

SPLITIP6 ISO.P65
SPLIT SYSTEM CATALOG SECTION (ISO)
Rev: 11-01

EM, GT and Large Commercial
Split spec sheets



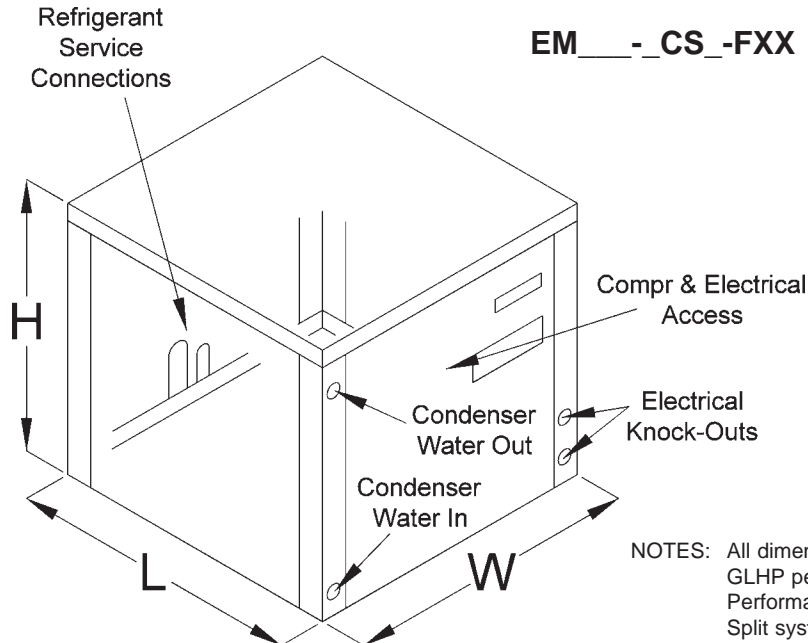


GeoMaster, LLC
 3512 Cavalier Drive
 Fort Wayne, IN 46808
 877-443-6411
 www.geoexcel.com

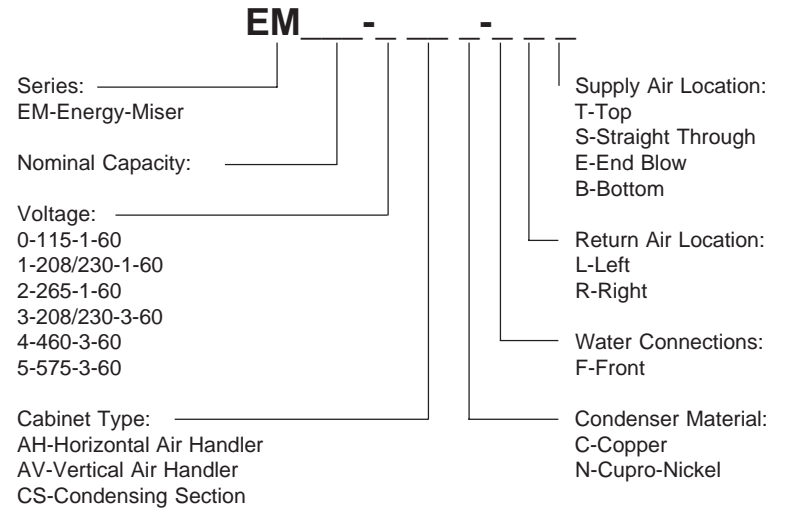
EM007-070 Series Split Systems

Condensing Sections

MODEL	Dimensions				ISO 13256-1 Certified Performance								GLHP Ratings See Note	GPM
	L	W	H	Water Conn.	WLHP Cooling		WLHP Heating		GWHP Cooling		GWHP Heating			
	Length	Width	Height		Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP		
EM007	19.00	19.00	11.25	3/4" FPT	7200	12.1	9800	4.6	8400	17.0	7400	3.7		2.0
EM009	19.00	19.00	11.25	3/4" FPT	9600	11.8	12600	4.5	11200	16.8	9600	3.6		3.0
EM012	19.00	19.00	11.25	3/4" FPT	11300	11.0	14200	3.8	12700	15.4	10800	3.1		3.0
EM015	21.50	21.50	17.00	3/4" FPT	14200	11.3	19600	4.1	16200	16.2	14700	3.3		4.0
EM018	21.50	21.50	17.00	3/4" FPT	17500	12.2	21500	4.3	20500	16.6	17000	3.7		4.5
EM024	21.50	21.50	19.00	3/4" FPT	22500	13.7	28500	4.8	25500	20.5	22500	4.1		6.0
EM028	21.50	21.50	19.00	3/4" FPT	27500	12.8	31500	4.6	31500	18.5	25500	3.9		7.0
EM031	21.50	21.50	19.00	3/4" FPT	31000	13.0	39000	4.1	36000	18.7	30500	3.6		7.5
EM036	26.00	21.50	19.00	3/4" FPT	33500	13.7	39000	4.6	37000	19.6	30500	3.9		9.0
EM041	26.00	21.50	19.00	3/4" FPT	37500	12.3	48000	4.2	40000	15.8	38000	3.7		9.0
EM042	26.00	21.50	19.00	3/4" FPT	40500	12.6	49500	4.2	43000	16.6	39000	3.8		10.0
EM048	32.50	24.00	21.00	1" FPT	47000	12.0	60000	4.5	56500	17.6	48000	3.9		12.0
EM060	32.50	24.00	21.00	1" FPT	59000	12.3	75000	4.4	64000	17.1	59000	3.9		15.0
EM070	33.25	26.00	24.00	1" FPT	66500	12.3	80500	4.5	74500	18.3	64500	3.7		16.0



EM-Series Split System Model Nomenclature



NOTES: All dimensions within +/- 0.125".
 GLHP performance certified with extended range package installed. See extended range performance table for ratings.
 Performance certified with corresponding EM-Series air handling unit.
 Split systems are not available with hot gas reheat or bypass options. Consult factory for available options.
 Specifications subject to change without notice.



