

TANGAROA

GEOEXCHANGE ► SYSTEM

SPECIFICATION CATALOG

NOTE: PRELIMINARY REVISION

FEBRUARY 2011

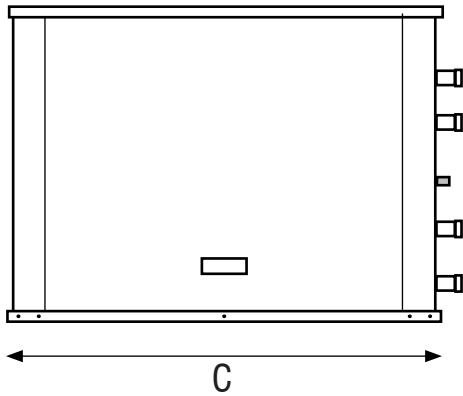
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M A N U F A C T U R I N G

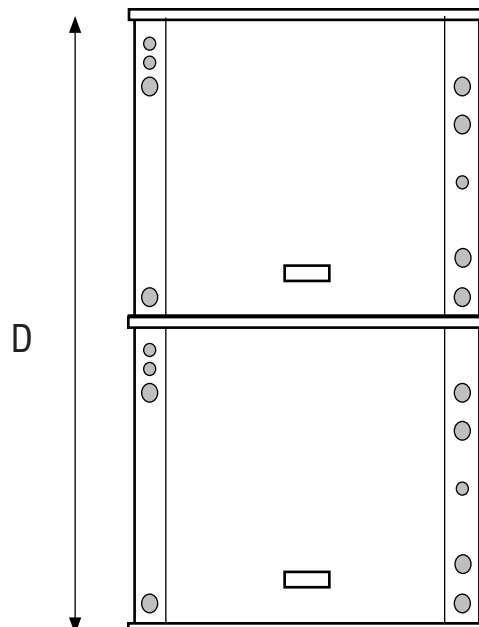
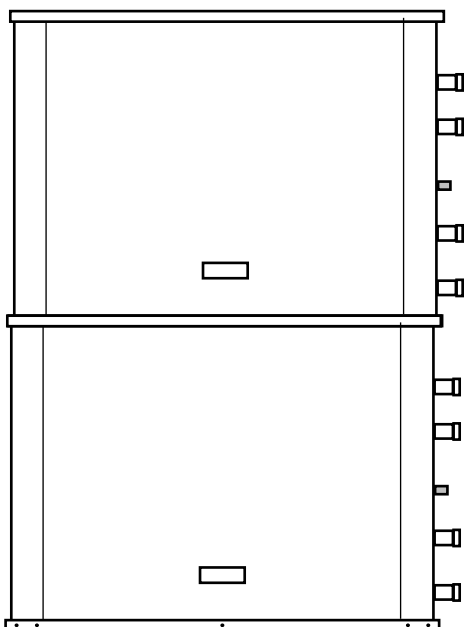
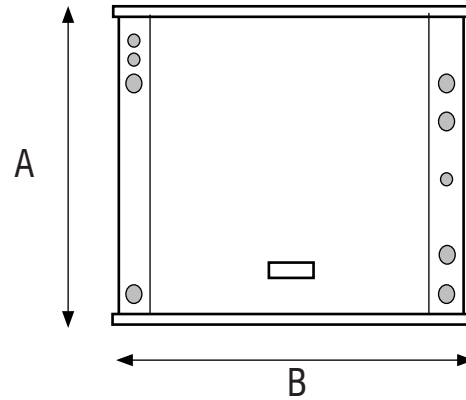
rev 1.2

HYDRONIC CABINET DIMENSIONS					
MODEL		A	B	C	D
TK024-TK036, TK060 TG024-TG066, TG060	cm.	56.9	65	78.75	-
	in.	22.5	25.5	31	-
TK048, TK066 TG048, TG066	cm.	56.9	65	78.75	-
	in.	22.5	25.5	31	-
TK084-TK132 TG084-TG132	cm.	-	65	78.75	115
	in.	-	25.5	31	45

