



Project Name: _____

Engineer: _____

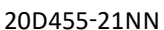
Contractor: _____

Architect: _____

Date Received: _____

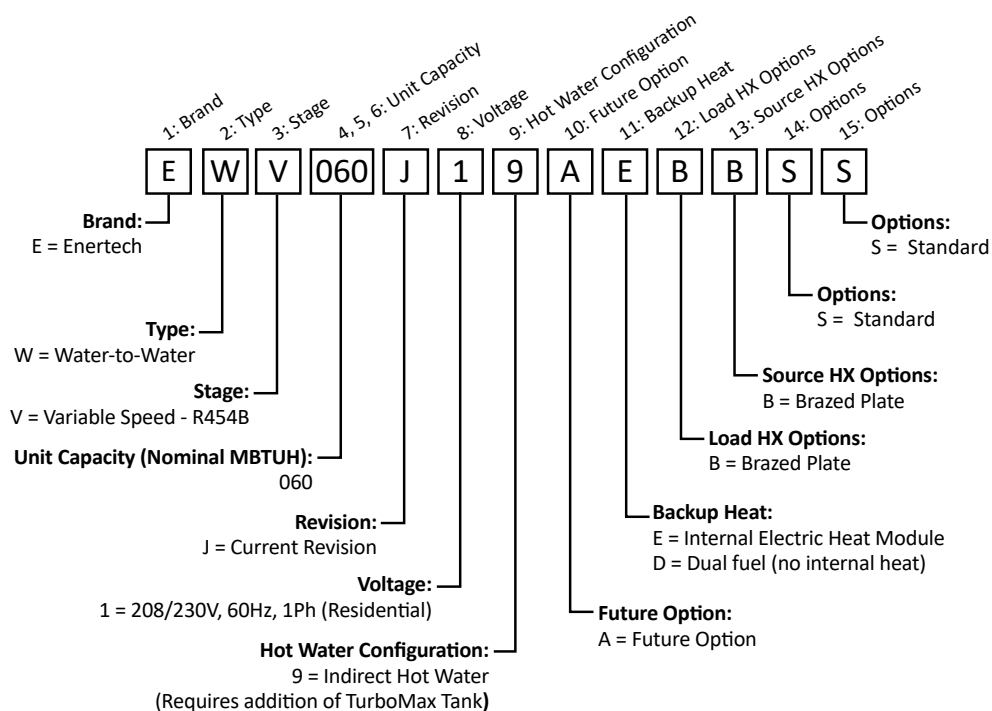
Date Submitted: _____

[illegible][illegible]



ENGINEERING SPECIFICATIONS

WV Model Nomenclature



Unit AHRI Performance Data

Model	Type	Cooling BTU				Heating BTU			
		Full Load	EER	Part Load	EER	Full Load	COP	Part Load	COP
WV060	Ground Loop	41,100	17.6	20,900	21.6	53,900	3.2	29,100	3.8

Ground Loop (GL) Notes:

Rated in accordance with ISO 13256-2 which includes pump penalties

Heating Full Load capacities based on 32F EST & 104F ELT

Heating Part Load capacities based on 41F EST and 104F ELT

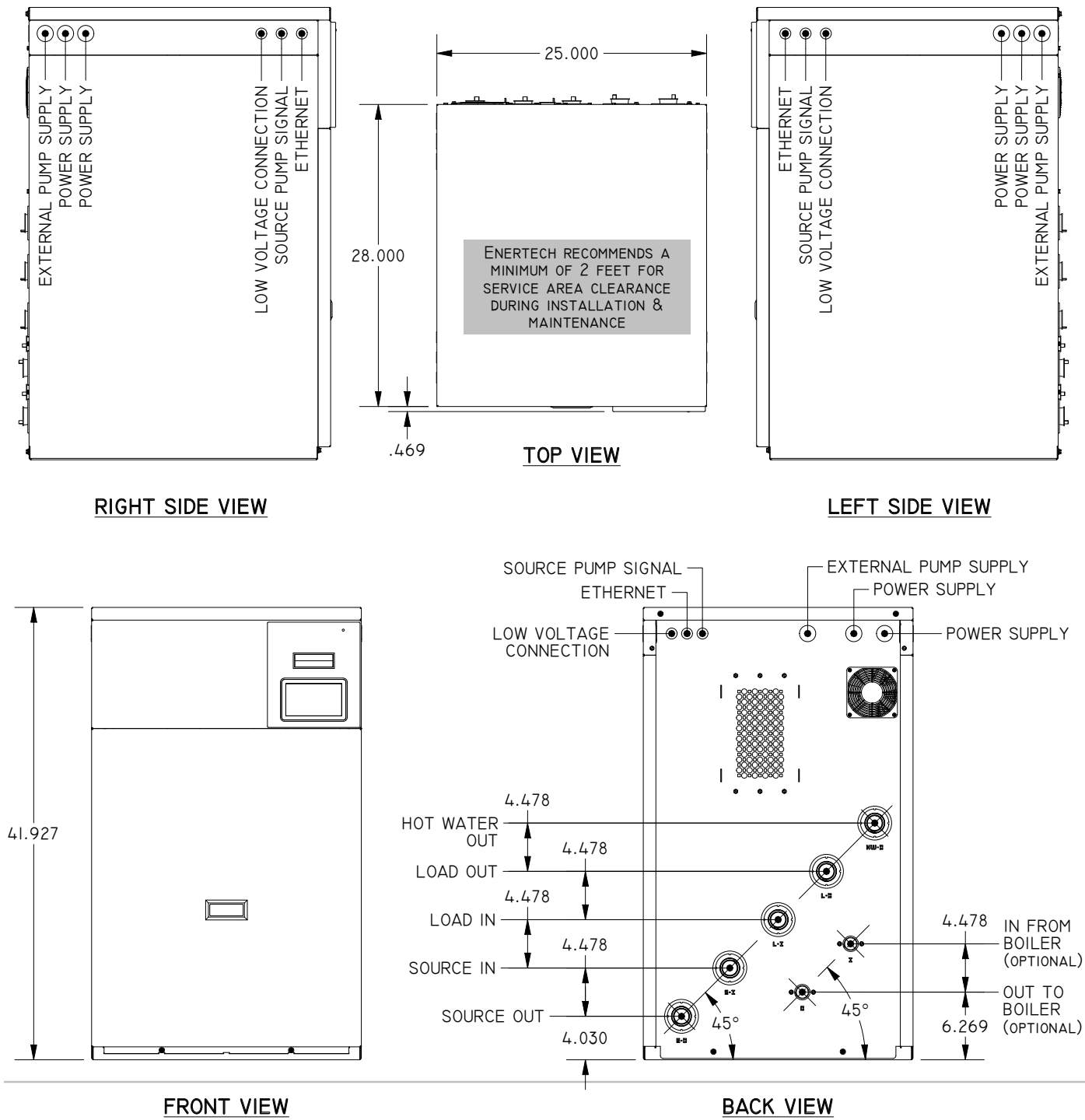
Cooling Full Load capacities based on 77F EST and 53.6F ELT