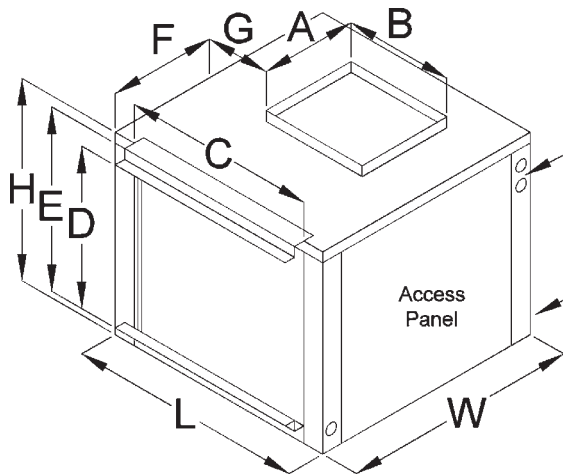
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 877-443-6411
 www.geoexcel.com

EM007-070 Series Split Systems

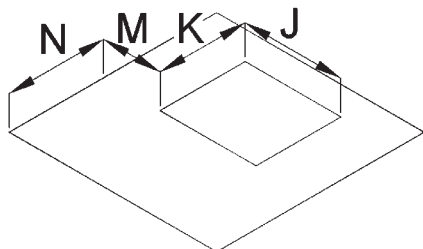
Vertical Air Handlers

MODEL	L	W	H	C	D	E	A	B	G	F	F	J	K	M	N	N	Recommended Replacement Nominal Filter Size
	Length	Width	Height	R/A Duct Flg Width	R/A Duct Flg Height	Filter Rack Height	Top Blow Units (XLT & XRT)					Bottom Blow Units (XLB & XRB)					
				S/A Duct Collar	XLT	XRT	Blower Opening		XLB	XRB							
EM007,009	19.00	19.00	11.50	15.00	8.00	10.00	7.75	11.75	3.50	3.50	8.25	6.25	4.25	6.00	10.25	10.25	10 X 16 X 1
EM012	19.00	19.00	11.50	15.00	8.00	10.00	7.75	11.75	3.63	9.75	3.63	5.25	4.00	7.00	12.38	7.75	10 X 16 X 1
EM015	21.50	21.50	17.50	17.50	14.00	16.00	9.75	11.75	5.88	7.88	7.88	6.25	4.25	6.50	12.00	12.00	16 X 20 X 1
EM018	21.50	21.50	17.50	17.50	14.00	16.00	11.75	13.75	2.50	6.75	6.75	9.63	9.25	8.13	8.00	8.00	16 X 20 X 1
EM024	21.50	21.50	19.50	17.50	16.00	18.00	11.75	13.75	2.50	6.75	6.75	9.63	9.25	8.13	8.00	8.00	18 X 20 X 1
EM028, 031	21.50	21.50	21.50	17.50	18.00	20.00	13.75	15.75	2.75	5.75	5.75	9.63	9.25	8.13	7.50	8.00	20 X 20 X 1
EM036	26.00	21.50	25.00	22.00	22.00	24.00	15.75	15.75	4.50	5.50	4.75	10.25	9.25	7.50	8.75	8.00	24 X 24 X 1
EM041	21.50	21.50	21.50	17.50	18.00	20.00	13.75	15.75	2.75	5.50	6.75	10.25	9.25	7.25	7.75	7.75	20 X 20 X 1
EM042	26.00	21.50	25.00	22.00	22.00	24.00	15.75	15.75	4.50	5.50	4.75	10.25	9.25	10.00	8.75	8.00	24 X 24 X 1
EM048	32.50	24.00	25.25	28.00	22.00	24.00	15.75	15.75	10.50	6.50	3.75	11.75	10.75	9.25	9.00	9.00	24 X 30 X 1
EM060	32.50	24.00	25.25	28.00	22.00	24.00	17.75	17.75	9.75	4.75	6.50	12.50	12.00	9.00	8.00	8.00	24 X 30 X 1
EM070	33.25	26.00	33.25	28.00	30.00	32.00	17.75	17.75	9.50	6.50	6.50	12.00	12.50	10.63	5.00	5.00	16 X 30 X 1 (2)

Left Hand Return Top Blow
 EM__-AVX-XLT

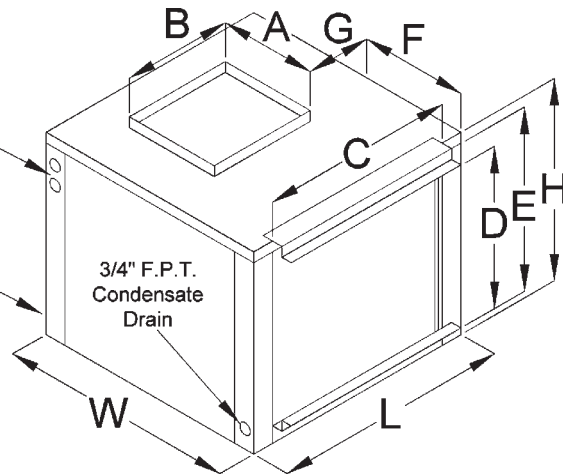


Left Hand Return Bottom Blow
 EM__-AVX-XLB

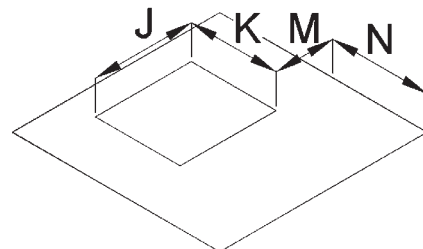


Electrical Knock-Outs
 Refrigerant Connections

Right Hand Return Top Blow
 EM__-AVX-XRT



Right Hand Return Bottom Blow
 EM__-AVX-XRB



NOTES: All dimensions within +/- 0.125".
 Not available with hot gas reheat or bypass options. Consult factory for available options.
 Specifications subject to change without notice.



