

TRIAKUS

GEOEXCHANGE ► SYSTEM

SPECIFICATION CATALOG

NOTE: PRELIMINARY REVISION

FEBRUARY 2011

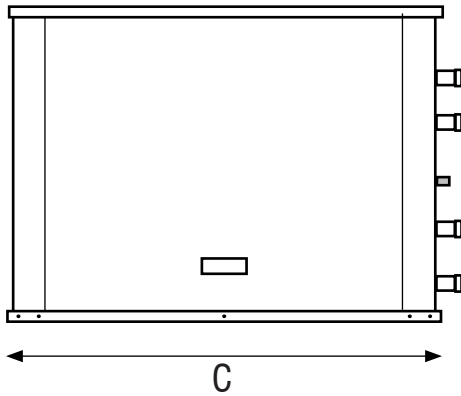
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M A N U F A C T U R I N G

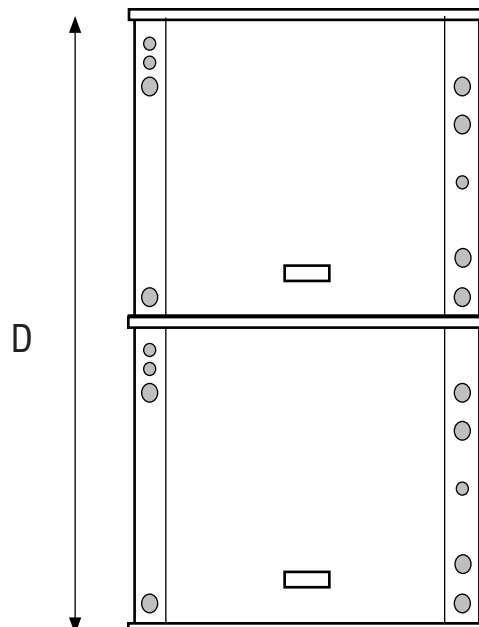
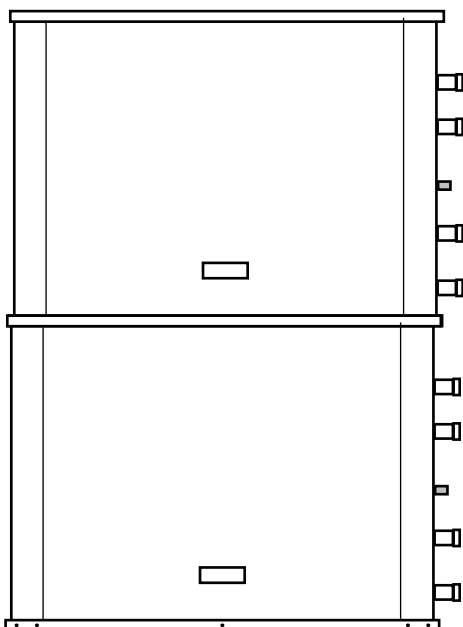
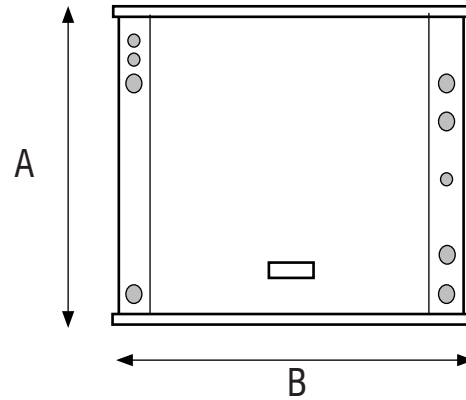
rev 1.2

