WYLIE ELEMENTARY COMBO COOLER

Prepared By	Prepared For

COOLING REQUIREMENTS

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

WALL, FLOOR AND CEILING LOADS

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

INFILTRATION LOAD : ESTIMATED BY DOORS AND OPENINGS

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

PRODUCT LOADS

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

MISCELLANEOUS LOADS

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

SYSTEM DESIGN SUMMARY

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

SYSTEM EQUIPMENT SELECTION

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

SYSTEM BALANCE

Condenser Ambient (˚F)	Suction Temp (˚F)	Evaporator TD (˚F)	System Capacity (BTUH)
95	24.8	9.7	8,513

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STANDARD FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Adjustable pressure fan cycling control on 2 fan models only
- Anti-short cycle time delay
- Copper tubing secured with cushion clamps
- Crankcase heater
- Discharge line temperature sensor
- Fan Guard
- Fan motors are inherently protected with internal overloads
- Pre-formed piping
- Receiver with fusible plug and liquid shut off valve
- Suction Service valve
- Adjustable flooded head pressure control (unless otherwise indicated)
- Units are shipped with Helium holding charge
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Welded hermetic Scroll compressor
- Adjustable low pressure control with flex hose / fixed high pressure control
- ECM with SmartSpeed Technology
- High efficiency enhanced copper tube and aluminium fin coil design
- Compatible with Low GWP Refrigerants
- Outdoor weatherproof pre-painted steel cabinet

MODEL OPTIONS

OPTION PACKAGES
- [1] Small B (Good@Warm/Moderate)
- [ ] Small N (Better@Warm/Moderate)
- [ ] Small P (Best@Warm/Moderate)
- [ ] Small D (Good@Moderate/Cold)
- [ ] Small J (Better@Moderate/Cold)
- [ ] Small Q (Best@Moderate/Cold)
- [ ] Small K
- [ ] Small H

[ ] **115V Control Circuit**

ADJUSTABLE PRESSURE CONTROLS
- [ ] Johnson Dual with flex hose
- [ ] Separate High/Low
- [ ] Separate High/Low: MAN Reset on HP

BALL VALVE
- [ ] Liquid Line (Shipped Loose)
- [ ] Liquid Line (Factory Installed)
- [ ] Suction Line (Shipped Loose)
- [ ] Suction Line (Factory Installed)

CAPACITY CONTROL - HOT GAS BYPASS
- [ ] To Inlet of Evaporator
- [ ] To Suction Line

[ ] **Compressor Circuit Breaker**

CONDENSING UNIT PRISON PACKAGE
- [ ] Tamper Proof Screws

[ ] **Crankcase Pressure Regulator**

CONTACTORS
- [ ] 30A Contactor
- [ ] 40A Contactor
- [ ] 60A Contactor

DEFROST KIT (USE W/KE2 EVAP EFF)
- [ ] Up to 30A per Evap
- [ ] 35A to 50A per Evap
- [ ] Over 50A per Evap

[ ] **Discharge Air Hood**

[ ] **Discharge Line Check Valve**

DISCONNECT SWITCH
- [ ] Fused
- [ ] Non-Fused

EC FAN MOTORS + SPEED CONTROLLER
- [ ] All Motors Variable Speed - 230V Units

ELECTRONIC PRESSURE CONTROL
- [ ] Low Pressure Control
- [ ] High Pressure Control

[ ] **Export Crating**

EXTENDED 4-YEAR COMPRESSOR WARRANTY
- [ ] Copeland

[ ] **Extended Leg Kit**

COIL COATING
- [ ] E-Coat

FIN MATERIAL
- [ ] Gold Coat Fins
- [ ] Copper Fins

[ ] **Hail Guard for Condenser**

[ ] **Heated and Insulated Receiver**

HOUSING MATERIAL
- [ ] Stainless Steel

[ ] **Insulated Suction Line**

LIQUID LINE FILTER + SIGHT GLASS
- [1] Sealed
- [ ] Replaceable

[ ] **Liquid Line Lock-Out Relay**

LIQUID LINE SOLENOID VALVE
- [ ] Standard 230V Coil (Shipped Loose)
- [ ] Standard 115V Coil (Shipped Loose)

OIL SEPARATOR
- [ ] With Oil Filter and Solenoid

[ ] **One Time Pump Down**

[ ] **Oversized Receiver**

PHASE / VOLTAGE MONITOR
- [ ] 3-Lead
- [ ] 6-Lead (MotorSaver455)

[ ] **Pump Down Toggle Switch**

[ ] **QuickVac Valves**

[ ] **Receiver Inlet Ball Valve**

[ ] **Single Point Electrical**

SUCTION ACCUMULATOR
- [ ] With Heat Exchanger
- [ ] Without Heat Exchanger

SUCTION FILTER
- [ ] Sealed Type
- [ ] Replaceable Core

TIME CLOCK
- [ ] Paragon 8145 Style (Factory Installed)
- [ ] 230V Paragon 8145 Style (Shipped Loose)
- [ ] 115V Paragon 8145 Style (Shipped Loose)

[ ] **Wind Guard**

[ ] **Less Flooding Valve(s)**

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

APPROVALS

APPROVED BY :	DATE :

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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PROJECT: Wylie Elementary	DATE: 11/22/2023
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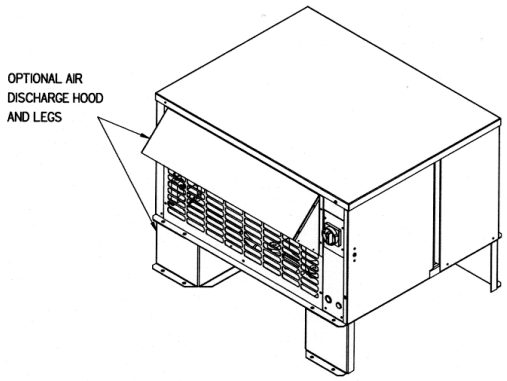
SELECTED OPTION DESCRIPTIONS

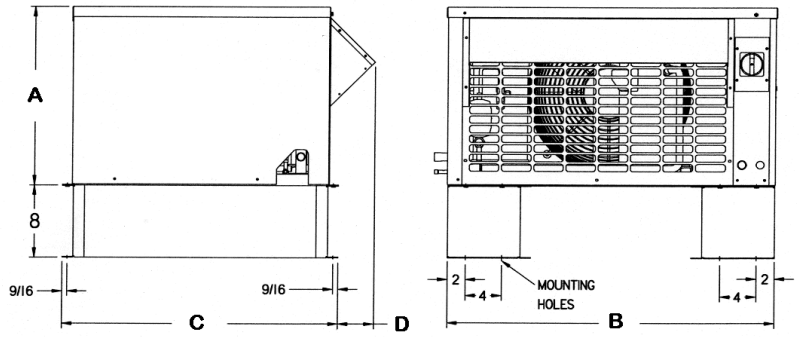
Option Packages, Small B (Good@Warm/Moderate) LLFD+SG Liquid Line Filter + Sight Glass, Sealed	Sporlan C Series with ODF solder connections and Sporlan SA moisture indicator factory installed in liquid line.

