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****CONFIDENTIAL****

LIST PRICES - EFFECTIVE September 15, 2010

**This price list is for the exclusive use of Vogt Distributors/Representatives.
 Not for publication or distribution.
 This price list replaces and renders void all preceding issues.**

Sales Support Manager	Sales Support Coordinator	Sales Engineer
John Whitmer	Maria Santos-Lopez	Ryan Jones
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VOGT TUBE ICE HES-SERIES, VT-SERIES, P-MID SIZE SERIES, SPACESAVERS.

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Engineered To Endure.



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Ordering Instructions

1. Complete the appropriate order entry sheet for the equipment to be ordered.
2. Complete the customer data sheet for the project.
3. Forward this information to the Sales Department:

Vogt Ice LLC Sales Department
Ph: 502-635-3000 Fax: 502-634-0479

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jwhitmer@vogtice.com

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Please Note:

1. All pricing subject to change without notice.
2. All equipment is shipped F.O.B. Louisville, KY
3. ELECTRICAL SPECIFICATIONS: Standard electrical voltages are 208-230 volt, 3 phase, 60 hertz. 50 Htz electrical operation is listed as an option in these price pages.
4. WATER: Water for condensing and for ice-making purposes shall be non-corrosive or so rendered. Vogt Ice does not assume any responsibility for the effects of corrosion or erosion.
5. REFRIGERANT: Vogt Ice assumes no responsibility for loss or replacement of refrigerant under any conditions after shipment.
6. NOMINAL ICE CAPACITY OF SELF-CONTAINED UNITS: Nominal Ice capacity of Vogt Icemakers is based on fresh water entering at the proper temperature, 90°F ambient air, and clean ice making surfaces.

CONSULT FACTORY FOR OTHER CONDITIONS OF OPERATION

TERMS AND CONDITIONS OF SALE

VI Acquisitions, LLC dba Tube Ice, LLC & Vogt Ice, LLC and VI Acquisitions TX, LTD dba Turbo Refrigeration, LTD (all being the "Company") agrees to sell the equipment and/or parts described in the invoice (the "Equipment") upon the following Terms and Conditions of Sale, which supersede any additional or inconsistent terms, all prior and contemporaneous agreements, representations, and understandings. The buyer ("Buyer") understands that the Company's acceptance of a purchase order is conditioned upon Buyer's acceptance of these Terms and Conditions and Buyer fully accepts the following Terms and Conditions.

1. TERMS AND PRICES

- (A) All orders are subject to the approval of the Company's home office. After approval by the Company's home office, the Company shall enter Buyer's order.
- (B) Unless stated otherwise by the Company, standard terms of payment are 30 days net from the earlier date of shipment or readiness of the Equipment for shipment. If partial shipments are made, full payment shall become due and payable from the date of the first shipment. If all charges due under these Terms and Conditions are not paid within the above specified time, Buyer shall also pay interest at a rate of 2% per month on the outstanding balance.
- (C) All international orders require a 20% cash down payment. Prior to shipment of international orders, Buyer must pay the remaining balance in full in immediately available funds.
- (D) In addition to the purchase price, Buyer shall pay any excise, sales, privilege, use, or any other taxes (local, state, or federal) that the Company may be required to pay and/or collect arising from the sale or delivery of the Equipment or the use thereof.
- (E) Prepaid freight, if applicable, will be added to the purchase price and invoiced separately. Where price includes transportation or other shipping charges, any increases in transportation or other shipping charges, including surcharges, shall be paid by Buyer.
- (F) Contract prices are subject to adjustment to the Company's prices in effect at time of shipment unless otherwise specified in a separate contract document of the Company. The Company has the right to pass through to Buyer any surcharges received from the Company's suppliers between order entry and time of shipment.
- (G) If Buyer requests changes in the Equipment or delays progress of the manufacture or shipment of the Equipment, the contract price shall be adjusted to reflect increases in selling price caused thereby. For any delays that exceed 60 days, interest will accrue at the rate of 2% per month on all charges due under these Terms and Conditions.
- (H) An order, once approved by the Company, may be terminated or cancelled by Buyer only by written notice and upon payment of reasonable charges, including all costs plus profit. Buyer may not terminate or cancel any order for breach by the Company unless Buyer has first notified the Company of the nature of the breach and provided the Company with a 60-day opportunity to cure the default or breach.
- (I) The Company shall have the right to cancel any order at any time by written notice if Buyer breaches any of the Terms and Conditions, becomes subject of any proceeding for the relief of debtors, otherwise becomes insolvent or bankrupt, generally does not pay its debts as they become due, or makes an assignment for the benefit of creditors.

