

ZEPHYRUS

GEOEXCHANGE ► SYSTEM

SPECIFICATION CATALOG

NOTE: PRELIMINARY REVISION

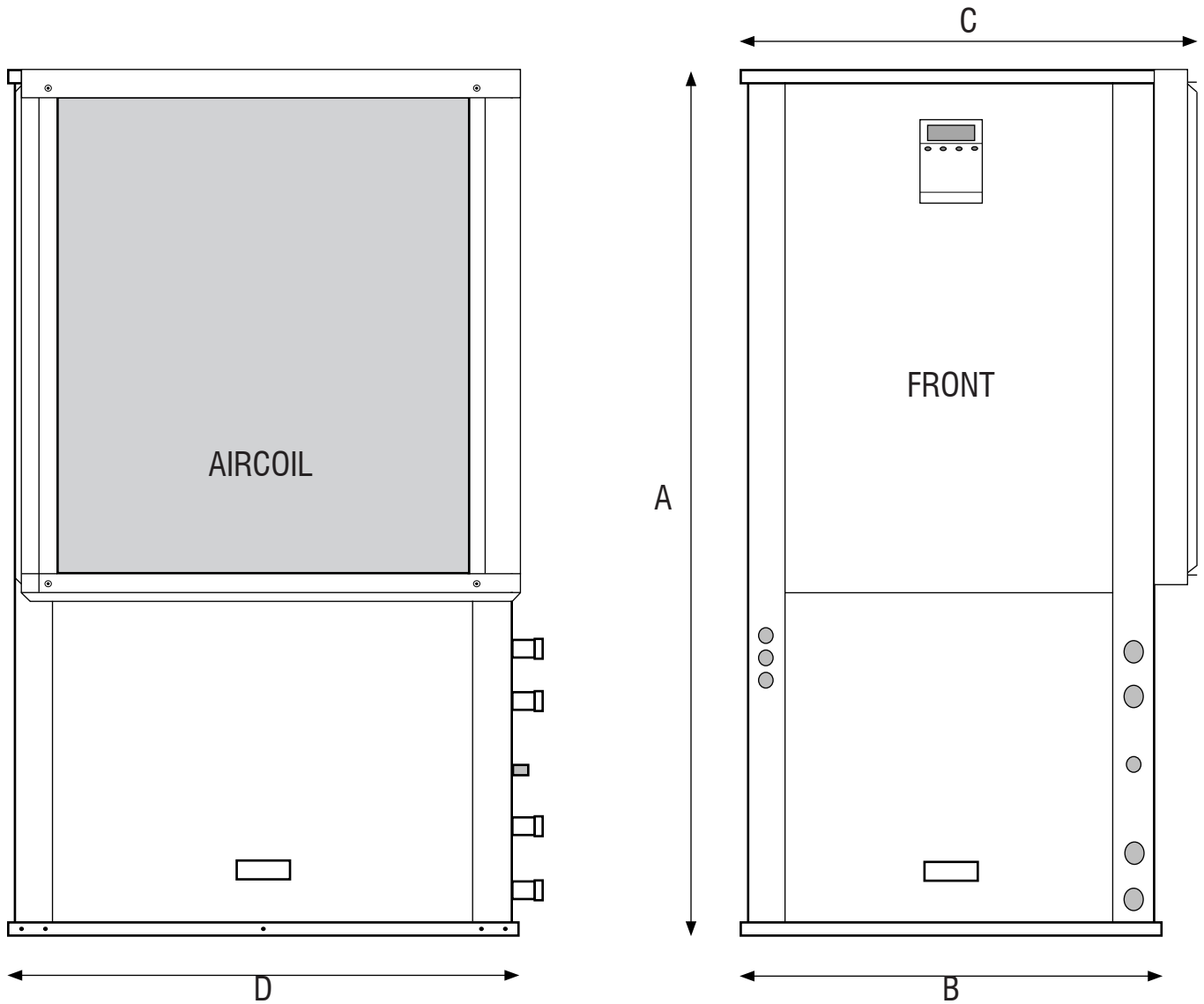
DECEMBER 2010

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M A N U F A C T U R I N G

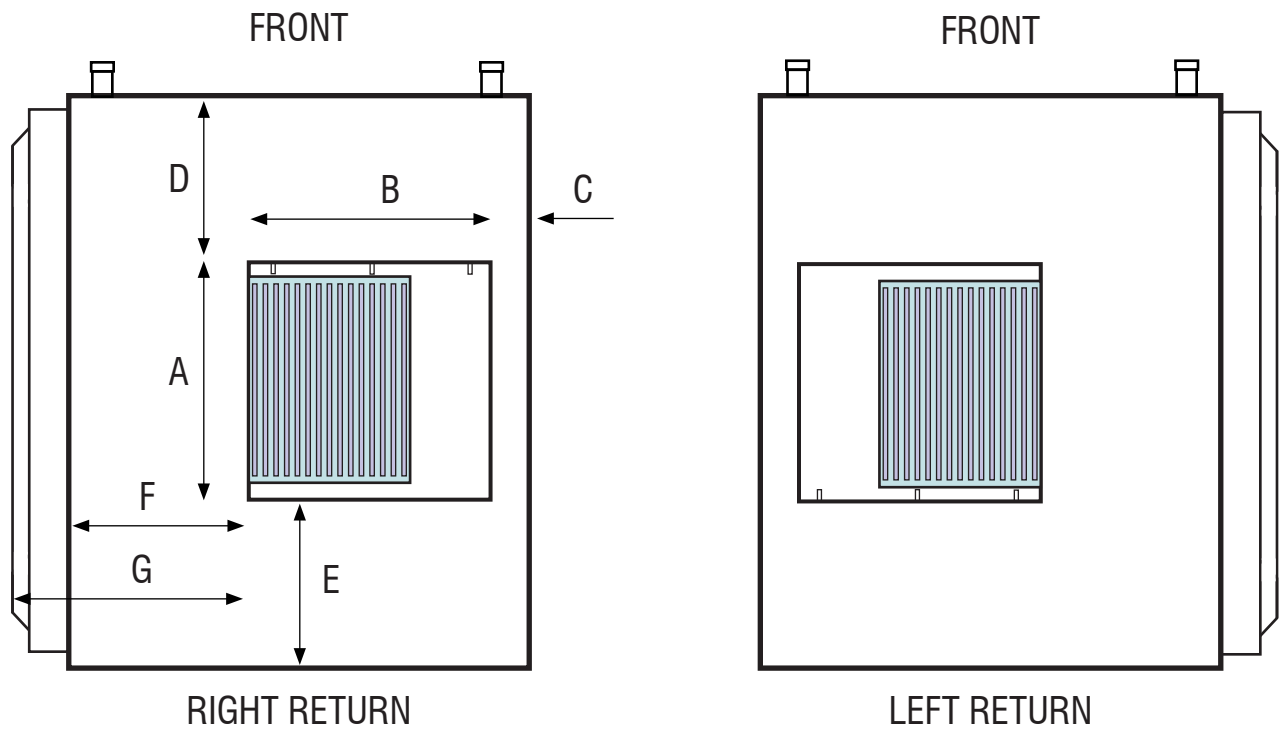
rev 1.2

VERTICAL CABINET DIMENSIONS					
MODEL		A	B	C	D
ZP018-024	cm.	123.0	65.0	71.0	69.75
	in.	48.5	25.5	28.0	27.5
ZP036	cm.	133.25	65.0	71.0	87.75
	in.	52.25	25.5	28.0	31.0
ZP048	cm.	140.0	65.0	71.0	82.5
	in.	55.0	25.5	28.0	32.5
ZP060-066	cm.	155.0	65.0	71.0	82.5
	in.	61.0	25.5	28.0	32.5



Vertical - Blower Opening

BLOWER OPENING - VERTICAL TOP/BOTTOM DISCHARGE								
MODEL		A	B	C	D	E	F	G
ZP018-024	cm.	23	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
ZP036	cm.	23	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
ZP048	cm.	34.5	33	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
ZP060-066	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