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DIMENSIONS SHOWN ARE FOR STANDARD UNIT LESS OPTIONS.





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:	cULus
SUCTION	5/8 in	WEIGHT	188 lb	REF CHARGE	3 lb		

Notes: † MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection
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AWEF = 7.6 for R404A/R507/R407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants

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STANDARD FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Factory installed solenoid valve wire harness
- Heavy gauge textured aluminum cabinet construction resists scratches/corrosion
- Spacious piping end compartment allows for easy assembly
- Hinged drain pan with central universal drain connection (3/4" drain)
- Front access to spacious electrical and header compartments
- Schrader connection on suction header
- Attractive and durable high density polyethylene fan guards
- Ultra efficient Electronically Commutated Motor (ECM)
- ECM with SmartSpeed Technology
- High efficiency enhanced copper tube and aluminium fin coil design
- 6 FPI
- AWEF = 9.0
- Unit Cooler is DOE/NRCAN compliant with R404A/R507/R448A/R449A/R407A/R407C

MODEL OPTIONS

PRE-ASSEMBLED EVAP
- [1] SmartVap+ with EEV + Solvlv
- [ ] Sporlan TXV, LLSV,T-stat
- [ ] KE2 Evap Efficiency w/Sporlan EEV (Factory Installed)
- [ ] KE2 Evap Efficiency w/Sporlan EEV (Shipped Loose)
- [ ] **Aux Sideport Connector**

CABINET FINISH
- [ ] Painted White
- [ ] Stainless Steel

SENSORS FOR CPC BOARDS
- [ ] Coil Temp Sensor
- [ ] Return Air Temp Sensor

DEMAND DEFROST ELECTRONIC CONTROLLER
- [ ] KE2 Therm Evaporator Efficiency (Factory Installed)
- [ ] KE2 Therm Evaporator Efficiency (Shipped Loose)
- [ ] **Dual Circuit**

ELECTRONIC CONTROLLER
- [ ] KE2 Temp+Defrost (Factory Installed)
- [1] SmartVap+ Control Board and Display (Factory Installed)

EXPANSION VALVE
- [ ] Sporlan TXV
- [ ] Sporlan EEV
- [1] EEV for SmartVap+
- [ ] **Evaporator Disconnect Switch**

EVAPORATOR PRISON PACKAGE
- [ ] Tamper Proof Screws
- [ ] **Export Crating**

COIL COATING
- [ ] E-Coat

FIN MATERIAL
- [ ] Gold Coat Fins
- [ ] Copper Fins
- [ ] **Insulated Drain Pan**

KE2 THERM
- [ ] CAT5e Shielded Cable - 50ft w/connectors (Shipped Loose)
- [ ] Temp Sensors for Shipped Loose Controller
- [ ] Ethernet Adapter Kit
- [ ] Remote Combo Display (Shipped Loose)

LIQUID / SUCTION HEAT EXCHANGER
- [ ] (Shipped Loose)

LIQUID LINE SOLENOID VALVE
- [1] Sporlan (Factory Installed)

- [ ] **Dual Voltage Coil 120-230V Field Wired**
- [ ] **Nitrogen Charged and Sealed**

ROOM THERMOSTATS
- [ ] Mechanical (Factory Installed)
- [ ] Mechanical (Shipped Loose)
- [ ] Johnson A19ABC (Shipped Loose)
- [ ] Johnson A421ABC-02C (Shipped Loose)
- [ ] Johnson A421ABC-02 (Factory Installed)
- [ ] **Wire Fan Guards**

REMOTE DEFROST PANEL
- [ ] 230V Control (Shipped Loose)
- [ ] 115V Control (Shipped Loose)

INSTALLATION REQUIREMENTS
- [1] Minimum slope of 1" per foot on all drain lines
- [1] P-trap per evap required outside of box

USED WITH MECHANICAL SUBCOOLER
- [ ] Circuit for sub-cooled Liquid - note temperature

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

APPROVALS

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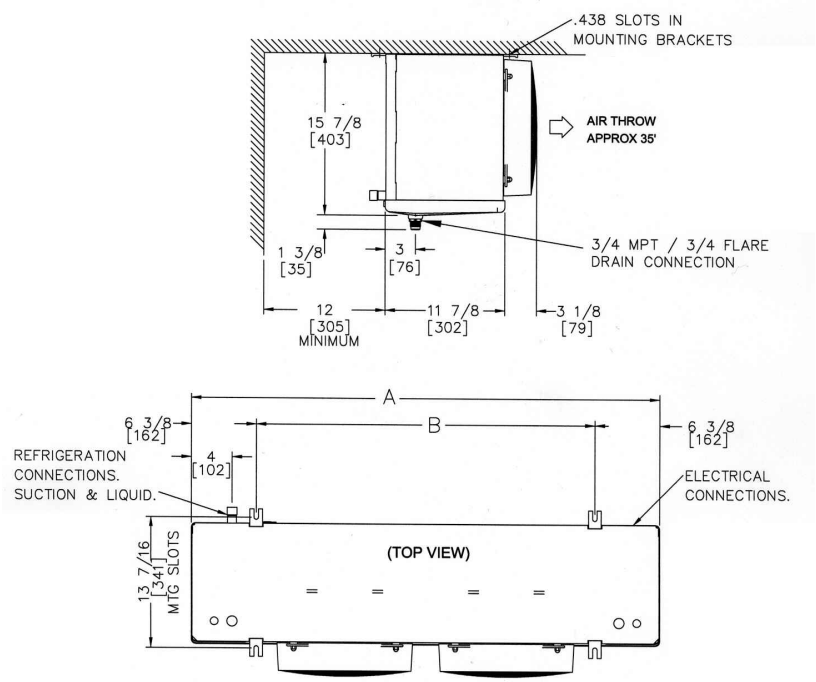
SELECTED OPTION DESCRIPTIONS