2. EQUIPMENT CHANGES

The Company may, but shall not be obligated to, incorporate in the Equipment any changes in specifications, design, material, construction, arrangement, or components.

3. DELIVERY TO BUYER

- (A) The Company will endeavor to make shipments as scheduled. However, all shipment dates are approximate, and the Company reserves the right to adjust shipment schedules.
- (B) Under no circumstances will the Company be responsible or incur any liability for costs or damages of any nature arising out of any delays in delivery.
- (C) If shipment is delayed or suspended by Buyer, Buyer shall pay: (i) Company's invoice for the Equipment as per payment terms, (ii) Company's handling and storage charges then in effect, (iii) demurrage charges if loaded on rail cars, and (iv) any shipping expenses.

4. LOSS, DAMAGE, OR DELAY

The Company shall not be liable for loss, damage, or delay caused by labor difficulties, lockouts, acts or omissions of any governmental authority, insurrection or riot, war, fires, floods, acts of God, breakdown of essential machinery, shortage of power, accidents, priorities or embargoes, car and material shortages, delays in transportation or inability to obtain labor, materials, or parts from usual sources or any other act resulting from causes beyond the Company's reasonable control. In the event of any delay from such sources, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay. In the event performance of this agreement by the Company cannot be accomplished due to any of the above stated reasons, the Company, at its option, may cancel this agreement without liability.

5. SHIPMENT AND RISK OF LOSS

Shipment is F.O.B. Company's plant or place of manufacture. Risk of loss shall pass to Buyer upon delivery to transporting carrier at the Company's plant or place of manufacture.

6. LIMITED WARRANTY, EXCLUSIONS FROM WARRANTY, AND WARRANTY CLAIMS

Unless the Company, in writing, specifies otherwise:

- (A) The Company warrants that, at the time of shipment, the Equipment manufactured by it shall be free from defects in material and workmanship and shall possess the characteristics represented in writing by the Company. Any warranty given by the Company is conditioned upon the Equipment being properly installed and maintained and operated within the Equipment's capacity under normal load conditions with competent supervised operators, and, if the Equipment use(s) water, with proper water conditioning. Equipment, and accessories not manufactured by the Company are warranted only to the extent of manufacturer's warranty to the Company; in no event shall such other manufacturer's warranty create any more extensive warranty obligations of the Company to Buyer than the Company's warranty covering Equipment manufactured by the Company.
- (B) **Exclusions from Warranty.**
 - (i) The foregoing is in lieu of all other warranties. THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE CONTAINED IN THIS PARAGRAPH 6 AND THERE ARE NO IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. The provisions of Paragraphs 6 and 7 as to exclusion of warranties, duration of warranties, and limitation of liability shall be the same for all warranties.
 - (ii) The Company's Limited Warranty is solely as stated above in Subparagraph (A) and does not apply or extend, for example, to expendable items, ordinary wear and tear, Equipment moved from its original installation site, altered Equipment, Equipment repaired or installed by persons not expressly approved by the Company, materials not of the Company's manufacture, or damage caused by accident, the elements, abuse, misuse,

heat, overloading, erosive or corrosive substances, or the alien presence of oil, grease, scale, deposits, or other contaminants in the Equipment.

- (iii) The Company's guidelines and procedures for start-up of the Equipment must be followed in order for this Limited Warranty to apply. It is Buyer's responsibility to furnish all safety devices as may be desired and/or required by law and to ascertain that the Equipment is installed and operated in accordance with all requirements.

- (C) Buyer must make any claim of breach of warranty by written notice to the Company's home office within 30 days of the discovery of any defect. The Company agrees, at its option, to repair or replace, but not install, any parts of the Equipment that within 12 months from the date of initial operation, but no more than 18 months from date of shipment (including return to the Company's plant, transportation prepaid, for inspection, if required by the Company), prove to the Company's satisfaction to be defective within the above Limited Warranty. Any warranty adjustments made by the Company shall not extend the initial warranty period set forth above. The warranty period for replacements made by the Company shall terminate upon the termination of the initial warranty period set forth above. Failure to give notice within the stated time constitutes waiver by Buyer of all claims regarding that defect. Expenses incurred by Buyer in replacing, repairing, or returning the Equipment will not be reimbursed by the Company.

