.10	11.43	11.55	9.18	9.05	2.79	3.89
H***A-036	13.79	16.80	20.05	34.93	16.06	23.72	26.10	11.43	11.55	9.18	9.05	2.79	3.89
H***A-048	12.86	16.48	48.00	43.93	19.45	24.03	25.12	13.19	11.07	15.07	14.07	2.82	3.85
H***A-060	12.86	16.48	48.00	43.93	19.45	24.03	25.12	13.19	11.07	15.07	14.07	2.82	3.85



H***A-090	13.93	18.98	57.09	53.00	22.72	27.62	28.92	18.87	18.41	17.35	17.44	3.27	4.38
H***A-120	13.93	18.98	57.09	53.00	22.72	27.62	28.92	18.87	18.41	17.35	17.44	3.27	4.38

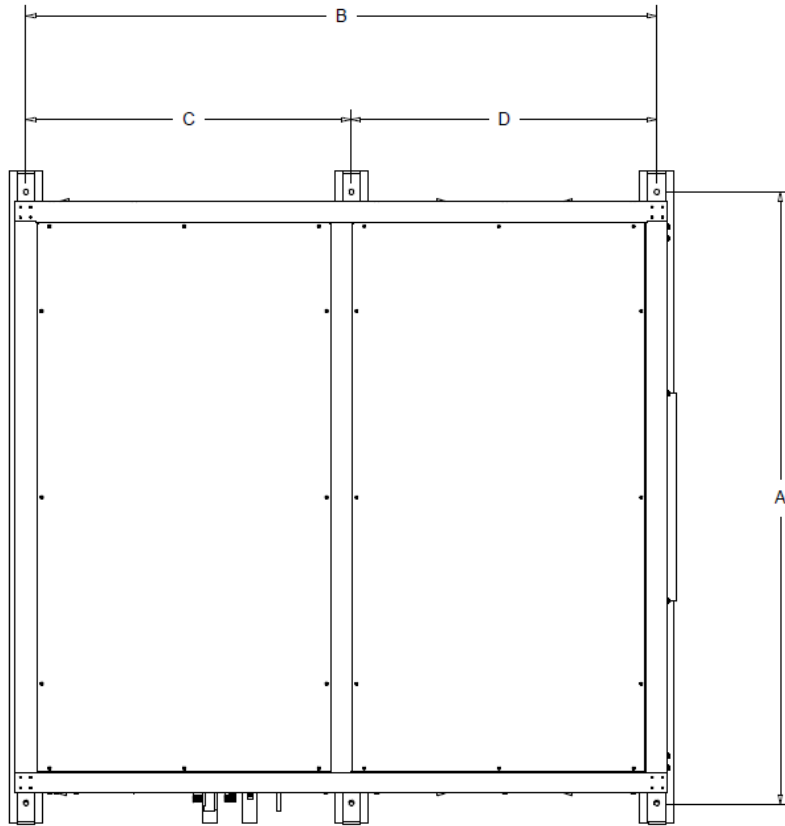
ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ROUNDED, SUBJECT TO CHANGE WITHOUT NOTICE