Cooling Part Load capacities based on 68F EST & 53.6 ELT

Entering load temps over 120F heating and under 45F cooling is not permissible

Floor heating is generally designed for 85F entering load temp

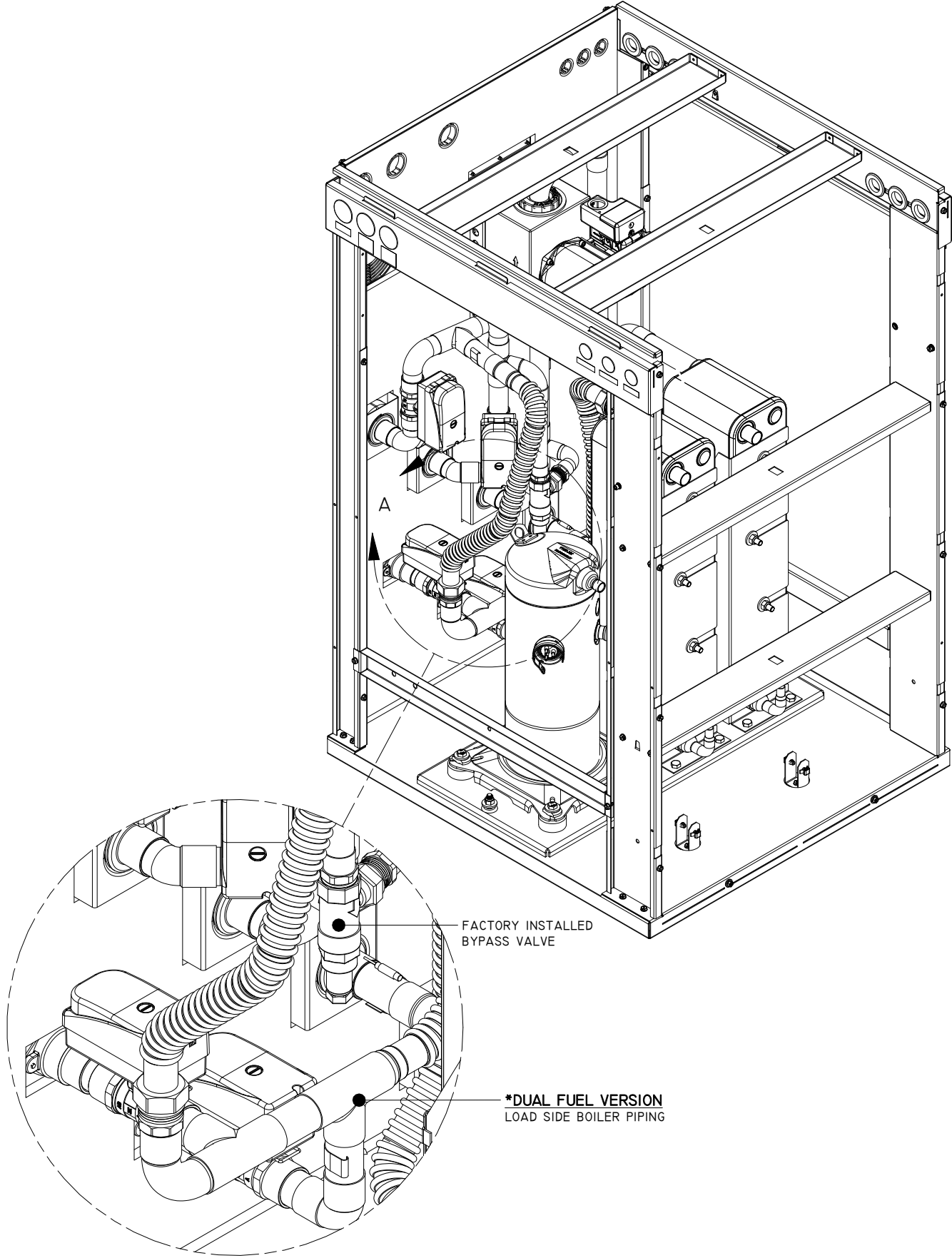
Dimensional Data



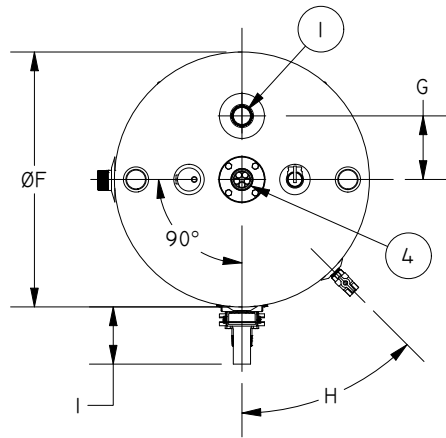
Variable Speed Compressor Unit								
MODEL	SOURCE Water: D/O*		LOAD Water: D/O*		HWG Water: D/O*	BOILER: FPT	Factory Charge	Shipping Weight
	IN	OUT	IN	OUT	OUT	IN/OUT		
060	1"	1"	1"	1"	1"	1"	62 oz	355 Lbs
Notes:								
*D/O = Double O-ring connections. (requires double o-ring hose kit or adapters)								
- Electrical connections are 1" DIA for high voltage, & 1/2" DIA for low voltage.								

ENGINEERING SPECIFICATIONS

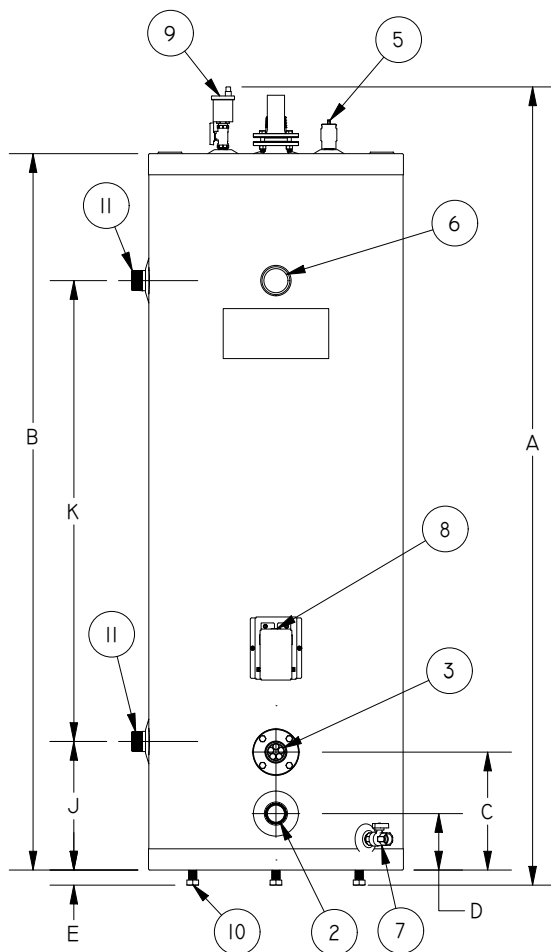
Factory Installed Component Guide



Hot Water Capacities and Physical Data



TOP VIEW

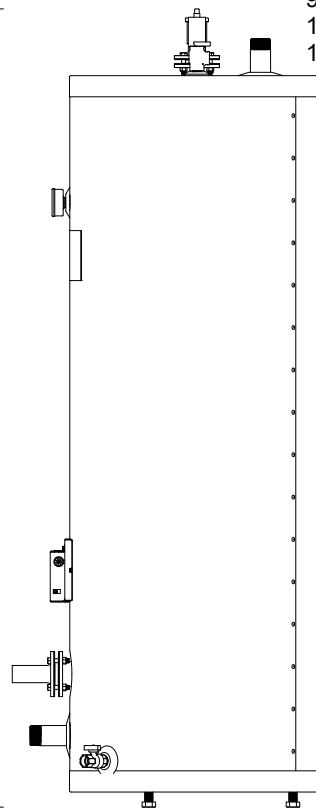


FRONT VIEW

TECHNICAL DATA				
MODEL	TANK VOLUME	HEAT TRANSFER AREA (SQ.FT.)	EQUIPMENT WEIGHT	SHIPPING WEIGHT
01A011-02NN (THERMISTOR VERSION)	50 GAL. U.S.	32.7 sqFT	230 LBS.	268 LBS.
01A012-02NN (THERMISTOR VERSION)	80 GAL. U.S.	32.7 sqFT	308 LBS.	353 LBS.
01A013-02NN (THERMISTOR VERSION)	120 GAL. U.S.	59.8 sqFT	430 LBS.	480 LBS.

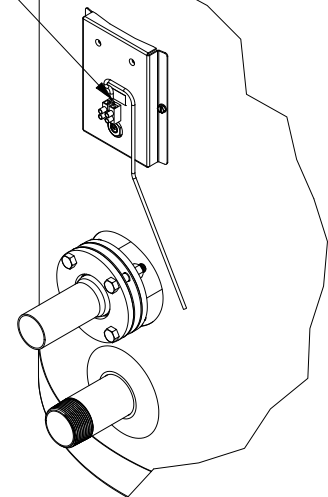
COMPONENT IDENTIFICATION

1. Boiler Water Supply (Inlet)
2. Boiler Water Return (Outlet)
3. Domestic Water Inlet (1-1/2" I.D. Copper)
4. Domestic Water Outlet (1-1/2" I.D. Copper)
5. Pressure Relief Valve - 3/4 NPTF
6. Temp. and Press. Indicator - 1/2 NPTM
7. Tank Drain Valve - 3/4 NPTF
8. Temperature Control -
Remove cover and connect thermistor wire.
9. Automatic Air Vent - 1/2 NPTM
10. Adjustable Leg
11. Extra Tappings - be sure to close with provided caps or attach to your system.



RIGHT VIEW

Remove cover (2 screws),
Strip and connect wire to top
of terminal strip. Feed wire thru
plastic bushing on cover.
Replace cover.

**NOTE:**

Review and utilize TurboMax Use and Care Manual during installation. Once unit is installed, properly store manual.