LEFT

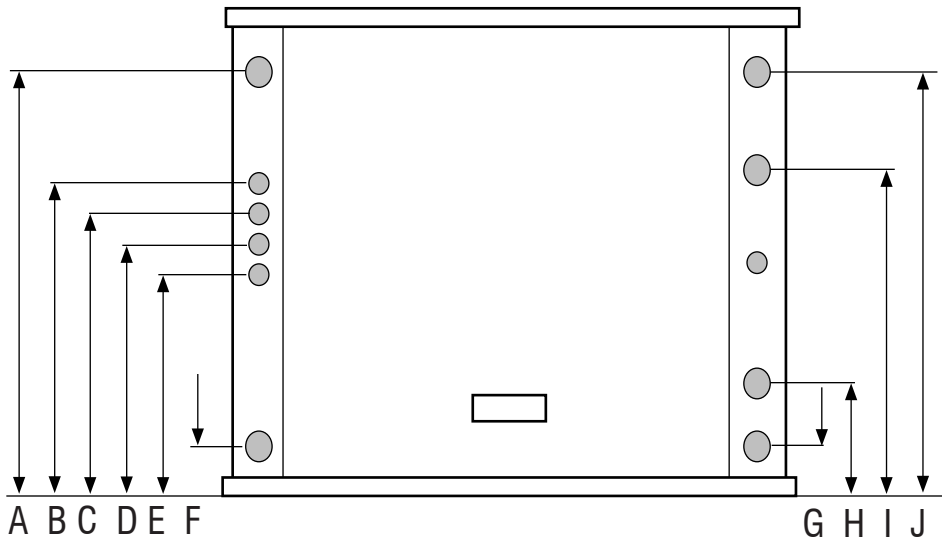


FRONT



Unit Dimensions - Knockouts

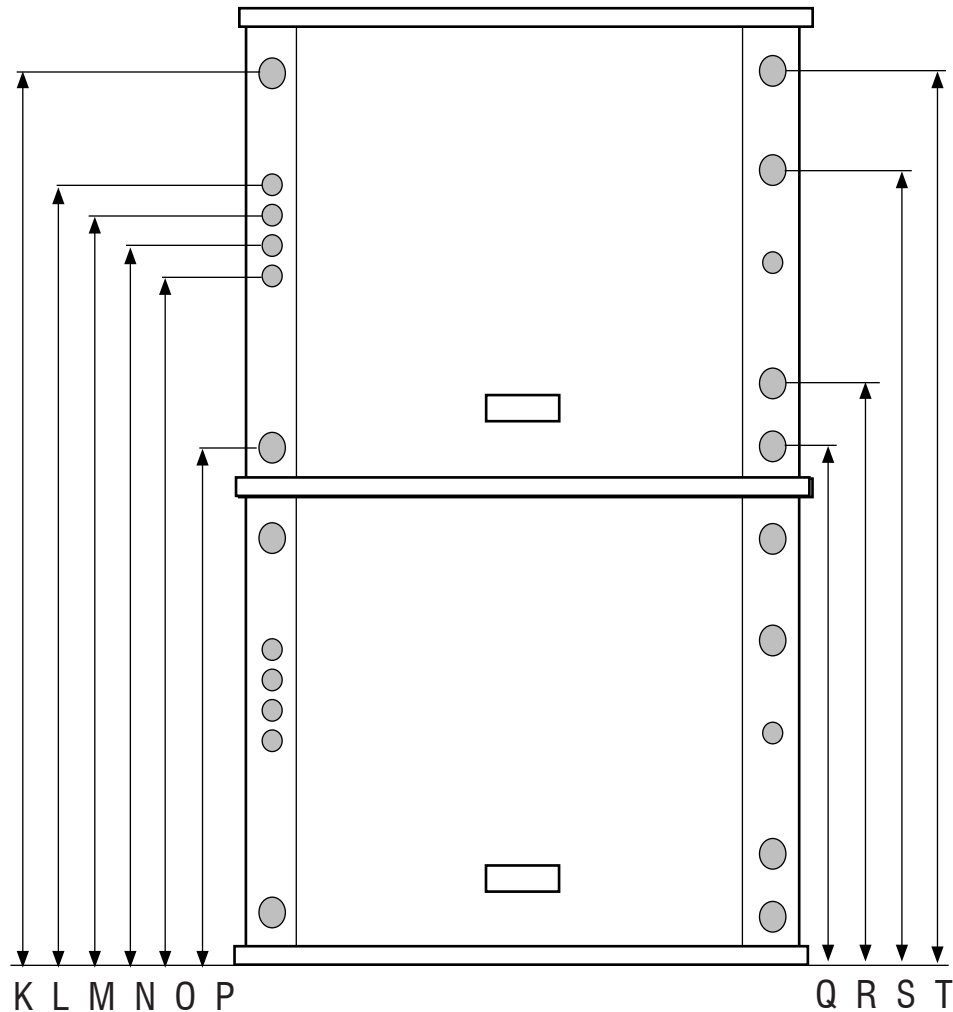
KNOCKOUTS											
MODEL		A	B	C	D	E	F	G	H	I	J
		LOAD /HYD OUT	UNIT POWER	PUMP POWER	PUMP POWER	CONTROL	LOAD /HYD IN	SOURCE /GEO IN	DHW IN	DHW OUT	SOURCE /GEO OUT
TG024	cm.	43	34.5	29.5	24.5	19.5	5	5	12	36	43
	in.	17	13.5	11.75	9.75	7.75	2	2	4.75	14	17
TG048, TG060	cm.	50	34.5	29.5	24.5	19.5	5	5	12	36	50
	in.	22	13.5	11.75	9.75	7.75	2	2	4.75	14	22
TG036, TG066	cm.	48	34.5	29.5	24.5	19.5	5	5	12	36	48
	in.	19	13.5	11.75	9.75	7.75	2	2	4.75	14	19



