

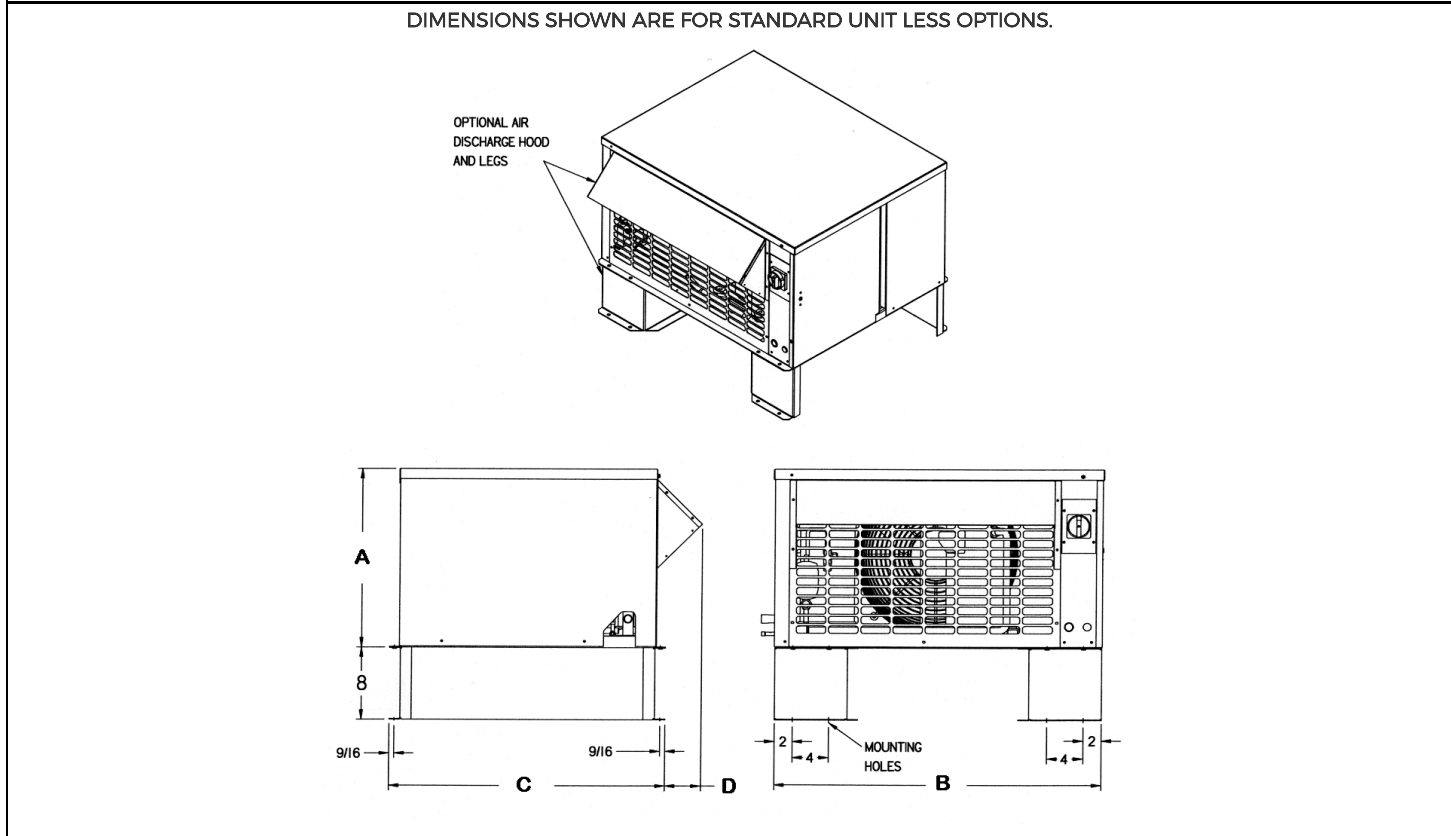
					<b>WYLIE ELEMENTARY COMBO COOLER</b>				
Prepared By					Prepared For				
<b>COOLING REQUIREMENTS</b>									
Application Title		Location	Interior Temperature		External Temperature		Internal RH	External RH	
General Walk-in Cooler		Indoor	35 °F		95 °F		84%	55%	
Wall Load 40%		Infiltration Load 27%		Product Load 10%			Miscellaneous Load 23%		
1,676 BTUH		1,134 BTUH		400 BTUH			948 BTUH		
<b>WALL, FLOOR AND CEILING LOADS</b>									
Section	Construction	Thickness (in)	K-Factor	R-Value	Ext Temp (°F)	Dim 1 (ft)	Dim 2 (ft)	Area (ft²)	Load (BTUH)
Rear	Urethane, Standard panels	4	0.14	28.57	95	8	8	64	134
Right End	Urethane, Standard panels	4	0.14	28.57	95	9.75	8	78	164
Front	Urethane, Standard panels	4	0.14	28.57	95	8	8	45	93
	Door			15	95	3	6.5	20	77
Left End	Urethane, Standard panels	4	0.14	28.57	45	9.75	8	78	27
Floor	Concrete Slab, Lightweight Aggregate 60Lb/ft³	6	1.92	3.12		8	9.75	78	1,016
Ceiling	Urethane, Standard panels	4	0.14	28.57	95	8	9.75	78	164
Volume (ft³)		624	TOTAL WALL, FLOOR AND CEILING LOAD						1,676
<b>INFILTRATION LOAD : ESTIMATED BY DOORS AND OPENINGS</b>									
Quantity	Door or Opening Type	Height (in)	Width (in)	Ext Temp (°F)	External Rh (%)	Open Time (hrs)	Curtains	Load (BTUH)	
1	Door	78	36	95	55	0.18	None	1,134	
TOTAL INFILTRATION LOAD ESTIMATED BY DOORS AND OPENINGS									1,134
<b>PRODUCT LOADS</b>									
Type		Weight (lb)	Enter Temp (°F)	Final Temperature (°F)		Pull Down (hrs)	Load (BTUH)		
General, Mixed Products, Approximation		1,248	45	35		24	400		
TOTAL PRODUCT LOAD (lb)			Total Product Load				400		
<b>MISCELLANEOUS LOADS</b>									
Quantity	Description		Power	Units	Run Time (hrs)		Load (BTUH)		
	LIGHTING		1	W/ft²	24		266		
2	EVAPORATOR MOTORS		100	W	24		682		
TOTAL MISCELLANEOUS LOAD									948
<b>SYSTEM DESIGN SUMMARY</b>									
Design Load (BTUH)	Safety Factor	Safety Load (BTUH)	Run Time (Hours)	Capacity Required (BTUH)	Refrigerant	Line Frequency (Hz)	Design TD (°F)	Line Loss (°F)	
4,158	10%	4,574	16	6,861	R448A	60	10.1	0.5	
<b>SYSTEM EQUIPMENT SELECTION</b>									
Equipment Type	Quantity	Model Number	Description			Voltage	RATING (BTUH)		
Condensing Units-Air	1	BEZA008H8-HT3D	EZ-Line Scroll Condensing Units-Air			208-230/3/60	8,452		
Evaporator	1	BLP209MA-S1D	Low Profile Evaporator			115/1/60	8,843		
<b>SYSTEM BALANCE</b>									
Condenser Ambient (°F)		Suction Temp (°F)		Evaporator TD (°F)		System Capacity (BTUH)			
95		24.8		9.7		8,513			


PURCHASER:	SUBMITTED BY:			
PROJECT:	DATE: 11/22/2023			