TURBOMAX WITH THERMISTOR												
MODEL	GAL.	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	F (IN.)	G (IN.)	H (DEG.)	I (IN.)	J (IN.)	K (IN.)
01A011-02NN	50 GAL.	60 11/16	52 13/16	11 13/32	7 13/32	1 1/2	22 1/16	4	45	5 1/4	7 13/32	38
01A012-02NN	80 GAL.	75 3/8	67 5/8	11 1/8	5 5/16	1 1/2	24 1/16	6	45	5 3/8	12 1/8	43 1/2
01A013-02NN	120 GAL.	77 7/16	69 9/16	12 1/8	6 5/16	1 1/2	28 1/16	6	45	5 3/16	13 1/8	43 1/2

ENGINEERING SPECIFICATIONS

Electrical Data

Model	Voltage Code/ Back-Up Heat Option	60 Hz Power		Supply Circuit A ¹⁻⁴								Supply Circuit B ¹⁻⁴				
				Compressor & Drive ⁵			Int. Pump FLA	Ext. Loop Pump FLA	Total FLA	Min Circuit AMPS	Max Brkr HACR	Immersion Heater			Min Circuit AMPS	MOCP
		Volts	Phase	MRC	RIC	MOC						Volts	kW	FLA		
WV060	1*D	208/230	1	40.0	31.0	45.0	1.7/ 1.5	5.1/ 4.5	37.8/ 37.0	45.6/ 44.8	70/ 70					
	1*E	208/230	1	40.0	31.0	45.0	1.7/ 1.5	5.1/ 4.5	37.8/ 37.0	45.6/ 44.8	70/ 70	208/230	7.4/ 9	35.4/ 39.1	44.3/ 48.9	45/ 50

Notes:

1. All line and low voltage wiring must adhere to the National Electrical Code and local codes, whichever is the most stringent.
2. In determining the correct supply wire size and maximum length, reference NFPA 70, Section 310. If the calculation is close to the maximum allowable ampacity of a particular wire size, use the next size up. This will ensure that no adverse effects occur, such as light dimming and/or shortened compressor life.
3. Min/Max Voltage: 208/230/60 = 187-252
4. Units rated at 208/230V are factory wired for 230V. To change to 208V, the red transformer wire (with wire nut) will need to be hooked to the contactor in the position the current orange (230V) wire is. The orange wire will need to be capped off. Refer to wire diagram for details.
5. MRC (Maximum Rated Current) is the maximum steady state current limit (peak) of the drive before overcurrent trip (software limit). MOC is the maximum transient output current limit (peak) of the drive before overcurrent trip (hardware limit). Although this data is not significant to the installation (RIC / Rated Input Current is all that is necessary for breaker/wire sizing), the values are a required listing for unit electrical data.

Glossary

COP = Coefficient of Performance = BTU Output / BTU Input	HR = Total Heat Of Rejection, Btu/hr
DH = Desuperheater Capacity, Btu/hr	KW = Total Power Unit Input, Kilowatts
EER = Energy Efficiency Ratio = BTU output/Watts input	LWT = Leaving Source Water Temperature, Fahrenheit
EST = Entering Source Water Temperature, Fahrenheit	LLT = Leaving Load Water Temperature, Fahrenheit
ELT = Entering Load Water Temperature, Fahrenheit	TC = Total Cooling Capacity, Btu/hr
GPM = Water Flow, Gallons Per Minute	HC = Heating Capacity, Btu/hr
HE = Total Heat Of Extraction, Btu/hr	WPD = Water Pressure Drop, PSI & Feet of Water

Heating & Cooling Calculations

Heating	Cooling
$\text{LWT} = \text{EST} - \frac{\text{HE}}{\text{GPM} \times 500^*}$	$\text{LWT} = \text{EST} + \frac{\text{HR}}{\text{GPM} \times 500^*}$
$\text{HE} = 500^* \times \text{GPM} \times (\text{EWT} - \text{LWT})$	$\text{HR} = 500^* \times \text{GPM} \times (\text{LWT} - \text{EWT})$

*500 = Constant factor for pure water. Brine should be 485.

It is important to design the system to maintain flow rates above the minimum to avoid a fault. Antifreeze is generally required for all closed loop (geothermal) applications. Extreme Southern U.S. locations are the only exception. Open loop (well water) systems typically cannot use antifreeze, and must have enough flow rate in order to avoid freezing conditions at the Leaving Source Water Temperature connection.

IMPORTANT: Applications with Brazed Plate Heat Exchangers (All WV units) require antifreeze. Antifreeze is required in the load piping for units that will be producing chilled water for cooling.

Heating Mode Leaving Water Temp Calculations

The WV compressor and source/load pumps are variable speed, and can operate over a wide range. However, it's good practice to design the loop piping/pumping for nominal flow (15 gpm for WV060). If pressure drop does not allow nominal flow with the available pumping options, the middle full load flow rate (11.3 gpm for WV060) is acceptable, provide the minimum ground loop temperature is 30 deg. F or higher.

Application Notes for Performance Data

1. EWT (Entering Water Temperature) is also called EST (Entering Source Temperature).
2. It is permissible to operate in the shaded areas intermittently but it is recommended to avoid extended run time in these areas.
3. Any condition outside this performance table is not allowed to ensure safe and continuous operation.
4. Performance data accurate within $\pm 15\%$.
5. Capacity data includes the load-side internal pump power but not the source-side pump power and it does not reflect pump power correction for AHRI/ISO conditions.
6. Performance data is based upon the lower voltage of dual voltage rated units.
7. Capacity data is based on 15% (by mass) methanol antifreeze solution (multiplier: 485) on the source side and pure water (multiplier: 500) on the load side.
8. Interpolation of unit performance data is permissible; extrapolation is not.
9. Performance data is a result of lab testing and is not related to warranty.
10. Due to variations in installation, actual unit performance may vary from the tabulated data.