Pre-assembled Evap, SmartVap+ with EEV + Solvlv
Electronic evaporator control complete with EEV, controller, digital display and solenoid valve
Electronic Controller, SmartVap+ Control Board and Display (Factory Installed)
Expansion Valve, EEV for SmartVap+
Liquid Line Solenoid Valve, Sporlan (Factory Installed)
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.
Installation Requirements, Minimum slope of 1" per foot on all drain lines
Bally recommends a minimum slope of 1" per foot on all drain lines.
Installation Requirements, P-trap per evap required outside of box
All evaporators must be trapped individually outside of the box to prevent vapor migration back to coil surface.

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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

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WYLIE ELEMENTARY COMBO FREEZER

Prepared By	Prepared For

COOLING REQUIREMENTS

Application Title	Location	Interior Temperature	External Temperature	Internal RH	External RH
General Walk-in Freezer	Indoor	-10 ˚F	95 ˚F	95%	55%

Wall Load 33%	Infiltration Load 47%	Product Load 2%	Miscellaneous Load 18%
1,640 BTUH	2,320 BTUH	112 BTUH	892 BTUH

WALL, FLOOR AND CEILING LOADS

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	235
Right End	Urethane, Standard panels	4	0.14	28.57	45	9.75	8	78	150
Front	Urethane, Standard panels	4	0.14	28.57	95	8	8	45	164
	Door			15	95	3	6.5	20	135
Left End	Urethane, Standard panels	4	0.14	28.57	95	9.75	8	78	287
Floor	Composite :- Insulated Floor - Panels On Concrete	10	0.31	32.32		8	9.75	78	383
Ceiling	Urethane, Standard panels	4	0.14	28.57	95	8	9.75	78	287
	Volume (ft³)	624						TOTAL WALL, FLOOR AND CEILING LOAD	1,640

INFILTRATION LOAD : ESTIMATED BY DOORS AND OPENINGS

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	2,320
							TOTAL INFILTRATION LOAD ESTIMATED BY DOORS AND OPENINGS	2,320

PRODUCT LOADS

Type	Weight (lb)	Enter Temp (˚F)	Final Temperature (˚F)	Pull Down (hrs)	Load (BTUH)
General, Mixed Products, Approximation	624	0	-10	24	112
TOTAL PRODUCT LOAD (lb)				Total Product Load	112

MISCELLANEOUS LOADS

Quantity	Description	Power	Units	Run Time (hrs)	Load (BTUH)
	LIGHTING	1	W/ft²	24	266
2	EVAPORATOR MOTORS	100	W	22	626
				TOTAL MISCELLANEOUS LOAD	892

SYSTEM DESIGN SUMMARY

Design Load (BTUH)	Safety Factor	Safety Load (BTUH)	Run Time (Hours)	Capacity Required (BTUH)	Refrigerant	Line Frequency (Hz)	Design TD (˚F)	Line Loss (˚F)
4,964	10%	5,460	18	7,280	R448A	60	10	0.5

SYSTEM EQUIPMENT SELECTION

Equipment Type	Quantity	Model Number	Description	Voltage	RATING (BTUH)
Condensing Units-Air	1	BEZA025L8-HT3D	EZ-Line Scroll|Condensing Units-Air	208-230/3/60	8,798
Evaporator	1	BLP211LE-S2D	Low Profile|Evaporator	208-230/1/60	11,330

SYSTEM BALANCE

Condenser Ambient (˚F)	Suction Temp (˚F)	Evaporator TD (˚F)	System Capacity (BTUH)
95	-18.6	8.1	9,212

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STANDARD FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Adjustable pressure fan cycling control on 2 fan models only
- Anti-short cycle time delay
- Copper tubing secured with cushion clamps
- Crankcase heater
- Discharge line temperature sensor
- Fan Guard
- Fan motors are inherently protected with internal overloads
- Pre-formed piping
- Receiver with fusible plug and liquid shut off valve
- Suction Service valve
- Adjustable flooded head pressure control (unless otherwise indicated)
- Units are shipped with Helium holding charge
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Welded hermetic Scroll compressor
- Adjustable low pressure control with flex hose / fixed high pressure control
- High efficiency enhanced copper tube and aluminium fin coil design
- Compatible with Low GWP Refrigerants
- Outdoor weatherproof pre-painted steel cabinet

MODEL OPTIONS

OPTION PACKAGES
- [1] Small B (Good@Warm/Moderate)
- [ ] Small N (Better@Warm/Moderate)
- [ ] Small P (Best@Warm/Moderate)
- [ ] Small D (Good@Moderate/Cold)
- [ ] Small J (Better@Moderate/Cold)
- [ ] Small Q (Best@Moderate/Cold)
- [ ] Small K
- [ ] Small H

[ ] 115V Control Circuit

ADJUSTABLE PRESSURE CONTROLS
- [ ] Johnson Dual with flex hose
- [ ] Separate High/Low
- [ ] Separate High/Low: MAN Reset on HP

BALL VALVE
- [ ] Liquid Line (Shipped Loose)
- [ ] Liquid Line (Factory Installed)
- [ ] Suction Line (Shipped Loose)
- [ ] Suction Line (Factory Installed)

CAPACITY CONTROL - HOT GAS BYPASS
- [ ] To Inlet of Evaporator
- [ ] To Suction Line

[ ] Compressor Circuit Breaker

CONDENSING UNIT PRISON PACKAGE
- [ ] Tamper Proof Screws

[ ] Crankcase Pressure Regulator

CONTACTORS
- [ ] 30A Contactor
- [ ] 40A Contactor
- [ ] 60A Contactor

DEFROST KIT (USE W/KE2 EVAP EFF)
- [ ] Up to 30A per Evap
- [ ] 35A to 50A per Evap
- [ ] Over 50A per Evap

