



## CENTRAL SERVICE UNIT 20 (CSU 20)

The CSU was designed to provide power generation, water filtration, communications and monitoring/ Security capabilities **Humanity Thru Housing** is developing a network of **Living Hubs** designed to provide stable, resilient, and self-sustaining communities for displaced individuals and families. Our approach goes far beyond traditional shelter models. It is a fully integrated **operating ecosystem**, engineered with modular design principles, systems-level thinking, and long-range maintenance planning.

The CSU is foundation for the Living Hubs —balancing energy loads, optimizing water systems, and supporting community life through infrastructure that is both durable and adaptable.

### Core Components of a Standard Living Hub Include:

- **Central Service Unit (CSU)** providing: An Engineered Environment
  - Power generation for the entire complex
  - Water filtration
  - Black-water collection and treatment
  - Internet service
  - Water distribution
  - Security

These hubs are designed for self-sustainability, workforce development, and community stabilization—ultimately creating pathways from crisis to independence.



## **SPECIFICATIONS:**

### **Power:**

- 1. 10 kw solar panels**
- 2. 10 kw battery storage**
- 3. 12kw Diesel power generator**

### **Water:**

- 1. 3000 gal double lined freshwater bladder**
- 2. 3000 gal double lined potable water bladder (irrigation and cleaning).**

### **Waste water management:**

- 1. 5,000 gal double lined black water containment system**
- 2. 5,000 gal double lined grey water containment system**
- 3. Parker Hanifan desalination and grey water purifier.**

**Internet Service: High speed Broad band with tv provider.**

**Security: Security Camera surveillance and entrance system.**



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Living Hub





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10 Kw power system

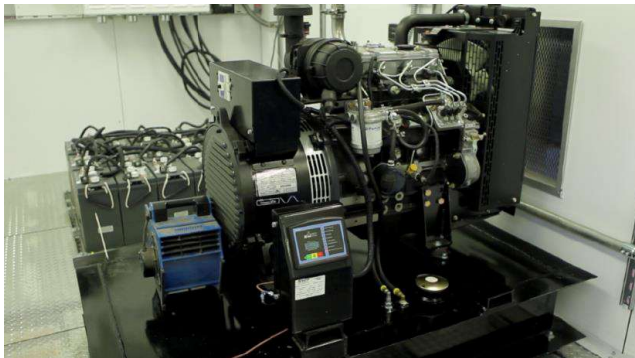
INVERT POWER GENERATION SYSTEM



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Grey Water filtration system



12 kw Perkins Diesel Generator





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### Central Service Unit - 20 (CSU-20)

WALL PANELS	DESCRIPTION	QTY	UOM	Cost/Piece	Price as shown	# of Units Purchased
						1
<b>WALL PANELS</b>						
W4390-2	Wall Panel 43"X90"X2"	11	each	\$ 335.00	\$ 3,685.00	\$ 3,685.00
W2490-2	Wall Panel 24"X90"X2"	1	each	\$ 245.00	\$ 245.00	\$ 245.00
W8690-2wg	Wall Grate Panel 86"X90"	3	each	\$ 439.00	\$ 1,317.00	\$ 1,317.00
						\$ -
<b>DOOR PANEL</b>						
W8690-2-7280	Double Doors 36" X 80"	1	each	\$789.00	\$ 789.00	\$ 789.00
W4390-2-3680	Single Door 36"X80"	1	each	\$589.00		
<b>ROOF PANEL</b>						
R4390-2	Roof Panel 43"X90"X2"	3	each	\$ 365.00	\$ 1,095.00	\$ 1,095.00
R4590-2	Roof Panel 45"X90"X2"	2	each	\$ 385.00	\$ 770.00	\$ 770.00
<b>CORNER CONNECTS</b>						
CR-90-2	Corner Connect 90"	6	each	\$ 64.00	\$ 384.00	\$ 384.00
<b>RIDGE BEAM</b>						
RB90		4	each	\$ 196.00	\$ 784.00	\$ 784.00
<b>Floor Panels</b>						
F4390-4		4	each	\$ 419.00	\$ 1,676.00	\$ 1,676.00
F4590-4		2	each	\$ 449.00	\$ 898.00	\$ 898.00
<b>Solar Panel Deployment System</b>						
8X18-Rack System		3	each	\$ 640.00	\$ 1,920.00	\$ 1,920.00
Rack Deployment System		1	each	\$ 3,445.00	\$ 3,445.00	\$ 3,445.00
<b>Trailer</b>						
ALTrailer90219	Aluminum Trailer 90"X219"	1	each	\$ 4,395.00	\$ 4,395.00	\$ 4,395.00
<b>Power System</b>						
Inverter System	Inverter System 35kW	1	each	\$16,890.00	\$16,890.00	\$16,890.00
Battery System	8- 12-volt AgM Batteries	1	each	\$ 4,750.00	\$ 4,750.00	\$ 4,750.00
Solar Panels	240W Solar World Panels	18	each	\$ 446.40	\$ 8,035.20	\$ 8,035.20
GenSet	22kW Generators	2	each	\$13,649.00	\$27,298.00	\$27,298.00
<b>Monitoring &amp; Communication System</b>						
Computer		1	each	\$ 1,200.00	\$ 1,200.00	\$ 1,200.00
Rack System		1	each	\$ 394.00	\$ 394.00	\$ 394.00
						\$ 79,970.20
						\$ 79,970.20