ENGINEERING SPECIFICATIONS

WV060 - Heating Full Load - Extended Data Tables

SOURCE				WV060, LOAD SIDE, HEATING MODE, FULL LOAD (5500 RPM COMPRESSOR SPEED)																
EST	Source Flow			ELT	Load Flow 10 GPM					Load Flow 11.3 GPM					Load Flow 15 GPM					
	GPM	Source Flow WPD			LLT	HC	HE	kW	COP	LLT	HC	HE	kW	COP	LLT	HC	HE	kW	COP	
°F		PSI	FT	°F	°F	MBtuh	MBtuh		W/W	°F	MBtuh	MBtuh		W/W	°F	MBtuh	MBtuh		W/W	
25	15	3.5	8.1	50	57.7	57.6	46.7	3.20	5.30	57.7	57.6	46.7	3.20	5.30	57.7	57.4	46.8	3.10	5.40	
		3.5	8.1	80	88.2	61.8	47.7	4.10	4.40	88.2	61.7	47.8	4.10	4.40	88.2	61.5	47.9	4.00	4.50	
		3.5	8.1	100	108.0	60.2	43.2	5.00	3.50	108.0	60.2	43.3	4.90	3.60	108.0	60.0	43.5	4.80	3.60	
		3.5	8.1	110	117.9	59.1	40.3	5.50	3.10	117.9	59.1	40.4	5.50	3.20	117.9	58.9	40.6	5.40	3.20	
		3.6	8.3	130	136.3	47.4	29.3	5.30	2.60	136.3	47.4	29.4	5.30	2.60	136.3	47.3	29.7	5.20	2.70	
30	10	1.4	3.2	50	61.3	56.5	45.6	3.20	5.20	61.3	56.5	45.6	3.20	5.20	61.3	56.3	45.7	3.10	5.30	
		1.4	3.2	80	92.1	60.6	46.6	4.10	4.30	92.1	60.6	46.6	4.10	4.30	92.1	60.4	46.8	4.00	4.40	
		1.4	3.2	100	111.8	59.1	42.1	5.00	3.50	111.8	59.1	42.2	4.90	3.50	111.8	58.9	42.4	4.80	3.60	
		1.4	3.2	110	121.6	58.0	39.2	5.50	3.10	121.6	58.0	39.3	5.50	3.10	121.6	57.8	39.6	5.30	3.20	
		1.4	3.2	130	139.3	46.5	28.4	5.30	2.60	139.3	46.5	28.5	5.30	2.60	139.3	46.4	28.8	5.20	2.60	
	11.3	1.8	4.2	50	60.2	57.6	46.6	3.20	5.30	60.2	57.5	46.6	3.20	5.30	60.2	57.4	46.7	3.10	5.40	
		1.8	4.2	80	90.9	61.7	47.7	4.10	4.40	90.9	61.7	47.7	4.10	4.40	90.9	61.5	47.9	4.00	4.50	
		1.8	4.2	100	110.7	60.2	43.2	5.00	3.50	110.7	60.2	43.2	5.00	3.60	110.6	60.0	43.5	4.80	3.60	
		1.8	4.2	110	120.5	59.1	40.2	5.50	3.10	120.4	59.0	40.3	5.50	3.10	120.4	58.9	40.6	5.40	3.20	
		1.8	4.2	130	138.4	47.4	29.2	5.30	2.60	138.4	47.4	29.3	5.30	2.60	138.4	47.2	29.6	5.20	2.70	
	15	3.4	7.9	50	58.2	61.3	50.2	3.30	5.50	58.2	61.3	50.2	3.20	5.50	58.1	61.1	50.3	3.20	5.70	
		3.4	7.9	80	88.8	65.8	51.5	4.20	4.60	88.8	65.7	51.5	4.20	4.60	88.7	65.5	51.7	4.10	4.70	
		3.4	7.9	100	108.5	64.1	46.8	5.10	3.70	108.5	64.1	46.9	5.00	3.70	108.5	63.9	47.1	4.90	3.80	
		3.4	7.9	110	118.4	62.9	43.8	5.60	3.30	118.4	62.9	43.9	5.60	3.30	118.4	62.7	44.1	5.40	3.40	
	50	10	3.5	8.1	130	136.7	50.5	32.0	5.40	2.70	136.7	50.5	32.1	5.40	2.70	136.7	50.3	32.4	5.30	2.80
1.4			3.2	50	62.7	63.4	51.8	3.40	5.50	62.7	63.3	51.8	3.40	5.50	62.6	63.2	51.9	3.30	5.60	
1.4			3.2	80	93.6	68.0	53.1	4.40	4.60	93.6	67.9	53.1	4.30	4.60	93.5	67.7	53.3	4.20	4.70	
1.4			3.2	100	113.3	66.3	48.2	5.30	3.70	113.2	66.2	48.3	5.30	3.70	113.2	66.0	48.5	5.10	3.80	
1.4			3.2	110	123.0	65.0	45.1	5.90	3.30	123.0	65.0	45.1	5.80	3.30	123.0	64.8	45.4	5.70	3.30	
11.3		1.4	3.2	130												140.4	52.0	33.3	5.50	2.80
		1.8	4.2	50	61.4	64.6	52.9	3.40	5.50	61.4	64.5	53.0	3.40	5.80	61.4	64.4	53.0	3.30	5.70	
		1.8	4.2	80	92.2	69.2	54.3	4.40	4.60	92.2	69.2	54.3	4.40	4.90	92.2	69.0	54.5	4.30	4.70	
		1.8	4.2	100	111.9	67.5	49.4	5.30	3.70	111.9	67.5	49.5	5.30	3.90	111.9	67.3	49.7	5.20	3.80	
		1.8	4.2	110	121.7	66.3	46.2	5.90	3.30	121.7	66.2	46.3	5.80	3.50	121.7	66.0	46.6	5.70	3.40	
15		1.8	4.2	130												139.4	53.0	34.2	5.50	2.80
		3.3	7.6	50	59.2	68.8	57.0	3.50	5.60	59.2	68.7	57.0	3.40	5.80	59.1	68.5	57.1	3.40	6.00	
		3.3	7.6	80	89.8	73.8	58.5	4.50	4.70	89.8	73.7	58.6	4.40	4.90	89.8	73.5	58.7	4.30	5.00	
		3.3	7.6	100	109.6	71.9	53.5	5.40	3.80	109.6	71.9	53.6	5.40	3.90	109.6	71.7	53.8	5.20	4.00	
		3.3	7.6	110	119.4	70.6	50.2	6.00	3.34	119.4	70.5	50.3	5.90	3.50	119.4	70.3	50.6	5.80	3.60	
70	10	3.4	7.9	130												137.5	56.4	37.4	5.60	3.00
		1.3	3.0	50	65.0	74.8	62.6	3.60	5.50	64.9	74.7	62.6	3.50	6.00	64.9	74.5	62.7	3.50	6.30	
		1.3	3.0	80	96.0	80.2	64.5	4.60	4.60	96.0	80.1	64.6	4.60	5.00	96.0	79.9	64.7	4.40	5.30	
		1.3	3.0	100	115.6	78.2	59.3	5.50	3.70	115.6	78.1	59.3	5.50	4.00	115.6	77.9	59.5	5.40	4.20	
		1.3	3.0	110	125.3	76.7	55.8	6.10	3.30	125.3	76.6	55.8	6.10	3.60	125.3	76.4	56.1	6.00	3.80	
	11.3	1.3	3.0	130												142.3	61.3	41.7	5.70	3.10
		1.6	3.7	50	63.5	76.2	63.9	3.60	5.60	63.5	76.1	64.0	3.60	6.10	63.4	75.9	64.0	3.50	6.40	
		1.6	3.7	80	94.5	81.7	66.0	4.60	4.70	94.4	81.6	66.0	4.60	5.10	94.4	81.4	66.1	4.50	5.30	
		1.6	3.7	100	114.1	79.6	60.6	5.60	3.70	114.1	79.6	60.7	5.50	4.10	114.1	79.4	60.9	5.40	4.30	
		1.7	3.9	110	123.8	78.1	57.1	6.20	3.32	123.8	78.1	57.2	6.10	3.70	123.8	77.9	57.5	6.00	3.80	
	15	1.7	3.9	130												141.1	62.5	42.8	5.80	3.20
		3.1	7.2	50	60.8	81.1	68.7	3.60	5.70	60.8	81.1	68.7	3.60	6.20	60.8	80.8	68.8	3.50	6.70	
		3.1	7.2	80	91.6	87.0	71.0	4.70	4.70	91.6	86.9	71.1	4.60	5.20	91.6	86.7	71.2	4.50	5.60	
		3.1	7.2	100	111.3	84.8	65.5	5.70	3.80	111.3	84.8	65.6	5.60	4.20	111.3	84.5	65.8	5.50	4.50	
	90	10	3.1	7.2	110	121.1	83.2	61.9	6.30	3.39	121.1	83.2	61.9	6.20	3.70	121.1	82.9	62.2	6.10	4.00
3.2			7.4	130												138.9	66.5	46.6	5.90	3.30
1.2			2.8	50	65.7	78.7	66.3	3.60	5.80	65.7	78.6	66.3	3.60	6.30	65.7	78.4	66.4	3.50	6.50	
1.2			2.8	80	96.9	84.4	68.5	4.70	4.90	96.9	84.3	68.5	4.60	5.30	96.8	84.1	68.6	4.50	5.40	
1.2			2.8	100	116.5	82.3	63.0	5.60	3.90	116.4	82.2	63.1	5.60	4.20	116.4	82.0	63.3	5.50	4.40	
11.3		1.2	2.8	110	126.2	80.8	59.4	6.30	3.47	126.1	80.7	59.5	6.20	3.80	126.1	80.5	59.8	6.10	3.90	
		1.2	2.8	130												142.9	64.6	44.6	5.90	3.20
		1.6	3.7	50	64.2	80.2	67.7	3.60	5.80	64.2	80.1	67.7	3.60	6.20	64.1	79.9	67.8	3.50	6.60	
		1.6	3.7	80	95.2	86.0	70.0	4.70	4.90	95.2	85.9	70.0	4.70	5.20	95.2	85.7	70.1	4.50	5.50	
		1.6	3.7	100	114.8	83.8	64.5	5.70	3.90	114.8	83.8	64.5	5.60	4.20	114.8	83.5	64.8	5.50	4.40	
15		1.6	3.7	110	124.6	82.3	60.8	6.30	3.49	124.5	82.2	60.9	6.20	3.70	124.5	82.0	61.2	6.10	3.90	
		1.6	3.7	130												141.6	65.8	45.7	5.90	3.30
		3.0	6.9	50	61.4	85.4	72.8	3.70	6.00	61.4	85.3	72.8	3.70	6.30	61.3	85.1	72.8	3.60	6.90	
		3.0	6.9	80	92.2	91.6	75.3	4.80	5.00	92.2	91.5	75.4	4.70	5.20	92.2	91.2	75.5	4.60	5.80	
		3.0	6.9	100	111.9	89.3	69.6	5.80	4.00	111.9	89.2	69.7	5.70	4.20	111.9	89.0	69.9	5.60	4.70	