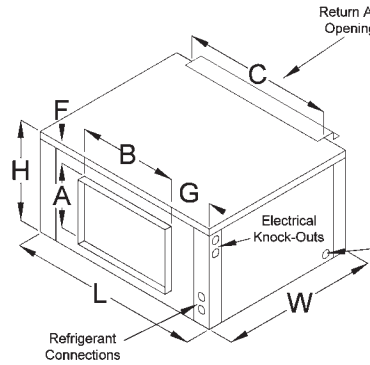
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 877-443-6411
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EM007-070 Series Split Systems

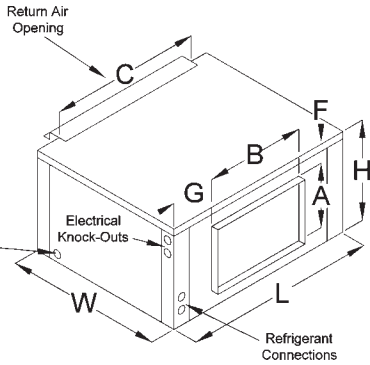
Horizontal Air Handlers

MODEL	L	W	H	A	B	C	D	E	F	G	F	G	F	G	F	G	Recommended Replacement Nominal Filter Size
	Length	Width	Height	S/A Duct Height	S/A Duct Width	R/A Duct Flg Width	R/A Duct Flg Height	Filter Rack Height	Left Rtn, End Blow (XLE)		Right Rtn, End Blow (XRE)		Left Rtn, Str Through (XLS)		Right Rtn, Str Through (XRS)		
EM007, 009	19.00	19.00	11.25	7.75	11.75	15.00	8.00	10.00	1.25	5.00	1.88	5.00	1.50	2.50	1.88	2.25	10 X 16 X 1
EM012	19.00	19.00	11.25	7.75	11.75	15.00	8.00	10.00	2.25	2.50	1.25	4.75	1.25	2.75	1.88	2.25	10 X 16 X 1
EM015	21.50	21.50	17.00	9.75	11.75	17.50	14.00	16.00	5.00	5.75	1.88	5.75	2.00	2.25	1.88	2.25	16 X 20 X 1
EM018	21.50	21.50	17.00	13.75	11.75	17.50	14.00	16.00	2.00	6.25	1.13	6.25	2.00	4.00	1.13	4.00	16 X 20 X 1
EM024	21.50	21.50	19.00	13.75	11.75	17.50	16.00	18.00	3.50	5.75	1.13	6.25	1.50	4.00	1.50	4.00	18 X 20 X 1
EM028	23.50	22.00	19.00	13.75	13.75	19.50	16.00	18.00	0.75	5.50	1.63	5.50	0.75	5.75	1.63	5.75	18 X 20 X 1
EM031	23.50	22.00	19.00	15.75	13.75	19.50	16.00	18.00	1.00	5.88	1.75	5.88	1.00	5.75	1.75	4.00	18 X 20 X 1
EM036	33.00	22.00	19.00	15.75	15.75	29.00	16.00	18.00	2.25	4.25	2.25	4.25	1.00	8.75	1.25	8.75	18 X 30 X 1
EM041	21.50	21.50	21.50	15.75	13.75	17.50	18.00	20.00	2.00	5.00	3.00	3.88	2.50	2.75	2.00	2.75	20 X 20 X 1
EM042	33.00	22.00	19.00	15.75	15.75	29.00	16.00	18.00	1.00	3.75	1.25	3.75	1.00	8.75	1.25	8.75	18 X 30 X 1
EM048	37.75	24.00	21.00	15.75	15.75	33.75	18.00	20.00	3.25	5.13	1.00	5.13	3.25	10.13	1.00	10.13	18 X 20 X 1 (2)
EM060	37.75	24.00	21.00	17.75	15.75	33.75	18.00	20.00	1.50	5.13	1.50	5.13	1.50	10.13	2.00	10.13	18 X 20 X 1 (2)
EM070	48.00	26.00	21.50	17.75	17.75	44.00	18.50	20.50	1.75	4.13	1.75	4.38	1.50	15.63	1.50	15.63	20 X 24 X 1 (2)

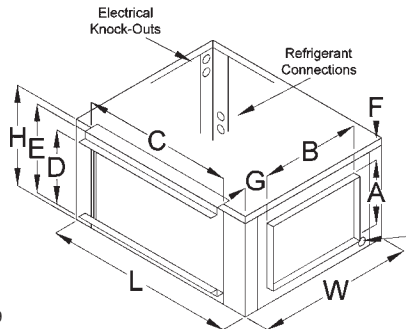
Right Hand Return Straight Through
 EM__ - AHX-XRS



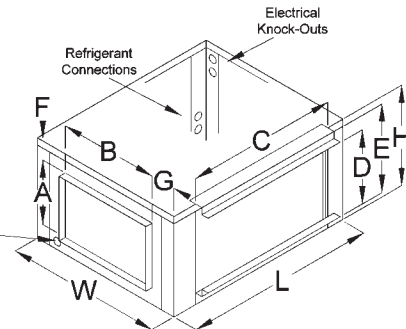
Left Hand Return Straight Through
 EM__ - AHX-XLS



Right Hand Return End Blow
 EM__ - AHX-XRE



Left Hand Return End Blow
 EM__ - AHX-XLE



NOTES: All dimensions within +/- 0.125".
 Not available with hot gas reheat or bypass options.
 Consult factory for available options.
 Specifications subject to change without notice.