ORDER #: -A00	ITEM #: 0			
QUOTE #:	ID #:			
PURCHASER'S PO#:	TAGGING:			
<b>STANDARD FEATURES</b>				
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <ul style="list-style-type: none"> <li>• 3/8" Tubing coil construction (reduces refrigerant operating charge)</li> <li>• Adjustable pressure fan cycling control on 2 fan models only</li> <li>• Anti-short cycle time delay</li> <li>• Copper tubing secured with cushion clamps</li> <li>• Crankcase heater</li> <li>• Discharge line temperature sensor</li> <li>• Fan Guard</li> <li>• Fan motors are inherently protected with internal overloads</li> </ul> </div> <div style="width: 33%;"> <ul style="list-style-type: none"> <li>• Pre-formed piping</li> <li>• Receiver with fusible plug and liquid shut off valve</li> <li>• Suction Service valve</li> <li>• Adjustable flooded head pressure control (unless otherwise indicated)</li> <li>• Units are shipped with Helium holding charge</li> <li>• Weatherproof electrical control box with compressor contactor and fused control circuit</li> </ul> </div> <div style="width: 33%;"> <ul style="list-style-type: none"> <li>• Welded hermetic Scroll compressor</li> <li>• Adjustable low pressure control with flex hose / fixed high pressure control</li> <li>• ECM with SmartSpeed Technology</li> <li>• High efficiency enhanced copper tube and aluminium fin coil design</li> <li>• Compatible with Low GWP Refrigerants</li> <li>• Outdoor weatherproof pre-painted steel cabinet</li> </ul> </div> </div>				
<b>MODEL OPTIONS</b>				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="vertical-align: top; width: 33%;"> <b>OPTION PACKAGES</b>  <input type="checkbox"/> 1 Small B (Good@Warm/Moderate)  <input type="checkbox"/> Small N (Better@Warm/Moderate)  <input type="checkbox"/> Small P (Best@Warm/Moderate)  <input type="checkbox"/> Small D (Good@Moderate/Cold)  <input type="checkbox"/> Small J (Better@Moderate/Cold)  <input type="checkbox"/> Small Q (Best@Moderate/Cold)  <input type="checkbox"/> Small K  <input type="checkbox"/> Small H  <input type="checkbox"/> 115V Control Circuit  <b>ADJUSTABLE PRESSURE CONTROLS</b>  <input type="checkbox"/> Johnson Dual with flex hose  <input type="checkbox"/> Separate High/Low  <input type="checkbox"/> Separate High/Low: MAN Reset on HP  <b>BALL VALVE</b>  <input type="checkbox"/> Liquid Line (Shipped Loose)  <input type="checkbox"/> Liquid Line (Factory Installed)  <input type="checkbox"/> Suction Line (Shipped Loose)  <input type="checkbox"/> Suction Line (Factory Installed)  <b>CAPACITY