

BOARD OF EDUCATION OF HARFORD COUNTY

INFORMATIONAL REPORT

**DECISION ON CONTRACT TO REPLACE CHILLER AT YOUTH'S BENEFIT
ELEMENTARY SCHOOL - INTERMEDIATE BUILDING**

MAY 11, 2009

Background Information:

The Purchasing Department, on behalf of the Facilities Department, is requesting a decision by the Board of Education to award a contract to Havtech Corporation, P.O. Box 37031, Baltimore, MD 21297, to furnish a replacement chiller to include a two-year warranty on parts and labor, shipping, and start up for the HVAC system at Youth's Benefit Elementary School, Intermediate Building, in the amount of \$118,432.00. The design specifications for the chiller were prepared by Gipe Associates Inc. The existing chiller is non-operational due to age and deterioration of the equipment.

Discussion:

This is an expedited procurement since it is a time sensitive requirement of the school concerning the lack of cooling for the building. A letter of intent was given to the contractor to complete the project as quickly as possible. The specified chiller is one of the two units incorporated in the design for renovations to the current campus and will be incorporated in the future project.

Purchase of the permanent chiller will save Harford County Public Schools \$20,000 a month on rental costs, plus the initial start-up fees associated with connecting the unit.

This is a time sensitive project requiring immediate delivery to provide cooling for the remainder of the school year.

Interim Superintendent's Recommendation:

The Interim Superintendent of Schools recommends that the Board of Education approve a contract to Havtech Corporation for the above described purchase for Youth's Benefit Elementary School in the amount of \$118,432.00.

Stock Chiller Worksheet

Job Name:	Youth Benefit Chiller - HCPS	McQuay Tools Ver:	
Job ID:	8V0036	MST Shell Ver:	
Curr Date:	4/28/2009	Rep ID:	2920
Order Date:	4/28/2009 12:00:00 AM	Rep Name:	Havtech Baltimore
Last Xmit Date:	SFG ORDER		

Item	Qty	Base Tag	Model / Description
010	1		AGS275DS27 – STOCK CHILLER SS

Type:	SFG	Ship Date:	5/18/09
Status:	Order Hold	Pricing Ver:	03.81
		Software Ver:	03.84

1	AGS	GLOBAL AIR COOLED SCREW CHILLER 60 HZ
2	275D	UNIT SIZE; 275d
3	S	UNIT TYPE; Stock package chiller
4	A	REFRIGERANT; R134a
5	NN	SOUND TREATMENT; Standard
6	S	EVAPORATOR INSULATION; Single layer 3/4"
7	S	UNIT OPERATION; Standard operation (40f-60f lwt)
8	LH	EVAP HEADS; Standard 150 psi - left hand
9	A	COND COIL FINS; Aluminum fin (std)
10	V	HEAD PRESSURE; Vfd [first fans/ckt]
11	T	FAN OUTLET; Std. w/totally enclosed type
12	G	GUARDS; Condenser coils grilles only
13	NN	COMMUNICATION; None (std)
14	M2SE	MICROTECH II CONTROLS; Strndard mode, English
15	HAMB	CONTROL BOX AMBIENT; 125f high
16	27	VOLTAGE; 460v/60hz/3ph
17	SS	STARTER TYPE; Solid state
18	DC	POWER CONN; Single pt, disc sw w/comp isolating ckt breakers
19	P	PHASE/VOLT; Pvm included as part of solid state
20	N	UNIT CIRCUIT PROTECTION; Without unit ground fault
21	C	UNIT OPTIONS; 115v convenience outlet w/gfi
22	NN	WATER FLOW INDICATOR; None
23	S1	PUMP CONTROL OUTPUT; Single evap pump - single output
24	SS	TUBING OPTIONS; Standard with suction shutoff
25	ER	UNIT CAPACITY CONTROL; Extended range w/electronic expansion valv
26	NN	PUMP MOTOR CFG; W/ithout integral pump package
27	E	APPROVALS; ETL/cETL & ari
28	N	CRN-EVAP; None
29	NN	UNUSED CODE; Na
30	DSU	UNIT START; Domestic startup by mcquayservice
31	DPL	STD WTY; Domestic, 2 yr. entire unit parts & labor ©

PRICING:

Total Net Price (less tax / freight included).....\$ 117,260.00

Price add to have chiller shipped 1 month prior to PO approval.....\$ 1,172.00

Total \$ 118,432.00

Respectfully Submitted,
Havtech Corporation



Dave Doughty
Baltimore Office
410-303-3362

PROPOSAL

Customer:	Harford County Public Schools	JOB NAME:	Youths Benefit Chiller
Attn:	Mohan Kohli	Delivery Terms:	F.O.B Origin FFA to First Destination
Engineer:	Gipe Associates	Payment Terms:	Net 30 Days

The following is a list of equipment proposed for the above project. If you have any questions concerning the content of this proposal, please contact your Account Sales Executive.

ITEM A – AIR-COOLED SCREW CHILLER

Qty: 1 MCQUAY Model AGS-275 Packaged Air-Cooled Screw Compressor Water Chiller with the following:

Compressors: Direct drive 3600 rpm, single screw type one main rotor / two gate rotors
Solid State compressor motor starters
Condenser Fans: Direct drive propeller type with heavy gauge mesh fan guard PVC coated
Condenser Coil: Copper tube and aluminum fin with integral sub-cooler section; wire mesh coil guards
Condenser Fan Motors: Three phase TEAO permanently lubricated ball bearing type w
Evaporator: Direct expansion, shell-and-tube type, operating with refrigerant in the tubes and water through the shell. Removable heads and seamless high efficiency tubes mechanically bonded to the steel tube sheets; drain and vent fittings. ASME designed, constructed, inspected and stamped; insulated with ¾ inch thick closed shell insulation; resistance type heating cable and thermostat for freeze protection
Piping and Accessories: Each Circuit has a manual liquid line shutoff valve, replaceable core filter-drier, liquid line solenoid valve, sight glass/moisture indicator; electronic expansion valve and suction insulation. Spring loaded 450 psig relief valve and purge valves.
Control Center: Equipped with the MicroTech II microprocessor based control system. The controller features easy to use 6 key keypad and 80 character digital display that provides access to temperatures, pressures, setpoints, operating status, schedules and alarm messages. The control transformer is included; Solid State Starter; phase-volts over/under protection.
Assembly and Test: Assembly includes complete factory fabrication and assembly of parts, insulation, wiring between control components and all controls listed, factory supplied lubricant and R-134a Refrigerant Charge. Testing includes full operation and safety testing.
Start up and two year parts and labor warranty
Flow Switch
Non Fused type disconnect

NOTE: ITEMS TO BE FURNISHED BY OTHERS:

Hauling, Rigging and Setting of the Machine
Power and Control Wiring
Chilled Water Piping Connections
Controls, Valves and Accessories Other than those Listed in this Proposal
ATC Contractor Shall Be Responsible For the Integration
115V Power Supplies for Controls and Evaporator Heat Tape