[ ] Discharge Air Hood

[ ] Discharge Line Check Valve

[ ] Discharge Line Temperature Sensor

DISCONNECT SWITCH
- [ ] Fused
- [ ] Non-Fused

EC FAN MOTORS + SPEED CONTROLLER
- [ ] SmartSpeed

ELECTRONIC PRESSURE CONTROL
- [ ] Low Pressure Control
- [ ] High Pressure Control

[ ] Export Crating

EXTENDED 4-YEAR COMPRESSOR WARRANTY
- [ ] Copeland

[ ] Extended Leg Kit

COIL COATING
- [ ] E-Coat

FIN MATERIAL
- [ ] Gold Coat Fins
- [ ] Copper Fins

[ ] Hail Guard for Condenser

[ ] Heated and Insulated Receiver

HOUSING MATERIAL
- [ ] Stainless Steel

[ ] Insulated Suction Line

LIQUID LINE FILTER + SIGHT GLASS
- [1] Sealed
- [ ] Replaceable

[ ] Liquid Line Lock-Out Relay

LIQUID LINE SOLENOID VALVE
- [ ] Standard 230V Coil (Shipped Loose)
- [ ] Standard 115V Coil (Shipped Loose)

OIL SEPARATOR
- [ ] With Oil Filter and Solenoid

[ ] One Time Pump Down

[ ] Oversized Receiver

PHASE / VOLTAGE MONITOR
- [ ] 3-Lead
- [ ] 6-Lead (MotorSaver455)

[ ] Pump Down Toggle Switch

[ ] QuickVac Valves

[ ] Receiver Inlet Ball Valve

[ ] Single Point Electrical

[ ] Sub Cooling Circuit

SUCTION ACCUMULATOR
- [ ] With Heat Exchanger
- [ ] Without Heat Exchanger

SUCTION FILTER
- [ ] Sealed Type
- [ ] Replaceable Core

TIME CLOCK
- [ ] Paragon 8145 Style (Factory Installed)
- [ ] 230V Paragon 8145 Style (Shipped Loose)
- [ ] 115V Paragon 8145 Style (Shipped Loose)

[ ] Wind Guard

[ ] Less Flooding Valve(s)

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 = 3.15 for R404A/R507/407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants

APPROVALS

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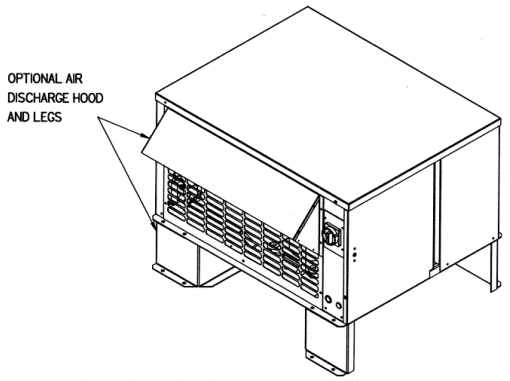
SELECTED OPTION DESCRIPTIONS

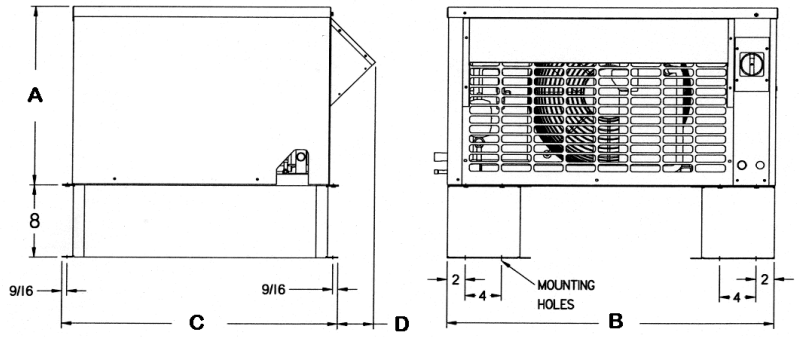
Option Packages, Small B (Good@Warm/Moderate) LLFD+SG Liquid Line Filter + Sight Glass, Sealed	Sporlan C Series with ODF solder connections and Sporlan SA moisture indicator factory installed in liquid line.

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.

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	19 7/8 in	DIMENSION E		LIQUID	3/8 in	PAN LOOP		SHIPPING WEIGHT	335 lb
DIMENSION B	36 3/8 in	DIMENSION F		SUCTION	7/8 in	HOT GAS SIDE PORT		REFRIGERANT CHARGE	6 lb
DIMENSION C	30 3/8 in	DIMENSION G		DRAIN		HOT GAS INLET		RECEIVER CAPACITY	14 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	-20.5 °F	95 °F	8,798 BTUH

Fans			COMPRESSOR				CIRCUIT TOTAL			
QTY	Power	FLA/FAN	Type	QTY	RLA	LRA	AMPS	WATTS	MCA†	MOP‡
1	240	1.1	ZF08K4E-TF5	1	9.6	63.0	10.7		13.1	20

LIQUID	3/8 in	SOUND		REC CAPACITY	14 lb	APPROVALS:	
SUCTION	7/8 in	WEIGHT	335 lb	REF CHARGE	6 lb		

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 = 3.15 for R404A/R507/407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants

APPROVED BY :	DATE :

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PROJECT:	DATE: 11/22/2023
ORDER #: -A00	ITEM #: 0
QUOTE #:	ID #:
PURCHASER'S PO#:	TAGGING:

STANDARD FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Factory installed solenoid valve wire harness
- Heavy gauge textured aluminum cabinet construction resists scratches/corrosion
- Spacious piping end compartment allows for easy assembly
- Hinged drain pan with central universal drain connection (3/4" drain)
- Front access to spacious electrical and header compartments
- Schrader connection on suction header
- Attractive and durable high density polyethylene fan guards
- Ultra efficient Electronically Commutated Motor (ECM)
- ECM with SmartSpeed Technology
- High efficiency enhanced copper tube and aluminium fin coil design
- 6 FPI
- Unit Cooler is DOE/NRCAN compliant with R404A/R507/R448A/R449A/R407A

