

ATLAS

GEOEXCHANGE ► SYSTEM

SPECIFICATION CATALOG

NOTE: PRELIMINARY REVISION

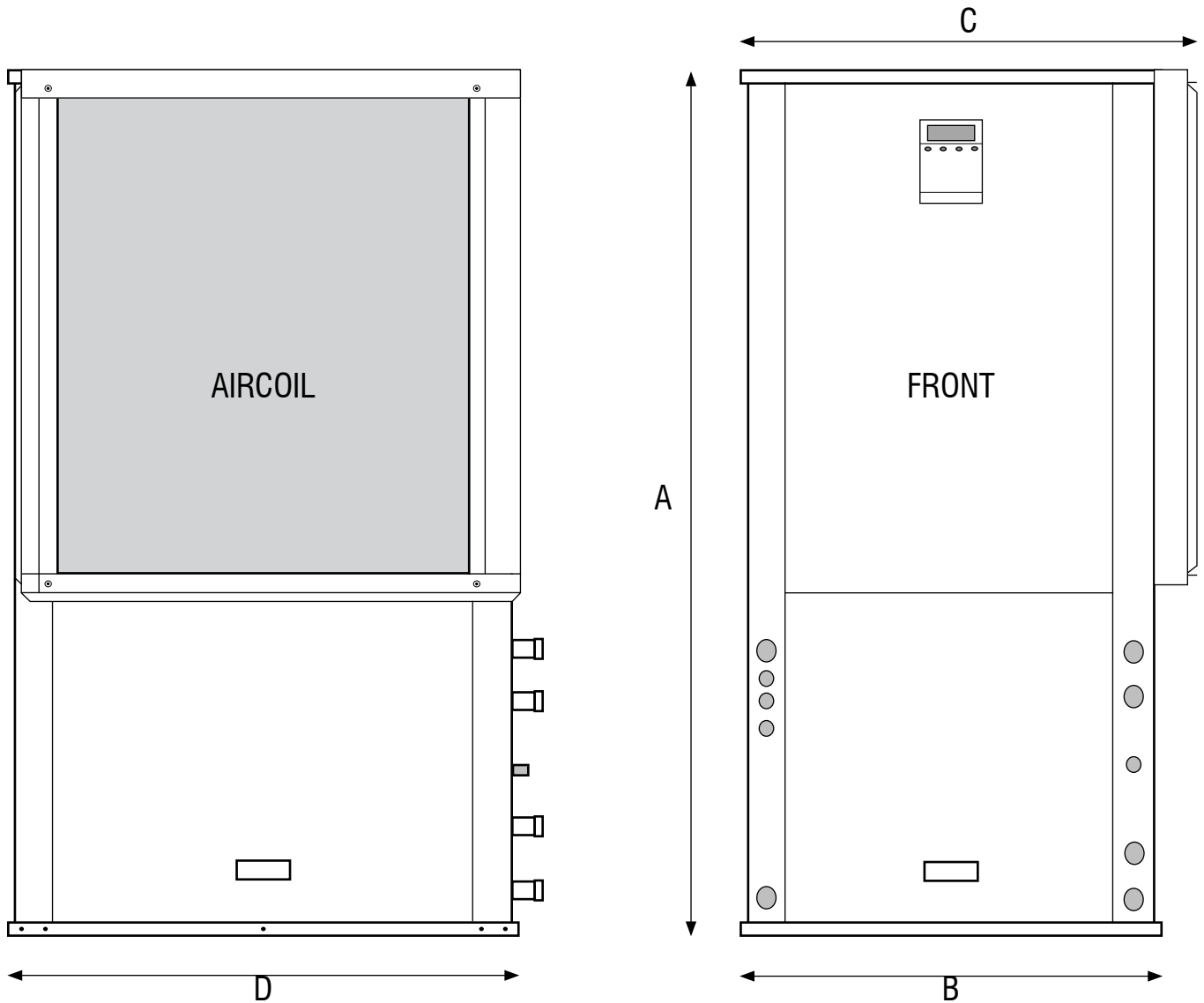
DECEMBER 2010

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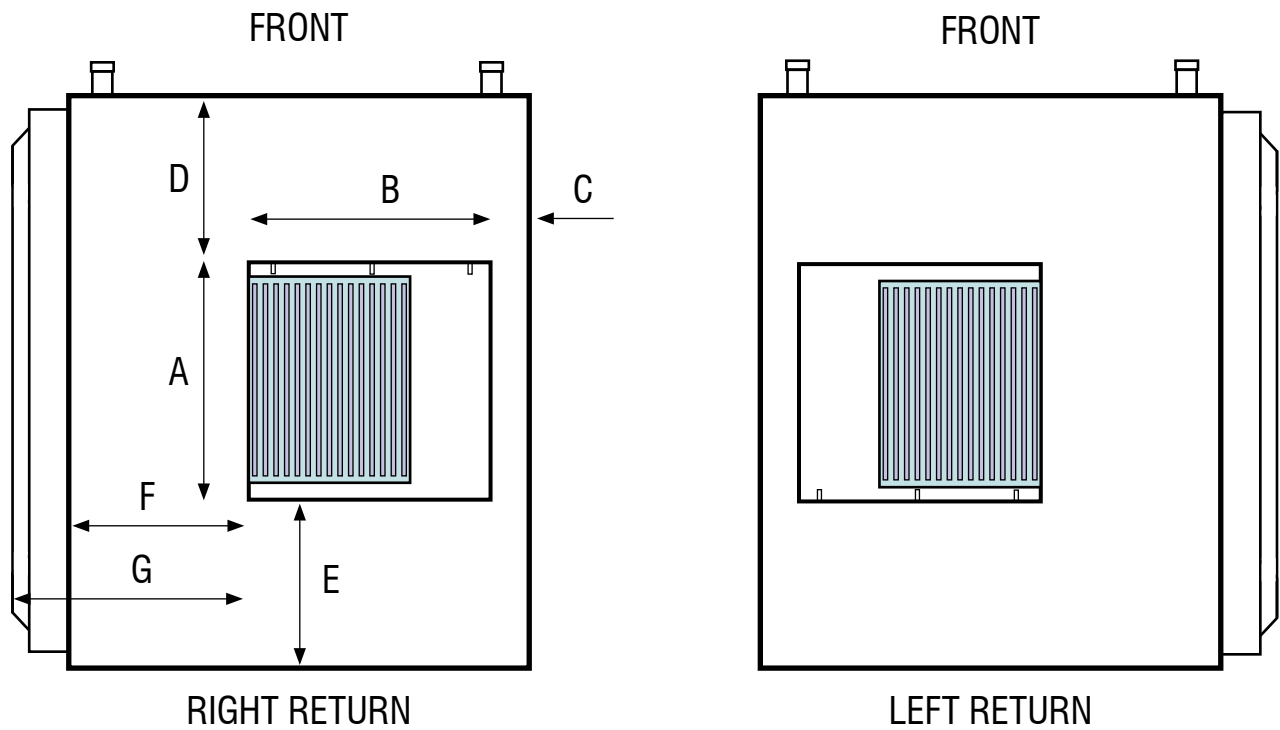
GE  **FINITY**
M A N U F A C T U R I N G

rev 1.2

VERTICAL CABINET DIMENSIONS					
MODEL		A	B	C	D
AT036	cm.	133.25	65.0	71.0	87.75
	in.	52.25	25.5	28.0	31.0
AT048	cm.	140.0	65.0	71.0	82.5
	in.	55.0	25.5	28.0	32.5
AT060-066	cm.	155.0	65.0	71.0	82.5
	in.	61.0	25.5	28.0	32.5



BLOWER OPENING - VERTICAL TOP/BOTTOM DISCHARGE								
MODEL		A	B	C	D	E	F	G
AT036	cm.	23.0	24.25	6.5	28.0	28.0	28.0	34.25
	in.	9.0	9.5	2.5	11.0	11.0	11.0	13.5
AT048	cm.	34.5	33.0	6.5	25.5	25.5	23.5	30.0
	in.	13.5	13.0	2.5	10.0	10.0	9.25	11.75
AT060-066	cm.	34.5	33.0	6.5	25.5	25.5	23.5	30.0
	in.	13.5	13.0	2.5	10.0	10.0	9.25	11.75