WV060 - Heating Part Load - Extended Data Tables

SOURCE				WV060, LOAD SIDE, HEATING MODE, PART LOAD (2500 RPM COMPRESSOR SPEED)																
EST	Source Flow		ELT	Load Flow 4 GPM					Load Flow 5 GPM					Load Flow 6 GPM						
	GPM	Source Flow WPD		LLT	HC	HE	kW	COP	LLT	HC	HE	kW	COP	LLT	HC	HE	kW	COP		
°F			PSI	FT	°F	°F	MBtuh	MBtuh	W/W	°F	MBtuh	MBtuh	W/W	°F	°F	MBtuh	MBtuh	W/W		
25	6	0.7	1.6	50	56.1	18.2	15.3	0.90	6.10	56.0	18.1	8.9	2.70	2.00	56.0	17.9	15.0	0.80	6.20	
		0.7	1.6	80	86.0	18.0	13.3	1.40	3.80	86.0	18.1	15.1	0.90	6.10	85.9	17.7	13.1	1.30	3.90	
		0.8	1.8	100	105.9	17.7	11.7	1.70	3.00	105.9	17.8	13.2	1.40	3.90	105.8	17.4	11.6	1.70	3.00	
		0.8	1.8	110	115.9	17.6	10.9	2.00	2.60	115.8	17.5	11.7	1.70	3.00	115.8	17.3	10.8	1.90	2.70	
30	4	0.7	1.6	130	136.0	18.1	8.9	2.70	2.00	135.8	17.4	10.8	1.90	2.60	135.9	17.8	8.8	2.60	2.00	
		0.3	0.7	50	59.1	18.2	15.2	0.90	6.20	59.0	18.0	15.1	0.90	6.20	59.0	17.9	15.0	0.80	6.20	
		0.3	0.7	80	89.0	17.9	13.3	1.40	3.90	88.9	17.8	13.2	1.30	3.90	88.8	17.6	13.1	1.30	3.90	
		0.3	0.7	100	108.8	17.6	11.7	1.70	3.00	108.8	17.5	11.7	1.70	3.00	108.7	17.3	11.6	1.70	3.00	
	5	0.3	0.7	110	118.8	17.5	10.9	1.90	2.60	118.7	17.4	10.8	1.90	2.70	118.6	17.2	10.8	1.90	2.70	
		0.3	0.7	130	139.0	18.0	8.9	2.70	2.00	139.0	17.9	8.9	2.60	2.00	138.9	17.7	8.9	2.60	2.00	
		0.4	0.9	50	57.4	18.5	15.5	0.90	6.20	57.3	18.3	15.4	0.90	6.30	57.2	18.1	15.3	0.80	6.30	
		0.4	1.0	80	87.3	18.2	13.6	1.40	3.90	87.2	18.0	13.5	1.30	3.90	87.2	17.9	13.4	1.30	4.00	
	6	0.5	1.1	100	107.2	17.9	12.0	1.70	3.00	107.1	17.7	11.9	1.70	3.00	107.0	17.6	11.8	1.70	3.10	
		0.5	1.1	110	117.1	17.8	11.1	2.00	2.70	117.1	17.7	11.1	1.90	2.70	117.0	17.5	11.0	1.90	2.70	
		0.4	1.0	130	137.3	18.3	9.1	2.70	2.00	137.2	18.1	9.1	2.60	2.00	137.2	18.0	9.1	2.60	2.00	
		0.6	1.4	50	56.3	18.8	15.9	0.90	6.30	56.2	18.7	15.7	0.90	6.30	56.2	18.5	15.6	0.80	6.40	
	50	4	0.6	1.4	80	86.2	18.6	13.9	1.40	4.00	86.1	18.4	13.8	1.40	4.00	86.1	18.3	13.7	1.30	4.00
			0.7	1.6	100	106.1	18.3	12.3	1.70	3.10	106.0	18.1	12.2	1.70	3.10	106.0	17.9	12.2	1.70	3.10
			0.7	1.6	110	116.1	18.2	11.4	2.00	2.70	116.0	18.0	11.4	1.90	2.70	116.0	17.9	11.3	1.90	2.70
			0.6	1.4	130	136.2	18.7	9.5	2.70	2.00	136.2	18.5	9.4	2.70	2.00	136.1	18.4	9.4	2.60	2.10
5		0.2	0.5	50	66.0	32.0	28.3	1.10	8.60	65.9	31.7	28.1	1.10	8.70	65.7	31.4	27.8	1.10	8.80	
		0.2	0.5	80	95.8	31.5	25.7	1.70	5.40	95.6	31.2	25.5	1.70	5.50	95.5	31.0	25.4	1.60	5.50	
		0.2	0.5	100	115.5	31.0	23.6	2.20	4.20	115.4	30.7	23.4	2.10	4.20	115.2	30.4	23.3	2.10	4.30	
		0.2	0.5	110	125.4	30.8	22.5	2.40	3.70	125.3	30.6	22.4	2.40	3.70	125.2	30.3	22.2	2.40	3.80	
6		0.3	0.7	50	63.0	32.5	28.7	1.10	8.70	62.9	32.2	28.5	1.10	8.80	62.8	31.9	28.3	1.10	8.80	
		0.3	0.7	80	92.8	32.0	26.2	1.70	5.50	92.7	31.7	26.0	1.70	5.50	92.6	31.5	25.8	1.70	5.60	
		0.4	0.9	100	112.6	31.4	24.0	2.20	4.20	112.5	31.2	23.9	2.10	4.30	112.4	30.9	23.7	2.10	4.30	
		0.4	0.9	110	122.5	31.3	22.9	2.50	3.70	122.4	31.0	22.8	2.40	3.80	122.3	30.8	22.6	2.40	3.80	
70	4	0.3	0.7	130	142.9	32.2	20.7	3.40	2.80	142.8	31.9	20.6	3.30	2.80	143.0	32.6	28.9	1.10	9.00	
		0.5	1.2	50	61.1	33.2	29.4	1.10	8.80	61.0	32.9	29.2	1.10	8.90	60.7	32.1	26.4	1.70	5.70	
		0.5	1.2	80	90.9	32.7	26.8	1.70	5.60	90.8	32.4	26.6	1.70	5.60	90.5	31.6	24.3	2.10	4.40	
		0.6	1.4	100	110.7	32.1	24.6	2.20	4.30	110.6	31.8	24.5	2.20	4.30	110.5	31.4	23.2	2.40	3.80	
	5	0.6	1.4	110	120.7	32.0	23.5	2.50	3.80	120.6	31.7	23.4	2.40	3.80	120.8	32.3	21.1	3.30	2.90	
		0.5	1.2	130	141.0	32.9	21.3	3.40	2.80	140.9	32.6	21.2	3.30	2.90	143.5	40.6	36.8	1.10	10.50	
		0.2	0.5	50	70.3	40.6	36.8	1.10	10.50	70.2	40.3	36.5	1.10	10.60	70.0	39.9	36.2	1.10	10.70	
		0.2	0.5	80	100.1	40.1	34.0	1.80	6.60	99.9	39.7	33.8	1.70	6.70	99.7	39.4	33.5	1.70	6.70	
	6	0.2	0.5	100	119.7	39.4	31.7	2.30	5.10	119.5	39.0	31.4	2.20	5.10	119.4	38.7	31.2	2.20	5.20	
		0.2	0.5	110	129.6	39.2	30.5	2.60	4.50	129.5	38.9	30.3	2.50	4.50	129.3	38.5	30.1	2.50	4.60	
		0.2	0.5	130																
		0.3	0.7	50	66.5	41.3	37.4	1.10	10.60	66.4	40.9	37.1	1.10	10.70	66.2	40.6	36.8	1.10	10.80	
90	4	0.3	0.7	80	96.3	40.7	34.6	1.80	6.70	96.1	40.3	34.3	1.80	6.70	96.0	40.0	34.1	1.70	6.80	
		0.3	0.7	100	116.0	40.0	32.2	2.30	5.10	115.8	39.6	32.0	2.20	5.20	115.7	39.3	31.8	2.20	5.20	
		0.3	0.7	110	125.9	39.8	31.0	2.60	4.50	125.8	39.5	30.8	2.50	4.60	125.6	39.1	30.6	2.50	4.60	
		0.3	0.7	130																
	5	0.4	0.9	50	63.8	41.5	35.4	1.80	6.80	63.9	41.8	37.9	1.10	10.80	63.8	41.4	37.6	1.10	10.90	
		0.4	0.9	80	93.6	40.8	33.0	2.30	5.20	93.7	41.2	35.1	1.80	6.80	93.6	40.8	34.9	1.70	6.90	
		0.5	1.2	100	113.5	40.6	31.8	2.60	4.60	113.5	40.5	32.8	2.30	5.30	113.4	40.1	32.6	2.20	5.30	
		0.5	1.2	110	123.9	41.8	29.7	3.50	3.50	123.4	40.3	31.6	2.50	4.60	123.3	39.9	31.4	2.50	4.70	
	6	0.4	0.9	130																
		0.2	0.5	50	76.0	51.9	47.9	1.20	12.80	76.0	51.9	47.9	1.20	12.80	75.5	51.0	47.1	1.10	13.00	
		0.2	0.5	80	105.6	51.2	44.8	1.90	8.10	105.6	51.2	44.8	1.90	8.10	105.2	50.3	44.2	1.80	8.20	
		0.2	0.5	100	125.2	50.3	42.2	2.40	6.30	125.2	50.3	42.2	2.40	6.30	124.7	49.4	41.6	2.30	6.30	
90	4	0.2	0.5	110	135.0	50.0	41.0	2.70	5.50	135.0	50.0	41.0	2.70	5.50	134.6	49.2	40.4	2.60	5.60	
		0.2	0.5	130																
		0.2	0.5	50	71.1	52.7	48.6	1.20	13.00	70.9	52.3	48.2	1.20	13.00	70.7	51.8	47.9	1.20	13.20	
		0.3	0.7	80	100.8	51.9	45.6	1.90	8.20	100.6	51.5	45.2	1.80	8.20	100.4	51.1	44.9	1.80	8.30	
	5	0.3	0.7	100	120.4	51.0	43.0	2.40	6.30	120.2	50.6	42.6	2.30	6.40	120.1	50.2	42.3	2.30	6.40	
		0.3	0.7	110	130.3	50.8	41.7	2.70	5.60	130.2	50.4	41.4	2.60	5.60	130.0	50.0	41.1	2.60	5.60	
		0.3	0.7	130																
		0.4	0.9	50	67.9	53.8	49.7	1.20	13.20	67.8	53.4	49.3	1.20	13.20	67.6	52.9	48.9	1.20	13.30	
	6	0.4	0.9	80	97.7	53.0	46.6	1.90	8.30	97.5	52.6	46.3	1.80	8.30	97.4	52.1	45.9	1.80	8.40	
		0.4	0.9	100	117.4	52.1	44.0	2.40	6.40	117.2	51.7	43.7	2.40	6.40	117.1	51.2	43.3	2.30	6.50	
		0.4	0.9	110	127.3	51.9	42.7	2.70	5.60	127.2	51.5	42.4	2.70	5.70	127.0	51.0	42.1	2.60	5.70	
		0.4	0.9	130																