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

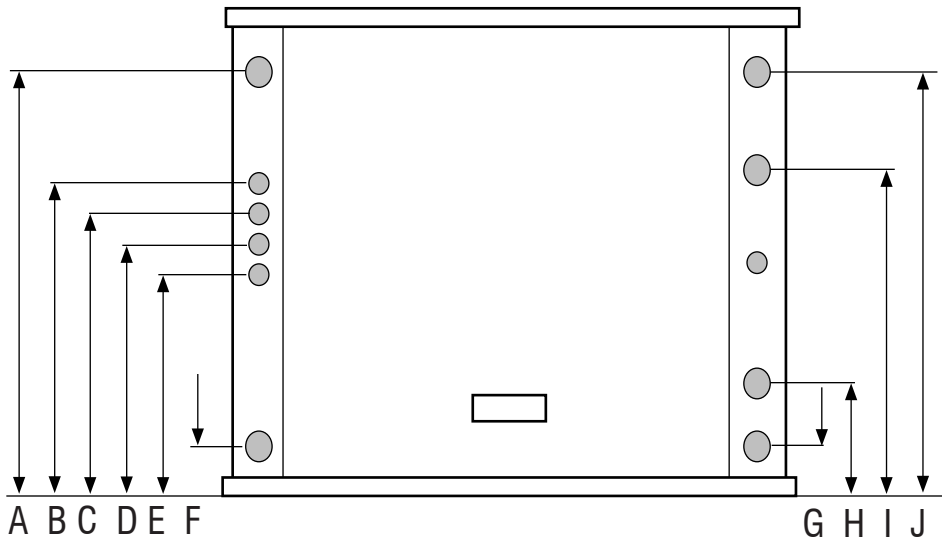


FRONT



Unit Dimensions - Knockouts

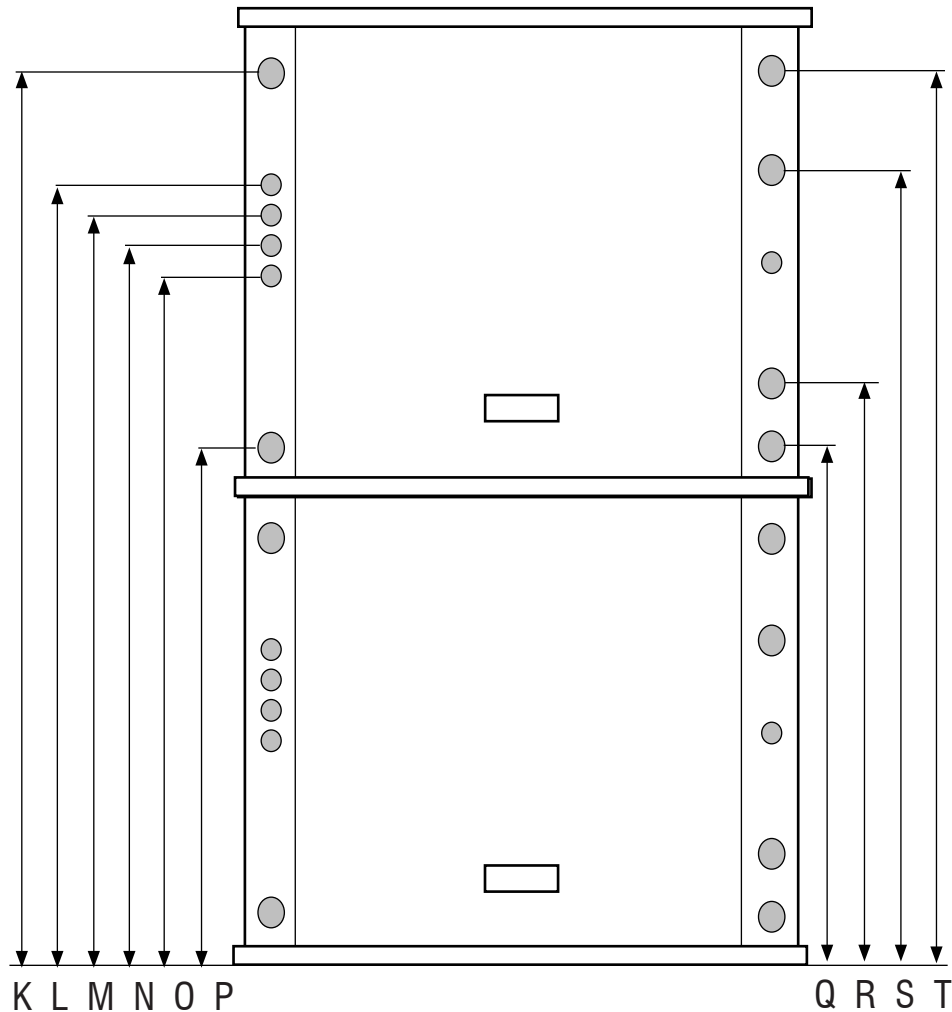
KNOCKOUTS											
MODEL		A	B	C	D	E	F	G	H	I	J
		LOAD /HYD OUT	UNIT POWER	PUMP POWER	PUMP POWER	CONTROL	LOAD /HYD IN	SOURCE /GEO IN	DHW IN	DHW OUT	SOURCE /GEO OUT
TK024	cm.	43	34.5	29.5	24.5	19.5	5	5	12	36	43
	in.	17	13.5	11.75	9.75	7.75	2	2	4.75	14	17
TK048, TK060	cm.	50	34.5	29.5	24.5	19.5	5	5	12	36	50
	in.	22	13.5	11.75	9.75	7.75	2	2	4.75	14	22
TK036, TK066	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
TK096-TK120	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
TK132	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 - TK036

PERFORMANCE RATING - CSA/ISO - C13256-2							
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP		GROUND LOOP HEAT PUMP	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK036	SINGLE	9	9	39,917	3.9	32,810	3.3

