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Droplet2 Extension Package

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- Brazed plate heat exchanger, single wall Circulator pump (select Option) Mechanical Room Controller
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- (4) Storage tank temperature sensors PLC to communicate storage tank conditions with Droplet

Required Field Wiring

- Storage Tank temperature sensor in Tank thermowell (min. one landed)
  Start/Stop signal from Mech. Room Controller to Circulator Pump
  Temperature probe from pump to return pipe thermowell
  Allows pump to adjust speed to maintain 140°F to Storage Tank
  Ethernet connection from Mech. Room Controller to remote Droplet2
  Mech. Room Controller whip plugged into standard 110VAC wall outlet
  Optional: Temp. probe from Mech. Room Controller to return pipe thermowell
  Can be used to remotely monitor system performance •

3

## Heat Exchanger Performance

Heat Load		30,800 Btu/hr	9 kW
High-Lift Conditions	Temperature, Domestic Water (DW) IN	45°F	7.2°C
	Temperature, DW OUT	140°F	60°C
	Temperature, Heat Pump (HP) OUT	145°F	62.8°C
	Temperature, HP RETURN	53.4°F	11.9°C
	Flow, DW	0.65 US gpm	2.46 l/min
	Δρ	0.17 ft	0.05 m
End-of-run (EOR) Conditions	Temperature, Domestic Water (DW) IN	115°F	46.1°C
	Temperature, DW OUT	140°F	60°C
	Temperature, Heat Pump (HP) OUT	145°F	62.8°C
	Temperature, HP Return	116.5°F	46.9°C
	Flow, DW	2.5 US gpm	9.5 l/min
	Δρ	1.77 ft	0.54 m

## **Booster Pump Performance**

Option 1	Max. Available Head*	17.9 ft	5.5 m
Opion	Min. System Head Loss Required**	3.1 ft @ 0.65 gpm	0.95m @ 2.46 l/min
Option 2	Max. Available Head*	31.0 ft	9.5 m
	Min. System Head Loss Required**	3.1 ft @ 0.65 gpm	0.95m @ 2.46 l/min
Option 3	Max. Available Head*	37.6 ft	11.5 m
Ophon 5	Min. System Head Loss Required**	3.1 ft @ 0.65 gpm	0.95m @ 2.46 l/min
Option 4	Max. Available Head*	57.3 ft	17.5 m
Ophon 4	Min. System Head Loss Required**	3.1 ft @ 0.65 gpm 0.95	0.95m @ 2.46 l/min

\*Max. Pump Head - Δp (HX) at EOR Flow
 \*\*System pressure drop at high-lift flow conditions to acheive stable deliver temperature at pump min. speed

NOTES:

Booster pump varies spe constant temperature ( tank).