7. LIMITATION OF LIABILITY

The Limited Warranty in Paragraph 6 sets out Buyer's exclusive remedy and the extent of the Company's liability on any warranties, on any representations, on these Terms and Conditions, or on any other basis of a claim by Buyer against the Company. THE COMPANY SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES including without limitation damage for loss of business profits, business interruption or any other loss, damage, or expense, directly or indirectly arising from the use of, or inability to use, the Equipment or any other cause whether based on warranty, tort, or contract, regardless of any advice or recommendations that may have been rendered concerning the purchase, installation, or use of the Equipment. THE COMPANY'S LIABILITY TO BUYER SHALL NOT EXCEED THE AMOUNTS PAID BY BUYER TO THE COMPANY UNDER THIS AGREEMENT.

8. INDEMNIFICATION OF THE COMPANY FOR THIRD PARTY CLAIMS

Buyer agrees to indemnify and hold harmless the Company from all claims, liabilities, demands, liens, suits, damages, including consequential damages, expenses, and attorneys' fees and costs in any proceeding, suit, or action instituted by a third party arising out of or in connection with these Terms and Conditions or the transport, installation, use, or repair of the Equipment, unless damages were caused by the Company's gross negligence.

9. PATENTS

- (A) The Company agrees to defend and hold Buyer harmless in the event of any suits instituted against Buyer for an alleged infringement of any United States Patent covering solely to the structure of the Equipment as originally manufactured by the Company per the Company's specifications and without modification by Buyer, provided Buyer shall (i) have permitted the Company to defend or settle the suit and (ii) have given all needed information assistance and authority to enable the Company to do so. Buyer shall defend and indemnify the Company against all expenses, costs, and loss by reason of any real or alleged infringement by the Company's incorporating a design or modification required by Buyer.

- (B) In the event the Company elects to defend any such suit and the structure of the said Equipment is held to infringe any United States Patent and if Buyer's use thereof is enjoined, the Company shall, at its option (i) obtain for Buyer the right to continue using the Equipment, or (ii) supply non-infringing Equipment for installation by Buyer, or (iii) modify the Equipment so that it becomes non-infringing, or (iv) refund the then market value of the Equipment. The Company's total liability hereunder, however, is limited under the provisions of Paragraph 7.

10. DISPUTE RESOLUTION

- (A) Any dispute arising out of or relating to this agreement, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration Rules, and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Only one arbitrator, which the Company shall choose, shall be used to decide the outcome of the arbitration. Such arbitration shall be held in Jefferson County, Kentucky.

- (B) This agreement shall be enforced and construed in accordance with the laws of the Commonwealth of Kentucky without regard to its conflict of laws rules. The parties specifically disclaim the application of the 1980 United Nations Convention on Contracts for the International Sale of Goods if otherwise applicable.

- (C) Any proceeding, suit, or action ("Proceedings") arising out of or in connection with this agreement or any Proceedings with respect to the Company shall be brought in the state court located in Jefferson County, Kentucky. Buyer agrees and consents to jurisdiction of such courts and to the venue and forums specified above. Buyer irrevocably waives and irrevocably agrees not to raise any objection on the ground of forum non conveniens or on any other ground taking the Proceedings to any other court.

- (D) In any Proceedings to resolve a dispute under this agreement or against the Company, the prevailing party shall be entitled to recover from the other party, in addition to any other relief granted, all costs reasonably incurred by the prevailing party in the proceeding, including without limitation, court costs, witness fees, and reasonable attorneys' fees.

11. GENERAL

- (A) If any of these terms or conditions shall be found to be invalid, illegal, or unenforceable, these Terms and Conditions shall remain in full force and effect and such term or condition shall be deemed stricken.

- (B) This agreement may not be modified, altered, amended, or waived, except by a record that is signed or authenticated by the Company and Buyer. The failure of the Company to insist upon strict performance of any of the terms and conditions stated herein shall not be considered a continuing waiver of any such term or condition or any of the Company's rights.