### UNIT DIMENSIONS SINGLE & DOUBLE WALL 180 AND 240

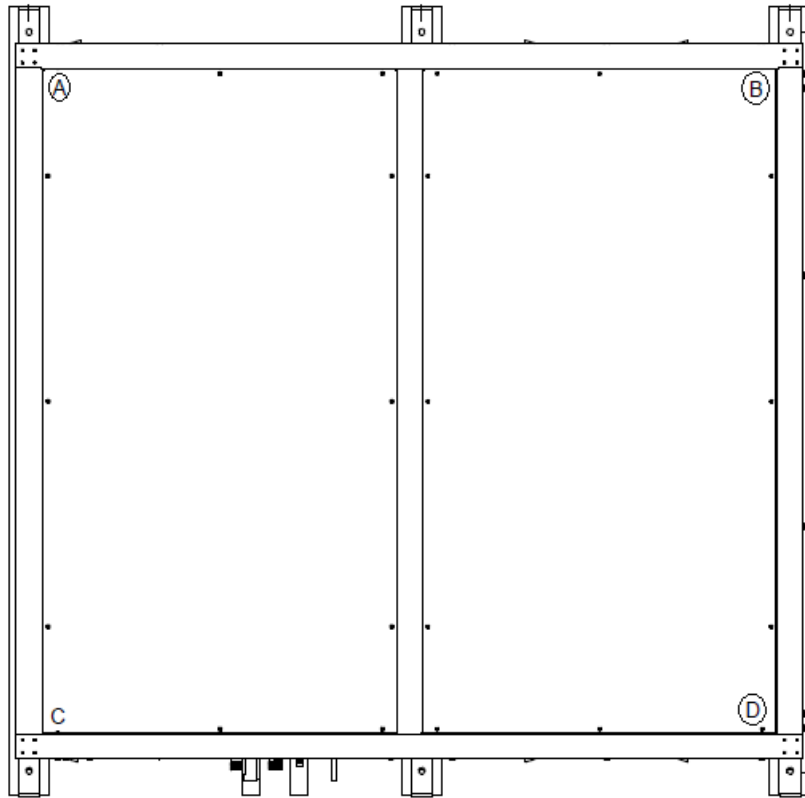


HORIZONTAL SINGLE & DOUBLE WALL DIMENSIONS FOR 180 AND 240											
UNIT	A	B	C	D	E	F	G	H	J	K	L
H***A-180	47.15	72.00	57.50	76.75	65.92	44.99	24.93	20.65	12.2	4.33	23.49
H***A-240	47.15	72.00	57.50	76.75	65.92	44.99	24.93	20.65	12.2	4.33	23.49

## **MOUNTING HOLES DISTANCE**



UNIT	SIZE	TONS	A	B	C	D
024	24000	2.0	37.5"	48"	N/A	N/A
036	36000	3.0	37.5"	48"	N/A	N/A
048	48000	4.0	46.5"	48"	N/A	N/A
060	60000	5.0	46.5"	48"	N/A	N/A
090	90000	7.5	59"	60.906"	31.411"	29.495"
120	120000	10.0	59"	60.906"	31.411"	29.495"
180	180000	15.0	75.307"	53.125"	19.453"	33.673"
240	240000	20.0	75.307"	53.125"	19.453"	33.673"



HORIZONTAL UNITS WEIGHT AND CORNER DISTRIBUTION BASED ON 8 ROW SLAB COIL									
Unit Model	Corner weights 8 Row Coil				Total Weight	Correction Factors for Rows and Single Wall			
	A	B	C	D		6R	4R	2R	Single Wall
H***A - 024	93	94	83	85	<b>355</b>	-9	-17	-25	-35
H***A - 036	91	104	105	106	<b>406</b>	-11	-21	-33	-35
H***A - 048	92	122	95	123	<b>432</b>	-20	-39	-59	-40
H***A - 060	110	125	98	113	<b>446</b>	-22	-45	-65	-40
H***A - 090	137	153	139	137	<b>566</b>	-36	-72	-103	-65
H***A - 120	145	156	140	132	<b>574</b>	-47	-95	-140	-65
H***A - 180	214	223	202	236	<b>875</b>	-54	-108	-160	-85
H***A - 240	280	293	262	270	<b>1105</b>	-55	-110	-162	-85

**SUPPLY AIR PLENUM WITH ADJUSTABLE FOUR WAY GRILL**

Note:

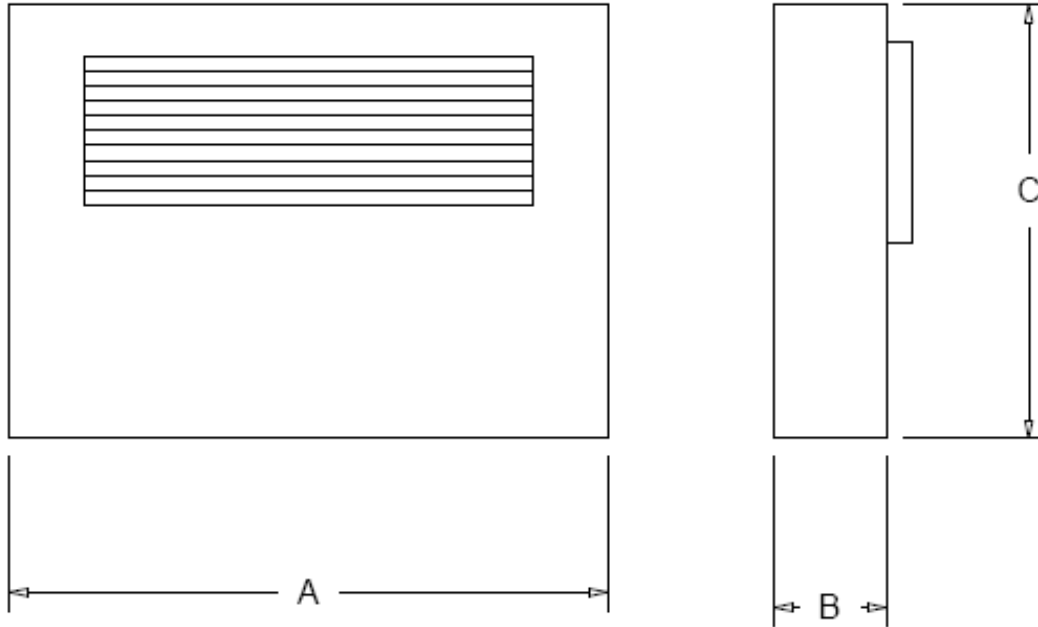
The drawings and dimensions on this page are for illustration purpose