MODEL OPTIONS

PRE-ASSEMBLED EVAP
- [1] SmartVap+ with EEV + Solvlv
- [ ] Sporlan TXV, LLSV,T-stat
- [ ] KE2 Evap Efficiency w/Sporlan TXV (Factory Installed)
- [ ] KE2 Evap Efficiency w/Sporlan EEV (Factory Installed)
- [ ] KE2 Evap Efficiency w/Sporlan TXV (Shipped Loose)
- [ ] KE2 Evap Efficiency w/Sporlan EEV (Shipped Loose)
- [ ] Aux Sideport Connector

CABINET FINISH
- [ ] Painted White
- [ ] Stainless Steel

SENSORS FOR CPC BOARDS
- [ ] Coil Temp Sensor
- [ ] Return Air Temp Sensor

DEMAND DEFROST ELECTRONIC CONTROLLER
- [ ] KE2 Adaptive Control (Factory Installed)
- [ ] KE2 Adaptive Control (Shipped Loose)
- [ ] KE2 Therm Evaporator Efficiency (Factory Installed)
- [ ] KE2 Therm Evaporator Efficiency (Shipped Loose)
- [ ] Dual Circuit

ELECTRONIC CONTROLLER
- [1] SmartVap+ Control Board and Display (Factory Installed)

EXPANSION VALVE
- [ ] Sporlan TXV
- [ ] Sporlan EEV
- [1] EEV for SmartVap+

EVAPORATOR PRISON PACKAGE
- [ ] Tamper Proof Screws
- [ ] Export Crating

COIL COATING
- [ ] E-Coat

FIN MATERIAL
- [ ] Gold Coat Fins
- [ ] Copper Fins
- [ ] Insulated Drain Pan

KE2 THERM
- [ ] CAT5e Shielded Cable - 50ft w/connectors (Shipped Loose)
- [ ] Temp Sensors for Shipped Loose Controller
- [ ] Ethernet Adapter Kit
- [ ] Remote Combo Display (Shipped Loose)

LIQUID / SUCTION HEAT EXCHANGER
- [ ] (Shipped Loose)

LIQUID LINE SOLENOID VALVE
- [1] Sporlan (Factory Installed)
- [ ] Dual Voltage Coil 120-230V Field Wired
- [ ] Nitrogen Charged and Sealed

ROOM THERMOSTATS
- [ ] Mechanical (Factory Installed)
- [ ] Mechanical (Shipped Loose)
- [ ] Johnson A19ABC (Shipped Loose)
- [ ] Johnson A421ABC-02C (Shipped Loose)
- [ ] Johnson A421ABC-02 (Factory Installed)
- [ ] Wire Fan Guards

REMOTE DEFROST PANEL
- [ ] 230V Control (Shipped Loose)
- [ ] 115V Control (Shipped Loose)

INSTALLATION REQUIREMENTS
- [1] Minimum slope of 1" per foot on all drain lines
- [1] P-trap per evap required outside of box
- [1] Insulated drain line requires heat - 20W/ft

USED WITH MECHANICAL SUBCOOLER
- [ ] Circuit for sub-cooled Liquid - note temperature

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

APPROVALS

APPROVED BY :	DATE :

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PURCHASER:	SUBMITTED BY:
PROJECT: Wylie Elementary	DATE: 11/22/2023
ORDER #: -A00	ITEM #: 0
QUOTE #:	ID #:
PURCHASER'S PO#:	TAGGING:

SELECTED OPTION DESCRIPTIONS

Pre-assembled Evap, SmartVap+ with EEV + Solvlv
Electronic evaporator control complete with EEV, controller, digital display and solenoid valve

Electronic Controller, SmartVap+ Control Board and Display (Factory Installed)

Expansion Valve, EEV for SmartVap+

Liquid Line Solenoid Valve, Sporlan (Factory Installed)
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.

Installation Requirements, Minimum slope of 1" per foot on all drain lines
Bally recommends a minimum slope of 1" per foot on all drain lines.

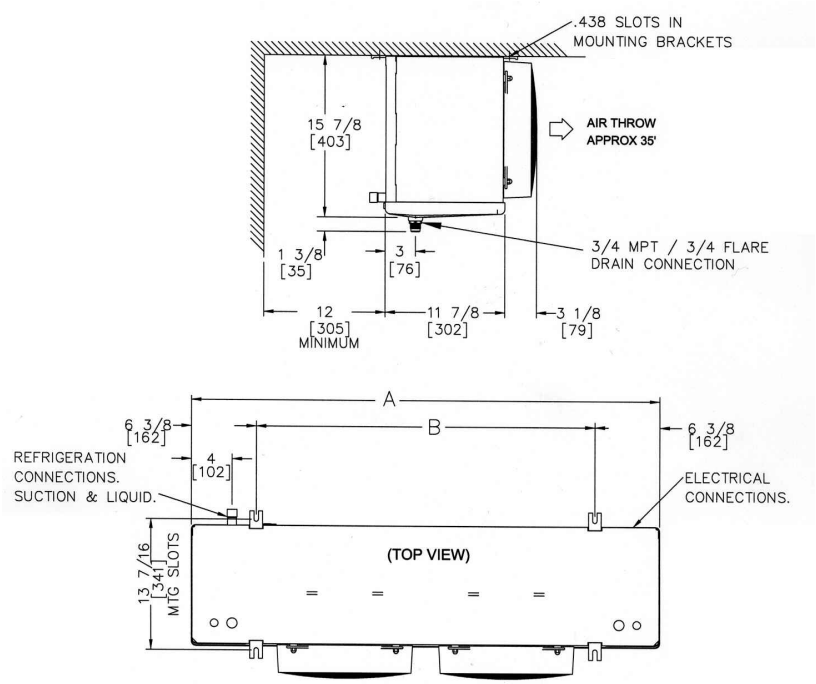
Installation Requirements, P-trap per evap required outside of box
All evaporators must be trapped individually outside of the box to prevent vapor migration back to coil surface.

Installation Requirements, Insulated drain line requires heat - 20W/ft
Freezer condensate drain lines must be insulated and heated with a minimum of 20 watts per foot.