- (C) This Buyer may not assign any rights under this agreement without the prior written consent of the Company. This agreement shall be binding on the Company and Buyer and on their respective successors and permitted assigns.

**TUBE-ICE MACHINES
HES-SERIES**

SELF CONTAINED			AIR COOLED				WATER COOLED	
			ICE MACHINE	CONDENSER	ICE MACHINE	CONDENSER	ICE MACHINE	
MODEL	TUBE SIZE	ICE DIA	SHIP WT (LBS)		LIST PRICE		SHIP WT (LBS)	LIST PRICE
HES20S	1"	7/8"	1200	320	\$41,138	\$4,217	1,200	\$41,663
HES20M	1 1/4"	1 1/8"			\$37,824			\$38,347
HES30S	1"	7/8"	1250	390	\$43,592	\$5,419	1,250	\$44,449
HES30M	1 1/4"	1 1/8"			\$40,462			\$41,314
HES40S	1"	7/8"	1275	520	\$54,856	\$6,357	1,275	\$56,137
HES40M	1 1/4"	1 1/8"			\$48,383			\$49,657

STANDARD FEATURES	HES-20	HES-30	HES-40
Standard Voltage for Power 208-230V, 3P, 60Hz & Control Circuit 208-230V, 1P, 60Hz	STANDARD		
Standard 208-230V, 1P, 50/60Hz Control Voltage for All Power Options			
Refrigerant R404A			
Cutter for Crushed or Cylinder Ice			
Copeland Performance Alert Power Monitor			
Electronic Ice Bin Thermostat			
Notes:			
- Standard machines will produce Tube-Ice ONLY. You must specify if you want crushed ice or dual ice (optional feature).			
- For air-cooled machines add condenser price to machine price.			

OPTIONS - ADD TO MACHINE LIST PRICE -	HES-20	HES-30	HES-40
Adder for Epoxy Coated Air Cooled Condenser	\$1,505	\$1,995	\$2,232
*High Ambient Condensers (over 105 F)	\$5,419	\$6,357	\$9,007
Condenser for 200psig Water Pressure (includes water regulating valve)	\$1,383		
Deduct for omitting Stainless Steel Casings	(\$860)		
Security Screws on Stainless Casings	\$615		
Dual Ice Feature	\$3,176		
Cutter for 1-1/2" Long Ice	\$1,950		
460v,3p,60hz	\$958		
400v,3p,50hz	\$769		
200v,3p,50hz	\$732		
Remote Switch Box Kit	\$1,377		
Export Crating for Machine	\$732		
Export Crating for Condenser	\$588	\$769	
Flush valve assembly	\$820		
Everpure #9437-11 Water Filter -Field Installed	\$1,746		
Goldenrod Water Treatment Unit 9" long, connection 3/4" -Field Installed	\$848		
"CE" Approval	\$8,032		
Model F810SS Ice Storage Bin (without partition) for use in low headroom applications with Models HES-20 through HES-40. Shipping Weight 415 lbs. Ice storing capacity 800 lbs.	\$5,242		
** Machines with 400/460V power require 460V condenser.			

**CRACKED ICE MACHINES
VT-SERIES**

MODEL	CAPACITY LBS/24 HRS	CONDENSER TYPE	ICE MACHINE		CONDENSER		LIST PRICE
			SHIP WT (LBS)	L x W x H (IN)	SHIP WT (LBS)	L x W x H (IN)	
VT-60	6,500	Air-Cooled Remote Condensing Unit (Split)	650	63¼ x 19 x 58	1,330	44 x 64 x 37	\$43,903
		Air-Cooled Skid Mounted Condensing Unit	2,290	87 x 63¼ x 58	N / A		\$46,569
VT-100	10,000	Air-Cooled with Remote Condenser	1,850	45 x 63 x 70	475	75 x 46 x 41	\$53,041
VT-60LS	N/A	Low-Side Only	650	63¼ x 19 x 58	N / A		\$24,118
VT-100LS			820	81-1/4 x 19 x 70-1/2			\$34,414

