

800 S. Raymond Ave., Fullerton, CA 92831		Tel 714-578-6000	* Fax 714-578-6020
Your Order Management Team			Your Request ID
Order Manager	Partner	Customer Service	
Monica Perez 714-578-6123 Monica@TerraUniversal.com Fax: 714-578-1173	Brenda Nicols 714-578-6115 Brenda@TerraUniversal.com Fax: 714-578-3115	Customer Service Team 714-578-6059 Info@TerraUniversal.com Fax: 714-578-3116	
Local Sales & Support Representative			Estimated Lead Time
TUI Direct Support			1 - week
			Payment Terms
			50% Down/Net 15 Days OAC
			Trans ID
			TUI Ref #
			130285

Requested By:	End User:	Invoice To	Client #	5236
Michael Hedges University of Hawaii 2680 Woodlawn Dr., Institute For Astronomy Honolulu, HI 96822 Work: 808-856-2962 Email: mhedges@hawaii.edu	Michael Hedges University of Hawaii 2680 Woodlawn Dr., Institute For Astronomy Honolulu, HI 96822 Work: 808-856-2962 Email: mhedges@hawaii.edu	Accounting Department University of Hawaii 2680 Woodlawn Dr. Institute For Astronomy Honolulu, HI 96822		
		Tel: 808-956-8231	Fax: 808-956-4532	

Ship To (See Term 2)	Shipping Term (See Term 4)	Quote Summary
UNIVERSITY OF HAWAII 2680 WOODLAWN DR INST OF ASTRONOMY GREG CHING Honolulu, HI 96822 ATTN:	F.O.B. Destination Freight & Handling: Prepay & Add Partial Ship OK? No Shipped Via: Unspecified Surface	Products & Services List \$5,227.00
Voltage	120	Products & Services Total* \$5,227.00
	Ship Acct #	* Sales tax, shipping and handling charges, if applicable, will be added. A late charge will apply if paid late (see Term #1)
	Tracking #	Projected Sales Tax Status:

Critical Notes	(Out of State)
Products built or bought for you, especially "custom" items marked with *, are not returnable. ALL shipping and lead time estimates are only estimates and are NOT guaranteed (see Term 3). LOADING DOCK/LIFTGATE IS REQUIRED TO RECEIVE THE ORDER	(Please advise if status is not accurate)
	Pay to Terra Universal, Inc. 800 S. Raymond Ave., Fullerton, CA 92831 Tel 714-578-6000 Fax 714-578-6020

Tracking	After your order is placed, Terra's Real Time Order Status System presents daily progress reports directly on www.TerraUniversal.com. This service is available ONLY from Terra.
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Terms of Sale:
Terra does not guarantee the suitability of Terra supplied equipment for your specific application, only that it will perform to the specifications documented above, NOT including oral instructions or other requirements not listed. Terra accepted and produced this order subject to Terra's acceptance of customer-approved drawings, receipt of initial payments and export license, credit approval and to the terms and conditions shown on TerraUniversal.com. Terra's terms and conditions supersede any conflicting terms in your PO or RFP/RFQ. Any terms on your PO that conflict with Terra's terms are NOT accepted unless authorized IN WRITING by an authorized Terra employee and documented by returning a signed copy of your PO. Summarized, Terra's terms are: 1. Payment terms are as given above. A Late Charge is invoiced on product and service invoices unpaid 15 days after their due dates. The late charge must be paid to retain open account status. The Late Charge is 10% of the products and services invoiced or the discount granted, if any, on these items, whichever is greater. Invoice due date is based on date shipped. 2. This order has been accepted with the understanding that the "Ship To" addressee and location provided are the final destination of these products for purposes of Department of Commerce regulations and that you will notify Terra if these change. If an export license is required, a processing charge of \$500 must be paid before the application is submitted. Export licenses require undeterminable time for DOC processing. Terra does not accept orders requiring export licenses until the licenses are received. 3. All Estimated Ship Dates, including confirmed ESDs, are estimates, depend on workloads when the order is ready for manufacturing release and are NOT guaranteed. 4. Except when specified "FOB Destination" in Shipping Terms, above, orders accepted by Terra are FOB Ex-Works. FOB Ex-Works means that risk of loss passes to you when the goods are loaded on the truck and you must file claims for freight damage directly with the freight carrier. If you order freight charges "prepaid and add," freight cost plus a handling charge computed under Terra's standard policy is added to each shipment. These costs may be avoided by ordering "freight collect" and FOB Ex-Works. To reduce costs and speed delivery, it may be necessary to ship from different factories and in different shipments. These are not "partial shipments." 5. Orders accepted, released and processed by Terra cannot be cancelled or returned except on terms that compensate Terra for work performed and expenses incurred. Custom items, items not purchased from Terra, and items modified or damaged by improper use, repairs, application of labels or nameplates are not returnable. 6. All returns must be approved by Terra in writing in advance and may be assessed restock and handling charges. No returns will be accepted without an RMA. All items accepted by Terra must be in original condition and in original shipping containers and returned freight prepaid, FOB Terra. Terra may elect to issue return credits against future orders rather than cash refunds. 7. Terra's warranty is as shown on TerraUniversal.com. This order may not be assigned without Terra's written approval. 8. If Terra files any proceeding to enforce the terms of this order or to collect any amount due, you agree to pay all reasonable attorney's fees and costs.