CONTROL - HOT GAS BYPASS</b>  <input type="checkbox"/> To Inlet of Evaporator  <input type="checkbox"/> To Suction Line  <input type="checkbox"/> Compressor Circuit Breaker  <b>CONDENSING UNIT PRISON PACKAGE</b>  <input type="checkbox"/> Tamper Proof Screws  <input type="checkbox"/> Crankcase Pressure Regulator  <b>CONTACTORS</b>  <input type="checkbox"/> 30A Contactor  <input type="checkbox"/> 40A Contactor  <input type="checkbox"/> 60A Contactor </td> <td style="vertical-align: top; width: 33%;"> <b>DEFROST KIT (USE W/KE2 EVAP EFF)</b>  <input type="checkbox"/> Up to 30A per Evap  <input type="checkbox"/> 35A to 50A per Evap  <input type="checkbox"/> Over 50A per Evap  <input type="checkbox"/> Discharge Air Hood  <input type="checkbox"/> Discharge Line Check Valve  <b>DISCONNECT SWITCH</b>  <input type="checkbox"/> Fused  <input type="checkbox"/> Non-Fused  <b>EC FAN MOTORS + SPEED CONTROLLER</b>  <input type="checkbox"/> All Motors Variable Speed - 230V Units  <b>ELECTRONIC PRESSURE CONTROL</b>  <input type="checkbox"/> Low Pressure Control  <input type="checkbox"/> High Pressure Control  <input type="checkbox"/> Export Crating  <b>EXTENDED 4-YEAR COMPRESSOR WARRANTY</b>  <input type="checkbox"/> Copeland  <input type="checkbox"/> Extended Leg Kit  <b>COIL COATING</b>  <input type="checkbox"/> E-Coat  <b>FIN MATERIAL</b>  <input type="checkbox"/> Gold Coat Fins  <input type="checkbox"/> Copper Fins  <input type="checkbox"/> Hail Guard for Condenser  <input type="checkbox"/> Heated and Insulated Receiver  <b>HOUSING MATERIAL</b>  <input type="checkbox"/> Stainless Steel  <input type="checkbox"/> Insulated Suction Line </td> <td style="vertical-align: top; width: 33%;"> <b>LIQUID LINE FILTER + SIGHT GLASS</b>  <input type="checkbox"/> 1 Sealed  <input type="checkbox"/> Replaceable  <input type="checkbox"/> Liquid Line Lock-Out Relay  <b>LIQUID LINE SOLENOID VALVE</b>  <input type="checkbox"/> Standard 230V Coil (Shipped Loose)  <input type="checkbox"/> Standard 115V Coil (Shipped Loose)  <b>OIL SEPARATOR</b>  <input type="checkbox"/> With Oil Filter and Solenoid  <input type="checkbox"/> One Time Pump Down  <input type="checkbox"/> Oversized Receiver  <b>PHASE / VOLTAGE MONITOR</b>  <input type="checkbox"/> 3-Lead  <input type="checkbox"/> 6-Lead (MotorSaver455)  <input type="checkbox"/> Pump Down Toggle Switch  <input type="checkbox"/> QuickVac Valves  <input type="checkbox"/> Receiver Inlet Ball Valve  <input type="checkbox"/> Single Point Electrical  <b>SUCTION ACCUMULATOR</b>  <input