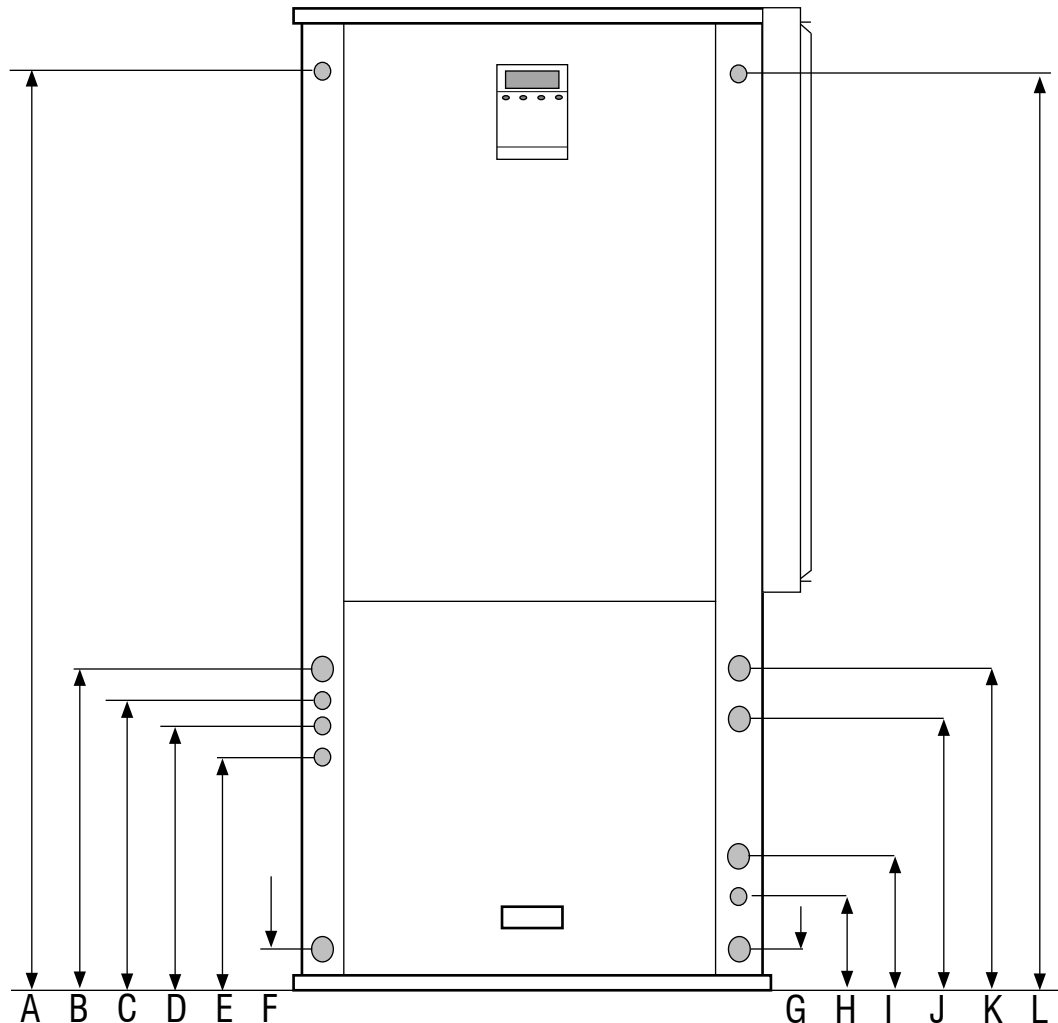


KNOCKOUTS & CONNECTIONS - VERTICAL

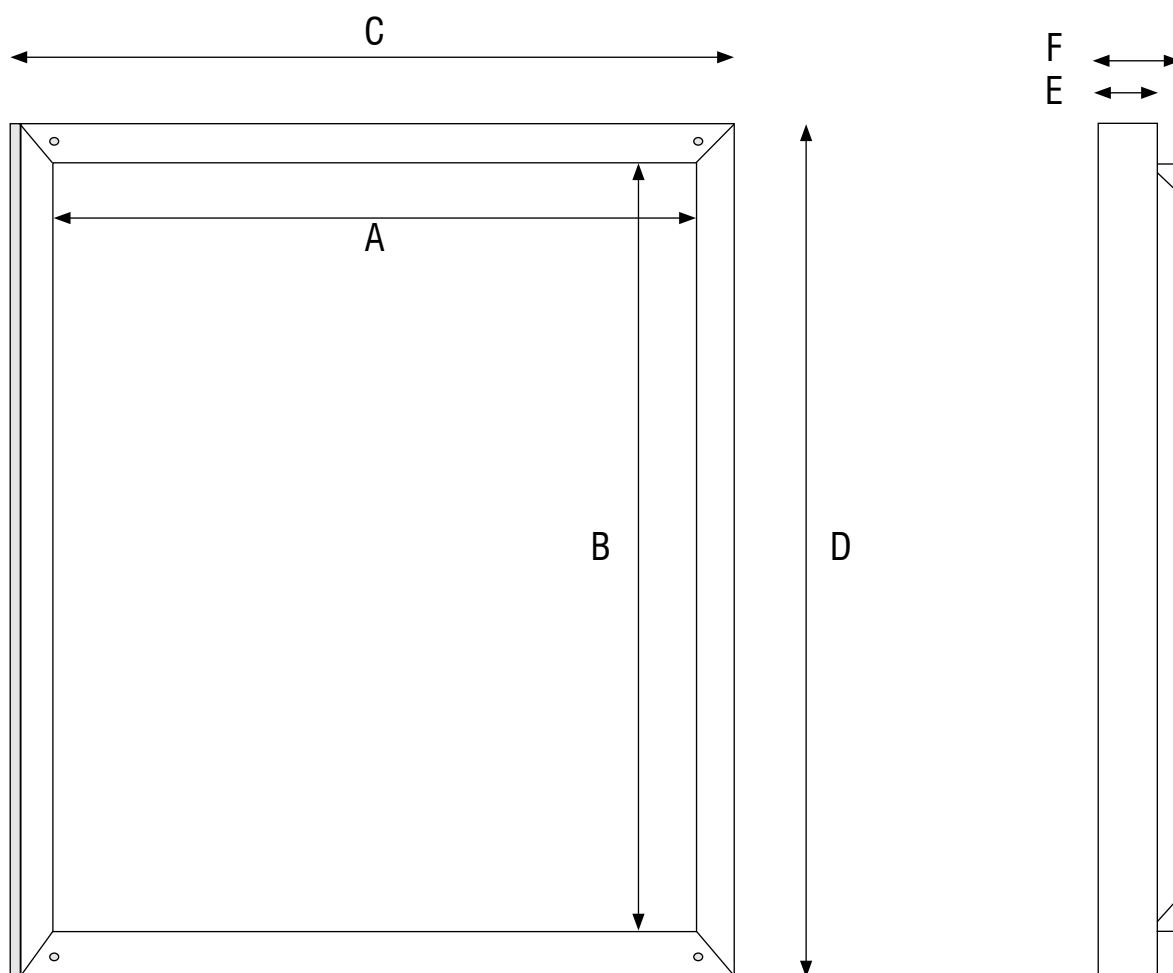
MODEL		A	B	C	D	E	F	G	H	I	J	K	L
		AUX HEAT	LOAD /HYD OUT	UNIT POWER	CONTROL	PUMP POWER	LOAD /HYD IN	SOURCE /GEO IN	CONDENSATE	DHW IN	DHW OUT	SOURCE /GEO OUT	AUX HEAT
AT036	cm.	117.0	49.5	43.5	38.5	12.5	4.5	4.5	12.5	20.5	41.5	49.5	117.0
	in.	46.0	19.5	17.25	15.25	5.0	1.75	1.75	5.0	8.0	16.5	19.5	46.0
AT048	cm.	123.5	43.0	35.0	50.0	43.0	5.0	5.0	12.0	18.0	36.0	43.0	123.5
	in.	48.75	17.0	13.75	19.75	17.0	2.0	2.0	4.75	7.0	14.0	17.0	48.75
AT060-066	cm.	140.0	65.5	61.5	57.5	52.5	5.0	5.0	12.0	18.0	36.0	52.5	140.0
	in.	55.0	25.75	24.25	22.75	20.75	2.0	2.0	4.75	7.0	14.0	22.75	55.0