STANDARD FEATURES	
Standard Voltage for Power 208-230V, 3P, 60Hz & Control Circuit 208-230V, 1P, 60Hz	
Standard 208-230V, 1P, 50/60Hz Control Voltage for All Power Options.	
Refrigerant R404A	
Ice Making Section Casings Powder Coated Galvanneal	
Electronic Ice Bin Thermostat	
Notes:	
- The VT-100 has a metal roof over the compressor and electrical components.	
- VT-60 condensing unit is totally enclosed for outdoor use.	
- No condensing unit casings are included in the base price.	
- Sides are optional.	
-VT-60LS capable of 8,000 LBS/24 HRS with certain high side refrigeration components.	
Warranty Information (Domestic Installations Only)	
-2 Years: All Parts	
-1 Year Labor (For use by original purchaser and not transferable. Start-up report must be on file for warranty consideration.)	
-5-Years Compressor (For use by original purchaser and not transferable. Start-up report must be on file for warranty consideration.)	
-10 Years Evaporator (For use by original purchaser and not transferable. Start-up report must be on file for warranty consideration.)	

OPTIONS - ADD TO MACHINE LIST PRICE -	VT60	VT100
Voltage: 200v, 3p, 50hz	No Charge	
*Voltage: 460v, 3p, 60hz	N/A	\$1,391
*Voltage: 400v, 3p, 50 hz	N/A	\$3,020
Adder for Epoxy Coated Air Cooled Condenser	N/A	\$2,725
Remote Switch Box, Includes Ice-Clean-Off Selector Switch, Start Button & Fault Indicator Light	\$836	
Power Monitor	\$1,223	
Export Crating for VT Machine	STD	\$1,560
Export Crating for Condenser	STD	\$1,250
Ice Making Section Casings Stainless Steel	\$1,428	\$3,138
Galvanized Casing Kit for VT-60 Condensing Unit Galvanneal Casing Kit for VT-100 Compressor Compartment	No Charge	\$1,468
Stainless Steel Casing Kit for Compressor Compartment	N/A	\$2,315
Skid Mounting for VT-100 (Ice machine & Air Cooled condenser on same skid)	N/A	\$5,849
Goldenrod Water Treatment Unit 9" long, connection 3/4" -Field installed (flush valve assy required on low sides or split systems-see below)	\$848	
Flush Valve Drain Assembly - Field installed (required for use with Goldenrods on low-side or split systems)	\$130	
* Machines with 400/460V power require 460V condenser.		

**TUBE-ICE MACHINES
P-SERIES MID SIZE**

SELF CONTAINED		AIR COOLED				WATER COOLED	
		ICE MACHINE	CONDENSER	ICE MACHINE	CONDENSER	ICE MACHINE	
MODEL	ICE DIA	SHIP WT	(LBS)	LIST PRICE		SHIP WT (LBS)	LIST PRICE
P112	7/8"	2000	760	\$84,454	\$9,014	2,000	\$86,261
	1 1/8"			\$81,430			\$83,245
P118	7/8"	3,000	805	\$129,320	\$10,503	3,150	\$131,300
	1 1/8"			\$117,016			\$118,995
	1 3/8"			\$111,956			\$113,936
P18XT	7/8"	4,800	1,520	\$217,193	\$20,410	4,800	\$221,137
	1 1/8"			\$195,567			\$199,511
	1 3/8"			\$187,052			\$191,013

STANDARD FEATURES	P112F	P118F	P18XT
Standard Voltage for Power 208-230V, 3P, 60Hz & Control Circuit 208-230V, 1P, 60Hz	STANDARD		
Standard 208-230V, 1P, 50/60Hz Control Voltage for All Power Options			
Refrigerant R404A			
Export Crating for Machine			
Notes:			
- Standard machines will produce Tube-Ice ONLY. You must specify if you want crushed ice or dual ice (optional feature).			
- For air-cooled machines add condenser price to machine price.			