Detailed List Of Products And Services, Specifications And Cost Follows

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			1 - week	

#	Product Number Product Name & Description	Qty Ord	Units	Of	Count	Unit	Unit Price	Custom Item	Extended
1	6600-66-VL	1	EA				\$5,227.00	No	\$5,227.00 T

Cleanroom, Softwall ValuLine, Modular Powder Coated Steel

- Size: 6'L x 6'W x 7'H
- Class: 100
- (Height is floor to filter face)
- COMPONENTS INCLUDED:
 - Steel frame – posts and beams of 2.5” (280 mm) square tubing, powder coated
 - Steel ceiling grid – joists and cross members 3” (76 mm) T-bars
 - Steel reinforcing gussets – two on each corner post
 - Pre-mounted GripTrack for curtain panels and strip shield doors
 - Crate, wood
 - All electrical components UL and UL-C listed
- ACCESSORIES INCLUDED:
 - Curtain Panels – 40 mil anti-static PVC, corner notched, precut, hangs from GripTrack
 - Strip Shield Door – up to 4’ 60 mm anti-static PVC, pre-cut, hangs from GripTrack
 - Fan Filter Units (FFUs) – HEPA filtered, 120 VAC, up to 808 CFM, as required to meet rating
 - Fluorescent Light Modules – 120 W, 3409 candlepower, 120-277 VAC, as required to meet rating
 - Power Supply Unit – Switched supply to six-receptacle unit, plus one non-switched user duplex GFI receptacle. 20W 120 VAC, as required to power FFUs and lights
 - Ceiling Panel -- 2' x 4', polypropylene, white, as required to complete ceiling grid
 - Ceiling Panel -- 2' x 2', polypropylene, white, as required to complete ceiling grid
 - Tool Kit – All tools necessary to assemble room
- o ADDITIONAL INFORMATION:
 - Room is sent disassembled with assembly instructions. Two assemblers make the process easier
 - FFUs and lights plug into ceiling-mounted outlets from the Power Supply Unit
 - Power Supply Units plug into standard US wall receptacles. Each PSU requires a separate, free 20 A circuit
 - Power Supply Unit Switch and non-switched GFI outlet mount on corner post
 - Strip door mounts at any corner
 - FFUs add 13” (330 mm) overhead to height. Additional 9” to 11” (230 - 280 mm) clearance is required for air flow and installation. Total clearance required above filter face is 22” to 24” (560 - 610 mm)
 - Heavy-duty casters may be ordered at additional cost (TUI 6704-08)
 - Room is shipped in large wood crate with casters that fits through 36" doorway for internal delivery.
 - Forklift, lift gates and pallet jacks may be required unload crate
 - Room may be customized at reasonable additional cost and lead-time
 - Since regulations vary considerably in different locations, Terra assumes no responsibility for meeting local building regulations, including fire and seismic codes.
 - Check your local planning department for regulations applying to your installation.

www.terrauniversal.com/6600-66-VL Catalog: Vol 10 #12, Page 17
 Size: 120" W x 35" D x 45" H (3048 x 889 x 1143 mm) Origin: USA
 Volts: 120 Amps: 18 Watts: 2160 Phase: 1 Freq: 50/60