Pump requires pipe there temp. sensor; start/stop Droplet controller. See P

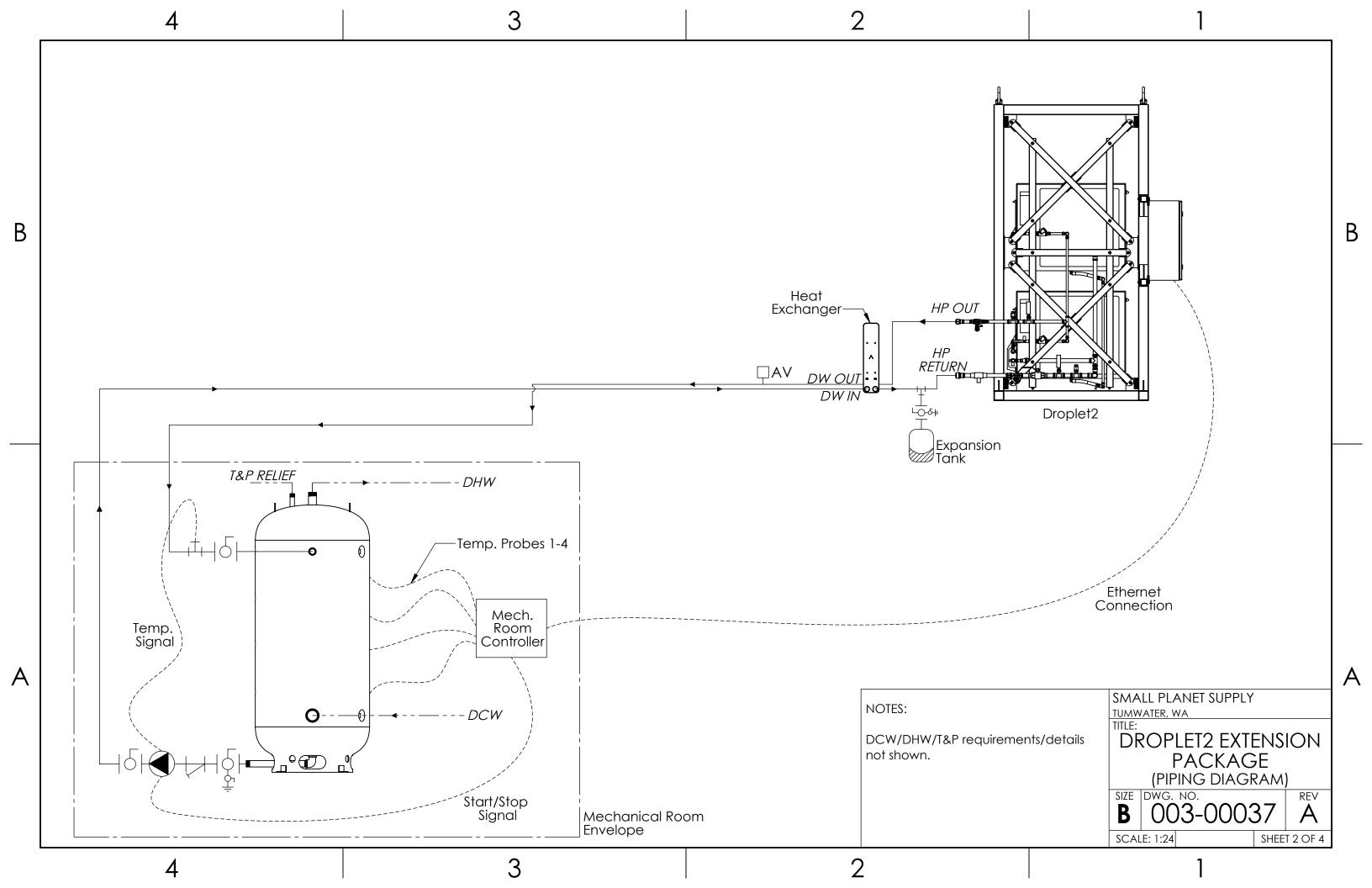
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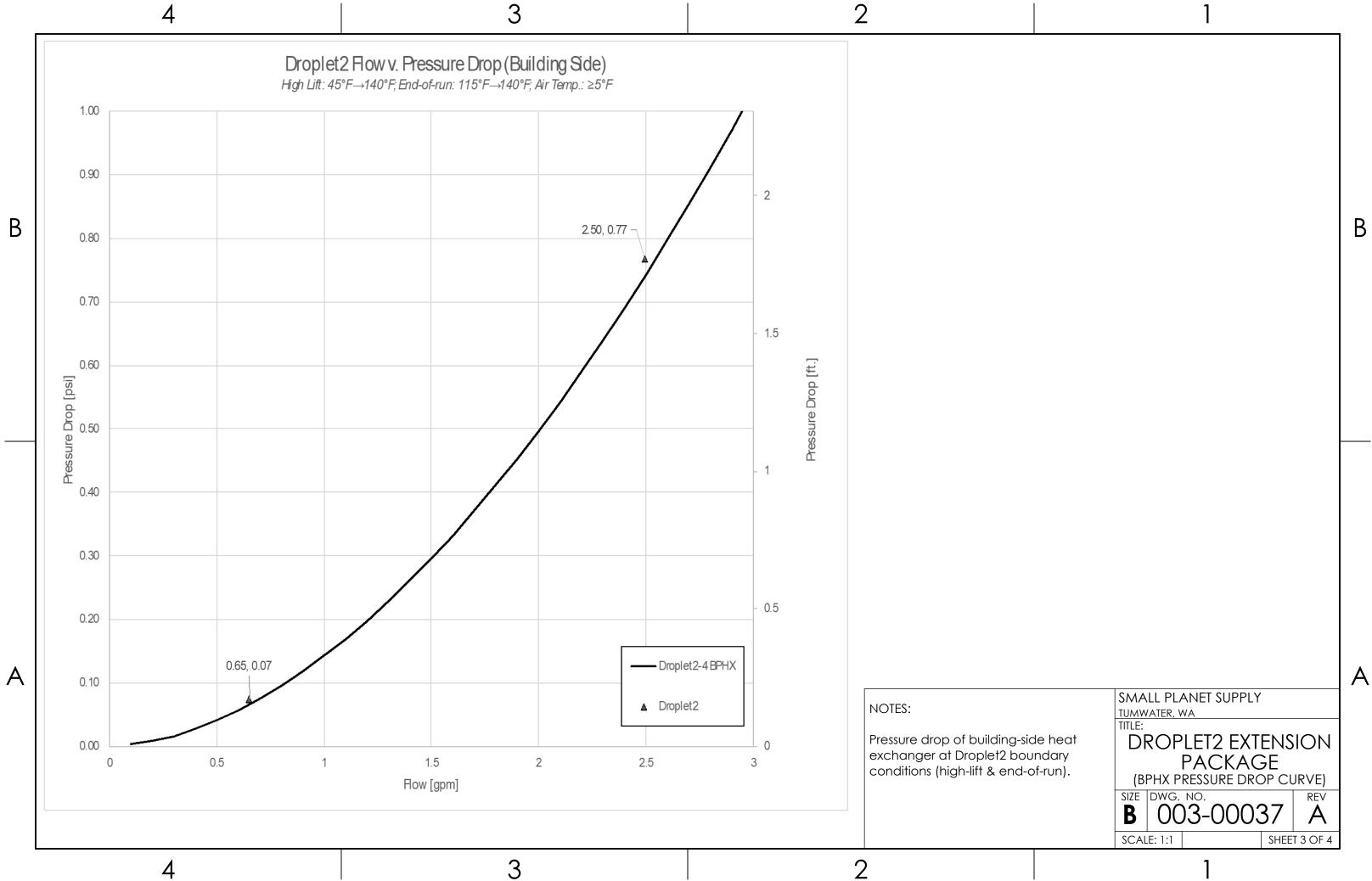
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	SMALL PLA	NET SUPPLY			
	TUMWATER, WA				
	TITLE:				
ed based on	DROPLET2 EXTENSION				
140°F at storage	PACKAG	ЭE			
mowell/remote	(TECHNICAL DATASHEET)				
signal from	SIZE DWG.		_	REV	
<i>g.2</i> for detail.	<b>B</b>   00	3-0003	3/	Α	
	SCALE: 1:1		SHEE	T 1 OF 4	
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