All water connections 1" FPT swivel
Condensate is 3/4" PVC female glue socket

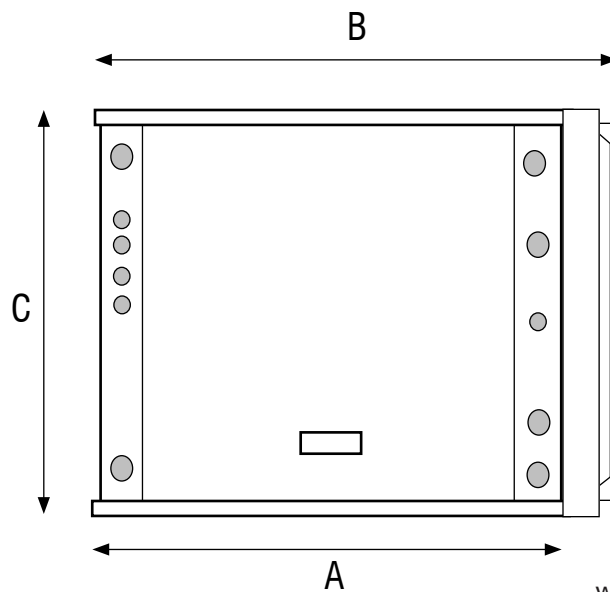
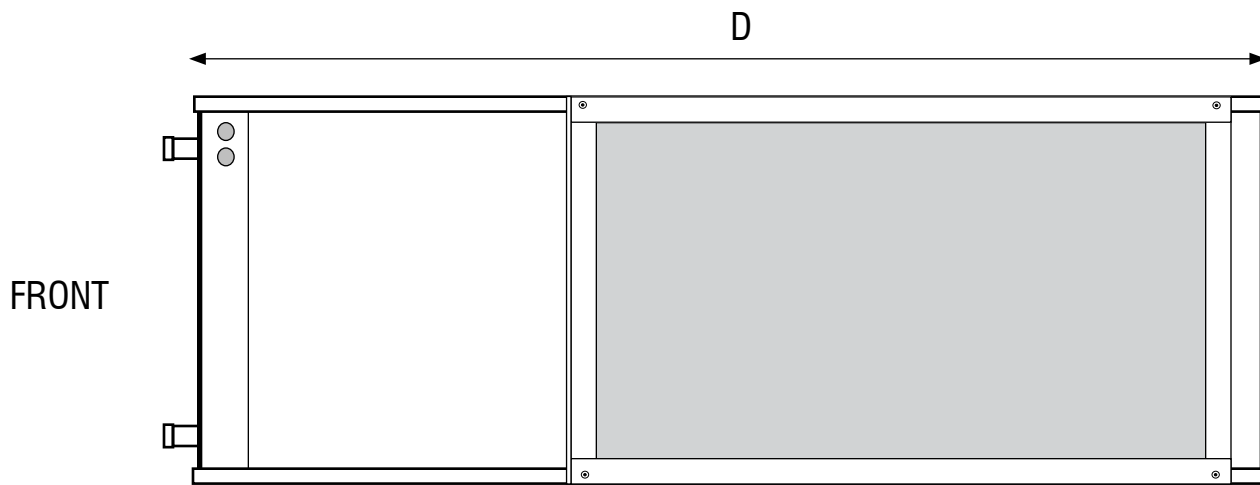
FRONT