type="checkbox"/> With Heat Exchanger  <input type="checkbox"/> Without Heat Exchanger  <b>SUCTION FILTER</b>  <input type="checkbox"/> Sealed Type  <input type="checkbox"/> Replaceable Core  <b>TIME CLOCK</b>  <input type="checkbox"/> Paragon 8145 Style (Factory Installed)  <input type="checkbox"/> 230V Paragon 8145 Style (Shipped Loose)  <input type="checkbox"/> 115V Paragon 8145 Style (Shipped Loose)  <input type="checkbox"/> Wind Guard  <input type="checkbox"/> Less Flooding Valve(s) </td> </tr> </table>		<b>OPTION PACKAGES</b> <input type="checkbox"/> 1 Small B (Good@Warm/Moderate) <input type="checkbox"/> Small N (Better@Warm/Moderate) <input type="checkbox"/> Small P (Best@Warm/Moderate) <input type="checkbox"/> Small D (Good@Moderate/Cold) <input type="checkbox"/> Small J (Better@Moderate/Cold) <input type="checkbox"/> Small Q (Best@Moderate/Cold) <input type="checkbox"/> Small K <input type="checkbox"/> Small H <input type="checkbox"/> 115V Control Circuit <b>ADJUSTABLE PRESSURE CONTROLS</b> <input type="checkbox"/> Johnson Dual with flex hose <input type="checkbox"/> Separate High/Low <input type="checkbox"/> Separate High/Low: MAN Reset on HP <b>BALL VALVE</b> <input type="checkbox"/> Liquid Line (Shipped Loose) <input type="checkbox"/> Liquid Line (Factory Installed) <input type="checkbox"/> Suction Line (Shipped Loose) <input type="checkbox"/> Suction Line (Factory Installed) <b>CAPACITY CONTROL - 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<div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p><u>Notes:</u> † MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection</p> <p>MCA &amp; MOP are for the condensing unit ONLY. Single point connections WILL show different on dataplate.</p> <p>AWEF = 7.6 for R404A/R507/R407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants</p> </div> <div style="width: 15%; text-align: center;"> <b>APPROVALS</b>  <div style="border: 1px solid black; padding: 2px; display: inline-block;"> </div> </div> </div>				
APPROVED BY :	DATE :			
<p>Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.</p>				

PURCHASER:		SUBMITTED BY:	
PROJECT: <b>Wylie Elementary</b>		DATE: <b>11/22/2023</b>	
ORDER #: <b>-A00</b>		ITEM #: <b>0</b>	
QUOTE #:		ID #:	
PURCHASER'S PO#:		TAGGING:	
<b>SELECTED OPTION DESCRIPTIONS</b>			
<u>Option Packages, Small B (Good@Warm/Moderate)</u> LLFD+SG <u>Liquid Line Filter + Sight Glass, Sealed</u>		Sporlan C Series with ODF solder connections and Sporlan SA moisture indicator factory installed in liquid line.	