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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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	84 lb
DIMENSION B	33 1/4 in	DIMENSION F		SUCTION	7/8 in	HOT GAS SIDE PORT		REFRIGERANT CHARGE	3 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
208-230/1/60	R448A	1,360 CFM	-20 °F	-10 °F	11,330 BTUH

Fans			HEATERS			CIRCUIT TOTAL			
QTY	Power	FLA/FAN	Type	QTY	AMPS	AMPS	WATTS	MCA†	MOP‡
2	0.07 HP	0.6				1.2	120.0	1.4	15
			DEFROST HTRS		8.2		1890.0	10.3	15

DISTRIBUTOR	3/8 in	SOUND		REC CAPACITY		APPROVALS:	
SUCTION	7/8 in	WEIGHT	84 lb	REF CHARGE	3 lb		

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

APPROVED BY : DATE :

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WYLIE ELEMENTARY COMBO FREEZER

Prepared By	Prepared For

COOLING REQUIREMENTS

Application Title	Location	Interior Temperature	External Temperature	Internal RH	External RH
General Walk-in Freezer	Indoor	-10 ˚F	95 ˚F	95%	55%

Wall Load 33%	Infiltration Load 47%	Product Load 2%	Miscellaneous Load 18%
1,640 BTUH	2,320 BTUH	112 BTUH	892 BTUH

WALL, FLOOR AND CEILING LOADS

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	235
Right End	Urethane, Standard panels	4	0.14	28.57	45	9.75	8	78	150
Front	Urethane, Standard panels	4	0.14	28.57	95	8	8	45	164
	Door			15	95	3	6.5	20	135
Left End	Urethane, Standard panels	4	0.14	28.57	95	9.75	8	78	287
Floor	Composite :- Insulated Floor - Panels On Concrete	10	0.31	32.32		8	9.75	78	383
Ceiling	Urethane, Standard panels	4	0.14	28.57	95	8	9.75	78	287
	Volume (ft³)	624						TOTAL WALL, FLOOR AND CEILING LOAD	1,640

INFILTRATION LOAD : ESTIMATED BY DOORS AND OPENINGS

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	2,320
							TOTAL INFILTRATION LOAD ESTIMATED BY DOORS AND OPENINGS	2,320

PRODUCT LOADS

Type	Weight (lb)	Enter Temp (˚F)	Final Temperature (˚F)	Pull Down (hrs)	Load (BTUH)
General, Mixed Products, Approximation	624	0	-10	24	112
TOTAL PRODUCT LOAD (lb)				Total Product Load	112

MISCELLANEOUS LOADS

Quantity	Description	Power	Units	Run Time (hrs)	Load (BTUH)
	LIGHTING	1	W/ft²	24	266
2	EVAPORATOR MOTORS	100	W	22	626
				TOTAL MISCELLANEOUS LOAD	892

SYSTEM DESIGN SUMMARY

Design Load (BTUH)	Safety Factor	Safety Load (BTUH)	Run Time (Hours)	Capacity Required (BTUH)	Refrigerant	Line Frequency (Hz)	Design TD (˚F)	Line Loss (˚F)
4,964	10%	5,460	18	7,280	R448A	60	10	0.5

SYSTEM EQUIPMENT SELECTION

Equipment Type	Quantity	Model Number	Description	Voltage	RATING (BTUH)
Condensing Units-Air	1	BEZA025L8-HT3D	EZ-Line Scroll|Condensing Units-Air	208-230/3/60	8,798
Evaporator	1	BLP211LE-S2D	Low Profile|Evaporator	208-230/1/60	11,330

SYSTEM BALANCE

Condenser Ambient (˚F)	Suction Temp (˚F)	Evaporator TD (˚F)	System Capacity (BTUH)
95	-18.6	8.1	9,212

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STANDARD FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Adjustable pressure fan cycling control on 2 fan models only
- Anti-short cycle time delay
- Copper tubing secured with cushion clamps
- Crankcase heater
- Discharge line temperature sensor
- Fan Guard
- Fan motors are inherently protected with internal overloads
- Pre-formed piping
- Receiver with fusible plug and liquid shut off valve
- Suction Service valve
- Adjustable flooded head pressure control (unless otherwise indicated)
- Units are shipped with Helium holding charge
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Welded hermetic Scroll compressor
- Adjustable low pressure control with flex hose / fixed high pressure control
- High efficiency enhanced copper tube and aluminium fin coil design
- Compatible with Low GWP Refrigerants
- Outdoor weatherproof pre-painted steel cabinet

MODEL OPTIONS

OPTION PACKAGES
- [1] Small B (Good@Warm/Moderate)
- [ ] Small N (Better@Warm/Moderate)
- [ ] Small P (Best@Warm/Moderate)
- [ ] Small D (Good@Moderate/Cold)
- [ ] Small J (Better@Moderate/Cold)
- [ ] Small Q (Best@Moderate/Cold)
- [ ] Small K
- [ ] Small H

[ ] 115V Control Circuit

ADJUSTABLE PRESSURE CONTROLS
- [ ] Johnson Dual with flex hose
- [ ] Separate High/Low
- [ ] Separate High/Low: MAN Reset on HP

BALL VALVE
- [ ] Liquid Line (Shipped Loose)
- [ ] Liquid Line (Factory Installed)
- [ ] Suction Line (Shipped Loose)
- [ ] Suction Line (Factory Installed)

CAPACITY CONTROL - HOT GAS BYPASS
- [ ] To Inlet of Evaporator
- [ ] To Suction Line

[ ] Compressor Circuit Breaker

CONDENSING UNIT PRISON PACKAGE
- [ ] Tamper Proof Screws

[ ] Crankcase Pressure Regulator

CONTACTORS
- [ ] 30A Contactor
- [ ] 40A Contactor
- [ ] 60A Contactor

DEFROST KIT (USE W/KE2 EVAP EFF)
- [ ] Up to 30A per Evap
- [ ] 35A to 50A per Evap
- [ ] Over 50A per Evap

[ ] Discharge Air Hood

[ ] Discharge Line Check Valve

[ ] Discharge Line Temperature Sensor

DISCONNECT SWITCH
- [ ] Fused
- [ ] Non-Fused

EC FAN MOTORS + SPEED CONTROLLER
- [ ] SmartSpeed

ELECTRONIC PRESSURE CONTROL
- [ ] Low Pressure Control
- [ ] High Pressure Control