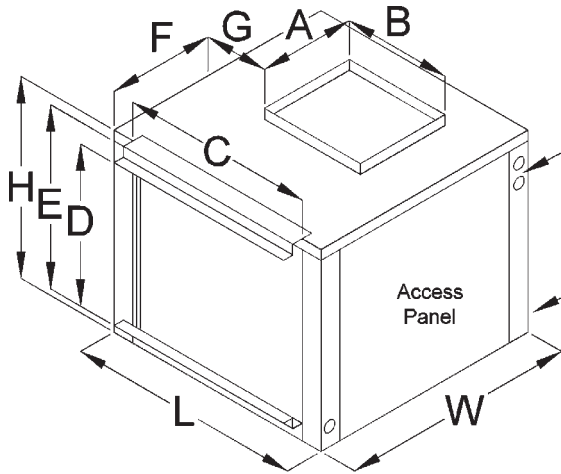
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 3512 Cavalier Drive
 Fort Wayne, IN 46808
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 www.geoexcel.com

GT Series Split Systems

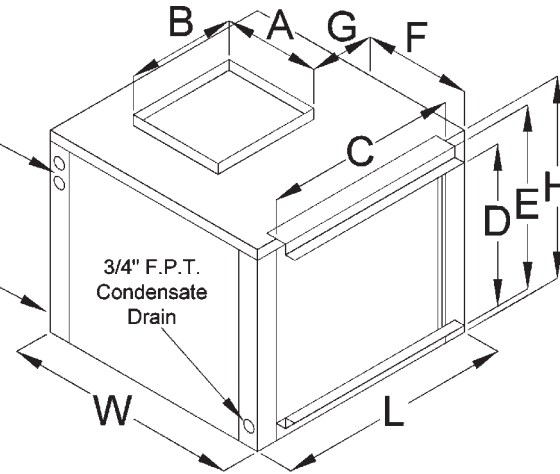
Vertical Air Handlers

MODEL	L	W	H	C	D	E	A	B	G	F	F	J	K	M	N	N	Recommended Replacement Nominal Filter Size
	Length	Width	Height	R/A Duct Flg Width	R/A Duct Flg Height	Filter Rack Height	Top Blow Units (XLT & XRT)					Bottom Blow Units (XLB & XRB)					
				S/A Duct Collar	XLT	XRT	Blower Opening		XLB	XRB							
GT024	21.50	21.50	19.25	17.50	16.00	18.00	13.75	11.75	3.75	7.00	4.13	9.25	9.63	5.00	5.13	10.13	18 X 20 X 1
GT030,036	26.00	21.50	25.75	22.00	22.00	24.00	15.75	13.75	6.13	5.25	4.00	9.25	10.25	8.38	5.00	9.75	24 X 24 X 1
GT042	32.75	24.00	25.75	28.00	22.00	24.00	15.75	15.75	8.38	4.75	3.50	9.25	10.25	11.63	4.50	9.25	24 X 30 X 1
GT048	32.75	24.00	25.75	28.00	22.00	24.00	15.75	15.75	8.38	5.50	3.50	10.75	11.50	10.88	4.50	8.75	24 X 30 X 1
GT054	33.25	26.00	27.75	28.00	22.00	24.00	17.75	17.75	7.75	4.25	4.00	10.75	11.50	11.25	5.00	9.50	24 X 30 X 1
GT062	33.25	26.00	27.75	28.00	22.00	24.00	17.75	17.75	8.37	6.25	4.00	12.00	12.50	10.63	5.00	10.50	24 X 30 X 1
GT070	33.25	26.00	35.75	28.00	30.00	32.00	17.75	17.75	8.37	6.25	4.00	12.00	12.50	10.63	5.00	10.50	16 X 30 X 1 (2)

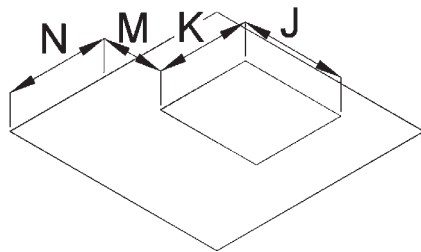
Left Hand Return
 Top Blow
 GT___-AVX-XLT



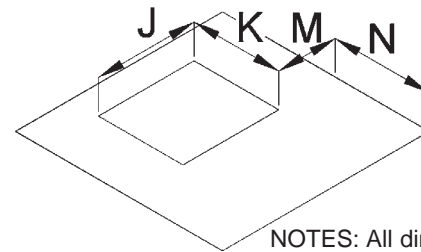
Right Hand Return
 Top Blow
 GT___-AVX-XRT



Left Hand Return
 Bottom Blow
 GT___-AVX-XLB



Right Hand Return
 Bottom Blow
 GT___-AVX-XRB



NOTES: All dimensions within +/- 0.125".
 Not available with hot gas reheat or bypass.
 Consult factory for available options.
 Internal electric heat available on 208/230-1-60 units.
 Specifications subject to change without notice.