FILTER RACK - VERTICAL CABINETS							
MODEL		A	B	C	D	E	F
AT036	cm.	70.5	76.25	77.5	82.5	6.5	8.25
	in.	27.75	30.0	30.5	32.5	2.5	3.25
AT048	cm.	74.9	81.1	80.4	86.3	6.5	8.25
	in.	29.5	31.9	31.7	34.0	2.5	3.25
AT060-066	cm.	74.9	90.6	80.7	95.8	6.5	8.25
	in.	29.5	35.7	31.8	37.8	2.5	3.25

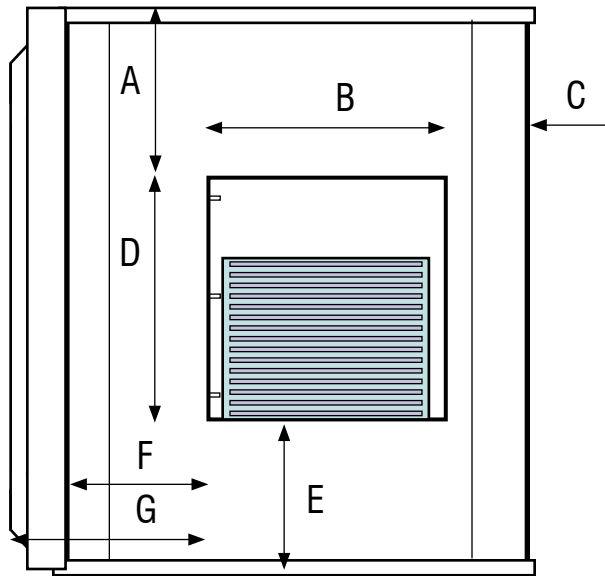


HORIZONTAL CABINET DIMENSIONS					
MODEL		A	B	C	D
AT036	cm	64.75	71.25	54.5	172.75
	in	25.5	28.0	21.5	68.0
AT048	cm	64.75	71.25	56.9	183
	in	25.5	28.0	22.5	72.0
AT060-066	cm	64.75	71.25	56.9	195.5
	in	25.5	28.0	22.5	77.0

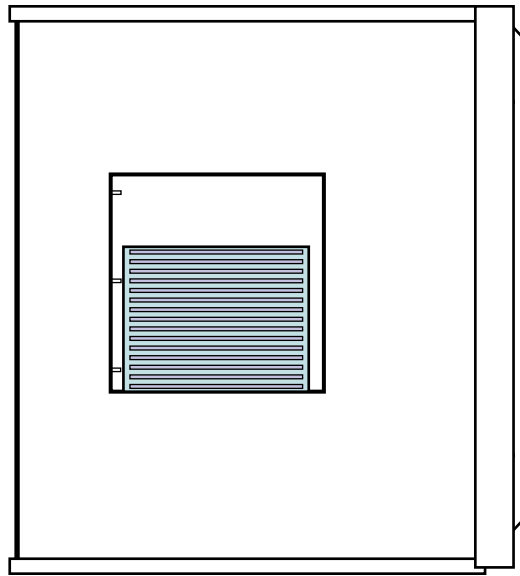


BLOWER OPENING - HORIZONTAL												
MODEL		A	B	C	D	E	F	G	I	J	K	L
AT036	cm.	14.0	23.5	14.0	25.5	14.0	26.75	35.5	135.25	14.0	12.75	14.0
	in.	5.5	9.25	5.5	10.0	5.5	10.5	14.0	53.25	5.5	5.0	5.5
AT048	cm.	9.5	33.75	12.75	35.0	7.75	18.5	28.0	136.5	9.5	12.75	7.75
	in.	3.75	13.25	5.0	13.75	3.0	7.25	11.0	53.75	3.75	5.0	3.0
AT060-066	cm.	9.5	33.75	12.75	35.0	7.75	18.5	28.0	149.25	9.5	12.75	7.75
	in.	3.75	13.25	5.0	13.75	3.0	7.25	11.0	58.75	3.75	5.0	3.0