KNOCKOUTS

MODEL		K	L	M	N	O	P	Q	R	S	T
		LOAD /HYD OUT	UNIT POWER	PUMP POWER	PUMP POWER	CONTROL	LOAD /HYD IN	SOURCE /GEO IN	DHW IN	DHW OUT	SOURCE /GEO OUT
TG096-TG120	cm.	110.5	89	84.5	79.5	74.25	59	59	64.25	90	110.5
	in.	43.5	35	33.25	31.25	29.25	23.5	23.5	25.25	35.5	43.5
TG132	cm.	103	89	84.5	79.5	74.25	59	59	64.25	90	103
	in.	40.5	35	34.25	31.25	29.25	23.5	23.5	25.25	35.5	40.5

NOTE* A-J from previous page applies to bottom unit.



Specification Data - TG036

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP
TG036	SINGLE	9	9	39,402	22.5	38,521	3.8	36,194	16.5	31,585	3.1

All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS											
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE	
		QUANTITY	RLA	LRA	DHW	HYD					
					FLA	FLA	FLA				
TG036 - Single Speed	208-230/60/1	1	17.9	112	0.4	1.8	1.8	21.9	26.4	40	
TG036 - Single Speed	220-240/50/1	1	17.9	87	0.4	1.8	1.8	21.9	26.4	30	
TG036 - Single Speed	220-240/50/3	1	14.3	95	0.4	1.8	1.8	17.9	21.5	30	
TG036 - Single Speed	380-420/50/3	1	6.6	46	0.2	1.8	1.8	9.8	11.5	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
TG036	4	1.2	1.0	0.8	0.6	0.4
	7	2.5	2.4	2.3	2.2	2.0
	9	4.3	3.8	3.5	2.9	2.5

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATION		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	141 kg	R-410A
lbs	311 lbs	

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP
TG048	SINGLE	15	15	57,066	21.4	55,324	3.6	51,949	15.7	46,721	3.0

All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS										
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA	DHW	HYD				
					FLA	FLA	FLA			
TG048 - Single Speed	208-230/60/1	1	26.4	134	0.4	1.8	3.6	32.2	38.8	50
TG048 - Single Speed	220-240/50/1	1	20.2	126	0.4	1.8	3.6	26	31.1	40
TG048 - Single Speed	220-240/50/3	1	17.1	110	0.4	1.8	3.6	22.9	27.2	30
TG048 - Single Speed	380-420/50/3	1	8.6	52	0.2	1	2	11.8	14	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
TG048	6	0.4	0.5	0.6	0.7	0.8
	9	3.8	3.4	3.0	2.6	2.2
	12	6.6	5.8	5.2	4.8	4.4
	15	8.5	7.7	6.4	5.8	5.2