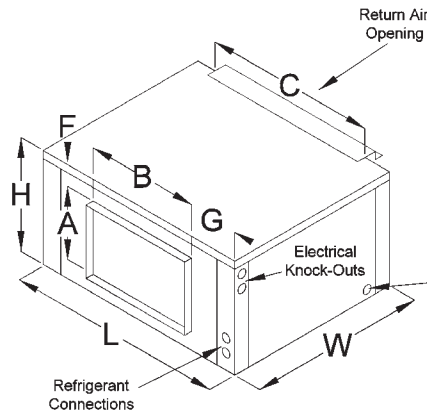
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 877-443-6411
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GT Series Split Systems

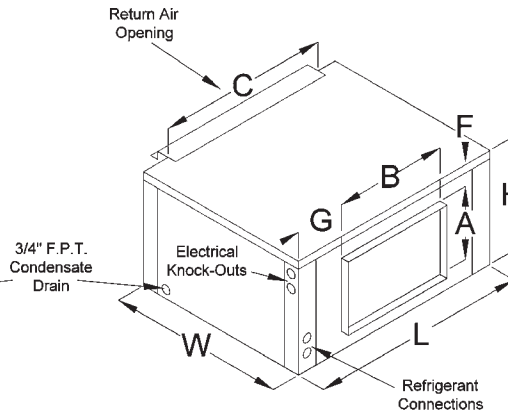
Horizontal Air Handlers

MODEL	L	W	H	A	B	C	D	E	F	G	F	G	F	G	F	G	Recommended Replacement Nominal Filter Size
	Length	Width	Height	S/A Duct Height	S/A Duct Width	R/A Duct Flg Width	R/A Duct Flg Height	Filter Rack Height	Left Rtn, End Blow (XLE)		Right Rtn, End Blow (XRE)		Left Rtn, Str Through (XLS)		Right Rtn, Str Through (XRS)		
GT024	21.50	25.50	21.75	13.75	11.75	20.00	16.25	18.25	2.50	4.25	2.50	4.25	2.50	6.75	2.50	6.75	18 X 20 X 1
GT030,036	34.00	26.00	21.75	15.75	13.75	30.00	16.00	18.00	1.25	4.13	2.00	4.13	1.38	10.63	1.88	10.63	18 X 30 X 1
GT042	38.50	30.00	21.75	15.75	15.75	33.50	18.50	20.50	2.75	5.13	2.50	5.13	2.88	11.38	2.38	11.38	18 X 20 X 1 (2)
GT048	38.50	30.00	21.75	15.75	15.75	33.50	18.50	20.50	2.63	4.00	2.63	4.00	2.63	11.38	2.63	11.38	18 X 20 X 1 (2)
GT054	38.50	30.00	21.75	17.75	17.75	33.50	18.50	20.50	2.63	3.00	2.63	3.00	2.63	10.38	2.63	10.38	18 X 20 X 1 (2)
GT062	38.50	30.00	21.75	17.75	17.75	33.50	18.50	20.50	1.50	4.13	1.75	4.13	1.75	10.38	1.50	10.38	18 X 20 X 1 (2)
GT070	49.00	30.00	21.75	17.75	17.75	44.00	18.50	20.50	1.50	4.13	1.75	4.13	1.75	15.63	1.50	15.63	20 X 24 X 1 (2)

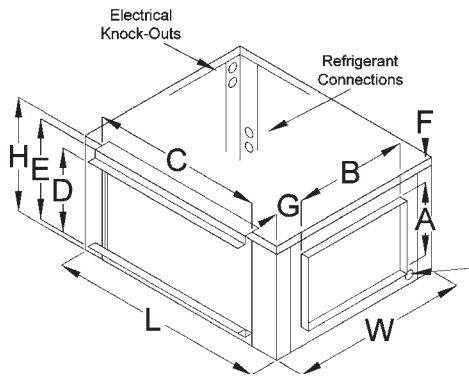
**Right Hand Return Straight Through
GT___-AHX-XRS**



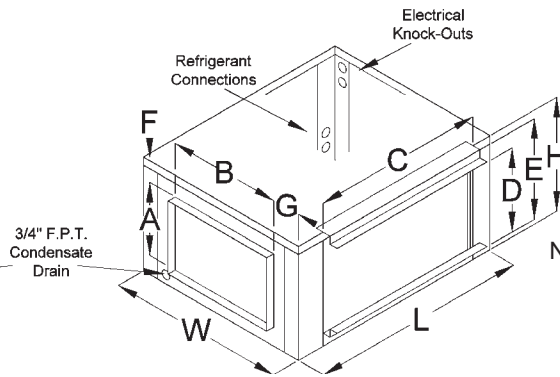
**Left Hand Return Straight Through
GT___-AHX-XLS**



**Right Hand Return End Blow
GT___-AHX-XRE**



**Left Hand Return End Blow
GT___-AHX-XLE**



NOTES: All dimensions within +/- 0.125".
 Not available with hot gas reheat or bypass.
 Consult factory for available options.
 Internal electric heat available on 208/230-1-60 units.
 Specifications subject to change without notice.



GeoMaster, LLC
 3512 Cavalier Drive
 Fort Wayne, IN 46808
 877-443-6411
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EM072-360 Series Split Systems

