

Engineering Data



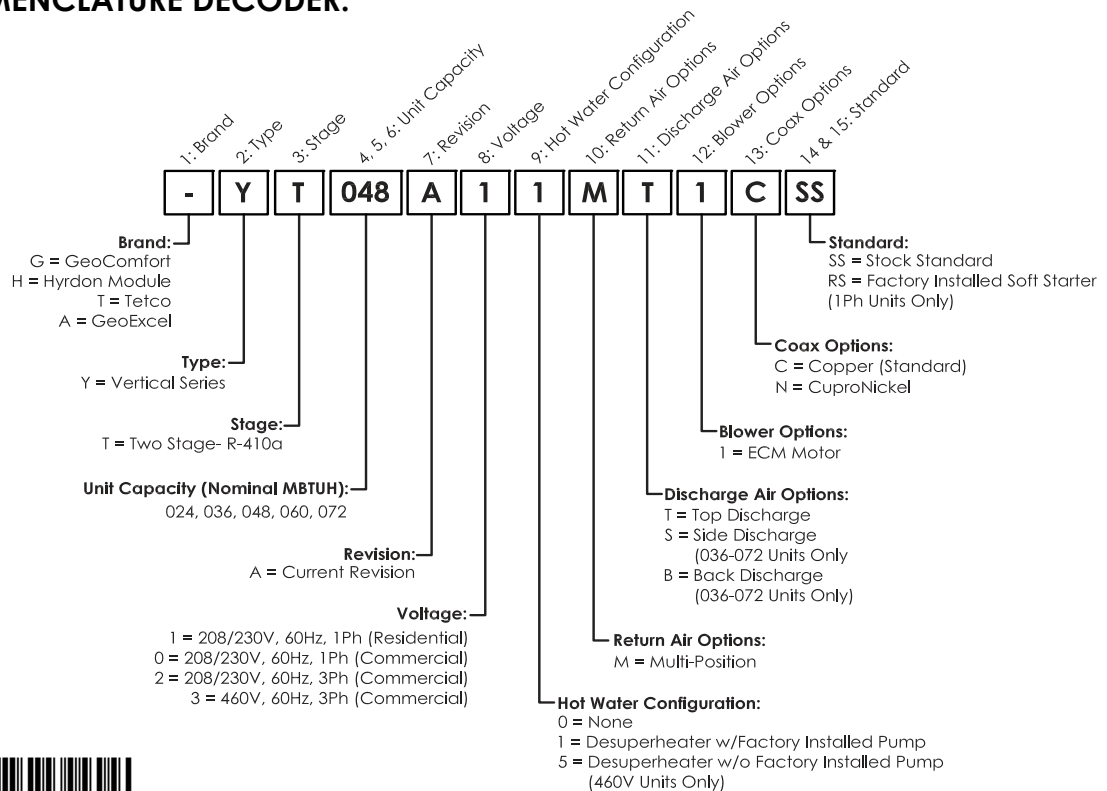
MODELS YT 024 - 072 VERTICAL PACKAGED SYSTEMS WATER-TO-AIR HEAT PUMPS



Project Name: _____
 Engineer: _____
 Contractor: _____
 Architect: _____
 Date Received: _____
 Date Submitted: _____

Unit Tag	Model Number
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

MODEL NOMENCLATURE DECODER:



GROUND LOOP HEAT PUMP

MODEL	Full Load Cooling		Full Load Heating		Part Load Cooling		Part Load Heating	
	Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP
YT024	27,100	19.9	19,000	4.3	21,400	28.2	15,200	4.8
YT036	41,200	20.9	29,100	4.5	31,500	31.3	23,300	5.1
YT048	53,300	20.2	39,900	4.3	42,600	29.6	32,000	4.9
YT060	64,300	19.3	49,200	4.1	50,000	28.0	37,700	4.6
YT072	71,900	18.0	56,200	3.8	58,500	24.8	45,800	4.4

GROUND WATER HEAT PUMP

MODEL	Full Load Cooling		Full Load Heating		Part Load Cooling		Part Load Heating	
	Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP
YT024	29,200	25.7	23,400	5.3	22,200	33.6	17,500	5.5
YT036	44,300	27.0	37,500	5.5	32,700	37.4	26,600	5.8
YT048	57,100	26.2	49,500	5.2	44,100	35.3	35,900	5.5
YT060	68,700	24.8	61,700	4.9	51,900	33.4	42,900	5.2
YT072	77,600	23.2	71,100	4.6	60,800	29.5	52,100	4.8

Note:

Rated in accordance with ISO Standard 13256-1 which includes Pump Penalties.

Heating capacities based on 68.0°F DB, 59.0°F WB entering air temperature.

Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature.

GLHP - Entering water temperatures Full Load: 32°F heating / 77°F cooling.