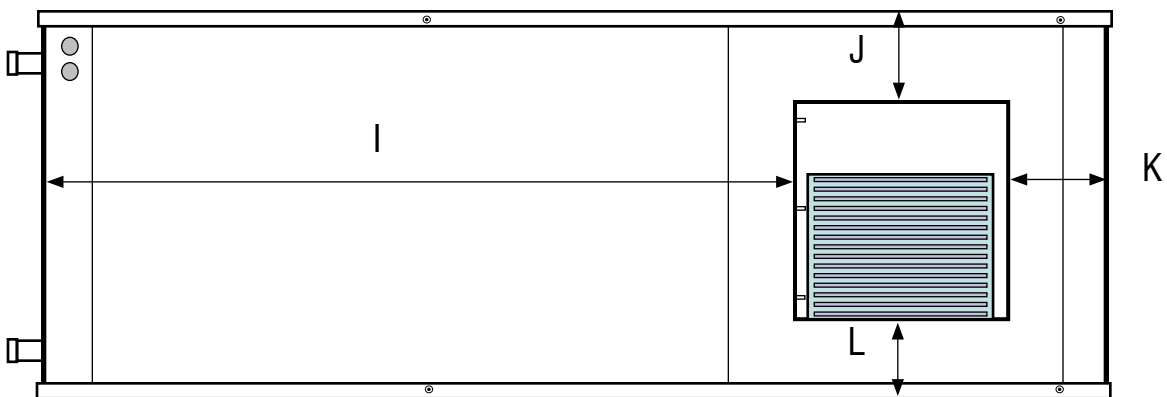
RIGHT RETURN - END



LEFT RETURN - END

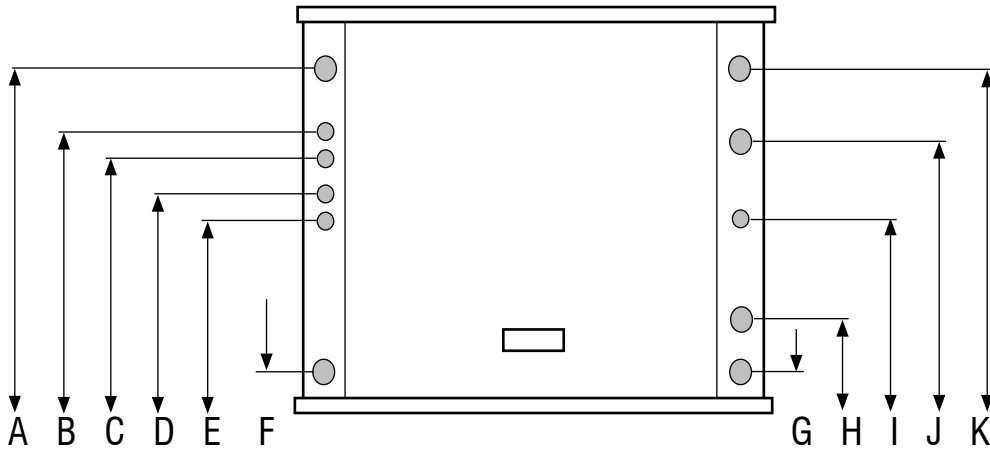


FRONT

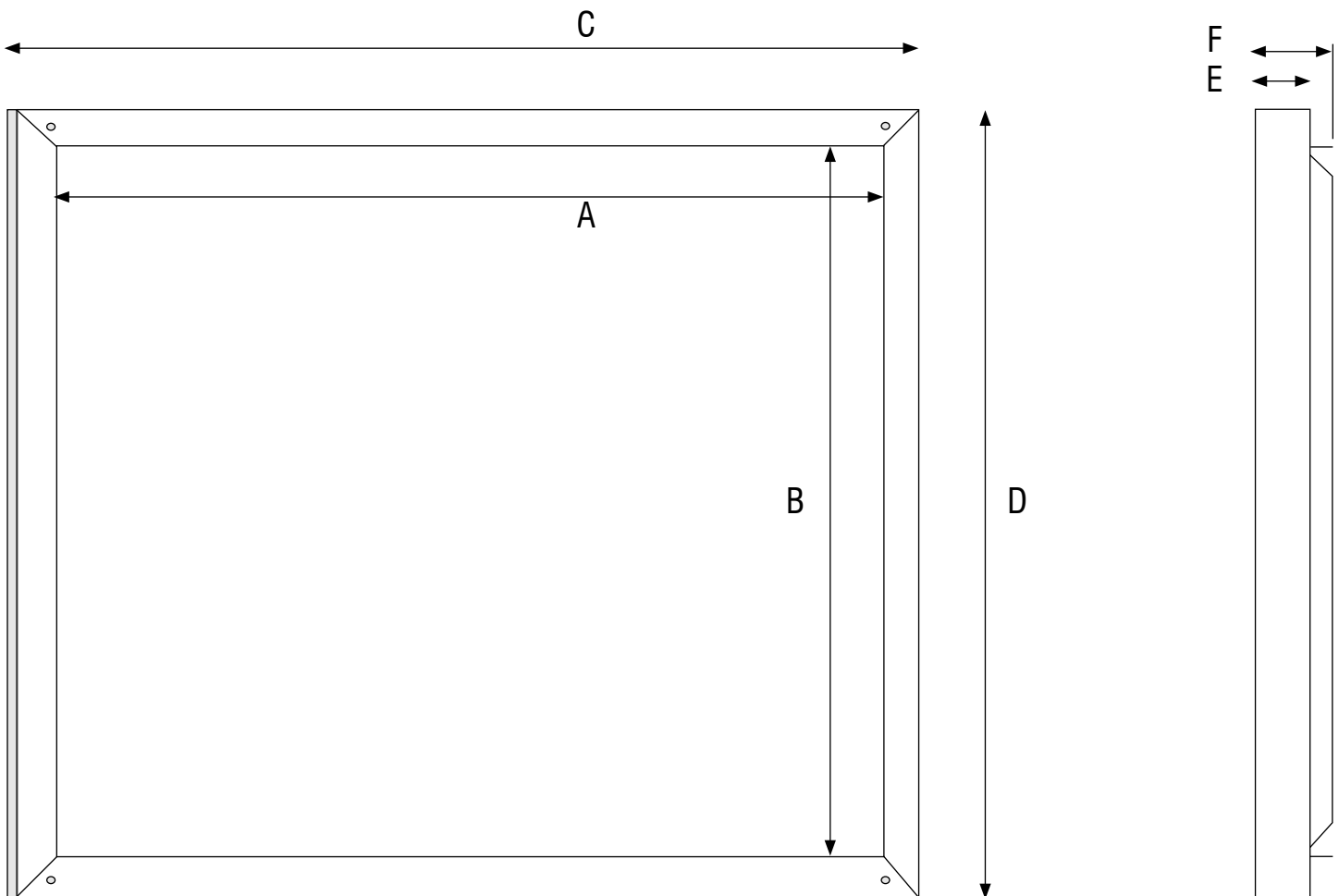


KNOCKOUTS & CONNECTIONS - HORIZONTAL												
MODEL		A	B	C	D	E	F	G	H	I	J	K
		LOAD /HYD OUT	UNIT POWER	UNIT POWER	CONTROL	PUMP POWER	LOAD /HYD IN	SOURCE /GEO IN	CONDENSATE	DHW IN	DHW OUT	SOURCE /GEO OUT
AT036 - AT060	cm.	48	34.5	29.5	24.5	19.5	5	5	12	18	36	48
	in.	19	13.5	11.75	9.75	7.75	2	2	5	7	14	19
AT048 - AT066	cm.	50	34.5	29.5	24.5	19.5	5	5	12	18	36	50
	in.	22	13.5	11.75	9.75	7.75	2	2	5	7	14	22

All water connections 1" FPT swivel
Condensate is 3/4" PVC female glue socket



FILTER RACK - HORIZONTAL CABINETS							
MODEL		A	B	C	D	E	F
AT036	cm.	92.0	48.25	99.0	56.0	6.5	8.25
	in.	36.25	19.0	39.0	21.25	2.5	3.25
AT048	cm.	103.7	52.7	109.8	58.1	6.5	8.25
	in.	40.8	20.7	43.2	22.9	2.5	3.25
AT060-066	cm.	115.9	52.7	122.3	58.1	6.5	8.25
	in.	45.6	20.7	48.1	22.9	2.5	3.25



PERFORMANCE RATING - CSA/ISO 13256-1											
CAP. LOAD	MOTOR	FLOW RATE		GROUND WATER				GROUND LOOP			
				COOLING EWT 59°F		HEATING EWT 50°F		COOLING BRINE FULL LOAD EWT 77°F PART LOAD 68°F		HEATING BRINE FULL LOAD EWT 32°F PART LOAD 41°F	
		GPM	CFM	CAPACITY BTUH	EER	CAPACITY BTUH	COP	CAPACITY BTUH	EER	CAPACITY BTUH	COP
AT036-FULL	ECM	9	1300	39,700	20.9	36,300	4.4	36,800	16.1	29,400	3.8
AT036-PART	ECM	8	1150	29,500	28.7	26,000	5.1	27,100	23.6	22,900	4.5