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			
TK036 - Single Speed	208-230/60/1	1	17.9	112	0.4	1.8	1.8	21.9	26.4	40
TK036 - Single Speed	220-240/50/1	1	17.9	87	0.4	1.8	1.8	21.9	26.4	30
TK036 - Single Speed	220-240/50/3	1	14.3	95	0.4	1.8	1.8	17.9	21.5	30
TK036 - 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
TK036	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	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK048	SINGLE	15	15	56,056	3.6	45,537	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			
TK048 - Single Speed	208-230/60/1	1	26.4	134	0.4	1.8	3.6	32.2	38.8	50
TK048 - Single Speed	220-240/50/1	1	20.2	126	0.4	1.8	3.6	26	31.1	40
TK048 - Single Speed	220-240/50/3	1	17.1	110	0.4	1.8	3.6	22.9	27.2	30
TK048 - 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
TK048	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 - TK060

PERFORMANCE RATING - CSA/ISO - C13256-2							
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUMP		GROUND LOOP HEAT PUMP	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK060	SINGLE	17	17	63,409	3.9	50,934	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			
TK060 - Single Speed	208-230/60/1	1	30.1	158	0.4	1.8	3.6	35.9	43.4	60
TK060 - Single Speed	220-240/50/1	1	27.3	153	0.4	1.8	3.6	33.1	39.9	50
TK060 - Single Speed	220-240/50/3	1	22.9	170	0.4	1.8	3.6	28.7	34.4	50
TK060 - 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
TK060	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	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK066	SINGLE	18	18	76,750	3.8	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			
TK066 - Single Speed	208-230/60/1	1	26.9	145	0.4	1.8	3.6	32.7	39.5	50
TK066 - Single Speed	220-240/50/1	1	31.4	155	0.4	1.8	3.6	37.2	45.1	50
TK066 - Single Speed	220-240/50/3	1	25	149	0.4	1.8	3.6	30.8	37.1	40
TK066 - 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
TK066	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 - TK096

PERFORMANCE RATING - CSA/ISO - C13256-2							
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUM		GROUND LOOP HEAT PUM	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK096	FULL	30	30	112,112	3.9	91,074	3.0
	PART	15	15	56,056	3.9	45,537	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			
TK096 - Single Speed	208-230/60/1	2	26.4	134	0.4	1.8	3.6	32.2	38.8	50
TK096 - Single Speed	220-240/50/1	2	20.2	126	0.4	1.8	3.6	26	31.1	40
TK096 - Single Speed	220-240/50/3	2	17.1	110	0.4	1.8	3.6	22.9	27.2	30
TK096 - 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
TK096 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 PUM		GROUND LOOP HEAT PUM	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK120	FULL	34	34	126,818	3.9	101,868	3.1
	PART	17	17	63,409	3.9	50,934	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			
TK120 - Single Speed	208-230/60/1	2	30.1	158	0.4	1.8	4.5	35.9	43.4	60
TK120 - Single Speed	220-240/50/1	2	27.3	153	0.4	1.8	3.6	33.1	39.9	50
TK120 - Single Speed	220-240/50/3	2	22.9	170	0.4	1.8	3.6	28.7	34.4	50
TK120 - 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
TK120 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 - TK132

PERFORMANCE RATING - CSA/ISO - C13256-2							
MODEL	CAP MOD.	FLOW RATE		GROUND WATER HEAT PUM		GROUND LOOP HEAT PUM	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK132	FULL	36	36	153,500	3.8	110,000	3.0
	PART	18	18	76,750	3.8	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	TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA	DHW	HYD				
					FLA	FLA	FLA			
TK132 - Single Speed	208-230/60/1	2	26.9	145	0.4	1.8	3.6	32.7	39.5	50
TK132 - Single Speed	220-240/50/1	2	31.4	155	0.4	1.8	3.6	37.2	45.1	50
TK132 - Single Speed	220-240/50/3	2	25	149	0.4	1.8	3.6	30.8	37.1	40
TK132 - 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	
TK132 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	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK180	SINGLE						

ELECTRICAL SPECIFICATIONS							
MODEL	RATED VOLTAGE	COMPRESSOR			TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA			
TK180	208-230/60/3						
TK180	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 PUM		GROUND LOOP HEAT PUMP	
				HEATING 50°F SOURCE 104°F LOAD		HEATING 32°F SOURCE 104°F LOAD	
		SOURCE GPM	LOAD GPM	CAPACITY Btuh	COP	CAPACITY Btuh	COP
TK360	FULL						
	PART						

ELECTRICAL SPECIFICATIONS							
MODEL	RATED VOLTAGE	COMPRESSOR			TOTAL UNIT FLA	MIN CIRCUIT AMPS	MAX FUSE
		QUANTITY	RLA	LRA			
TK360 - Part	208-230/60/3						
TK360 -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
TK360 PART	35					
	45					
	60					

PART represents one of the two stacked units

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