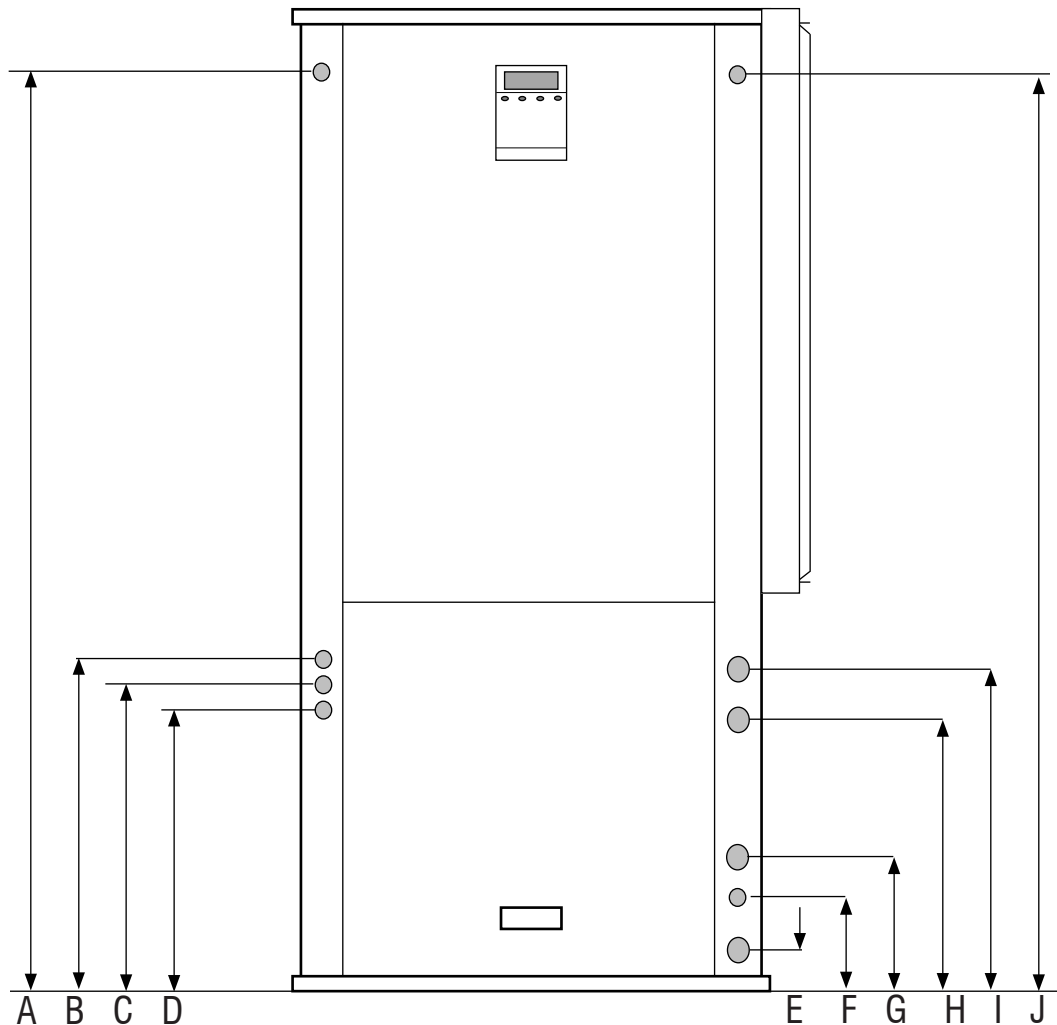


KNOCKOUTS & CONNECTIONS - VERTICAL

MODEL		A	B	C	D	E	F	G	H	I	J
		AUX HEAT	UNIT POWER	CONTROL	PUMP POWER	SOURCE /GEO IN	CONDENSATE	DHW IN	DHW OUT	SOURCE /GEO OUT	AUX HEAT
ZP018-024	cm.	107.5	40.5	34.5	29.5	5.0	12.0	18.0	36.0	43.0	107.5
	in.	42.5	16.0	13.5	11.75	2.0	5.0	7.0	14.0	17.0	42.5
ZP036	cm.	117	40.5	34.5	29.5	5.0	12.0	18.0	36.0	43.0	117