Cooling capacities based upon 80.6 °F DB, 66.2 °F WB entering air temperature
 Heating capacities based upon 68 °F DB entering air temperature
 All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS

MODEL	RATED VOLTAGE	COMPRESSOR		FAN		HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		RLA	LRA	FLA	HP	DHW	HYD				
						FLA	FLA	FLA			
AT036 - Single Capacity	208-230/60/1	14.1	73.0	4.2	1/2	0.4	1.8	1.8	22.3	25.8	40
AT036 - Dual Capacity	208-230/60/1	16.7	82.0	4.2	1/2	0.4	1.8	1.8	24.9	29.1	40

PRESSURE DROP (PSI)

SIZE	FLOW (GPM)	-1°C/30°F	10°C/50°F	21°C/70°F	32°C/90°F	43°C/110°F
AT036	5	1.9	1.7	1.5	1.3	1.1
	9	3.3	3.0	2.8	2.6	2.4
	12	5.1	5.3	5.5	5.7	5.9

MECHANICAL SPECIFICATIONS

VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
9.5x9	173 kg	197 kg	R-410A	9.5x9	kg	kg	R-410A
	380 lbs	434 lbs			lbs	lbs	

PERFORMANCE RATING - CSA/ISO 13256-1											
CAP. LOAD	MOTOR	FLOW RATE		GROUND WATER				GROUND LOOP			
				COOLING EWT 59°F		HEATING EWT 50°F		COOLING BRINE FULL LOAD EWT 77°F PART LOAD 68°F		HEATING BRINE FULL LOAD EWT 32°F PART LOAD 41°F	
		GPM	CFM	CAPACITY BTUH	EER	CAPACITY BTUH	COP	CAPACITY BTUH	EER	CAPACITY BTUH	COP
AT048-FULL	ECM	12	1600	47,000	19.1	46,400	4.6	47,000	17.0	34,900	4.1
AT048-PART	ECM	11	1200	37,600	23.7	30,600	4.7	35,600	20.2	29,900	4.4

Cooling capacities based upon 80.6 °F DB, 66.2 °F WB entering air temperature
 Heating capacities based upon 68 °F DB entering air temperature
 All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS

