



**BMIL Technologies, LLC.**

# **DEHUMIDIFICATION SUBMITTAL**



## (3) Dry Zone DZ-2000

### Desiccant Dehumidifier

#### ADVANTAGES

- **Simple Installation**
  - Hang the unit
  - Connect power
  - Connect a drain line
  - No ducting required!
- **Reduce humidity in the space without adding significant heat**
- **Eliminate frost formation and condensation**

The DZ-2000 is a desiccant dehumidifier that is used to reduce humidity in spaces maintained from 20°F to 55°F. Maintaining a lower humidity level prevents mold and mildew growth, frost formation, condensation drips, and increases shelf-life of the product. The DZ-2000 operates on a patent pending desiccant dehumidification technology. This innovative new design can be installed directly in the space, eliminating the need for duct work. Other cold room dehumidifiers require two large holes in the cold room walls, which result in wasted energy and increased humidity levels due to air leakage.

The regeneration air stream is a completely closed loop cycle. The only byproducts are water vapor from the space that is condensed on the cooling coil and drained away; and



an insignificant amount of heat that can easily be removed by the existing cooling equipment. Other cold room dehumidifiers add excessive heat to the cold room requiring post cooling, resulting in an increase in refrigeration horsepower of 25% to 100%. The DZ-2000 cold room dehumidifier does not require post cooling refrigeration and minimizes energy consumption through the use of EC motors, a digital scroll compressor and air-to-air energy recovery. This patent pending design has 50% more dehumidification capacity with 50% less energy consumption than other similar cold room dehumidification equipment.

# Dry Zone DZ-2000 Desiccant Dehumidifier

In cold room applications from 20°F to 55°F the DZ-2000 can eliminate the need for defrost cycles which saves energy, reduces temperature fluctuations, protects product integrity, and increases perishable product shelf life.

### Construction Features:

- 2" foam-injected double wall panels
- Aluminum interior and exterior walls
- Removable panels for easy component access and minimal clearance requirements

### Process Air Components

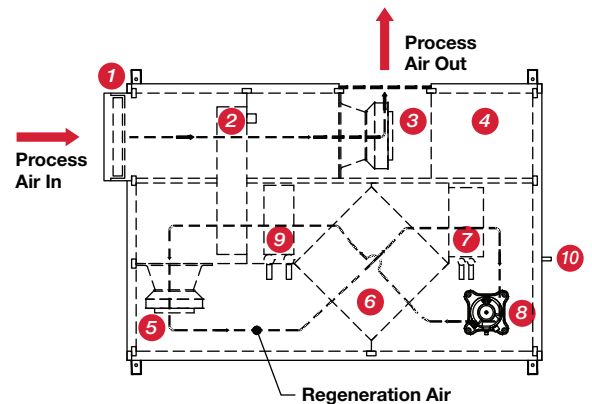
- 2" MERV 8 front access filter rack
- Desiccant wheel
- High efficiency EC motor impeller process air fan

### Regeneration Air Components

- Desiccant wheel
- High efficiency EC motor impeller regeneration air fan
- Aluminum air-to-air flat plate heat exchanger
- Fully intertwined DX coil with stainless steel drain pan
- Full capacity condenser coil
- Digital scroll compressor to match dehumidification load

### Controls

- DDC controller with remote user terminal
- RA temperature and humidity sensors included (used to calculate space dew point)
- BMS connectivity
- ETL listed



- 1 Process Air Filter
- 2 Desiccant Wheel
- 3 Process Air Fan
- 4 Controls Section
- 5 Regeneration Fan
- 6 Air-to-Air Heat Exchanger
- 7 DX Coil
- 8 Compressor
- 9 Condenser Coil
- 10 Condensate Drain