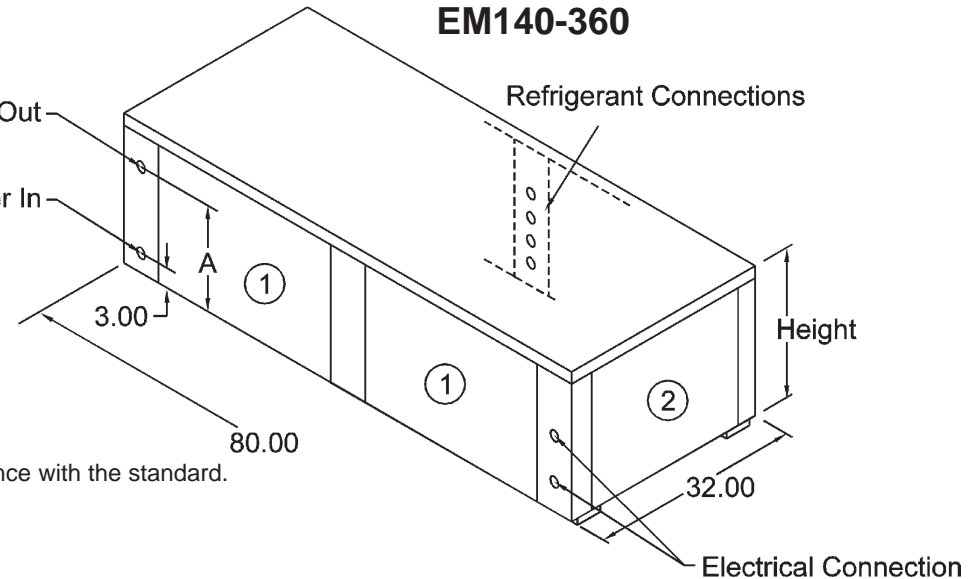
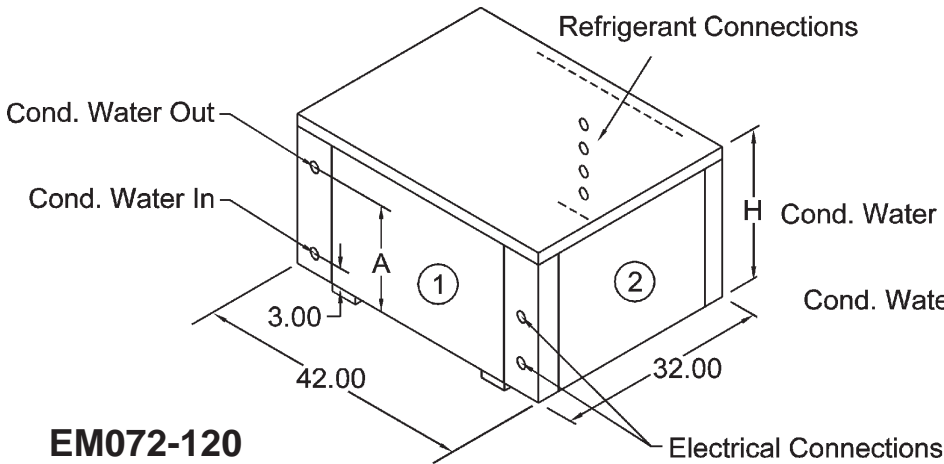
Condensing Sections

MODEL	Dimensions				ISO 13256-1 Performance								GPM	
	Height	"A"	Suct.	Liquid	WLHP Cooling		WLHP Heating		GWHP Cooling		GWHP Heating			GLHP Ratings See Note
		Cond Out	Line Dia	Line Dia	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP		
EM072	22.00	18.00	7/8"	1/2"	69500	13.7	70500	4.5	79000	17.6	58500	4.0	16.0	
EM096	22.00	15.00	7/8"	1/2"	93000	12.9	104000	4.6	98000	17.6	83000	4.0	22.0	
EM120	22.00	16.00	7/8"	1/2"	118000	13.1	139000	4.9	132000	17.6	109000	4.2	28.0	
EM140/144	22.00	17.50	7/8"	5/8"	137000	11.3	171000	4.1	159000	15.3	139000	3.8	35.0	
EM168	22.00	17.50	7/8"	5/8"	147000	15.0	170000	5.4	173000	22.6	135000	4.8	35.0	
EM210	22.00	19.38	1-1/8"	7/8"	171000	13.3	192000	4.7	184000	18.8	147000	4.0	42.0	
EM240	22.00	16.88	1-1/8"	7/8"	210000	13.7	255000	4.9	276000	21.3	193000	4.3	50.0	
EM300	26.50	16.88	1-1/8"	7/8"	235000	13.5	343000	4.7	294000	19.9	235000	4.3	60.0	
EM360	27.00	15.00	1-3/8"	7/8"	279000	12.2	353000	4.0	343000	17.7	284000	3.6	75.0	



Panel 1 Accesses Compressors, Electrical and Refrigeration Components
 Panel 2 Accesses Compressors and Refrigeration Components

EM__ - CS_ - FXX



NOTES: All dimensions within +/- 0.125".
 EM072-120 are certified at ISO 13256-1.
 EM140-360 are beyond the scope of the ISO program but are rated in accordance with the standard.
 GLHP performance certified with extended range package installed.
 See extended range performance table for GLHP ratings.
 Performance certified with corresponding EM-Series air handling unit.
 Split systems are not available with hot gas reheat or bypass options.
 Consult factory for available options.
 Specifications subject to change without notice.



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 877-443-6411
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EM072-360 Series Split Systems

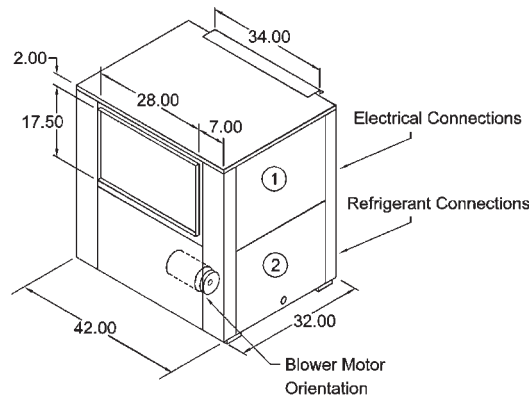
Vertical Air Handler Dimensions

Dimensions					
All Dimensions +/- 0.125"					
Model	A Unit Height	B Filtr Rack Height	C R/A Duct Flg Height	Suction Line Diameter	Liquid Line Diameter
072	41.00	40.00	38.00	7/8"	1/2"
096	41.00	40.00	38.00	7/8"	1/2"
120	41.00	40.00	38.00	7/8"	1/2"
144	41.00	40.00	38.00	7/8"	5/8"
168	41.00	40.00	38.00	7/8"	5/8"
210	41.00	40.00	38.00	1-1/8"	7/8"
240	41.00	40.00	38.00	1-1/8"	7/8"
300	41.00	40.00	38.00	1-1/8"	7/8"
360	61.00	60.00	58.00	1-3/8"	7/8"