[ ] Export Crating

EXTENDED 4-YEAR COMPRESSOR WARRANTY
- [ ] Copeland

[ ] Extended Leg Kit

COIL COATING
- [ ] E-Coat

FIN MATERIAL
- [ ] Gold Coat Fins
- [ ] Copper Fins

[ ] Hail Guard for Condenser

[ ] Heated and Insulated Receiver

HOUSING MATERIAL
- [ ] Stainless Steel

[ ] Insulated Suction Line

LIQUID LINE FILTER + SIGHT GLASS
- [1] Sealed
- [ ] Replaceable

[ ] Liquid Line Lock-Out Relay

LIQUID LINE SOLENOID VALVE
- [ ] Standard 230V Coil (Shipped Loose)
- [ ] Standard 115V Coil (Shipped Loose)

OIL SEPARATOR
- [ ] With Oil Filter and Solenoid

[ ] One Time Pump Down

[ ] Oversized Receiver

PHASE / VOLTAGE MONITOR
- [ ] 3-Lead
- [ ] 6-Lead (MotorSaver455)

[ ] Pump Down Toggle Switch

[ ] QuickVac Valves

[ ] Receiver Inlet Ball Valve

[ ] Single Point Electrical

[ ] Sub Cooling Circuit

SUCTION ACCUMULATOR
- [ ] With Heat Exchanger
- [ ] Without Heat Exchanger

SUCTION FILTER
- [ ] Sealed Type
- [ ] Replaceable Core

TIME CLOCK
- [ ] Paragon 8145 Style (Factory Installed)
- [ ] 230V Paragon 8145 Style (Shipped Loose)
- [ ] 115V Paragon 8145 Style (Shipped Loose)

[ ] Wind Guard

[ ] Less Flooding Valve(s)

Notes: † MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection
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AWEF = 3.15 for R404A/R507/407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants

APPROVALS

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DATE :

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PROJECT: Wylie Elementary	DATE: 11/22/2023
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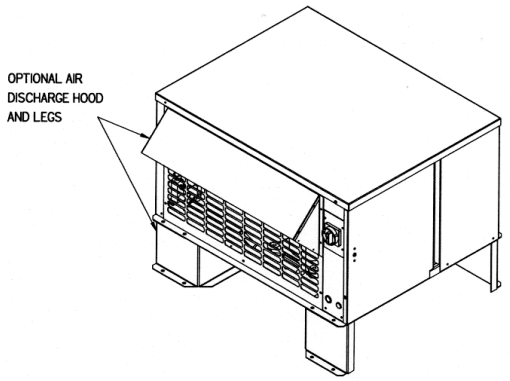
SELECTED OPTION DESCRIPTIONS

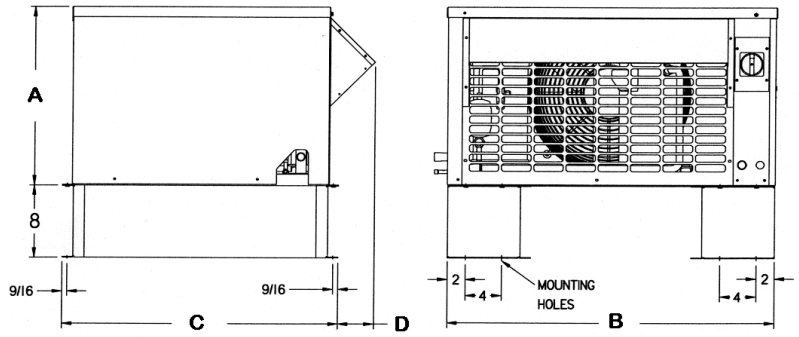
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DIMENSIONS				FIELD CONNECTIONS				OTHER	
DIMENSION A	19 7/8 in	DIMENSION E		LIQUID	3/8 in	PAN LOOP		SHIPPING WEIGHT	335 lb
DIMENSION B	36 3/8 in	DIMENSION F		SUCTION	7/8 in	HOT GAS SIDE PORT		REFRIGERANT CHARGE	6 lb
DIMENSION C	30 3/8 in	DIMENSION G		DRAIN		HOT GAS INLET		RECEIVER CAPACITY	14 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	-20.5 °F	95 °F	8,798 BTUH

Fans			COMPRESSOR				CIRCUIT TOTAL			
QTY	Power	FLA/FAN	Type	QTY	RLA	LRA	AMPS	WATTS	MCA†	MOP‡
1	240	1.1	ZF08K4E-TF5	1	9.6	63.0	10.7		13.1	20

LIQUID	3/8 in	SOUND		REC CAPACITY	14 lb	APPROVALS:	
SUCTION	7/8 in	WEIGHT	335 lb	REF CHARGE	6 lb		

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 = 3.15 for R404A/R507/407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants

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QUOTE #:	ID #:
PURCHASER'S PO#:	TAGGING:

STANDARD FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Factory installed solenoid valve wire harness
- Heavy gauge textured aluminum cabinet construction resists scratches/corrosion
- Spacious piping end compartment allows for easy assembly
- Hinged drain pan with central universal drain connection (3/4" drain)
- Front access to spacious electrical and header compartments
- Schrader connection on suction header
- Attractive and durable high density polyethylene fan guards
- Ultra efficient Electronically Commutated Motor (ECM)
- ECM with SmartSpeed Technology
- High efficiency enhanced copper tube and aluminium fin coil design
- 6 FPI
- Unit Cooler is DOE/NRCAN compliant with R404A/R507/R448A/R449A/R407A

MODEL OPTIONS

PRE-ASSEMBLED EVAP
- [1] SmartVap+ with EEV + Solvlv
- [ ] Sporlan TXV, LLSV,T-stat
- [ ] KE2 Evap Efficiency w/Sporlan TXV (Factory Installed)
- [ ] KE2 Evap Efficiency w/Sporlan EEV (Factory Installed)
- [ ] KE2 Evap Efficiency w/Sporlan TXV (Shipped Loose)
- [ ] KE2 Evap Efficiency w/Sporlan EEV (Shipped Loose)
- [ ] Aux Sideport Connector