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DIMENSIONS				FIELD CONNECTIONS				OTHER			
DIMENSION A	19 3/8 in	DIMENSION E		LIQUID	3/8 in	PAN LOOP			SHIPPING WEIGHT		188 lb
DIMENSION B	24 7/8 in	DIMENSION F		SUCTION	5/8 in	HOT GAS SIDE PORT			REFRIGERANT CHARGE		3 lb
DIMENSION C	30 3/8 in	DIMENSION G		DRAIN		HOT GAS INLET			RECEIVER CAPACITY		5 lb
DIMENSION D	4 in	DIMENSION H		WATER		HOT GAS OUTLET			AWEF COMPLIANT		YES
				DISCHARGE							
Voltage		SYSTEM REFRIGERANT			RATING		Suction Temp		Ambient Temp		CAPACITY
208-230/3/60		R448A			NaN		24.4 °F		95 °F		8,452 BTUH
Fans			COMPRESSOR					CIRCUIT TOTAL			
QTY	Power	FLA/FAN	Type		QTY	RLA	LRA	AMPS	WATTS	MCA†	MOP‡
1	100	1.0	ZB07KAE-TF5		1	5.2	37.8	6.2		7.5	15
LIQUID		3/8 in	SOUND		REC CAPACITY				5 lb	APPROVALS:	
SUCTION		5/8 in	WEIGHT		188 lb	REF CHARGE					

Notes: † MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection  
 MCA & MOP are for the condensing unit ONLY. Single point connections WILL show different on dataplate.  
 AWEF = 7.6 for R404A/R507/R407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants

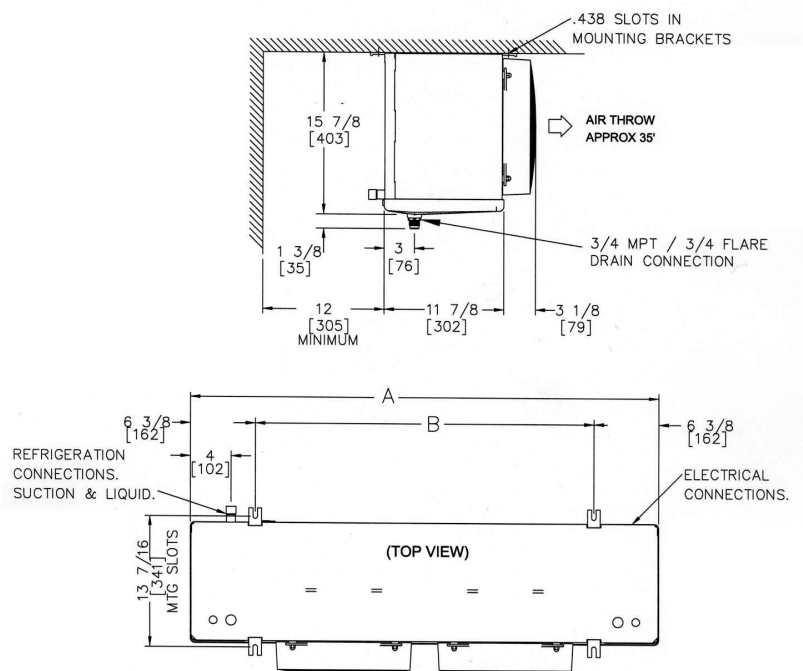
APPROVED BY :	DATE :
NATIONAL REFRIGERATION will furnish equipment in accordance with this drawing and specifications, and subject to its published warranty. Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.	