	in.	46.0	16.0	13.5	11.75	2.0	5.0	7.0	14.0	17.0	46.0
ZP048	cm.	123.5	34.5	29.5	24.5	5.0	12.0	18.0	36.0	43.0	123.5
	in.	48.75	13.5	11.75	10.25	2.0	5.0	7.0	14.0	17.0	48.75
ZP060-066	cm.	140	34.5	29.5	24.5	5.0	12.0	18.0	36.0	52.5	140
	in.	55.0	13.5	11.75	10.25	2.0	5.0	7.0	14.0	22.75	55.0

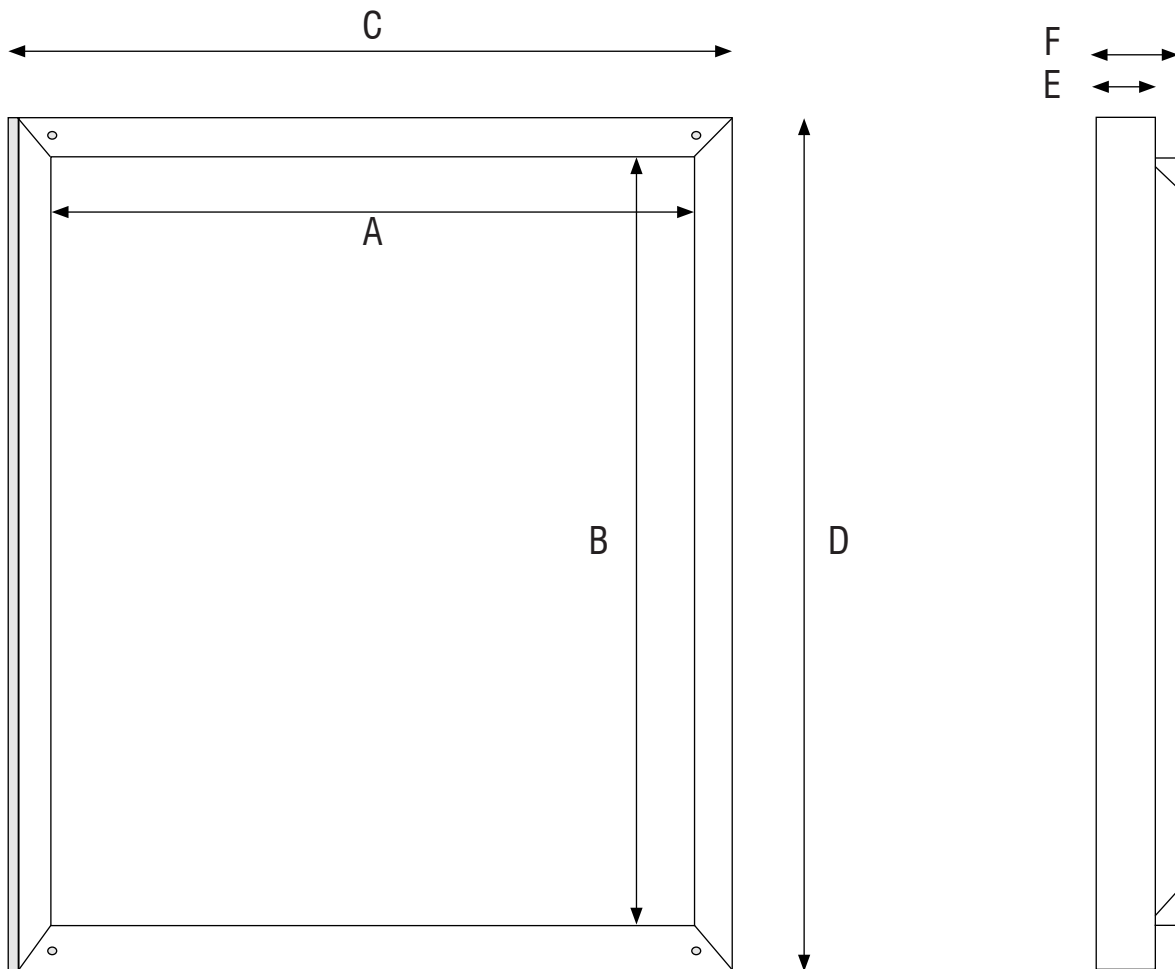
All water connections 1" FPT swivel
Condensate is 3/4" PVC female glue socket