- It is permissible to run through the shaded areas in transient conditions but it is recommended to avoid extended operation in these areas.
- Capacity data is based on 15% (by mass) methanol antifreeze solution (multiplier: 485) on the source side and pure water (multiplier: 500) on the load side.
- Any condition outside this performance table is not allowed to ensure safe and continuous operation.
- Performance data accurate within ±15%.
- Unit performance test is run without hot water generation.
- Capacity data includes the load-side internal pump power but not the source-side pump power and it does not reflect pump power correction for AHRI/ISO conditions.
-

ENGINEERING SPECIFICATIONS

WV060 - Cooling Full Load - Extended Data Tables

SOURCE				WV060, LOAD SIDE, COOLING MODE, FULL LOAD (3500 RPM COMPRESSOR SPEED)															
EST	Source Flow			ELT	Load Flow 9 GPM				Load Flow 12 GPM				Load Flow 14 GPM						
	GPM	Source Flow WPD			LLT	TC	HR	kW	EER	LLT	TC	HR	kW	EER	LLT	TC	HR	kW	EER
°F		PSI	FT	°F	°F	MBtuh	MBtuh		Btuh/W	°F	MBtuh	MBtuh		Btuh/W	°F	MBtuh	MBtuh		Btuh/W
40	9	1.0	2.3	50															
		1.0	2.3	60	52.1	35.4	48.5	1.50	23.3	48.9	49.8	56.2	1.60	30.7	50.8	41.4	50.3	1.60	25.6
		0.9	2.1	70	61.0	40.4	54.7	1.50	26.5	58.3	52.8	58.5	1.50	35.5	59.5	47.3	56.6	1.60	29.1
		1.1	2.5	80	70.5	42.9	56.9	1.40	30.5	65.2	66.4	73.3	1.90	35.6	68.9	50.1	59.0	1.50	33.6
		1.0	2.3	90	78.0	53.9	71.4	1.80	30.6	76.5	60.8	66.8	1.60	37.2	76.0	63.0	73.9	1.90	33.7
50	9	0.9	2.1	50	42.1	35.4	48.8	1.70	20.6	40.3	43.6	50.2	1.80	24.0	40.8	41.3	50.6	1.80	22.7
		0.9	2.1	60	51.0	40.4	55.0	1.70	23.5	48.9	49.8	56.5	1.80	27.2	49.5	47.3	57.0	1.80	25.8
		0.8	1.8	70	60.5	42.8	57.3	1.60	27.1	58.3	52.8	58.8	1.70	31.4	58.9	50.1	59.3	1.70	29.8
		1.1	2.5	80	68.0	53.8	71.8	2.00	27.1	65.2	66.4	73.8	2.10	31.5	66.0	63.0	74.4	2.10	29.9
		0.9	2.1	90	79.0	49.3	65.4	1.70	28.4	76.5	60.8	67.2	1.80	32.9	77.2	57.7	67.7	1.80	31.2
	12	1.8	4.2	50	44.1	35.4	48.4	1.60	22.0	42.7	43.7	49.7	1.70	25.6	43.1	41.4	50.1	1.70	24.2
		1.8	4.2	60	53.3	40.5	54.5	1.60	25.0	51.7	49.9	56.0	1.70	29.1	52.1	47.4	56.4	1.70	27.5
		1.7	3.9	70	62.9	42.9	56.7	1.50	28.9	61.2	52.9	58.3	1.60	33.6	61.6	50.2	58.8	1.60	31.8
		2.1	4.9	80	71.0	54.0	71.1	1.90	29.0	68.9	66.5	73.1	2.00	33.7	69.5	63.1	73.7	2.00	31.9
		1.8	4.2	90	81.8	49.4	64.8	1.60	30.3	79.9	60.9	66.5	1.70	35.2	80.4	57.8	67.1	1.70	33.3
	14	2.4	5.5	50	45.0	35.3	48.3	1.60	21.8	43.8	43.5	49.7	1.70	25.4	44.1	41.2	50.1	1.70	24.0
		2.4	5.5	60	54.2	40.3	54.4	1.60	24.8	52.9	49.7	55.9	1.70	28.8	53.3	47.1	56.4	1.70	27.3
		2.2	5.1	70	63.9	42.7	56.7	1.50	28.6	62.5	52.6	58.2	1.60	33.2	62.9	49.9	58.7	1.60	31.5
		2.8	6.5	80	72.3	53.7	71.1	1.90	28.7	70.5	66.2	73.0	2.00	33.3	71.0	62.8	73.6	2.00	31.6
		2.4	5.5	90	83.0	49.2	64.7	1.60	30.0	81.3	60.6	66.5	1.70	34.8	81.8	57.5	67.0	1.70	33.0
70	9	0.9	2.1	50	41.5	38.2	48.6	2.20	17.6	39.6	47.0	49.9	2.30	20.4	40.1	44.6	50.3	2.30	19.4
		0.9	2.1	60	50.3	43.6	54.7	2.20	20.0	48.0	53.8	56.2	2.30	23.2	48.7	51.0	56.7	2.30	22.0
		0.9	2.1	70	59.7	46.2	57.0	2.00	23.1	57.3	57.0	58.5	2.10	26.8	58.0	54.0	59.0	2.10	25.4
		1.1	2.5	80	67.1	58.1	71.4	2.50	23.1	64.1	71.6	73.4	2.70	26.9	64.9	68.0	74.0	2.70	25.5
		0.9	2.1	90	78.2	53.2	65.0	2.20	24.2	75.4	65.6	66.8	2.30	28.1	76.2	62.2	67.3	2.30	26.6
	12	1.9	4.4	50	43.6	38.3	48.1	2.00	18.8	42.1	47.2	49.4	2.20	21.8	42.6	44.7	49.8	2.20	20.7
		1.9	4.4	60	52.7	43.7	54.2	2.00	21.3	51.0	53.9	55.7	2.20	24.8	51.5	51.1	56.1	2.20	23.5