GLHP - Entering water temperatures Part Load: 41°F heating / 68°F cooling.

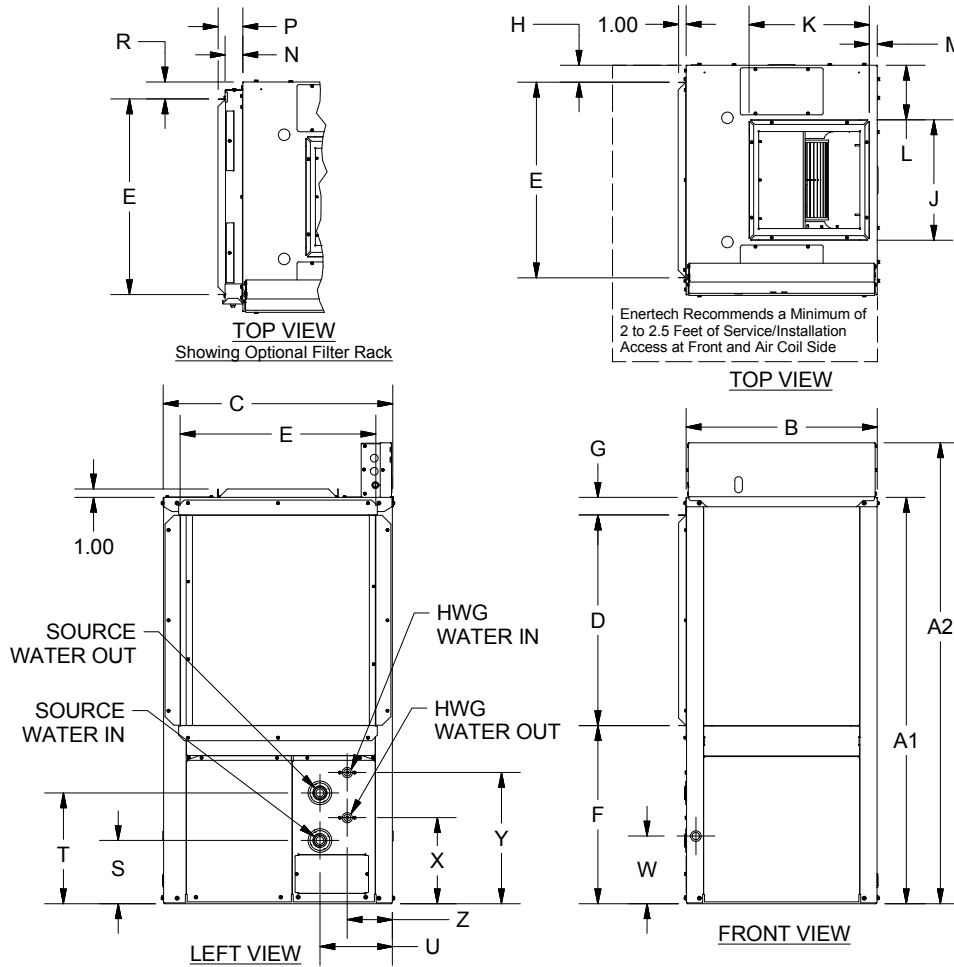
GWHP - Entering water temperatures: 50°F heating / 59°F cooling.



UNIT ELECTRICAL DATA:

Model	Voltage Code/ HWG Option	60 Hz Power		Compressor		Fan Motor FLA	HWG Pump FLA	Ext. Loop Pump FLA	Total Unit FLA	Min Circuit AMPS	Max Fuse HACR	Min AWG	Max Ft
		Volts	Phase	LRA	RLA								
YT024	00	208/230	1	58.3	11.7	5.2	0.0	0.0	16.9	19.8	30	14	38
	01	208/230	1	58.3	11.7	5.2	0.5	0.0	17.4	20.3	30	12	57
	10	208/230	1	58.3	11.7	5.2	0.0	4.0	20.9	23.8	35	12	47
	11	208/230	1	58.3	11.7	5.2	0.5	4.0	21.4	24.3	35	12	46
	20	208/230	3	55.4	6.5	5.2	0.0	0.0	11.7	13.3	20	14	55
	21	208/230	3	55.4	6.5	5.2	0.5	0.0	12.2	13.8	20	14	52
30/35	460	3	28.0	3.5	4.7	0.0	0.0	8.2	9.4	10	14	78	
YT036	00	208/230	1	83.0	15.3	5.2	0.0	0.0	20.5	24.3	40	12	48
	01	208/230	1	83.0	15.3	5.2	0.5	0.0	21.0	24.8	40	12	47
	10	208/230	1	83.0	15.3	5.2	0.0	4.0	24.5	28.3	40	10	68
	11	208/230	1	83.0	15.3	5.2	0.5	4.0	25.0	28.8	40	10	66
	20	208/230	3	73.0	11.6	5.2	0.0	0.0	16.8	19.7	30	14	38
	21	208/230	3	73.0	11.6	5.2	0.5	0.0	17.3	20.2	30	12	57
30/35	460	3	38.0	5.7	4.7	0.0	0.0	10.4	11.8	15	14	62	
YT048	00	208/230	1	104.0	21.2	5.2	0.0	0.0	26.4	31.7	50	8	97
	01	208/230	1	104.0	21.2	5.2	0.5	0.0	26.9	32.2	50	8	95
	10	208/230	1	104.0	21.2	5.2	0.0	5.5	31.9	37.2	50	8	80
	11	208/230	1	104.0	21.2	5.2	0.5	5.5	32.4	37.7	50	8	79
	20	208/230	3	83.1	14.0	5.2	0.0	0.0	19.2	22.7	35	12	52
	21	208/230	3	83.1	14.0	5.2	0.5	0.0	19.7	23.2	35	12	50
30/35	460	3	41.0	6.4	4.7	0.0	0.0	11.1	12.7	15	14	58	
YT060	00	208/230	1	152.9	27.1	6.9	0.0	0.0	34.0	40.8	60	6	120
	01	208/230	1	152.9	27.1	6.9	0.5	0.0	34.5	41.3	60	6	118
	10	208/230	1	152.9	27.1	6.9	0.0	5.5	39.5	46.3	70	6	103
	11	208/230	1	152.9	27.1	6.9	0.5	5.5	40.0	46.8	70	6	102
	20	208/230	3	110.0	16.5	6.9	0.0	0.0	23.4	27.5	40	10	71
	21	208/230	3	110.0	16.5	6.9	0.5	0.0	23.9	28.0	45	10	69
30/35	460	3	52.0	7.2	6.0	0.0	0.0	13.2	15.0	20	14	48	
YT072	00	208/230	1	179.2	29.7	6.9	0.0	0.0	36.6	44.0	70	6	111
	01	208/230	1	179.2	29.7	6.9	0.5	0.0	37.1	44.5	70	6	110
	10	208/230	1	179.2	29.7	6.9	0.0	5.5	42.1	49.5	70	6	96
	11	208/230	1	179.2	29.7	6.9	0.5	5.5	42.6	50.0	80	6	95
	20	208/230	3	136.0	17.6	6.9	0.0	0.0	24.5	28.9	45	10	68
	21	208/230	3	136.0	17.6	6.9	0.5	0.0	25.0	29.4	45	10	66
30/35	460	3	66.1	8.5	6.0	0.0	0.0	14.5	16.6	25	14	44	

DIMENSIONAL DATA, CABINET, DUCT FLANGES AND INSTALLATION CLEARANCE:



Model	Without Control Box			With Control Box	Return Air Flange					Supply Air Flange				Optional Filter Rack		
	A1	*B	C	A2	D	E	F	G	H	J	K	L	M	N	P	R
024	46.0	23.0	26.5	53.25	25.0	20.0	19.1	1.92	3.63	11.62	12.5	7.44	1.05	2.34	3.00	3.63
036-048	54.0	25.4	30.5	61.2	28.0	26.0	23.7	2.34	2.25	16.0	16.0	7.26	1.60	2.34	3.29	2.25
060-072	58.4	25.4	30.5	65.6	32.0	26.0	24.0	2.34	2.25	16.0	16.0	7.26	1.60	2.34	3.29	2.25

Model	Source Water			Drain Ht.	HWG Water		
	S	T	U	W	X	Y	Z
024	8.28	13.63	9.63	9.0	10.31	14.75	6.00
036-048	8.41	14.73	9.63	9.0	11.44	17.44	6.00
060-072	5.56	12.21	9.63	12.2	14.63	17.88	6.00

Notes:

Source water loop - residential models use 1" double o-ring fittings, commercial models use 1" FPT fittings. All measurements are in inches. All Desuperheater (HWG) connections are 3/4" FPT fittings. Electrical connect. are 1" for high voltage, 1/2" for low voltage. *B (Unit Width) excludes field installed factory supplied flanges.

UNIT PHYSICAL DATA

Dual Capacity Vertical					
Model Number	024	036	048	060	072
Fan Wheel (in.)	10 x 8	11 x 10	11 x 10	11 x 10	11 x 10
Fan Motor ECM (HP)	3/4	3/4	3/4	1	1
Refrigerant Charge (oz.)	56	80	87	94	94
Air Coil					
Face Area (Sq. Ft.)	3.51	4.76	4.76	5.65	5.65
Dimensions (in.)	25.5 x 19.8 x 1	28.9 x 23.7 x 1.26		32.8 x 24.8 x 1.26	
Number of Rows	N/A - Micro-Channel Coil				
Unit Weight lbs (shipping)	300	415	450	475	480



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Conforms to
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