OPTIONS - ADD TO MACHINE LIST PRICE -	P112F	P118F	P18XT
Adder for Epoxy Coated Air cooled Condenser	\$3,198	\$3,660	\$8,626
*High Ambient Condensers	\$9,633	\$11,731	\$20,410
Skid Mounted Air Cooled Condenser	\$5,287	\$8,929	N/A
Tube-type Condenser for Sea Water	\$6,200	\$7,024	POR
Stainless Steel Casings	\$6,289	\$8,179	\$19,342
Security Screws on Stainless Panels	\$1,100		N/A
Aluminum Drip Pan	N/A	\$711	N/A
Cutter for Crushed Ice (Not available for P18XT-1")	STD	\$1,864	N/A
Ice Discharge Chute	STD	\$340	
Dual Ice Feature	\$4,360	\$4,646	N/A
Cutter for 1-1/2" Long Ice	\$2,074	NO CHARGE	
460v,3p,60hz	\$1,091	\$1,274	
400v,3p,50hz	\$1,703	\$2,674	\$4,644
200v, 3p, 50hz or 230V, 3p, 50hz	\$1,920	\$2,040	\$3,330
575v, 3p, 60hz.	\$1,118	\$1,306	
PLC Control Panel (Programmable Logic Controller)	\$6,041		
Electronic Ice Bin Thermostat	STD		\$823
Power Monitor for 60hz	\$1,223		
Remote Switch Box Kit	\$1,464		
Export Crating for Condenser	\$1,180	\$1,635	\$2,494
Goldenrod Water Treatment Unit 9", connection 3/4" -Field installed	\$848		
"CE" Approval	\$8,543		
**Machines with 400/460V power require 460V condenser.			

SPACESAVER ICE MACHINES

MODEL	COMP HP	CAPACITY (US TONS)	NET WT (LBS)	DOMESTIC SHIP WT (LBS)	EXPORT SHIP WT (LBS)	EXPORT VOLUME (FT3)	LIST PRICE	LIST PRICE EXPORT CRATING
2000SCW	7.2	1	950	1,175	1,475	93.0	\$49,665	\$1,554
2000SCAR			1,004	1,229	1,530		\$51,526	
4000SCW	12.5	2	1,300	1,480	1,840	118.0	\$59,716	\$1,911
4000SCAR			1,325	1,505	1,865		\$63,929	

STANDARD FEATURES								
Standard Voltage for power 208-230V, 3p, 60Hz & Control Circuit 208-230V, 1p, 60hz.								
Standard 208-230V, 1P, 50/60Hz Control Voltage for All Power Options.								
PLC Controls and stainless steel exterior panels are standard on all Spacesaver models.								
Note:								
- SCW: Self Contained Icemaker with water cooled condenser. Water regulating valve factory installed.								

OPTIONS - ADD TO MACHINE LIST PRICE -								LIST PRICE
460v,3p,60hz								\$966
400v,3p,50hz								\$775
200v,3p,50hz								\$737
SCAR: Available for remote air-cooled condenser application. Refer to REMOTE AIR-COOLED CONDENSERS below.								See Below

COOLING TOWERS		
DESCRIPTION	MODEL	
	2000 SCW	4000 SCW
Cooling Tower (motor starters by others)	POR	
Tower Evaporator Tons @ 78°F WB	2.86	6.42
Tower Shipping Weight (LBS)	460	
85°F water "off" tower, 95°F "on" (GPM)	7.50	23.70
Cooling Tower Water Pump (motor starters by others)	POR	
Cooling Tower Water Pump	1-1/4 x 1 x 5	
Water Pump Horsepower - HP (for 50 ft. head piping loss)	1/2	3/4
Water Pump Weight - LBS (shipped loose)	44	50
Motor Starters	Not Included	

REMOTE AIR-COOLED CONDENSERS		
DESCRIPTION	MODEL	
	2000 SCAR	4000 SCAR
Air Cooled Condenser	\$6,007	\$8,351
Fan Motor HP (quantity)	1 (1)	1 (2)
Total Heat Rejection (THR) @ 25°F suction 120°F Condensing, 100°F Ambient Air BTU/HR	70,573	136,320
Winter Control-Valve Included	Yes	Yes
Condenser Shipping Weight (LBS)	395	590
Remote Liquid Receiver Capacity (LBS of R404A)	38	72
Motor Starter	With Condenser	