		1.7	3.9	70	62.3	46.3	56.4	1.90	24.6	60.5	57.1	58.0	2.00	28.6	61.0	54.2	58.4	2.00	27.1
		2.1	4.9	80	70.3	58.3	70.8	2.40	24.7	68.0	71.8	72.7	2.50	28.7	68.7	68.1	73.3	2.50	27.2
		1.9	4.4	90	81.1	53.4	64.4	2.10	25.8	79.0	65.8	66.2	2.20	30.0	79.6	62.4	66.7	2.20	28.4
	14	2.4	5.5	50	44.6	38.1	48.1	2.00	18.6	43.3	46.9	49.4	2.20	21.6	43.6	44.5	49.8	2.20	20.5
		2.4	5.5	60	53.8	43.5	54.1	2.10	21.1	52.3	53.6	55.6	2.20	24.5	52.7	50.9	56.1	2.20	23.3
		2.2	5.1	70	63.4	46.1	56.4	1.90	24.4	61.9	56.8	57.9	2.00	28.3	62.3	53.9	58.4	2.00	26.8
		2.8	6.5	80	71.7	58.0	70.7	2.40	24.5	69.8	71.4	72.6	2.50	28.4	70.3	67.8	73.2	2.50	26.9
		2.4	5.5	90	82.4	53.1	64.4	2.10	25.6	80.7	65.4	66.1	2.20	29.7	81.1	62.1	66.7	2.20	28.1
90	9	0.9	2.1	50	42.1	35.7	47.2	2.70	13.1	40.2	44.1	48.5	2.90	15.2	40.7	41.8	48.9	2.90	14.4
		0.9	2.1	60	50.9	40.9	53.2	2.80	14.8	48.8	50.4	54.6	2.90	17.2	49.4	47.8	55.1	2.90	16.3
		0.8	1.8	70	60.4	43.3	55.4	2.50	17.1	58.1	53.4	56.9	2.70	19.9	58.8	50.6	57.3	2.70	18.8
		1.0	2.3	80	67.9	54.5	69.4	3.20	17.2	65.1	67.1	71.3	3.40	19.9	65.8	63.7	71.9	3.40	18.9
		0.9	2.1	90	78.9	49.9	63.2	2.80	18.0	76.3	61.5	64.9	2.90	20.8	77.0	58.3	65.5	3.00	19.7
	12	1.8	4.2	50	44.0	35.8	46.8	2.60	14.0	42.6	44.2	48.0	2.70	16.2	42.0	47.9	54.5	2.70	17.4
		1.8	4.2	60	53.2	41.0	52.7	2.60	15.8	51.6	50.5	54.1	2.70	18.4	51.5	50.8	56.8	2.50	20.1
		1.6	3.7	70	62.8	43.4	54.8	2.40	18.3	61.1	53.5	56.3	2.50	21.2	59.4	63.8	71.2	3.20	20.2
		2.0	4.6	80	70.9	54.6	68.8	3.00	18.3	68.8	67.3	70.6	3.20	21.3	70.3	58.5	64.8	2.80	21.1
		1.8	4.2	90	81.7	50.0	62.6	2.60	19.2	79.7	61.6	64.3	2.80	22.3	84.1	35.7	46.7	2.60	13.8
	14	2.3	5.3	50	44.9	35.7	46.7	2.60	13.8	43.7	43.9	48.0	2.70	16.0	44.0	41.7	48.4	2.70	15.2
		2.3	5.3	60	54.2	40.8	52.6	2.60	15.7	52.8	50.2	54.1	2.80	18.2	53.2	47.7	54.5	2.80	17.3
		2.1	4.9	70	63.8	43.2	54.8	2.40	18.1	62.4	53.2	56.3	2.50	21.0	62.8	50.5	56.8	2.50	19.9
		2.7	6.2	80	72.2	54.3	68.7	3.00	18.2	70.4	66.9	70.6	3.20	21.1	70.9	63.5	71.2	3.20	20.0
		2.3	5.3	90	82.9	49.7	62.5	2.60	19.0	81.2	61.3	64.3	2.80	22.0	81.7	58.1	64.8	2.80	20.9
110	9	0.9	2.1	50	42.8	32.2	45.4	3.40	9.4	41.2	39.7	46.6	3.60	11.0	41.6	37.6	47.0	3.60	10.4
		0.9	2.1	60	51.8	36.8	51.1	3.40	10.7	49.9	45.4	52.5	3.60	12.5	50.4	43.0	52.9	3.60	11.8
		0.8	1.8	70	61.3	39.0	53.2	3.10	12.4	59.3	48.1	54.6	3.30	14.4	59.9	45.6	55.1	3.30	13.6
		1.0	2.3	80	69.1	49.0	66.7	3.90	12.4	66.6	60.4	68.5	4.20	14.4	67.3	57.3	69.1	4.20	13.7
		0.9	2.1	90	80.0	44.9	60.7	3.50	13.0	77.7	55.3	62.4	3.70	15.1	78.3	52.5	62.9	3.70	14.3
	12	1.7	3.9	50	44.6	32.3	44.9	3.20	10.1	43.4	39.8	46.2	3.40	11.7	43.7	37.7	46.5	3.40	11.1
		1.7	3.9	60	53.9	36.9	50.6	3.20	11.5	52.4	45.5	52.0	3.40	13.3	52.8	43.1	52.4	3.40	12.6
		1.6	3.7	70	63.5	39.1	52.7	3.00	13.2	62.0	48.2	54.1	3.10	15.4	62.4	45.7	54.6	3.10	14.6
		2.0	4.6	80	71.8	49.2	66.1	3.70	13.3	69.9	60.6	67.9	3.90	15.4	70.4	57.5	68.4	3.90	14.6
		1.7	3.9	90	82.5	45.0	60.1	3.20	13.9	80.8	55.5	61.8	3.40	16.1	81.2	52.6	62.3	3.50	15.3
	14	2.2	5.1	50	45.4	32.1	44.9	3.20	10.0	44.3	39.6	46.1	3.40	11.6	44.6	37.5	46.5	3.40	11.0
		2.2	5.1	60	54.8	36.7	50.5	3.20	11.3	53.5	45.2	51.9	3.40	13.2	53.9	42.9	52.4	3.40	12.5
		2.0	4.6	70	64.4	38.9	52.6	3.00	13.1	63.2	47.9	54.1	3.20	15.2	63.5	45.5	54.5	3.20	14.4
		2.6	6.0	80	73.0	48.9	66.0	3.70	13.1	71.4	60.3	67.8	4.00	15.3	71.8	57.2	68.4	4.00	14.5
		2.2	5.1	90	83.6	44.8	60.1	3.30	13.7	82.1	55.2	61.7	3.50	15.9	82.5	52.4	62.2	3.50	15.1