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<b>STANDARD FEATURES</b>	
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <ul style="list-style-type: none"> <li>• 3/8" Tubing coil construction (reduces refrigerant operating charge)</li> <li>• Factory installed solenoid valve wire harness</li> <li>• Heavy gauge textured aluminum cabinet construction resists scratches/corrosion</li> <li>• Spacious piping end compartment allows for easy assembly</li> <li>• Hinged drain pan with central universal drain connection (3/4" drain)</li> </ul> </div> <div style="width: 33%;"> <ul style="list-style-type: none"> <li>• Front access to spacious electrical and header compartments</li> <li>• Schrader connection on suction header</li> <li>• Attractive and durable high density polyethylene fan guards</li> <li>• Ultra efficient Electronically Commutated Motor (ECM)</li> <li>• ECM with SmartSpeed Technology</li> </ul> </div> <div style="width: 33%;"> <ul style="list-style-type: none"> <li>• High efficiency enhanced copper tube and aluminium fin coil design</li> <li>• 6 FPI</li> <li>• AWEF = 9.0</li> <li>• Unit Cooler is DOE/NRCAN compliant with R404A/R507/R448A/R449A/R407A/R407C</li> </ul> </div> </div>	
<b>MODEL OPTIONS</b>	
<div style="display: flex;"> <div style="width: 33%;"> <p><b>PRE-ASSEMBLED EVAP</b></p> <p><input checked="" type="checkbox"/> SmartVap+ with EEV + SolvV</p> <p><input type="checkbox"/> Sporlan TXV, LLSV,T-stat</p> <p><input type="checkbox"/> KE2 Evap Efficiency w/Sporlan EEV (Factory Installed)</p> <p><input type="checkbox"/> KE2 Evap Efficiency w/Sporlan EEV (Shipped Loose)</p> <p><input type="checkbox"/> Aux Sideport Connector</p> <p><b>CABINET FINISH</b></p> <p><input type="checkbox"/> Painted White</p> <p><input type="checkbox"/> Stainless Steel</p> <p><b>SENSORS FOR CPC BOARDS</b></p> <p><input type="checkbox"/> Coil Temp Sensor</p> <p><input type="checkbox"/> Return Air Temp Sensor</p> <p><b>DEMAND DEFROST ELECTRONIC CONTROLLER</b></p> <p><input type="checkbox"/> KE2 Therm Evaporator Efficiency (Factory Installed)</p> <p><input type="checkbox"/> KE2 Therm Evaporator Efficiency (Shipped Loose)</p> <p><input type="checkbox"/> Dual Circuit</p> <p><b>ELECTRONIC CONTROLLER</b></p> <p><input type="checkbox"/> KE2 Temp+Defrost (Factory Installed)</p> <p><input checked="" type="checkbox"/> SmartVap+ Control Board and Display (Factory Installed)</p> </div> <div style="width: 33%;"> <p><b>EXPANSION VALVE</b></p> <p><input type="checkbox"/> Sporlan TXV</p> <p><input type="checkbox"/> Sporlan EEV</p> <p><input checked="" type="checkbox"/> EEV for SmartVap+</p> <p><input type="checkbox"/> Evaporator Disconnect Switch</p> <p><b>EVAPORATOR PRISON PACKAGE</b></p> <p><input type="checkbox"/> Tamper Proof Screws</p> <p><input type="checkbox"/> Export Crating</p> <p><b>COIL COATING</b></p> <p><input type="checkbox"/> E-Coat</p> <p><b>FIN MATERIAL</b></p> <p><input type="checkbox"/> Gold Coat Fins</p> <p><input type="checkbox"/> Copper Fins</p> <p><input type="checkbox"/> Insulated Drain Pan</p> <p><b>KE2 THERM</b></p> <p><input type="checkbox"/> CAT5e Shielded Cable - 50ft w/connectors (Shipped Loose)</p> <p><input type="checkbox"/> Temp Sensors for Shipped Loose Controller</p> <p><input type="checkbox"/> Ethernet Adapter Kit</p> <p><input type="checkbox"/> Remote Combo Display (Shipped Loose)</p> <p><b>LIQUID / SUCTION HEAT EXCHANGER</b></p> <p><input type="checkbox"/> (Shipped Loose)</p> <p><b>LIQUID LINE SOLENOID VALVE</b></p> <p><input checked="" type="checkbox"/> Sporlan (Factory Installed)</p> </div> <div style="width: 33%;"> <p><input type="checkbox"/> Dual Voltage Coil 120-230V Field Wired</p> <p><input