Consult factory for final drawings for construction

Units with supply air plenum cannot have electric heat

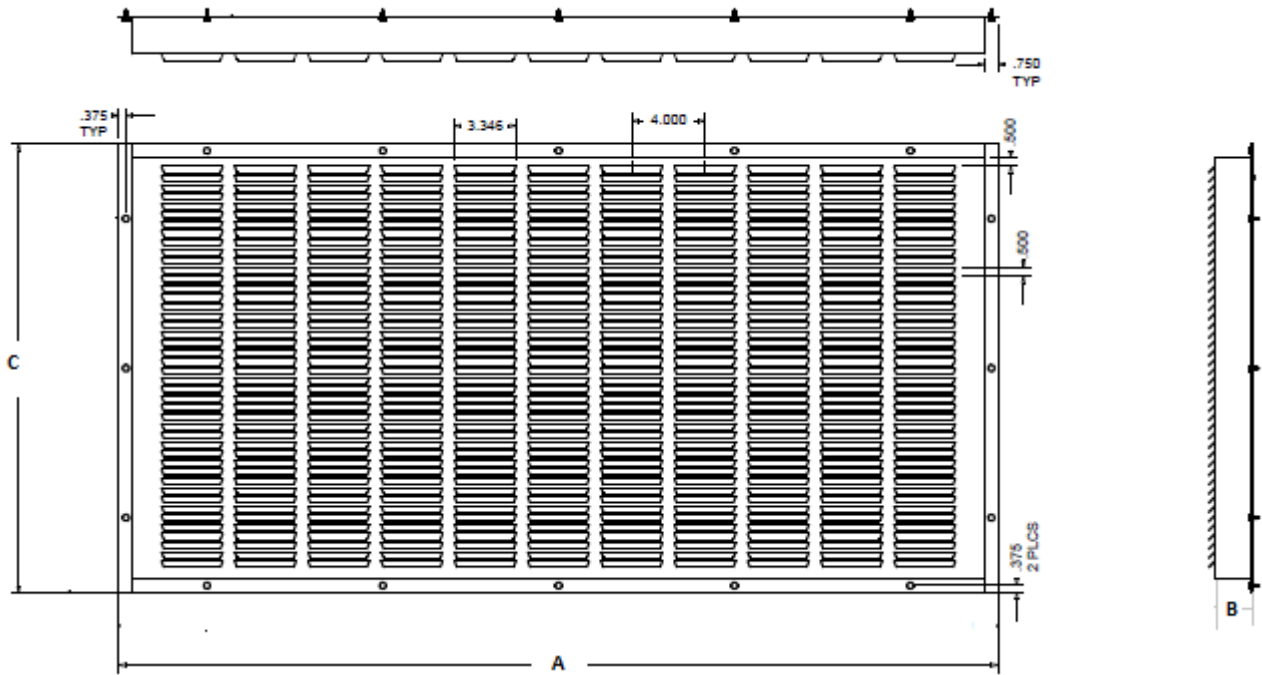
Units with return air plenum cannot have mixing box, no face & by pass dampers

Supply and return air plenums are made with heavy gauge galvanized steel



MODEL	A	B	C	GRILL
HWSP - 024/036	39.0	6.0	20.0	12 X 20 4-W
HWSP - 048/060	48.0		24.5	16 X 24 4-W
HSWP - 090/120	57.0		36.6	18 X 48 4-W
HWSP 180/240	72.0		47.0	16 X 24 4-W
ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ROUNDED, SUBJECT TO CHANGE WITHOUT NOTICE				