DZ-2000 Sizing Chart													
APPLICATION	Cold Room									Cold Room & Ice Rink			
Cold Room Space Temperature	20 F			30 F			40 F			50 F			
Cold Room Space Humidity	90% RH	70% RH	50% RH	90% RH	70% RH	50% RH	90% RH	70% RH	50% RH	90% RH	65% RH	56% RH	50% RH
Maximum Capacity (lbs/hr)	8.9	6.6	4.2	12.5	9.5	6.4	15.0	11.6	8.0	15.0	9.3	8.6	7.2
Process Leaving Air Temp/Dew Point (F)	27 / 2.5	25.7 / -1.4	24.3 / -6.1	38.8 / 14.6	37.2 / 9.6	35.4 / 3.7	50.2 / 26.4	48.2 / 21.1	46.2 / 14.4	59.8 / 40	57.2 / 32.8	56.2 / 28.4	55.5 / 26.3
Unit Voltage / Phase / FLA / MCA	208V / 3P / 25.5 / 28.4						230V / 3P / 24.1 / 27.0			460V / 3P / 9.2 / 10.8			
Unit Dimensions and Weight	90" long x 60" wide x 34" high									970 pounds			



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(Manufactured by Innovent, LLC)

**Issue 1**  
**Job #: 7676593**

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### Section 1 / Engineering Data

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ETL Listing Report

*ANSI/ U.L. 1995: Heating and Cooling Equipment*

Standard Warranty

### Section 2 / Components Provided By Others

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**DZ-2000-DT-460 Units Only**

- Process air inlet duct work and process air outlet duct work
- Process air filter

**CASING PERFORMANCE:**

- Leakage class rating of 5.0 at 8" total static pressure
- Maximum panel deflection shall not exceed L/250 at 8" total static pressure
- Minimum R-value of 6 per inch for the walls, roof and floor
- The panel insertion loss, per octave band, shall not be less than the following:

Frequency:	<u>100</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	<u>8000</u>
Insertion loss, dB:	24	16	30	32	33	34	63	60

**CASING MATERIALS:**

- Standard & Ducted Units
  - Indoor construction
  - 0.080" aluminum frame
  - 2" double wall casing panels (minimum R-value = 12)
  - 0.040" aluminum outer wall
  - 0.040" aluminum inner wall
  - 2" double wall floor panels
  - 0.063" aluminum inner floor
  - 0.040" aluminum outer floor
  - Aluminum bird screen for process air outlet

# Specification



(Manufactured by Innovent, LLC)

## CASING ACCESS:

- Double wall casing access panels insulated with 2 pcf polyurethane foam as noted on unit drawing.

## Process Air Components:

### FILTERS:

- Standard Unit
  - 2" pleated MERV 8 filter
  - Front access
  - Aluminum rack
- Ducted Unit
  - Process air filter rack and filters must be provided by others and installed by others for ducted DZ-2000 arrangement. Recommend a minimum MERV 8, 2" pleated filter at a maximum 500FPM face velocity located upstream of the DZ-2000 process air inlet.

### DESICCANT DEHUMIDIFICATION WHEEL:

- Corrugated fiberglass with a formed silica gel desiccant
- Heavy gage 304 stainless steel casing
- Twin contact Viton seals
- Drive system with continuous perimeter sprocket and drive motor

### PROCESS FAN & MOTOR:

- Backward curved plenum fan
- 6 blade profiled composite wheel
- Galvanized sheet steel frame
- Fan statically and dynamically balanced within 0.11 in/sec peak velocity
- Direct drive
- Electronically commutated (EC) motor
- Premium efficient
- Integrated variable speed motor controller

## Regeneration Air Components:

### AIR TO AIR HEAT EXCHANGER:

- Cross flow flat plate type.
  - 8 mil smooth aluminum plates separated by formed ribs
  - Aluminum framing & end plates
  - 201 stainless steel drain pan under heat exchanger (drains into cooling coil pan)

### REGENERATION AIR FAN & MOTOR:

- Backward curved plenum fan
- 6 blade profiled composite wheel
- Galvanized sheet steel frame
- Fan statically and dynamically balanced within 0.11 in/sec peak velocity
- Direct drive
- Electronically commutated (EC) motor
- Premium efficient
- Integrated variable speed motor controller

# Specification



(Manufactured by Innovent, LLC)