MODEL	RATED VOLTAGE	COMPRESSOR		FAN		HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		RLA	LRA	FLA	HP	DHW	HYD				
		FLA	FLA	FLA							
AT048 - Single Capacity	208-230/60/1	19.9	109.0	4.2	1/2	0.4	1.8	3.6	29.9	34.9	50
AT048 - Dual Capacity	208-230/60/1	21.2	96.0	4.2	1/2	0.4	1.8	3.6	31.2	36.5	50

PRESSURE DROP (PSI)

SIZE	FLOW (GPM)	-1°C/30°F	10°C/50°F	21°C/70°F	32°C/90°F	43°C/110°F
AT048	6	1.2	1.1	1.1	1.0	0.9
	12	2.6	2.5	2.4	2.3	2.2
	16	3.5	3.3	3.2	3.1	3.0

MECHANICAL SPECIFICATIONS

VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
13.5x13	221 kg	245 kg	R-410A	13.5x13	kg	kg	R-410A
	486 lbs	540 lbs			lbs	lbs	

PERFORMANCE RATING - CSA/ISO 13256-1											
CAP. LOAD	MOTOR	FLOW RATE		GROUND WATER				GROUND LOOP			
				COOLING EWT 59°F		HEATING EWT 50°F		COOLING BRINE FULL LOAD EWT 77°F PART LOAD 68°F		HEATING BRINE FULL LOAD EWT 32°F PART LOAD 41°F	
		GPM	CFM	CAPACITY BTUH	EER	CAPACITY BTUH	COP	CAPACITY BTUH	EER	CAPACITY BTUH	COP
AT060-FULL	ECM	16	2000	65,000	19.5	64,700	4.4	61,600	15.6	53,000	3.9
AT060-PART	ECM	14	1500	46,800	24.6	47,500	4.8	44,400	20.4	42,600	4.4

Cooling capacities based upon 80.6 °F DB, 66.2 °F WB entering air temperature
 Heating capacities based upon 68 °F DB entering air temperature
 All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS

MODEL	RATED VOLTAGE	COMPRESSOR		FAN		HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		RLA	LRA	FLA	HP	DHW	HYD				
		FLA	FLA	FLA							
AT060 - Single Capacity	208-230/60/1	26.4	134.0	7.8	1	0.4	1.8	3.6	40.0	46.6	60
AT060 - Dual Capacity	208-230/60/1	25.6	118.0	7.8	1	0.4	1.8	3.6	39.2	45.6	60

PRESSURE DROP (PSI)

SIZE	FLOW (GPM)	-1°C/30°F	10°C/50°F	21°C/70°F	32°C/90°F	43°C/110°F
AT060	8	2.0	1.9	1.6	1.4	1.3
	15	5.6	5.3	4.6	4.1	4.0
	20	7.5	7.1	6.2	5.5	5.4

MECHANICAL SPECIFICATIONS

VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
13.5x13	272 kg	296.5 kg	R-410A	13.5x13	kg	kg	R-410A
	600 lbs	654 lbs			lbs	lbs	

PERFORMANCE RATING - CSA/ISO 13256-1											
CAP. LOAD	MOTOR	FLOW RATE		GROUND WATER				GROUND LOOP			
				COOLING EWT 59°F		HEATING EWT 50°F		COOLING BRINE FULL LOAD EWT 77°F PART LOAD 68°F		HEATING BRINE FULL LOAD EWT 32°F PART LOAD 41°F	
		GPM	CFM	CAPACITY BTUH	EER	CAPACITY BTUH	COP	CAPACITY BTUH	EER	CAPACITY BTUH	COP
AT066-FULL	ECM	18	2400	74,000	19.5	74,000	4.5	70,000	15.8	60,300	4.0
AT066-PART	ECM	18	1800	54,700	23.5	55,600	4.8	51,700	20.0	49,800	4.4

Cooling capacities based upon 80.6 °F DB, 66.2 °F WB entering air temperature
 Heating capacities based upon 68 °F DB entering air temperature
 All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS

MODEL	RATED VOLTAGE	COMPRESSOR		FAN		HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		RLA	LRA	FLA	HP	DHW	HYD				
						FLA	FLA	FLA			
AT066 - Single Capacity	208-230/60/1	30.1	158.0	7.8	1	0.4	1.8	3.6	43.7	51.2	70
AT066 - Dual Capacity	208-230/60/1	27.2	150.0	7.8	1	0.4	1.8	3.6	40.8	47.6	70

PRESSURE DROP (PSI)

SIZE	FLOW (GPM)	-1°C/30°F	10°C/50°F	21°C/70°F	32°C/90°F	43°C/110°F
AT066	9	3.1	2.9	2.5	2.3	2.2
	17	6.1	5.8	5.0	4.5	4.4
	24	8.1	7.7	6.7	6.0	5.9

MECHANICAL SPECIFICATIONS

VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
13.5x13	272 kg	296.5 kg	R-410A	13.5x13	kg	kg	R-410A
	601 lbs	655 lbs			lbs	lbs	