Engineering Data

ENERTECH®
Geothermal Made Better®

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:

1: Brand	2: Type	3: Stage	4, 5, 6: Unit Capacity	7: Revision	8: Voltage	9: Hot Water Configuration	10: Return Air Options	11: Discharge Air Options	12: Blower Options	13: Coax Options	14 & 15: Standard
-	Y	T	048	A	1	1	M	T	1	C	SS

Brand:
G = GeoComfort
H = Hyrdon Module
T = Tetco
A = GeoExcel

Type:
Y = Vertical Series

Stage:
T = Two Stage- R-410a

Unit Capacity (Nominal MBTUH):
024, 036, 048, 060, 072

Revision:
A = Current Revision

Voltage:
1 = 208/230V, 60Hz, 1Ph (Residential)
0 = 208/230V, 60Hz, 1Ph (Commercial)
2 = 208/230V, 60Hz, 3Ph (Commercial)
3 = 460V, 60Hz, 3Ph (Commercial)

Hot Water Configuration:
0 = None
1 = Desuperheater w/Factory Installed Pump
5 = Desuperheater w/o Factory Installed Pump
(460V Units Only)

Return Air Options:
M = Multi-Position

Discharge Air Options:
T = Top Discharge
S = Side Discharge
(036-072 Units Only
B = Back Discharge
(036-072 Units Only)

Blower Options:
1 = ECM Motor

Coax Options:
C = Copper (Standard)
N = CuproNickel

Standard:
SS = Stock Standard
RS = Factory Installed Soft Starter
(1Ph Units Only)

20D232-01NN REV. A

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

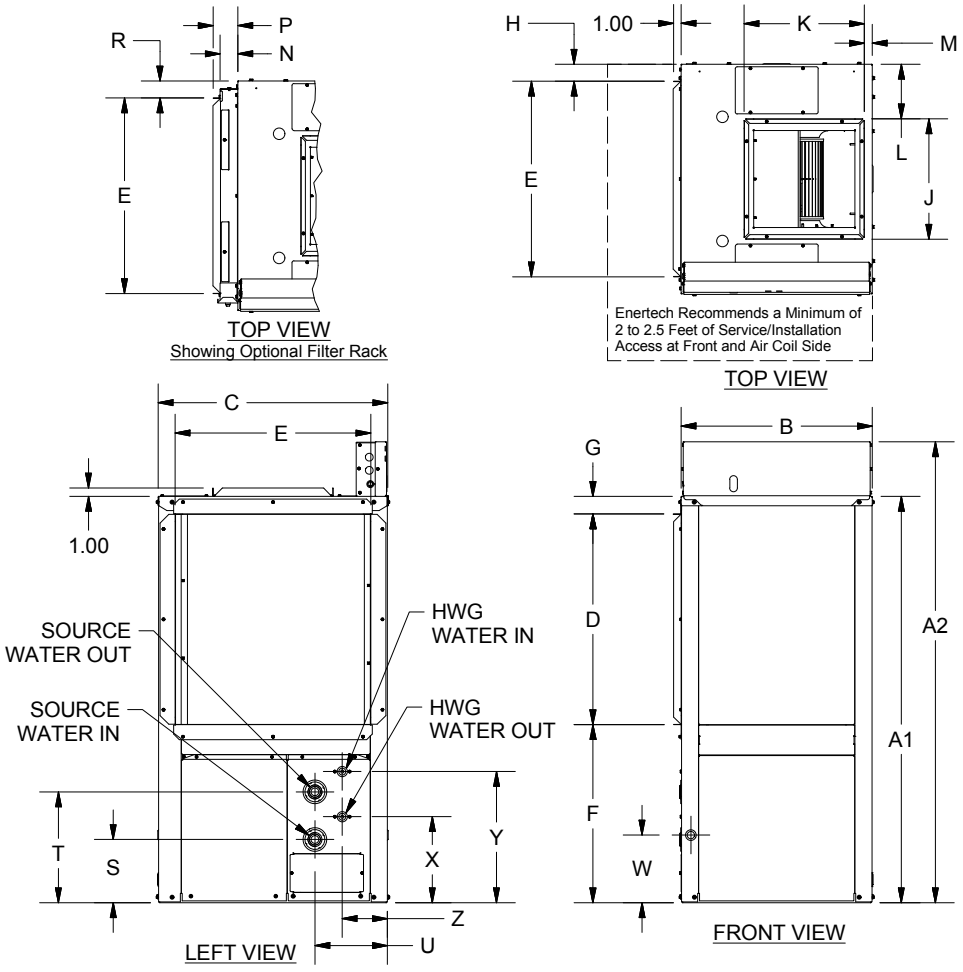
Note:
Rated in accordance with ISO Standard 13256-1 which includes Pump Penalties.
Heating capacities based on 68.0°F DB, 59.0°F WB entering air temperature.
Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature.
GLHP - Entering water temperatures Full Load: 32°F heating / 77°F cooling.
GLHP - Entering water temperatures Part Load: 41°F heating / 68°F cooling.
GWHP - Entering water temperatures: 50°F heating / 59°F cooling.

AHRI CERTIFIED www.ahridirectory.org Water Source HP ANSI/AHRI/ASHRAE/ISO13256-1

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

ENERTECH®

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ETL LISTED c US Intertek 69464

Conforms to UL Std 1995

Certified to CAN/CSA Std C22.2 No. 236

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Rev Tab

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