type="checkbox"/> Nitrogen Charged and Sealed</p> <p><b>ROOM THERMOSTATS</b></p> <p><input type="checkbox"/> Mechanical (Factory Installed)</p> <p><input type="checkbox"/> Mechanical (Shipped Loose)</p> <p><input type="checkbox"/> Johnson A19ABC (Shipped Loose)</p> <p><input type="checkbox"/> Johnson A421ABC-02C (Shipped Loose)</p> <p><input type="checkbox"/> Johnson A421ABC-02 (Factory Installed)</p> <p><input type="checkbox"/> Wire Fan Guards</p> <p><b>REMOTE DEFROST PANEL</b></p> <p><input type="checkbox"/> 230V Control (Shipped Loose)</p> <p><input type="checkbox"/> 115V Control (Shipped Loose)</p> <p><b>INSTALLATION REQUIREMENTS</b></p> <p><input checked="" type="checkbox"/> Minimum slope of 1" per foot on all drain lines</p> <p><input checked="" type="checkbox"/> P-trap per evap required outside of box</p> <p><b>USED WITH MECHANICAL SUBCOOLER</b></p> <p><input type="checkbox"/> Circuit for sub-cooled Liquid - note temperature</p> </div> </div>	
<div style="display: flex; justify-content: space-between;"> <div> <p><u>Notes:</u> † MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection</p> </div> <div style="border: 1px solid black; padding: 5px;"> <b>APPROVALS</b>  <div style="display: flex; justify-content: space-around;"> </div> </div> </div>	
APPROVED BY :	DATE :
<p>Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.</p>	

PURCHASER:		SUBMITTED BY:	
PROJECT: <b>Wylie Elementary</b>		DATE: <b>11/22/2023</b>	
ORDER #: <b>-A00</b>		ITEM #: <b>0</b>	
QUOTE #:		ID #:	
PURCHASER'S PO#:		TAGGING:	
<b>SELECTED OPTION DESCRIPTIONS</b>			
<u>Pre-assembled Evap. SmartVap+ with EEV + Solvly</u> Electronic evaporator control complete with EEV, controller, digital display and solenoid valve <u>Electronic Controller, SmartVap+ Control Board and Display (Factory Installed)</u> <u>Expansion Valve, EEV for SmartVap+</u> <u>Liquid Line Solenoid Valve, Sporlan (Factory Installed)</u> Sporlan solenoid coil voltage matches evaporator voltage except when evaporator is 460V, then 230V solenoid coil is used. Exceptions must be clearly		explained in the Notes of the option. <u>Installation Requirements, Minimum slope of 1" per foot on all drain lines</u> Bally recommends a minimum slope of 1" per foot on all drain lines. <u>Installation Requirements, P-trap per evap required outside of box</u> All evaporators must be trapped individually outside of the box to prevent vapor migration back to coil surface.	
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PURCHASER:	SUBMITTED BY:
PROJECT:	DATE: 11/22/2023
ORDER #: -A00	ITEM #: 0
QUOTE #:	ID #:
PURCHASER'S PO#:	TAGGING:

DIMENSIONS SHOWN ARE FOR STANDARD UNIT LESS OPTIONS.



DIMENSIONS				FIELD CONNECTIONS				OTHER		
DIMENSION A	46 1/4 in	DIMENSION E		DISTRIBUTOR	3/8 in	PAN LOOP		SHIPPING WEIGHT		70 lb
DIMENSION B	33 1/4 in	DIMENSION F		SUCTION	7/8 in	HOT GAS SIDE PORT		REFRIGERANT CHARGE		1 lb
DIMENSION C		DIMENSION G		DRAIN	3/4 in	HOT GAS INLET		RECEIVER CAPACITY		
DIMENSION D		DIMENSION H		WATER		HOT GAS OUTLET		AWEF COMPLIANT		YES
				DISCHARGE						
Voltage	SYSTEM REFRIGERANT			AIR FLOW	Evap temperature		Box Temperature		CAPACITY	
115/1/60	R448A			1,500 CFM	24.9 °F		35 °F		8,843 BTUH	
Fans				HEATERS			CIRCUIT TOTAL			
QTY	Power	FLA/FAN		Type	QTY	AMPS	AMPS	WATTS	MCA†	MOP‡
2	0.07 HP	1.0					2.0	120.0	2.3	15
DISTRIBUTOR		3/8 in	SOUND			REC CAPACITY			APPROVALS:	 
SUCTION		7/8 in	WEIGHT		70 lb	REF CHARGE		1 lb		

Notes: † MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection

APPROVED BY :	DATE :
NATIONAL REFRIGERATION will furnish equipment in accordance with this drawing and specifications, and subject to its published warranty. Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.	