CABINET FINISH
- [ ] Painted White
- [ ] Stainless Steel

SENSORS FOR CPC BOARDS
- [ ] Coil Temp Sensor
- [ ] Return Air Temp Sensor

DEMAND DEFROST ELECTRONIC CONTROLLER
- [ ] KE2 Adaptive Control (Factory Installed)
- [ ] KE2 Adaptive Control (Shipped Loose)
- [ ] KE2 Therm Evaporator Efficiency (Factory Installed)
- [ ] KE2 Therm Evaporator Efficiency (Shipped Loose)
- [ ] Dual Circuit

ELECTRONIC CONTROLLER
- [1] SmartVap+ Control Board and Display (Factory Installed)

EXPANSION VALVE
- [ ] Sporlan TXV
- [ ] Sporlan EEV
- [1] EEV for SmartVap+

EVAPORATOR PRISON PACKAGE
- [ ] Tamper Proof Screws
- [ ] Export Crating

COIL COATING
- [ ] E-Coat

FIN MATERIAL
- [ ] Gold Coat Fins
- [ ] Copper Fins
- [ ] Insulated Drain Pan

KE2 THERM
- [ ] CAT5e Shielded Cable - 50ft w/connectors (Shipped Loose)
- [ ] Temp Sensors for Shipped Loose Controller
- [ ] Ethernet Adapter Kit
- [ ] Remote Combo Display (Shipped Loose)

LIQUID / SUCTION HEAT EXCHANGER
- [ ] (Shipped Loose)

LIQUID LINE SOLENOID VALVE
- [1] Sporlan (Factory Installed)
- [ ] Dual Voltage Coil 120-230V Field Wired
- [ ] Nitrogen Charged and Sealed

ROOM THERMOSTATS
- [ ] Mechanical (Factory Installed)
- [ ] Mechanical (Shipped Loose)
- [ ] Johnson A19ABC (Shipped Loose)
- [ ] Johnson A421ABC-02C (Shipped Loose)
- [ ] Johnson A421ABC-02 (Factory Installed)
- [ ] Wire Fan Guards

REMOTE DEFROST PANEL
- [ ] 230V Control (Shipped Loose)
- [ ] 115V Control (Shipped Loose)

INSTALLATION REQUIREMENTS
- [1] Minimum slope of 1" per foot on all drain lines
- [1] P-trap per evap required outside of box
- [1] Insulated drain line requires heat - 20W/ft

USED WITH MECHANICAL SUBCOOLER
- [ ] Circuit for sub-cooled Liquid - note temperature

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

APPROVALS

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PURCHASER:	SUBMITTED BY:
PROJECT: Wylie Elementary	DATE: 11/22/2023
ORDER #: -A00	ITEM #: 0
QUOTE #:	ID #:
PURCHASER'S PO#:	TAGGING:

SELECTED OPTION DESCRIPTIONS

Pre-assembled Evap, SmartVap+ with EEV + Solvlv
Electronic evaporator control complete with EEV, controller, digital display and solenoid valve

Electronic Controller, SmartVap+ Control Board and Display (Factory Installed)

Expansion Valve, EEV for SmartVap+

Liquid Line Solenoid Valve, Sporlan (Factory Installed)
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.

Installation Requirements, Minimum slope of 1" per foot on all drain lines
Bally recommends a minimum slope of 1" per foot on all drain lines.

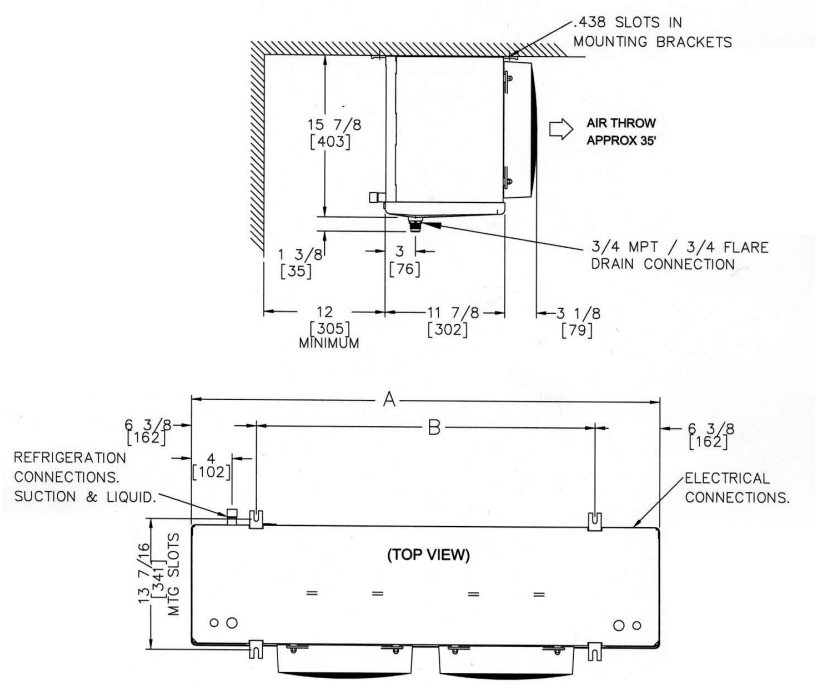
Installation Requirements, P-trap per evap required outside of box
All evaporators must be trapped individually outside of the box to prevent vapor migration back to coil surface.

Installation Requirements, Insulated drain line requires heat - 20W/ft
Freezer condensate drain lines must be insulated and heated with a minimum of 20 watts per foot.

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.

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	84 lb
DIMENSION B	33 1/4 in	DIMENSION F		SUCTION	7/8 in	HOT GAS SIDE PORT		REFRIGERANT CHARGE	3 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
208-230/1/60	R448A	1,360 CFM	-20 °F	-10 °F	11,330 BTUH

Fans			HEATERS			CIRCUIT TOTAL			
QTY	Power	FLA/FAN	Type	QTY	AMPS	AMPS	WATTS	MCA†	MOP‡
2	0.07 HP	0.6				1.2	120.0	1.4	15
			DEFROST HTRS		8.2		1890.0	10.3	15

DISTRIBUTOR	3/8 in	SOUND		REC CAPACITY		APPROVALS:	
SUCTION	7/8 in	WEIGHT	84 lb	REF CHARGE	3 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.