FRONT

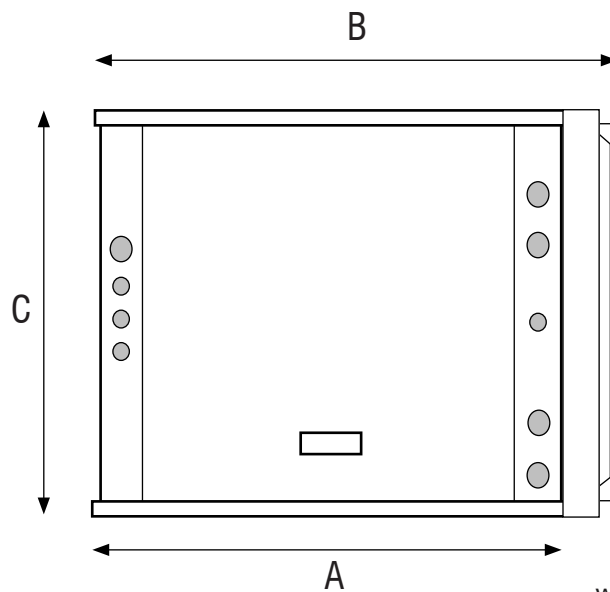
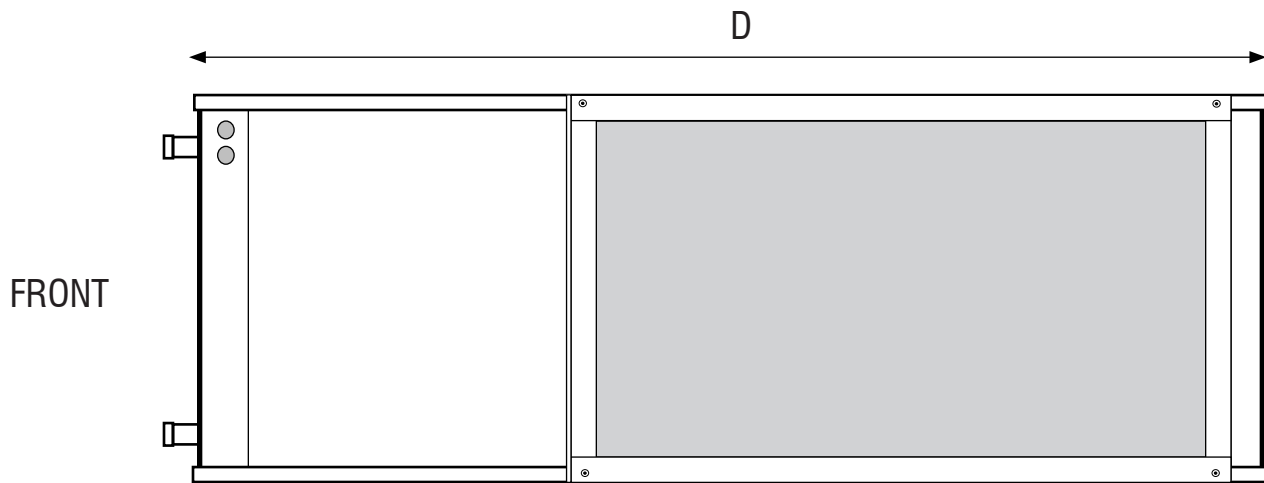


Vertical - Filter Rack

FILTER RACK - VERTICAL CABINETS							
MODEL		A	B	C	D	E	F
ZP018-024	cm.	62.8	70.2	69.4	75.7	6.5	8.25
	in.	24.7	27.6	27.3	29.8	2.5	3.25
ZP036	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
ZP048	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
ZP060-066	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