### RETURN AIR PLENUM UNITS WITH FIX RETURN GRILL

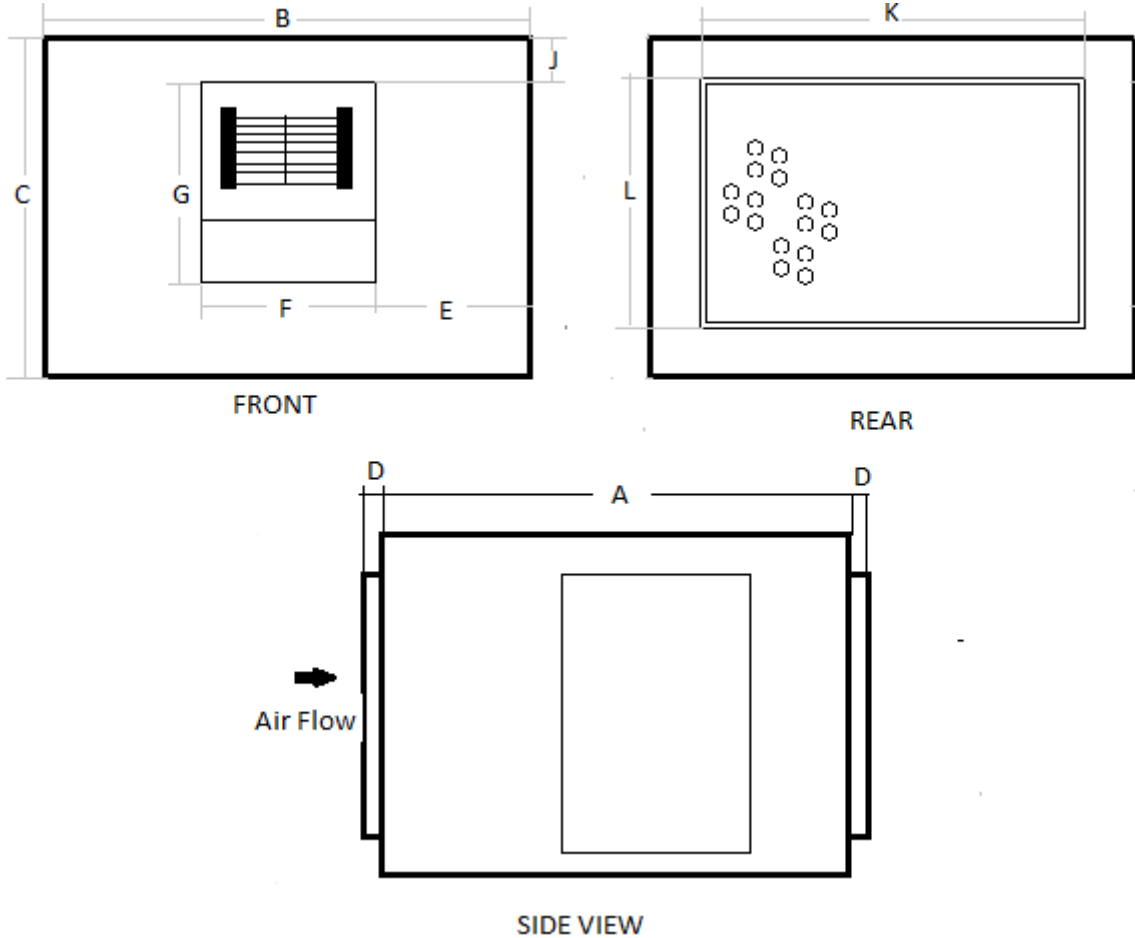


MODEL	A	B	C
HWRT - 024/036	39.0	2.0	20.0
HWRT - 048/060	48.0		24.4
HWRT - 090/120	57.0		36.6
HWRT 180/240	72.0		47.0
ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ROUNDED, SUBJECT TO CHANGE WITHOUT NOTICE			