## DEHUMIDIFICATION/COOLING:

- Integral air cooled refrigeration system
- DX coil rated in accordance with AHRI 410-2001
  - 201 Stainless steel drain pan
  - .016" thick copper tubes
  - .006" thick aluminum fins
  - 16 ga. galvanized frame
- Single digital scroll compressor
- Condenser coil with copper tubes and aluminum fins
- Refrigerant circuit tested, dehydrated and charged with refrigerant
- Refrigeration high and low pressure tap fittings on exterior of casing

## ELECTRICAL:

- Single point 3-phase power connection with unit mounted disconnect
- All wires terminated at the unit mounted NEMA 3R panel
- Unit is ETL listed per UL standard 1995 and CSA standard C22.2 #236
- **Electrical Accessories:**
- Standard & Ducted Units
  - Phase loss protection
  - Unit On/Off Switch, green "on" lamp, and red "alarm" lamp mounted on the front of the control panel.

## CONTROLS:

- Stand alone DDC controller with Remote User Terminal provided by the manufacturer.
  - DDC controller shall be factory programmed per the sequence of operation.
  - Remote User Terminal shall be factory mounted in the control panel and pre-wired to a prefabricated 50 foot cord on standard units.
    - Note: Remote user terminal can be field mounted (by others) up to 50 feet away from unit using the factory supplied prefabricated 50 foot cord.
  - Room temperature and humidity sensor shall be factory mounted in the process air inlet section.
    - Note: Room temperature and humidity sensor can be field mounted (by others) in the space.

## WARRANTIES:

- 1 year parts only warranty for the entire unit. The warranty period will start on the date of original equipment installation or 6 months from the date of shipment from the factory, whichever occurs first.

## MISCELLANEOUS:

- Unit shall be packaged with shrink wrap over top and sides (open to bottom) and installed into a stackable wooden crate.
- Units shall be secured to the wooden crate using lag bolts to ensure there is no shifting of the unit inside the crate during shipping.
- Each crate shall be labeled with the following
  - Ship date
  - Model #
  - Voltage

# Sequence of Operation



(Manufactured by Innovent, LLC)

## SEQUENCE OF OPERATION

*The sequence of operation displayed below is Innovent's interpretation of what is required for this project. This is subject to review by controls contractor. Innovent will not be responsible for any costs associated with modification of this sequence after the equipment has shipped.*

### STAND ALONE DDC CONTROLLER.

- Provided with required sensors.
- Factory programmed, mounted, and tested.
- Remote User Terminal with LCD readout for changing set points and monitoring unit operation.

### UNIT CONTROL AND MONITOR POINTS.

#### Set Points

Process air inlet dew point temperature (room dew point temperature)

#### Analog Inputs

Process air inlet temperature (room temperature)

Process air inlet relative humidity (room relative humidity)

Process air inlet dew point temperature (calculated from process air inlet temperature and relative humidity)

Cooling coil discharge air temperature

Condenser coil discharge air temperature (calculated set point range 95F – 125F)

Refrigeration system suction pressure

Refrigeration system liquid pressure

#### Digital Inputs

Unit "On/Off" switch (located on the front of the control panel)

#### Analog Outputs

Digital scroll compressor (auto control through DDC controller)

Process air fan speed (manual factory set point)

Regeneration air fan speed (auto control through DDC controller)

#### Digital Outputs

Green "On" lamp (located on the front of the control panel)

Red "Alarm" lamp (located on the front of the control panel)

**SEQUENCE OF OPERATION.** The Stand-alone DDC controller shall perform the following control sequence.

**UNIT START COMMAND – Disconnect switch in "On" position, On/Off switch in "On" position.**

- Dehumidification operation per below.
- Process fan is energized at factory preset speed – 84%.

**UNIT STOP COMMAND – Disconnect switch in "Off" position or On/Off switch in "Off" position.**

- Fans, desiccant wheel, and compressors are de-energized

**DEHUMIDIFICATION SET POINT.**

- The DDC controller shall energize the dehumidifier when the process air inlet dew point (room dew point) increases above the set point plus a dead band (factory set point = 20F dew point temperature + 2F dead band; adjustable at the Remote User Terminal).