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATION		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	148 kg	R-410A
lbs	327 lbs	

Specification Data - TG060

PERFORMANCE RATING - CSA/ISO - C13256-2													
MODEL	CAP MOD.	FLOW RATE				GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
						COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP		
TG060	SINGLE	17	17	64,528	19.7	62,839	3.8	60,699	17.1	51,248	3.1		

All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS										
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA	DHW	HYD				
					FLA	FLA	FLA			
TG060 - Single Speed	208-230/60/1	1	30.1	158	0.4	1.8	3.6	35.9	43.4	60
TG060 - Single Speed	220-240/50/1	1	27.3	153	0.4	1.8	3.6	33.1	39.9	50
TG060 - Single Speed	220-240/50/3	1	22.9	170	0.4	1.8	3.6	28.7	34.4	50
TG060 - Single Speed	380-420/50/3	1	10.7	74	0.2	1	2	13.9	16.6	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
TG060	8	1.3	1.2	1.1	1.1	0.9
	11	3.6	3.2	2.8	2.4	2.0
	15	5.6	5.4	5.2	4.9	4.7
	17	5.9	5.9	5.8	5.7	5.6

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATION		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	211 kg	R-410A
lbs	442 lbs	

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP
TG066	SINGLE	18	18	77,000	19.2	76,750	3.8	67,750	15.1	55,000	3.0

All ratings based upon 208V operation

ELECTRICAL SPECIFICATIONS											
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE	
		QUANTITY	RLA	LRA	DHW	HYD					
					FLA	FLA	FLA				
TG066 - Single Speed	208-230/60/1	1	26.9	145	0.4	1.8	3.6	32.7	39.5	50	
TG066 - Single Speed	220-240/50/1	1	31.4	155	0.4	1.8	3.6	37.2	45.1	50	
TG066 - Single Speed	220-240/50/3	1	25	149	0.4	1.8	3.6	30.8	37.1	40	
TG066 - Single Speed	380-420/50/3	1	11.8	74	0.2	1	2	14.8	17.8	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
TG066	9	1.7	1.6	1.4	1.5	1.1
	13	4.7	4.1	3.6	3.2	2.6
	18	7.3	7.0	6.7	6.5	6.1

All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATION		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	211 kg	R-410A
lbs	443 lbs	

Specification Data - TG096

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
				SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER
TG096	FULL	30	30	114,132	21.4	110,648	3.6	103,898	15.7	93,442	3.0
	PART	15	15	57,066	21.4	55,324	3.6	51,949	15.7	46,721	3.0

All ratings based upon 208V operation
PART represents one of the two stacked units

ELECTRICAL SPECIFICATIONS											
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE	
		QUANTITY	RLA	LRA	DHW	HYD					
					FLA	FLA	FLA				
TG096 - Single Speed	208-230/60/1	2	26.4	134	0.4	1.8	3.6	32.2	38.8	50	
TG096 - Single Speed	220-240/50/1	2	20.2	126	0.4	1.8	3.6	26	31.1	40	
TG096 - Single Speed	220-240/50/3	2	17.1	110	0.4	1.8	3.6	22.9	27.2	30	
TG096 - Single Speed	380-420/50/3	2	8.6	52	0.2	1	2	11.8	14	20	

RLA & LRA ratings per compressor, HWG and FLC Pump.
Max Fuse and Total FLA sized for each compressors

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
TG096 PART	6	0.4	0.5	0.6	0.7	0.8
	9	3.8	3.4	3.0	2.6	2.2
	12	6.6	5.8	5.2	4.8	4.4
	15	8.5	7.7	6.4	5.8	5.2

PART represents one of the two stacked units
All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS		
WEIGHT		REFRIGERANT
NET	SHIP	
272 kg	296.5 kg	R-410A
601 lbs	655 lbs	

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
				SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER
TG120	FULL	34	34	129,056	19.7	125,678	3.8	121,398	17.1	102,496	3.1
	PART	17	17	64,528	19.7	62,839	3.8	60,699	17.1	51,248	3.1

All ratings based upon 208V operation
PART represents one of the two stacked units