**Note:**

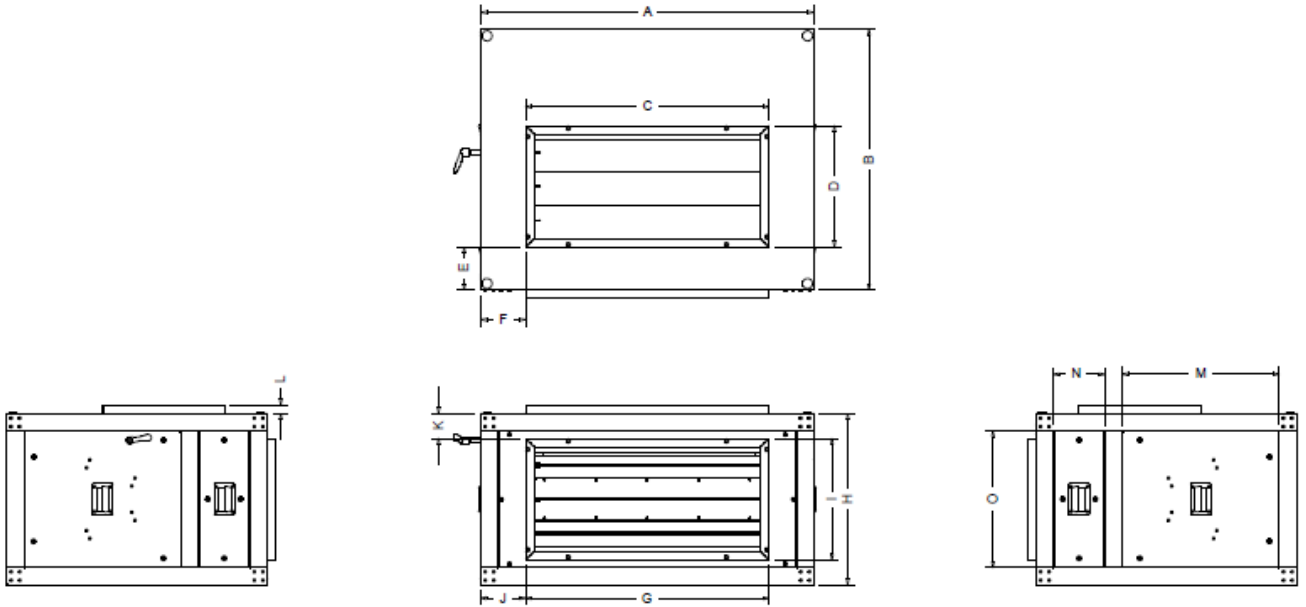
- The drawings and dimensions on this page are for illustration purpose
- Consult factory for final drawings for construction
- Units with supply air plenum cannot have electric heat
- Units with return air plenum cannot have mixing box, no face & by pass dampers
- Supply and return air plenums are made with heavy gauge galvanized steel

**FACE & BY-PASS DAMPER FOR UNITS FROM 024 TO 240**



MODEL		A	B	C	D	E	F	G	J	K	L
HFBPD	- 024/036	26.00	22.00	25.00	0.75	6.50	18.00	15.25	3.00	15.00	16.50
HFBPD	- 048/060	26.00	30.00	30.00	0.75	6.50	18.00	15.25	3.00	23.00	22.50
HFBPD	- 090/120	30.00	52.00	35.00	0.75	6.50	18.00	15.25	3.00	45.00	26.50
HFBPD	- 180/240	36.00	36.50	22.25	4.55	36.60	10.28	57.09	0.95	22.25	7.21
ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ROUNDED, SUBJECT TO CHANGE WITHOUT NOTICE											

### MIXING BOX FOR SIZE 024 TO 240



UNIT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
HMB3 - 024	39.0	30.5	28.5	14.25	5.0	5.25	28.5	20.0	14.25	5.25	2.9	1.0	18.4	6.0	16.0
HMB3 - 036	39.0	30.5	28.5	14.25	5.0	5.25	28.5	20.0	14.25	5.25	2.9	1.0	18.4	6.0	16.0
HMB3 - 048	48.0	30.0	36.5	17.25	4.2	5.75	36.5	24.5	17.25	5.75	3.7	1.0	16.75	7.7	20.5
HMB3 - 060	48.0	30.0	36.5	17.25	4.2	5.75	36.5	24.5	17.25	5.75	3.7	1.0	16.75	7.7	20.5
HMB3 - 090	63.0	41.5	36.5	22.25	4.5	10.25	57.0	36.7	22.25	10.25	7.2	1.0	23.6	11.8	32.7
HMB3 - 120	63.0	41.5	36.5	22.25	4.5	10.25	57.0	36.7	22.25	10.25	7.2	1.0	23.6	11.8	32.7
HMB3 - 180	72.0	41.5	51.5	24.5	4.5	10.25	51.5	47.0	32.6	10.25	7.2	1.0	23.6	11.8	42.0
HMB3 - 240	72.0	41.5	51.5	24.5	4.5	10.25	51.5	47.0	32.6	10.25	7.2	1.0	23.6	11.8	42.0