# Sequence of Operation



(Manufactured by Innovent, LLC)

## DEHUMIDIFICATION MODE:

- On a call for dehumidification, the DDC controller shall energize the dehumidification mode:
  - **Regeneration warm up;** Regeneration fan on at a constant factory preset speed of 62% and compressor comes on at minimum and begins to modulate per below:
    - Compressor capacity shall be modulated up to maximum capacity per **Compressor Modulation** below.
    - Regeneration fan speed shall be modulated per **SUCTION LINE PRESSURE HIGH AND LOW LIMIT FUNCTION** below.
    - Once the condenser coil discharge air temperature reaches 95F, the desiccant wheel shall be energized.
  - **Compressor Modulation.** The compressor modulation shall be controlled based on the regeneration condenser coil discharge air temperature (regeneration air inlet temperature to the desiccant wheel). This condenser temperature set point will be reset based on the process air inlet dew point temperature (room dew point).
    - The condenser coil discharge air temperature set point shall be reset downwards (minimum 95F) in response to a decrease in process air inlet dew point temperature (room dew point) from set point and upwards (maximum 125F) in response to an increase in process air inlet dew point temperature (room dew point).
    - Compressor capacity shall be modulated, and cycled, to maintain the condenser leaving temperature set point. In this way, the compressor capacity modulates to match the dehumidification load in the space.
    - There shall be a minimum on/off time to prevent short cycling of the dehumidification mode (240sec, adjustable).

**SUCTION LINE PRESSURE / LOW LIMIT FUNCTION.** When the suction pressure drops below 95psi the compressor capacity command will be reduced and the regeneration fan air flow will be increased. The compressor capacity command is reduced from its current command down to a minimum of 15% output, as the suction pressure drops from 95 psi (29F) to 85psi (24F). The regeneration fan speed command is increased from its current command up to a maximum of 100% in step increments, until the suction pressure is above the low limit of 95psi. Function: Prevent low refrigeration pressure trips and prevent operation outside the operating envelope of the compressor.

**NOTE:** Unit fans and desiccant wheel keep running regardless of low suction pressure conditions. When suction drops below 25psi, the low pressure switch alarms and lights the red lamp and cycles the compressor off. When the suction pressure rises above 50psi, the low pressure alarm will be auto-reset after a 600 second delay. After the delay, the compressor will be allowed to restart, per the above dehumidification sequence.

**COLD ROOM START-UP:** If the room temperature is 30F (adj) or below, the low pressure switch, detailed above, is ignored for 600 seconds. This time delay keeps the red light off and allows the compressor to remain running until condenser heat is built-up.

**SUCTION LINE PRESSURE / HIGH LIMIT FUNCTION.** When the suction pressure increases above 170psi the compressor capacity command will be reduced and the regeneration air flow will be reduced. The compressor capacity command is reduced from its current command down to a minimum of 25% as the suction pressure increases from 170 (60F) to 180psi (63F). The regeneration fan air flow command is decreased from its current command down to a minimum of 45% in step increments until the suction pressure is below the limit of 170psi. Function: Prevent compressor operation outside the compressor operating limit.

**NOTE:** Unit keeps running regardless of suction high pressure conditions.

## Sequence of Operation



(Manufactured by Innovent, LLC)

**LIQUID LINE PRESSURE / HIGH LIMIT FUNCTION.** When the liquid line pressure rises above 475psi the compressor capacity command will be reduced. The capacity command is reduced from its current command down to a minimum of 25% as the liquid line pressure rises from 475 (130F) to 550psi (145F).

**NOTE:** Unit fans and desiccant wheel keep running regardless of high discharge pressure conditions. When the liquid line pressure rises above 575psi, the high pressure switch alarms and lights the red lamp and cycles the compressor off. When the liquid line pressure drops below 550psi, the high pressure alarm will be auto-reset after a 600 second delay. After the delay, the compressor will be allowed to restart, per the above dehumidification sequence.

**REFRIGERATION PRESSURE HIGH AND LOW LIMITS ALARMS.** Per the above, if the refrigeration system high and low pressure limits are exceeded, the DDC controller shall signal an alarm condition, turn on the red "alarm" lamp and cycle the compressor off. The unit fans and desiccant wheel continue to run.