ELECTRICAL SPECIFICATIONS										
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA	DHW	HYD				
					FLA	FLA	FLA			
TG120 - Single Speed	208-230/60/1	2	30.1	158	0.4	1.8	4.5	35.9	43.4	60
TG120 - Single Speed	220-240/50/1	2	27.3	153	0.4	1.8	3.6	33.1	39.9	50
TG120 - Single Speed	220-240/50/3	2	22.9	170	0.4	1.8	3.6	28.7	34.4	50
TG120 - Single Speed	380-420/50/3	2	10.7	74	0.2	1	2	13.9	16.6	20

RLA & LRA ratings per compressor, HWG and FLC Pump.
Max Fuse and Total FLA sized for each compressors

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
TG120 PART	8	1.3	1.2	1.1	1.1	0.9
	11	3.6	3.2	2.8	2.4	2.0
	15	5.6	5.4	5.2	4.9	4.7
	17	5.9	5.9	5.8	5.7	5.6

PART represents one of the two stacked units
All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	400 kg	R-410A
lbs	884 lbs	

Specification Data - TG132

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING 77°F SOURCE 53.6°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP
TG132	FULL	36	36	154,000	19.2	153,500	3.8	135,500	15.1	110,000	3.0
	PART	18	18	77,000	19.2	76,750	3.8	67,750	15.1	55,000	3.0

All ratings based upon 208V operation
PART represents one of the two stacked units

ELECTRICAL SPECIFICATIONS											
MODEL	RATED VOLTAGE	COMPRESSOR			HWG PUMP		FLC PUMP FLA	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE	
		QUANTITY	RLA	LRA	DHW	HYD					
					FLA	FLA					
TG132 - Single Speed	208-230/60/1	2	26.9	145	0.4	1.8	3.6	32.7	39.5	50	
TG132 - Single Speed	220-240/50/1	2	31.4	155	0.4	1.8	3.6	37.2	45.1	50	
TG132 - Single Speed	220-240/50/3	2	25	149	0.4	1.8	3.6	30.8	37.1	40	
TG132 - Single Speed	380-420/50/3	2	11.8	74	0.2	1	2	14.8	17.8	20	

RLA & LRA ratings per compressor , HWG and FLC Pump.
Max Fuse and Total FLA sized for each compressors

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	
TG132 PART	9	1.7	1.6	1.4	1.5	1.1	
	13	4.7	4.1	3.6	3.2	2.6	
	18	7.3	7.0	6.7	6.5	6.1	

PART represents one of the two stacked units
All EWT assumes 20% methanol solution

MECHANICAL SPECIFICATIONS		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	400 kg	R-410A
lbs	885 lbs	

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING FULL 77°F SOURCE PART 68°F SOURCE 53.6°F LOAD		HEATING FULL 32°F SOURCE PART 41°F SOURCE 104°F LOAD	
				SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER
TG180	SINGLE	45	45								

ELECTRICAL SPECIFICATIONS							
MODEL	RATED VOLTAGE	COMPRESSOR			TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA			
TG180	208-230/60/3						
TG180	575/60/3						

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
TG180	35					
	45					
	60					

MECHANICAL SPECIFICATIONS		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	kg	R-410A
lbs	lbs	

PERFORMANCE RATING - CSA/ISO - C13256-2											
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP			
				COOLING 59°F SOURCE 53.6°F LOAD		HEATING 50°F SOURCE 104°F LOAD		COOLING FULL 77°F SOURCE PART 68°F SOURCE 53.6°F LOAD		HEATING FULL 32°F SOURCE PART 41°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	EER	CAPACITY Btuh	COP	CAPACITY Btuh	EER	CAPACITY Btuh	COP
TG360	FULL	86	86								
	PART	45	45								

ELECTRICAL SPECIFICATIONS							
MODEL	RATED VOLTAGE	COMPRESSOR			TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA			
TG360 - Part	208-230/60/3						
TG360 -Full	575/60/1						

RLA & LRA ratings per compressor.
Breaker and FLA sized for both compressors

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
TG360 PART	35					
	45					
	60					

PART represents one of the two stacked units

MECHANICAL SPECIFICATIONS		
WEIGHT		REFRIGERANT
NET	SHIP	
kg	kg	
lbs	lbs	