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#	Product Number Product Name & Description	Qty Ord	Units	Of	Count	Unit	Unit Price	Custom Item	Extended
2	6601-24-H-VL Fan Filter Unit, HEPA, 120VAC/60Hz, 2' x 4' <ul style="list-style-type: none"> HEPA-filtered, 3-speed, self-powered fan-filter unit delivers air to room Plugs into Power Supply Unit (TUI 6600-20-VL) UL Listed <ul style="list-style-type: none"> COMPONENTS INCLUDED: FFU Power cable assembly <ul style="list-style-type: none"> SPECIFICATIONS (at 60 Hz) Removes 99.99% of particles 0.3 micron and larger Dimensions: 23.63" x 47.63" x 12.51" H (600 mm x 1210 mm x 318 mm) Power: 120VAC/60Hz Operating Ratings Airflow CFM (m³/hr) High - 808 (1372.8) Medium - 717 (1218.19) Low - 654 (1111.15) Air Speed FPM (m/s): High - 115 (0.58) Medium - 102 (0.52) Low - 93 (0.47) Amps (Watts): High - 4.3A (512W) Medium - 3.5A (416W) Low - 3.3A (393W) Average flowrate is measured 6" (152 mm) below filter face Sound level approx. 49 dBA, at flow of 90 FPM (0.46 m/s) <ul style="list-style-type: none"> ADDITIONAL INFORMATION: Power cable shipped unattached Housing: Steel, white powder coated Includes FDA-approved silicone sealant Replacement filter: 6601-25 (order separately) <ul style="list-style-type: none"> o Recommended use at medium speed o All filter sales are final; returns of this item cannot be accepted o When used in cleanrooms, FFUs add 13" (330 mm) overhead to height. Additional 9" to 11" (230 - 280 mm) clearance is required for air flow and installation. Total clearance required above filter face is 22" to 24" (560 - 610 mm) www.terrauniversal.com/6601-24-H-VL Catalog: internet, Page - Packaged Weight: 71 Lb (32.2 kg) Origin: USA Volts: 120 Amps: 4.3 Watts: 512 Phase: 1 Freq: 50/60	2	EA				\$0.00	No	\$0.00 T

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3	3800-80-VL Light Module Fluorescent ValuLine for Modular Cleanrooms <ul style="list-style-type: none"> Fluorescent 4-tube light, with white finished steel housing Plugs into Power Supply Unit (TUI 6600-20-VL) UL listed <ul style="list-style-type: none"> COMPONENTS INCLUDED: Light Power Cable, Light <ul style="list-style-type: none"> SPECIFICATIONS: Produces 3409 Candlepower Dimensions: 2' x 4' (610 mm x 1219 mm) Power: 120-277 VAC/50 or 60 Hz, heat load: 500 BTUH <ul style="list-style-type: none"> o ADDITIONAL INFORMATION: To calculate foot candles at a work surface, divide candlepower by the square of the distance between light and work surface measured in feet. <p>www.terrauniversal.com/3800-80-VL Packaged Weight: 20 Lb (9.1 kg) Size: 51" W x 27" D x 10" H (1295 x 686 x 254 mm) Origin: USA Volts: 120/277 Freq: 50/60</p>	1	EA				\$0.00	No	\$0.00 T
4	6600-20-VL Power Supply Unit, 120V, Cleanroom, Softwall, ValuLine <ul style="list-style-type: none"> Supplies power for up to 3 FFUs and 3 lights Plugs into standard US wall receptacle Requires a free 20A 120 VAC circuit <ul style="list-style-type: none"> COMPONENTS INCLUDED: Switch box to be mounted on post w/supplied mounting plate Switched 6-outlet 20 A power distribution box to be mounted on ceiling, switched and breaker protected GFI duplex convenience 5 A outlet, non-switched, mounted on post Electrical components UL and UL-C listed <ul style="list-style-type: none"> o ADDITIONAL INFORMATION: Shipped fully assembled White powder coated Liquid Tight conduit runs power cable up post to ceiling <p>Catalog: Mini 10, #8, Page 02 Volts: 120 Amps: 20 Watts: 2400 Phase: 1 Freq: 50/60</p>	1	EA				\$0.00	No	\$0.00 T

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5	1320-17-WallKit-VL Wall Kit, Softwall Cleanrooms, ValuLine, 7' <ul style="list-style-type: none"> Provides all wall panels and door strips to complete ValuLine softwall cleanroom Attached via snap-tight polypropylene GripTrack mounted on beams COMPONENTS INCLUDED: Curtain panels, pre-cut to fit cleanroom Strip shields to make 4' door Pre-cut to leave air out-flow opening of about 4" at bottom SPECIFICATIONS Panels – 40 mil thick, anti-static PVC w/6" overlap, up to 48" wide, sized as required to fit room Strip Shields – 60 mil thick, anti-static PVC w/2" overlap, , 8" wide, 8 pieces o ADDITIONAL INFORMATION: Panels - lightly tinted, blur-free Strip Shields - lightly tinted www.terrauniversal.com/1320-17-WallKit-VL Packaged Weight: 50 Lb (22.7 kg) 	1	EA				\$0.00	No	\$0.00 T
6	6704-20 Ceiling Panel for Modular Cleanrooms; 2' x 4', Polypropylene <ul style="list-style-type: none"> Ceiling panel, 2' x 4' x .25", White COMPONENTS INCLUDED: Panel, polypropylene, white Sealing tape, white, pressure sensitive foam o ADDITIONAL INFORMATION: Fills unused ceiling grid bays www.terrauniversal.com/6704-20 Catalog: Vol 10 # 12, Page 22 Packaged Weight: 8 Lb (3.6 kg) Origin: USA 	1	EA				\$0.00	No	\$0.00 T