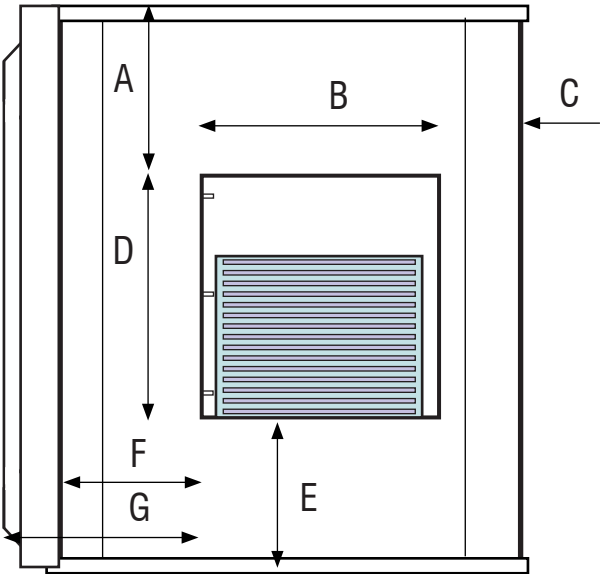
HORIZONTAL CABINET DIMENSIONS					
MODEL		A	B	C	D
ZP018-024	cm	64.75	71.25	54.5	157.5
	in	25.5	28.0	21.5	62.0
ZP036	cm	64.75	71.25	54.5	172.75
	in	25.5	28.0	21.5	68.0
ZP048	cm	64.75	71.25	56.9	183
	in	25.5	28.0	22.5	72.0
ZP060-066	cm	64.75	71.25	56.9	195.5
	in	25.5	28.0	22.5	77.0



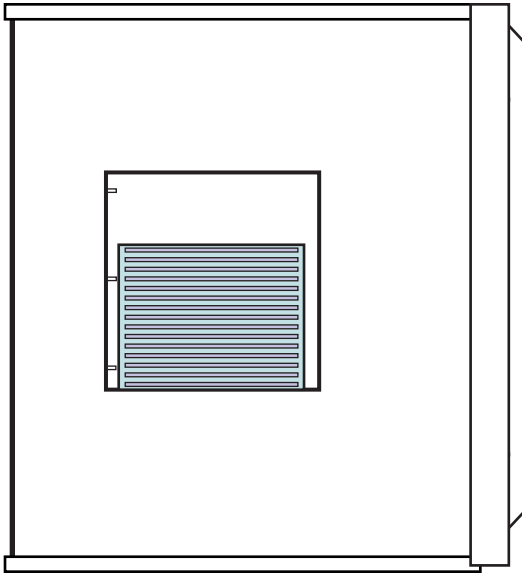
Horizontal - Blower Opening

BLOWER OPENING - HORIZONTAL												
MODEL		A	B	C	D	E	F	G	I	J	K	L
ZP018-024	cm.	14.0	23.5	14.0	25.5	14.0	26.75	35.5	120	14.0	12.75	14.0
	in.	5.5	9.25	5.5	10.0	5.5	10.5	14.0	47.25	5.5	5.0	5.5
ZP036	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
ZP048	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
ZP060-066	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