WV060 - Cooling Part Load - Extended Data Tables

SOURCE				WV060, LOAD SIDE, COOLING MODE, PART LOAD (1750 RPM COMPRESSOR SPEED)															
EST	Source Flow		ELT	Load Flow 5.5 GPM					Load Flow 6.5 GPM					Load Flow 7.5 GPM					
	GPM	Source Flow WPD		LLT	TC	HR	kW	EER	LLT	TC	HR	kW	EER	LLT	TC	HR	kW	EER	
°F		PSI	FT	°F	MBtuh	MBtuh		Btuh/W	°F	MBtuh	MBtuh		Btuh/W	°F	MBtuh	MBtuh		Btuh/W	
40	5.5	0.5	1.2	50															
		0.5	1.2	60	52.0	22.1	28.0	0.80	29.1	49.7	28.4	28.2	0.70	38.6	49.2	29.8	28.7	0.70	40.1
		0.5	1.2	70	60.8	25.3	31.5	0.70	34.4	58.1	32.6	31.8	0.70	45.6	57.6	34.2	32.3	0.70	47.3
		0.5	1.2	80	69.2	29.6	36.2	0.70	41.1	66.1	38.1	36.6	0.70	54.5	65.5	40.0	37.2	0.70	56.5
		0.5	1.2	90	77.6	34.2	41.2	0.70	49.2	74.0	44.0	41.6	0.70	65.2	73.2	46.2	42.2	0.70	67.6
	5.5	0.3	0.7	50	42.9	19.6	24.7	0.70	28.0	40.8	25.2	24.9	0.70	37.0	40.4	26.4	25.3	0.70	38.4
		0.3	0.7	60	51.8	22.5	27.8	0.70	33.0	49.5	28.9	28.1	0.70	43.7	48.9	30.4	28.5	0.70	45.3
		0.3	0.7	70	60.4	26.3	32.0	0.70	39.4	57.7	33.8	32.3	0.60	52.2	57.1	35.5	32.8	0.70	54.2
		0.3	0.7	80	69.0	30.3	36.4	0.60	47.2	65.8	39.1	36.7	0.60	62.5	65.1	41.0	37.3	0.60	64.9
		0.3	0.7	90	77.8	33.5	39.2	0.60	56.8	74.3	43.1	39.6	0.60	75.2	73.6	45.2	40.3	0.60	78.1
	6.5	0.5	1.2	50	44.0	19.6	24.7	0.70	28.6	42.2	25.2	24.9	0.70	37.9	41.9	26.4	25.3	0.70	39.3
		0.5	1.2	60	53.1	22.5	27.8	0.70	33.7	51.1	28.9	28.1	0.60	44.7	50.6	30.4	28.5	0.70	46.4
		0.5	1.2	70	61.9	26.3	32.0	0.70	40.3	59.6	33.8	32.3	0.60	53.5	59.1	35.5	32.8	0.60	55.5
		0.5	1.2	80	70.7	30.3	36.4	0.60	48.3	68.0	39.1	36.7	0.60	63.9	67.4	41.0	37.3	0.60	66.4
		0.4	0.9	90	79.7	33.5	39.2	0.60	58.2	76.7	43.1	39.6	0.60	77.1	76.1	45.2	40.2	0.60	80.0
	7.5	0.6	1.4	50	44.8	19.5	24.7	0.70	28.9	43.3	25.1	24.9	0.70	38.4	43.0	26.4	25.3	0.70	39.8
		0.6	1.4	60	54.0	22.4	27.8	0.70	34.1	52.3	28.8	28.1	0.60	45.2	51.9	30.3	28.6	0.60	46.9
		0.6	1.4	70	63.0	26.2	32.0	0.60	40.8	61.0	33.7	32.3	0.60	54.1	60.6	35.4	32.8	0.60	56.1
		0.6	1.4	80	71.9	30.2	36.4	0.60	48.8	69.6	38.9	36.7	0.60	64.7	69.1	40.8	37.3	0.60	67.2
		0.6	1.4	90	81.1	33.4	39.2	0.60	58.8	78.5	43.0	39.6	0.60	78.0	78.0	45.1	40.3	0.60	80.9
	5.5	0.3	0.7	50	43.2	18.8	24.5	1.00	18.2	41.2	24.2	24.7	1.00	24.2	40.8	25.3	25.1	1.00	25.1
		0.3	0.7	60	52.2	21.5	27.6	1.00	21.5	49.9	27.7	27.8	1.00	28.5	49.4	29.1	28.3	1.00	29.6
		0.3	0.7	70	60.8	25.2	31.7	1.00	25.7	58.2	32.4	32.0	1.00	34.1	57.6	34.0	32.5	1.00	35.4
		0.3	0.7	80	69.4	29.1	36.0	0.90	30.8	66.4	37.4	36.4	0.90	40.8	65.7	39.3	37.0	0.90	42.3
	6.5	0.3	0.7	90	78.3	32.1	38.9	0.90	37.1	75.0	41.3	39.2	0.80	49.2	74.3	43.3	39.9	0.90	51.0
		0.4	0.9	50	44.2	18.7	24.5	1.00	18.7	42.6	24.1	24.7	1.00	24.8	42.2	25.3	25.1	1.00	25.7
		0.4	0.9	60	53.4	21.5	27.6	1.00	22.0	51.5	27.7	27.8	0.90	29.2	51.0	29.1	28.3	1.00	30.3
		0.4	0.9	70	62.2	25.2	31.7	1.00	26.3	60.0	32.4	32.0	0.90	34.9	59.5	34.0	32.5	0.90	36.2
	7.5	0.4	0.9	80	71.0	29.1	36.0	0.90	31.5	68.5	37.4	36.4	0.90	41.8	67.9	39.3	37.0	0.90	43.3
		0.4	0.9	90	80.1	32.1	38.9	0.80	38.0	77.3	41.3	39.2	0.80	50.3	76.7	43.3	39.9	0.80	52.2
		0.6	1.4	50	45.0	18.7	24.5	1.00	18.9	43.6	24.1	24.7	1.00	25.0	43.3	25.3	25.1	1.00	26.0
		0.6	1.4	60	54.3	21.5	27.6	1.00	22.3	52.6	27.6	27.8	0.90	29.5	52.3	29.0	28.3	0.90	30.6
	7.5	0.6	1.4	70	63.3	25.1	31.7	0.90	26.6	61.4	32.3	32.0	0.90	35.3	61.0	33.9	32.6	0.90	36.6
		0.6	1.4	80	72.3	29.0	36.1	0.90	31.9	70.1	37.3	36.4	0.90	42.2	69.6	39.1	37.0	0.90	43.8
		0.6	1.4	90	81.5	32.0	38.9	0.80	38.4	79.0	41.2	39.3	0.80	50.9	78.5	43.2	39.9	0.80	52.8
	5.5	0.3	0.7	50	42.8	19.7	26.9	1.50	13.1	40.8	25.3	27.1	1.50	17.4	40.3	26.6	27.6	1.50	18.0
		0.3	0.7	60	51.8	22.6	30.3	1.50	15.5	49.4	29.1	30.6	1.40	20.5	48.9	30.5	31.1	1.40	21.3
		0.3	0.7	70	60.4	26.4	34.9	1.40	18.5	57.6	34.0	35.2	1.40	24.5	57.1	35.6	35.8	1.40	25.4
		0.3	0.7	80	68.9	30.5	39.6	1.40	22.1	65.7	39.2	40.0	1.30	29.3	65.0	41.2	40.6	1.40	30.4
	6.5	0.3	0.7	90	77.8	33.6	42.7	1.30	26.7	74.3	43.3	43.1	1.20	35.4	73.5	45.4	43.8	1.20	36.7
		0.4	0.9	50	43.9	19.7	26.9	1.50	13.4	42.2	25.3	27.1	1.40	17.8	41.8	26.6	27.6	1.40	18.5
		0.4	0.9	60	53.0	22.6	30.3	1.40	15.8	51.0	29.1	30.6	1.40	21.0	50.6	30.5	31.1	1.40	21.8
		0.4	0.9	70	61.9	26.4	34.8	1.40	18.9	59.5	34.0	35.2	1.40	25.1	59.0	35.6	35.8	1.40	26.0
	7.5	0.4	0.9	80	70.6	30.5	39.6	1.30	22.7	67.9	39.2	40.0	1.30	30.0	67.3	41.2	40.6	1.30	31.2
		0.4	0.9	90	79.7	33.6	42.7	1.20	27.3	76.7	43.3	43.1	1.20	36.2	76.0	45.4	43.8	1.20	37.6
		0.5	1.2	50	44.8	19.6	26.9	1.40	13.6	43.3	25.2	27.2	1.40	18.0	42.9	26.5	27.6	1.40	18.7
		0.5	1.2	60	54.0	22.5	30.3	1.40	16.0	52.3	29.0	30.6	1.40	21.2	51.9	30.4	31.1	1.40	22.0
	7.5	0.5	1.2	70	63.0	26.3	34.9	1.40	19.2	61.0	33.9	35.2	1.30	25.4	60.5	35.5	35.8	1.30	26.4
		0.5	1.2	80	71.9	30.4	39.6	1.30	22.9	69.6	39.1	40.0	1.30	30.4	69.1	41.0	40.7	1.30	31.5
		0.5	1.2	90	81.1	33.5	42.7	1.20	27.6	78.5	43.2	43.1	1.20	36.6	77.9	45.3	43.9	1.20	38.0
	5.5	0.2	0.5	50	36.3	37.7	52.4	3.10	12.1	32.3	48.6	52.9	3.00	16.0	31.5	51.0	53.8	3.10	16.6
		0.2	0.5	60	44.3	43.3	59.1	3.00	14.2	39.7	55.8	59.6	3.00	18.8	38.7	58.5	60.6	3.00	19.5
		0.2	0.5	70	51.6	50.6	68.0	3.00	17.0	46.3	65.2	68.6	2.90	22.5	45.1	68.4	69.7	2.90	23.4
		0.2	0.5	80	58.7	58.5	77.2	2.90	20.3	52.6	75.3	77.9	2.80	26.9	51.3	79.0	79.2	2.80	28.0
	6.5	0.2	0.5	90	66.5	64.5	83.3	2.60	24.5	59.8	83.1	84.1	2.60	32.5	58.3	87.2	85.5	2.60	33.7
		0.3	0.7	50	38.4	37.7	52.4	3.10	12.3	35.0	48.6	52.9	3.00	16.4	34.3	51.0	53.8	3.00	17.0
		0.3	0.7	60	46.7	43.3	59.1	3.00	14.6	42.8	55.8	59.6	2.90	19.3	42.0	58.5	60.6	2.90	20.0
		0.3	0.7	70	54.4	50.6	67.9	2.90	17.4	49.9	65.2	68.6	2.80	23.1	49.0	68.4	69.7	2.90	23.9
	7.5	0.3	0.7	80	62.0	58.5	77.2	2.80	20.8	56.8	75.3	77.9	2.70	27.6	55.7	79.0	79.2	2.80	28.6
		0.3	0.7	90	70.2	64.5	83.3	2.60	25.1	64.4	83.1	84.1	2.50	33.2	63.2	87.1	85.5	2.50	34.5
		0.4	0.9	50	40.0	37.6	52.5	3.00	12.5	37.1	48.4	52.9	2.90	16.5	36.5	50.8	53.8	3.00	17.2
		0.4	0.9	60	48.5	43.2	59.1	2.90	14.7	45.2	55.6	59.7	2.90	19.5	44.5	58.3	60.6	2.90	20.2
	7.5	0.4	0.9	70	56.5	50.5	68.0	2.90	17.6	52.7	65.0	68.6	2.80	23.3	51.8	68.2	69.7	2.80	24.2
		0.4	0.9	80	64.5	58.3	77.2	2.80	21.1	60.0	75.1	78.0	2.70	27.9	59.0	78.7	79.3	2.70	28.9
		0.4	0.9	90	72.9	64.3	83.3	2.50	25.4	67.9	82.8	84.1	2.50	33.6	66.8	86.9	85.5	2.50	34.9



enertechusa.com



Revision Table

Date	Description of Revision	Page
15SEP2026	WV Submittal document created	All

Enertech Global is continually working to improve its products. As a result, the price, design and specifications of each product may change without notice and may not be as described herein. For the most up-to-date information, please visit our website, or contact our Customer Service department at info@enertechgeo.com. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely Enertech Global's opinion or commendation of its products.