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7	6600-88-VL Tool Kit, Cleanroom, Softwall, ValuLine • All tools needed to assemble ValuLine softwall cleanroom • COMPONENTS INCLUDED: Assembly instructions: read or regret it! Variable speed drill w/tool bits, corded Measuring tape, English, 25' Mallet, non-marring rubber, 16 oz Screwdriver, w/bits Allen wrench Drill bit, 3/16" • Components vary depending on availability o ADDITIONAL INFORMATION Ladder, 6' (not included), required for assembly www.terrauniversal.com/6600-88-VL Packaged Weight: 8 Lb (3.6 kg) Size: 24" W x 24" D x 6" H (610 x 610 x 152 mm) Origin: USA Volts: 120 Amps: 3 Watts: 360 Phase: 1 Freq: 60	1	EA				\$0.00	No	\$0.00 T
8	6703-81 Ceiling Panel for Modular Cleanrooms; 2' x 2', Polypropylene • Ceiling panel, 2' x 2' x .25", White • COMPONENTS INCLUDED: Panel, polypropylene, white Sealing tape, white, pressure sensitive foam o ADDITIONAL INFORMATION: Fills unused ceiling grid bays www.terrauniversal.com/6703-81 Catalog: Internet Only Origin: USA	3	EA				\$0.00	No	\$0.00 T
9	6600-66-VL-9 Crating Charge • Crating service for ValuLine Softwall Cleanroom • COMPONENT INCLUDED Crate, wood, 30" wide by 48" high, length longest CR part + 1 foot o ADDITIONAL INFORMATION Fits through 36" doorway Freight dock and 2 pallet jacks or forklift required to unload Depending on size and configuration, more than one crate may be required Origin: USA	1	EA				\$0.00	No	\$0.00 T

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10	9998-FasTrak	0	EA				\$0.00	No	\$0.00
<p>FasTrak Services</p> <ul style="list-style-type: none"> • On a tight schedule? You may choose one of Terra's FasTrak Priority Services to help meet your critical schedule for Terra-manufactured products • FASTRAK ADVANTAGE works within Terra's existing production organization to meet the Estimated Ship Date, even if shop loads or other circumstances change by the time your order hits the shop floor. FasTrak Advantage assigns a FasTrak order expeditor to ensure production priority, streamlines internal purchase and overtime authorization, and logs progress to senior management status reports. FasTrak Advantage guarantees* to meet the agreed-to Estimated Ship Date (ESD). • FASTRAK 24/7 provides a higher level of service: a 24/7 commitment to meet the shipping date YOU specify, regardless of quoted lead times. FasTrak-24/7 assigns and a dedicated production team plus a dedicated senior expeditor working three shifts to meet your delivery specification. FasTrak 24/7 guarantees to meet the agreed-to specified ship date. • Call for pricing on the FasTrak program that meets your production schedule. (FasTrak service fees cover costs of additional services only, without additional profit.) <p>*Terra's FasTrak services limited guarantee are ship on the ESD or date specified or to refund 200% of FasTrak charges. This guarantee covers no direct, special, consequential or other damages and is strictly limited to 200% of the amount paid for FasTrak service.</p>									
11	9999-RTOSS	0	EA				\$0.00	No	\$0.00
<p>REAL-TIME ORDER STATUS SYSTEM</p> <ul style="list-style-type: none"> • You can track progress on all manufactured items on your orders on Terra's REAL-TIME ORDER STATUS SYSTEM (R-TOSS) • R-TOSS is located on TerraUniversal.com, click the button on the upper right-hand corner. • Progress is updated each day at 2:00 AM PST to show completion of each task on each item being manufactured. • R-TOSS displays are open to all Preferred Clients -- just enroll or log-in. • As items ship, R-TOSS also displays shipping data (date, shipper, tracking number) for all items. 									