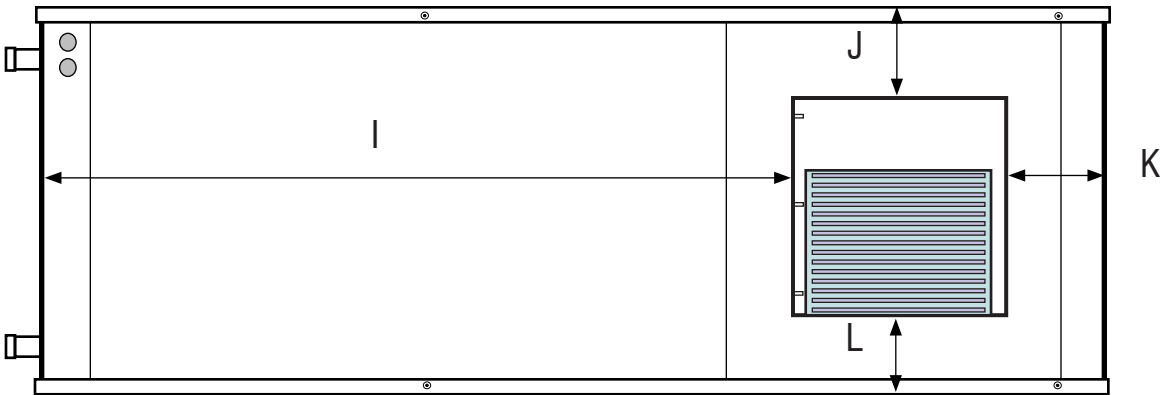
RIGHT RETURN - END



LEFT RETURN - END

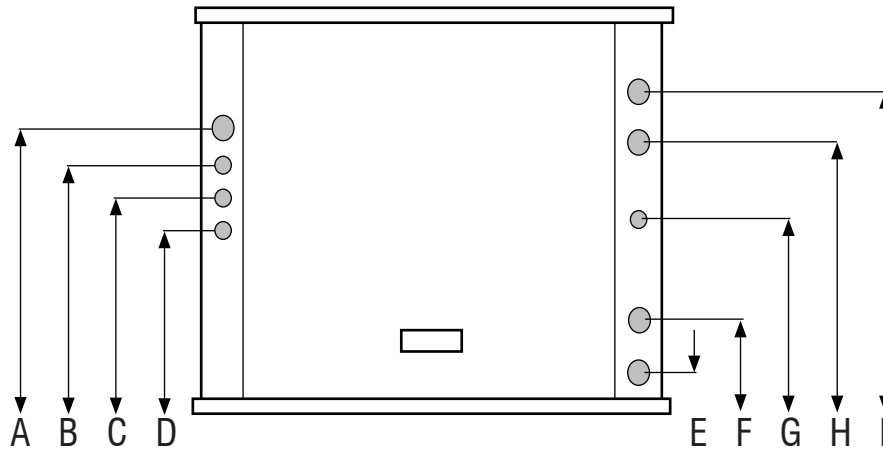


FRONT



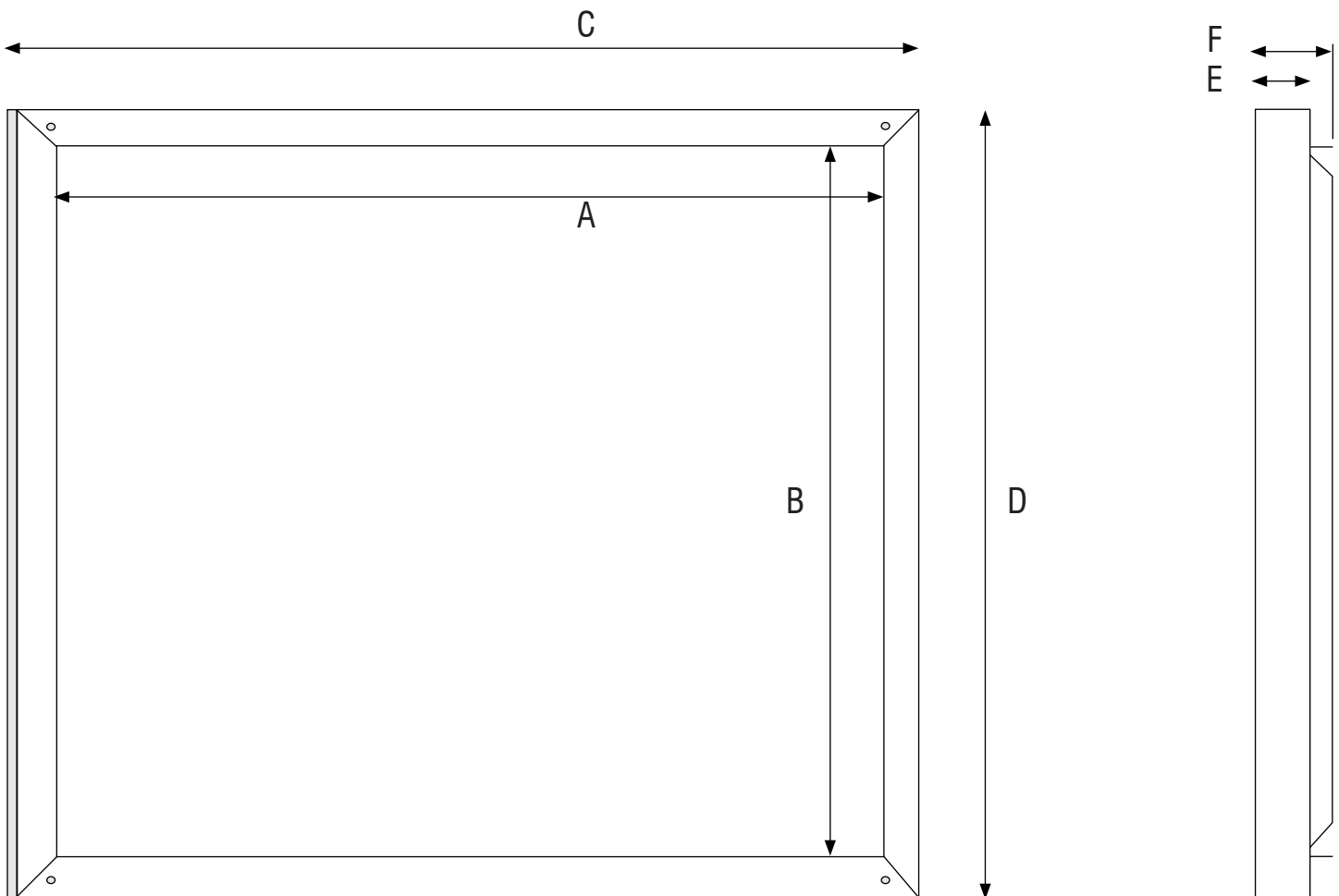
KNOCKOUTS & CONNECTIONS - HORIZONTAL										
MODEL		A	B	C	D	E	F	G	H	I
		UNIT POWER	UNIT POWER	CONTROL	PUMP POWER	SOURCE /GEO IN	CONDENSATE	DHW IN	DHW OUT	SOURCE /GEO OUT
ZP018-024	cm.	34.5	29.5	24.5	19.5	5.0	12.0	18.0	36.0	43.0
	in.	13.5	11.75	9.75	7.75	2.0	5.0	7.0	14.0	17.0
ZP036, ZP060	cm.	34.5	29.5	24.5	19.5	5.0	12.0	18.0	36.0	48.0
	in.	13.5	11.75	9.75	7.75	2.0	5.0	7.0	14.0	19.0
ZP048, ZP066	cm.	34.5	29.5	24.5	19.5	5.0	12.0	18.0	36.0	50.0
	in.	13.5	11.75	9.75	7.75	2.0	5.0	7.0	14.0	22.0