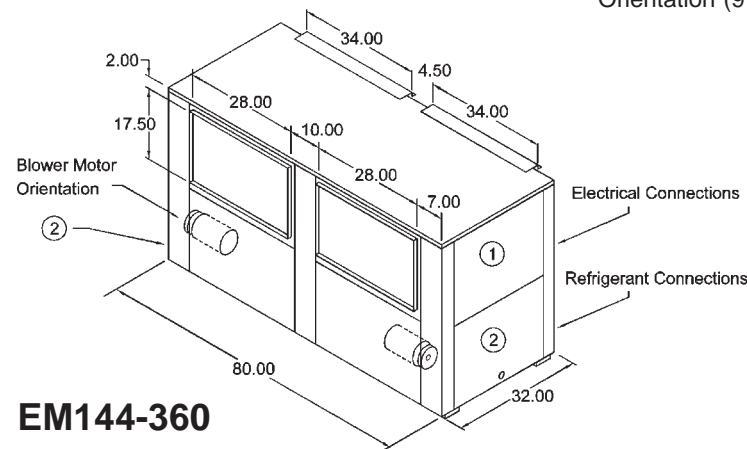
Recommended Replacement Filter Size (Nominal)	
20 x 34-1/2 x 1	(2 per unit, 072-120)
20 x 34-1/2 x 1	(4 per unit, 144-300)
30 x 34-1/2 x 1	(4 per unit, 360)

Service Access	
Panel #	Access To:
1	Controls, Blower
2	Blower & Motor

**Front Return
Rear Supply**
 EM ___ - __AVX-XFR

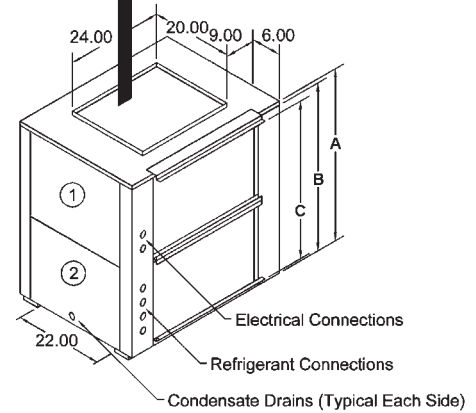


**Front Return
Rear Supply**
 EM ___ - __AVX-XFR



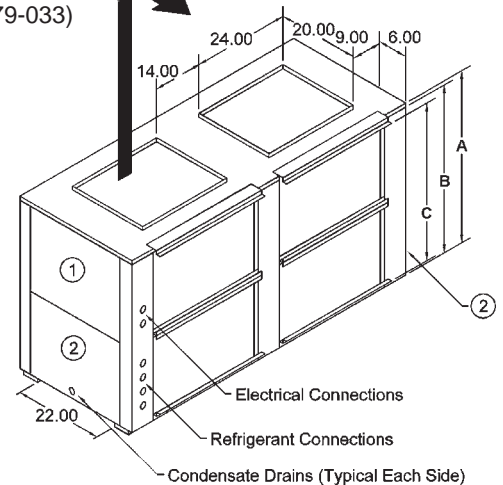
**Front Return
Top Supply**
 EM ___ - __AVX-XFT

Standard Blower Orientation
 Optional Blower Orientation (979-033)



**Front Return
Top Supply**
 EM ___ - __AVX-XFT

Standard Blower Orientation
 Optional Blower Orientation (979-033)



Not available with hot gas reheat or bypass options. Consult factory for available options.
 Due to continuing research and development, specifications are subject to change with out notice.

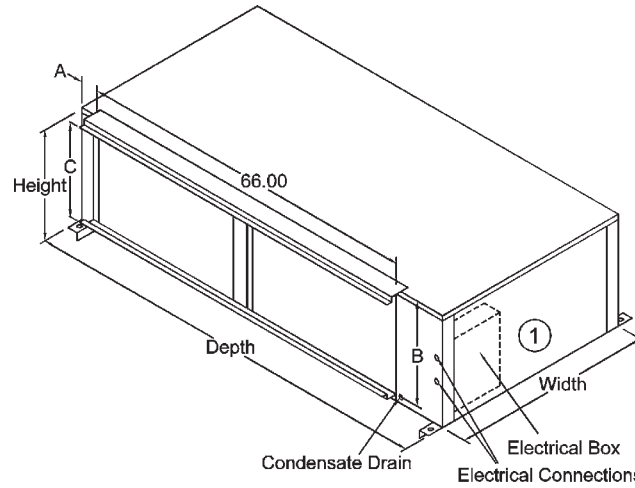


GeoMaster, LLC
 3512 Cavalier Drive
 Fort Wayne, IN 46808
 877-443-6411
 www.geoexcel.com