**TUBE-ICE MACHINES
P-SERIES MID SIZE**

ELECTRICAL REQUIREMENTS											
MODEL	LARGEST MOTOR	MINIMUM AMPACITY		MAXIMUM STARTING IN-RUSH AMPS						FULL LOAD AMPS	
		(460V)	(230V*)	(460V-XL)	(460V-PW)	(460V-S)	(230V-XL*)	(230V-PW)	(230V-S)	(460V)	(230V*)
(Water Cooled)	(HP)										
P112F	6 1/2	29	59	142	N/A	N/A	290	N/A	N/A	24	48
P118F	10	40	82	196	N/A	N/A	401	N/A	N/A	33	67
P18XT	21	69	139	337	N/A	N/A	674	N/A	N/A	56	112
XL - Across the line full voltage starting											
PW - Part winding reduced voltage starting											
S - Reduced voltage Soft starting											
All values based on 60Hz power											
Notes:											
- Maximum in-rush current: Across the line start: 6 * Machine FLA. Part winding start: 3.9 * Machine FLA. Soft start: 3 * Machine FLA.											
- Minimum ampacity is figured by 1.25 x largest amp draw plus all other loads.											
*P112F, P118 and P18XT rated 208-230V											

**TUBE-ICE MACHINES
P-SERIES GENERAL INFORMATION**

MODEL	P112F	P118F	P18XT
Motor			
Compressor (60Hz.)	6.5 HP	12 HP	21 HP
Cutter	0.5 HP		
Water Pump	1.5 HP	2 HP	
Water Connections			
Makeup Inlet	1/2"	3/4"	
Condenser Inlet	1 1/4"		2"
Condenser Outlet			
Compressor Inlet	N/A		
Compressor Outlet			
Tank Drain	3/4"	1"	
Tank Overflow	N/A		
Water Requirements			
Ice Making (GPM)	1/2	1	2
Blowdown per Harvest (Gal.)	1	3	5
Condenser (GPM)	30	53	90
Compressor (GPM)	N/A		
Refrigerant Charge			
(Approx. Pounds)	150	275	525
KWH Per US Ton Ice	59	55	52
Notes:			

COOLING TOWER SIZING INFORMATION					
Model	Ice Machine Avg THR	Condenser Water Req'd (GPM)	Press. Drop thru Condenser (PSIG)	Water to Tower (°F)	Water from Tower (°F)
P112F	122,000	30	6*	95	85
P118F	170,000	53	5*	95	85
P18XT	275,000	90	4*	95	85
COOLING TOWER SIZING AND PRICING UPON REQUEST					
Notes:					
- The condenser water pump should be sized based on GPM required for condenser at 80 ft. total discharge head for typical installation.					
- Tower nozzles will be selected based on GPM required for condenser.					
*Pressure drop through condenser does not include water regulator.					

WATER PUMPS FOR COOLING TOWERS			
GPM REQUIRED	PUMP (HP)	WEIGHT (LBS)	LIST PRICE
30	1½	40	\$1,443
53	2	50	\$1,863
90	3	65	\$2,503
Notes:			
- Motors on towers and pumps are 230/460 volt, 3 phase, 60 Hz. (starters not included).			
- Tower price includes distribution basin covers and nozzles.			
- To prepare tower for export add \$665 list for Models 490 thru 493 and \$1108 list for Models 49			
- For 50Hz applications, add \$456 list to tower and pump each.			

FACTORY SUPERVISED START-UP

TUBE ICE EQUIPMENT		
EQUIPMENT DESCRIPTION	ESTIMATED DAYS OF SERVICE	ESTIMATED STARTUP NET COST
HES20, HES30, HES40	1	\$2,275
VT-40, VT-60, VT80, VT 100		
P112F		
P118F, P18FXT, Spacesaver	2	\$3,550

Notes:

- The equipment must be ready for start-up upon arrival of our technician anywhere in continental usa. A factory service technician will do on-site equipment start-up supervision. This option does not relieve distributors or representatives of start-up obligations. Additional time spent at the site due to other delays will be billed at \$1,000 / day plus expenses.
- The above pricing includes the labor, travel fares, and expenses for the number of days listed. pricing also includes on the job training for the customer and/or service technician while on site.
- Final invoice billed at actual cost of expenses. estimates listed are for work performed monday-friday based on 8 hours per day. Overtime rate above 8 hours and saturday is based on 1-1/2 times the standard hourly rate. All work on sunday and holidays based on double time for all hours. travel time to be billed at \$75 per hour.
- For start-up of additional units at the same location during the same trip, please consult factory for pricing.
- These are NET prices - no further discounts to apply.
- 2 Weeks advance notice required for pricing listed.
- Consult factory for international supervised startup pricing.