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



Horizontal - Filter Rack

FILTER RACK - HORIZONTAL CABINETS							
MODEL		A	B	C	D	E	F
ZP018-024	cm.	77.5	48.25	83.5	56.0	6.5	8.25
	in.	30.5	19.0	33.0	21.25	2.5	3.25
ZP036	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
ZP048	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
ZP060-066	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													
MODEL	CAP MOD.	MOTOR	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP				
					COOLING EWT 59°F		HEATING EWT 50°F		COOLING BRINE FULL LOAD EWT 77°F		HEATING BRINE FULL LOAD EWT 32°F		
			GPM	CFM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP	
018	FULL	ECM	7	800	21,500	28.3	19,300	5.1	18,500	19.4	14,600	4.0	

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 MOTOR		HWG PUMP	LOOP PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE	
		RLA	LRA	FLA	HP	FLA	FLA				
ZP018 - Single Speed	208-230/60/1	9.0	48.0	4.2	1/2	0.4	1.8	15.4	17.7	30.0	
ZP018 - Single Speed	220-240/50/1	7.9	44	4.2	1/2	0.4	1.8	14.3	16.3	20.0	

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
ZP018	2	1.0	0.8	0.6	0.4	0.3
	4	1.9	1.7	1.5	1.3	1.0
	6	2.2	1.9	1.8	1.6	1.4

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS							
VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
9.5x9	123 kg	147.5 kg	R-410A	9.5x9	kg	kg	R-410A
	270 lbs	324 lbs			lbs	lbs	

Specification Data Sheet - ZP024

PERFORMANCE RATING - CSA/ISO - 13256-1												
MODEL	CAP MOD.	MOTOR	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
					COOLING EWT 59°F		HEATING EWT 50°F		COOLING BRINE FULL LOAD EWT 77°F		HEATING BRINE FULL LOAD EWT 32°F	
			GPM	CFM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP
024	FULL	ECM	8	950	25,800	20.7	24,700	4.6	26,000	17.6	20,700	4.1
	PART	ECM	7	750	20,300	28.3	18,200	5.2	19,300	24.2	17,400	4.8

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 MOTOR		HWG PUMP	LOOP PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE	
		RLA	LRA	FLA	HP	FLA	FLA				
ZP024 - Single Speed	208-230/60/1	12.8	58.3	4.2	1/2	0.4	1.8	19.2	22.4	35	
ZP024 - Dual Capacity	208-230/60/1	10.3	52	4.2	1/2	0.4	1.8	16.7	19.3	30	
ZP024 - Single Speed	220-240/50/1	10	52	4.2	1/2	0.4	1.8	16.4	18.9	30	
ZP024 - Dual Capacity	220-240/50/1	7.1	65	4.2	1/2	0.4	1.8	13.5	15.3	20	
ZP024 - Dual Capacity	220-240/50/3	7.1	63	4.2	1/2	0.4	1.8	13.5	15.3	20	
ZP024 - Dual Capacity	380-420/50/3	3.9	27	2.3	1/2	0.2	1	7.2	8.2	20	

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
ZP024	3	2.5	1.9	1.4	0.8	0.3
	6	3.3	2.7	2.2	1.6	1.1
	9	4.1	3.5	3.0	2.4	1.9

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS							
VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
9.5x9	125 kg	149 kg	R-410A	9.5x9	kg	kg	R-410A
	275 lbs	329 lbs			lbs	lbs	

PERFORMANCE RATING - CSA/ISO - 13256-1												
MODEL	CAP MOD.	MOTOR	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
					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
036	FULL	ECM	9	1300	43,600	19.7	37,400	4.4	37,900	17.4	29,900	3.9
	PART	ECM	8	1150	31,900	26.9	25,700	4.5	27,300	20.6	23,200	4.1

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	FLA	FLA				
ZP036 - Single Speed	208-230/60/1	14.1	73.0	4.2	1/2	0.4	1.8	20.5	24.0	40	
ZP036 - Dual Capacity	208-230/60/1	16.7	82.0	4.2	1/2	0.4	1.8	23.1	27.3	40	
ZP036 - Single Speed	220-240/50/1	13.6	67	4.2	1/2	0.4	1.8	20	23.4	30	
ZP036 - Single Speed	220-240/50/3	10.4	78	4.2	1/2	0.4	1.8	16.8	19.4	30	
ZP036 - Single Speed	380-420/50/3	5.9	38	2.3	1/2	0.2	1	9.4	10.9	20	
ZP036 - Dual Capacity	220-240/50/3	12.1	63	4.2	1/2	0.4	1.8	18.5	21.5	30	
ZP036 - Dual Capacity	380-420/50/3	5	30	2.3	1/2	0.2	1	8.3	9.6	15	

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
ZP036	5	2.4	2.1	1.8	1.5	1.4
	9	4.8	4.1	3.6	3.0	2.9
	12	6.4	5.5	4.8	4.0	3.9

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS							
VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
9.5x9	151 kg	176 kg	R-410A	9.5x9	kg	kg	R-410A
	334 lbs	388 lbs			lbs	lbs	