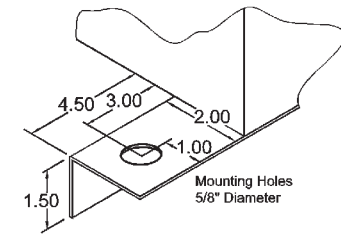
EM072-140 Series Split Systems

Horizontal Air Handler Dimensions

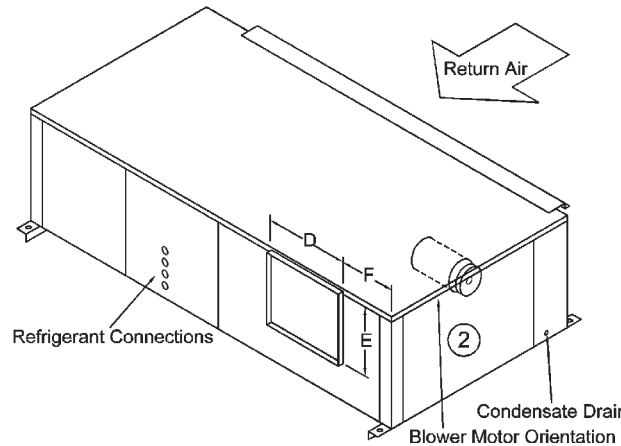
Dimensions				
All Dimensions +/- 0.125"				
Dimension	Model			
	-072	-096	-120	-140
Height	21.00	21.00	21.00	25.00
Width	38.00	38.00	38.00	42.00
Depth	78.00	78.00	78.00	82.00
Return Air Dimensions				
A	2.00	2.00	2.00	2.00
B	20.00	20.00	20.00	23.50
C	18.00	18.00	18.00	21.50
Refrigerant Connection Size (2 each)				
Liquid	1/2"	1/2"	1/2"	5/8"
Suction	7/8"	7/8"	7/8"	7/8"
Supply Air Dimensions (Blower Outlet)				
J	15.50	15.50	12.50	18.50
K	13.50	13.50	13.50	16.00
L	10.50	10.50	5.25	14.00
Replacement Filter Size				
072-120	20 x 34-1/2 x 1 (2 per unit)			
140	24 x 34 x 1 (2 per unit)			
Service Access				
Panel#	Access To:			
1	Control Box			
2	Blower & Motor			



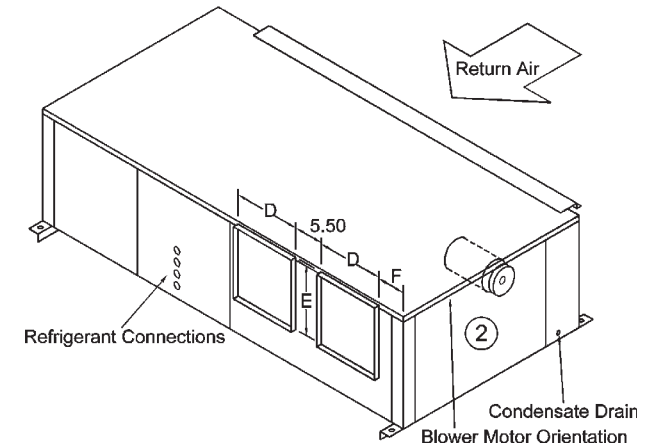
EM ____ - AHX-SLS



MOUNTING BRACKET SECTION VIEW



EM072, 096 & 140 (-SLS Only)



EM120 (-SLS Only)

Notes: All condensate connections are 0.75" FPT.
 Not available with hot gas reheat or bypass options. Consult factory for available options.
 Due to continuing research and development, specifications are subject to change without notice. LEMAHDGIP ISO.P65 Rev:12-16-99

EM-SERIES SPLIT SYSTEMS EXTENDED RANGE RATINGS

HIGH-EFFICIENCY WATER SOURCE HEAT PUMPS, GEOEXCEL EM LINE



Model Number	Rated CFM	Rated GPM	Cooling Capacity	EER	Heating Capacity	COP
EM007	300	2	7400	13.3	5400	3.1
EM009	350	3	9800	12.9	7000	2.9
EM012	400	3	11600	12.0	8000	2.6
EM015	500	4	14500	12.4	10700	2.7
EM018	650	5	18600	13.1	12500	3.1
EM024	850	6	23500	15.1	16500	3.4
EM028	950	7	29000	14.3	18500	3.2
EM031	1000	7.5	33500	14.4	23000	2.9
EM036	1200	9	34000	15.0	23000	3.3
EM041	1100	9	38000	13.0	27000	3.1
EM042	1400	10	41500	13.3	29000	3.1
EM048	1600	12	50000	13.1	37000	3.3
EM060	2000	15	60000	13.7	47000	3.1
EM070	2200	16	67500	13.6	52000	3.3
EM072	2400	16	71500	15.5	46000	3.5
EM096	2800	22	94000	14.7	64500	3.4
EM120	4000	28	122000	15.8	90000	3.5
EM140	5000	35	140000	12.1	102000	3.1
EM144	5000	35	153000	16.7	98000	4.0
EM168	6000	42	172000	14.4	109000	3.3
EM210	7000	50	230000	16.1	142000	3.7
EM240	8000	60	255000	15.2	166000	3.6
EM300	10000	75	294000	13.1	206000	2.8
EM360	12000	90	381000	15.7	235000	3.1

ISO 13256-1 Ground Loop Heat Pump Rating Conditions

	Entering Air Temp		Entering Fluid Temp
	Dry Bulb	Wet Bulb	
Cooling	80.6°F (27°C)	66.2°F (19°C)	77°F (25°C)
Heating	68°F (20°C)		32°F (0°C)



EM007 through EM120 are certified to ARI / ISO Standard 13256-1 for Ground Loop Heat Pump applications. EM140-EM360 are beyond the scope of ARI / ISO Standard 13256-1 but are rated in accordance with the rating conditions of the Ground Loop Heat Pump application point. All ratings reflect a matched condensing section/air handler set.

All EM-Series units must have the optional extended range performance option installed to run at conditions outside of those shown in the performance tables of the individual unit specification data sheets. The ratings shown above reflect the use of the extended range performance option.

Minimum entering fluid temperature with fresh water is 45°F (7.2°C). The above ratings are based on the use of a solution of 15% methanol and 85% water by weight. GeoMaster, LLC recommends antifreeze protection to at least 20°F (11°C) below the lowest entering fluid temperature.

Note: Published fluid side pressure drop tables are based on 70° (21°C) fresh water. When designing the system, pressure drop should be modified for antifreeze content and fluid temperature. GeoMaster, LLC recommends adding 0.2% to the system pressure drop for every 1°F (0.36% / 1°C) below 70°F (21°C) in addition to any antifreeze correction factors.