Specification Data Sheet - ZP048

PERFORMANCE RATING - CSA/ISO - 13256-1												
MODEL	CAP MOD.	MOTOR	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
					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
048	FULL	ECM	12	1600	51,850	22.5	47,950	4.7	47,100	17	37,800	4.1
	PART	ECM	11	1200	38,650	27.4	35,400	5.3	38,700	24.6	31,700	4.8

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	FLA	FLA				
ZP048 - Single Speed	208-230/60/1	19.9	109	4.2	1/2	0.4	3.6	28.1	33.1	50	
ZP048 - Dual Capacity	208-230/60/1	21.2	96	4.2	1/2	0.4	3.6	29.4	34.7	50	
ZP048 - Single Speed	220-240/50/1	17.7	98	4.2	1/2	0.4	3.6	25.9	30.3	40	
ZP048 - Single Speed	220-240/50/3	14.1	81	4.2	1/2	0.4	3.6	22.3	25.8	30	
ZP048 - Single Speed	380-420/50/3	6.7	43	2.3	1/2	0.2	2	11.2	12.9	20	
ZP048 - Dual Capacity	220-240/50/3	13.5	95	4.2	1/2	0.4	3.6	21.7	25.1	30	
ZP048 - Dual Capacity	380-420/50/3	7.1	43	2.3	1/2	0.2	2	11.6	13.4	20	

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
ZP048	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

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS							
VERTICAL				HORIZONTAL			
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
13.5x13	186 kg	211 kg	R-410A	13.5x13	kg	kg	R-410A
	411lbs	465 lbs			lbs	lbs	

PERFORMANCE RATING - CSA/ISO - 13256-1												
MODEL	CAP MOD.	MOTOR	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
					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
060	FULL	ECM	16	2000	64,500	21.6	63,800	4.8	61,400	16.6	49,250	4.0
	PART	ECM	14	1500	50,700	30.0	44,700	5.0	44,750	23.6	38,300	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	FLA	FLA				
ZP060 - Single Speed	208-230/60/1	26.4	134	7.8	1	0.4	3.6	38.2	44.8	60	
ZP060 - Dual Capacity	208-230/60/1	25.6	118	7.8	1	0.4	3.6	37.4	43.8	60	
ZP060 - Single Speed	220-240/50/1	22.5	126	7.8	1	0.4	3.6	34.3	39.9	50	
ZP060 - Single Speed	220-240/50/3	17.1	110	7.8	1	0.4	3.6	28.9	33.2	40	
ZP060 - Single Speed	380-420/50/3	8.6	52	3.9	1	0.2	2	14.7	16.9	30	
ZP060 - Dual Capacity	220-240/50/1	24	126	7.8	1	0.4	3.6	35.8	41.8	50	
ZP060 - Dual Capacity	220-240/50/3	16.4	110	7.8	1	0.4	3.6	28.2	32.3	40	
ZP060 - Dual Capacity	380-420/50/3	10	64	3.9	1	0.2	2	16.1	18.6	30	

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
ZP060	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

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS							
VERTICAL			HORIZONTAL				
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
13.5x13	222 kg	235.5 kg	R-410A	13.5x13	kg	kg	R-410A
	490 lbs	544 lbs			lbs	lbs	

PERFORMANCE RATING - CSA/ISO - 13256-1												
MODEL	CAP MOD.	MOTOR	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
					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
066	FULL	ECM	18	2400	71,400	20.4	72,300	4.5	64,800	15.8	57,600	4.0
	PART	ECM	16	1800	58,600	23.6	54,700	4.8	55,900	20.8	47,900	4.3

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	FLA	FLA				
ZP066 - Single Speed	208-230/60/1	30.1	158	7.8	1	0.4	3.6	41.9	49.4	70	
ZP066 - Dual Capacity	208-230/60/1	27.2	150	7.8	1	0.4	3.6	39.0	45.8	70	
ZP066 - Single Speed	208-230/60/3	22.9	170	7.8	1	0.4	3.6	35.1	40.4	60	
ZP066 - Dual Capacity	208-230/60/3	21.9	123	7.8	1	0.4	3.6	33.7	39.2	60	
ZP066 - Single Speed	220-240/50/1	27.3	153	7.8	1	0.4	3.6	39.1	45.9	50	
ZP066 - Single Speed	220-240/50/3	22.9	170	7.8	1	0.4	3.6	34.7	40.4	50	
ZP066 - Single Speed	380-420/50/3	10.7	74	3.9	1	0.2	2	16.8	19.5	30	
ZP066 - Dual Capacity	220-240/50/3	21.6	135	7.8	1	0.4	3.6	33.4	38.8	50	
ZP066 - Dual Capacity	380-420/50/3	10.9	64	3.9	1	0.2	2	16.8	19.5	30	

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
ZP066	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

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS							
VERTICAL			HORIZONTAL				
BLOWER SIZE	WEIGHT		REFRIGERANT	BLOWER SIZE	WEIGHT		REFRIGERANT
	NET	SHIP			NET	SHIP	
13.5x13	222 kg	235.5 kg	R-410A	13.5x13	kg	kg	R-410A
	491 lbs	546 lbs			lbs	lbs	