**PHASE LOSS ALARM.** If the phase loss protector indicates loss of phase the entire unit shall be de-energized and the DDC controller shall signal an alarm condition and turn on the red "alarm" lamp. The unit shall automatically restart when phase loss alarm has reset.

**ALARM INDICATION.** Alarm indications are indicated by the red "alarm" lamp on the front of the control panel. All alarms shall be viewable from the Remote User Terminal.

## BMIL PERFORMANCE DATA SUMMARY

**TAG:** Spot Dehumidifier: DZ-2000

**ELEVATION:**

**0 FT**

DEHUMIDIFICATION CAPACITY							
PROCESS CFM	EAT (°F)	MOISTURE (%RH)	Process LAT (°F)	Process LAT Dew Point F	REACTIVATION CFM	Compressor Capacity (%)	Dehumidification Capacity (lbs/hr)
<b>20F Cold Room Capacity</b>							
2,000	20.0	90%	27.0	2.5	1,000	90.0	8.9
2,000	20.0	70%	25.7	-1.4	1,000	90.0	6.6
2,000	20.0	50%	24.3	-6.1	1,000	90.0	4.1
<b>30F Cold Room Capacity</b>							
2,000	30.0	90%	38.8	14.6	1,000	75.0	12.5
2,000	30.0	70%	37.2	9.6	1,000	75.0	9.6
2,000	30.0	50%	35.4	3.7	1,000	75.0	6.5
<b>40F Cold Room Capacity</b>							
2,000	40.0	90%	50.2	26.4	1,000	65.0	15
2,000	40.0	70%	48.2	21.1	1,000	65.0	11.6
2,000	40.0	50%	46.2	14.4	1,000	65.0	8.0
<b>50F Cold Room and Ice Rink* Capacity</b>							
2,000	50.0	90%	61.2	40.0	1,000	50.0	15.8
		70%	60.2		1,000	50.0	12.1
2,000	50.0	65%*	58.2	32.8	1,000	50.0	11.1
		56%*	57.7	28.4	1,000	50.0	9.1
2,000	50.0	50%	56.6	26.3	1,000	50.0	7.8
<b>Terminal Unit Capacity</b>							
2,000	20.0	100%	27.7	5.2	1,000	90.0	10.1
2,000	25.0	100%	33.7	10.2	1,000	82.0	12.1
2,000	30.0	100%	39.7	17.4	1,000	75.0	14.0
2,000	35.0	100%	45.4	22.9	1,000	70.0	15.3
2,000	40.0	100%	51.1	29.2	1,000	65.0	16.7
2,000	45.0	100%	56.2	35.9	1,000	58.0	17.0
2,000	50.0	100%	61.2	42.1	1,000	50.0	17.5
2,000	55.0	100%	65.0	49.2	1,000	47.0	15.7

## BMIL PERFORMANCE DATA SUMMARY

**TAG:** Spot Dehumidifier: DZ-2000 (460 V/3P)

**ELEVATION:**

**0 FT**

FAN/MOTOR ASSEMBLY:					PROCESS AIR	
CFM	SIZE	TSP ("WC)	RPM	BHP	MOTOR HP	
2,000	12.5"	1.70	2,638	1.14	1.5	
ESP *		0.00	HX (D. WHEEL) 1.10	FILTER 0.45	PLENUM 0.15	
					TSP:	1.70 "WC

\* ESP = 0 reflects unducted process air inlet and discharge. For ducted arrangements contact the factory.

**ELEVATION:**

**0 FT**

FAN/MOTOR ASSEMBLY:					REACTIVATION AIR	
CFM	SIZE	TSP ("WC)	RPM	BHP	MOTOR HP	
1,000	12.5"	2.03	2,190	0.67	1.5	
ESP *		0.00	HX (PLATE-PC) 0.25	COND COIL 0.27	PLENUM 0.22	
HX (D. WHEEL) 0.48		HX (PLATE-RH) 0.24	DX COIL 0.57			
					TSP:	2.03 "WC

\* ESP = 0 reflects closed loop reactivation fan system.

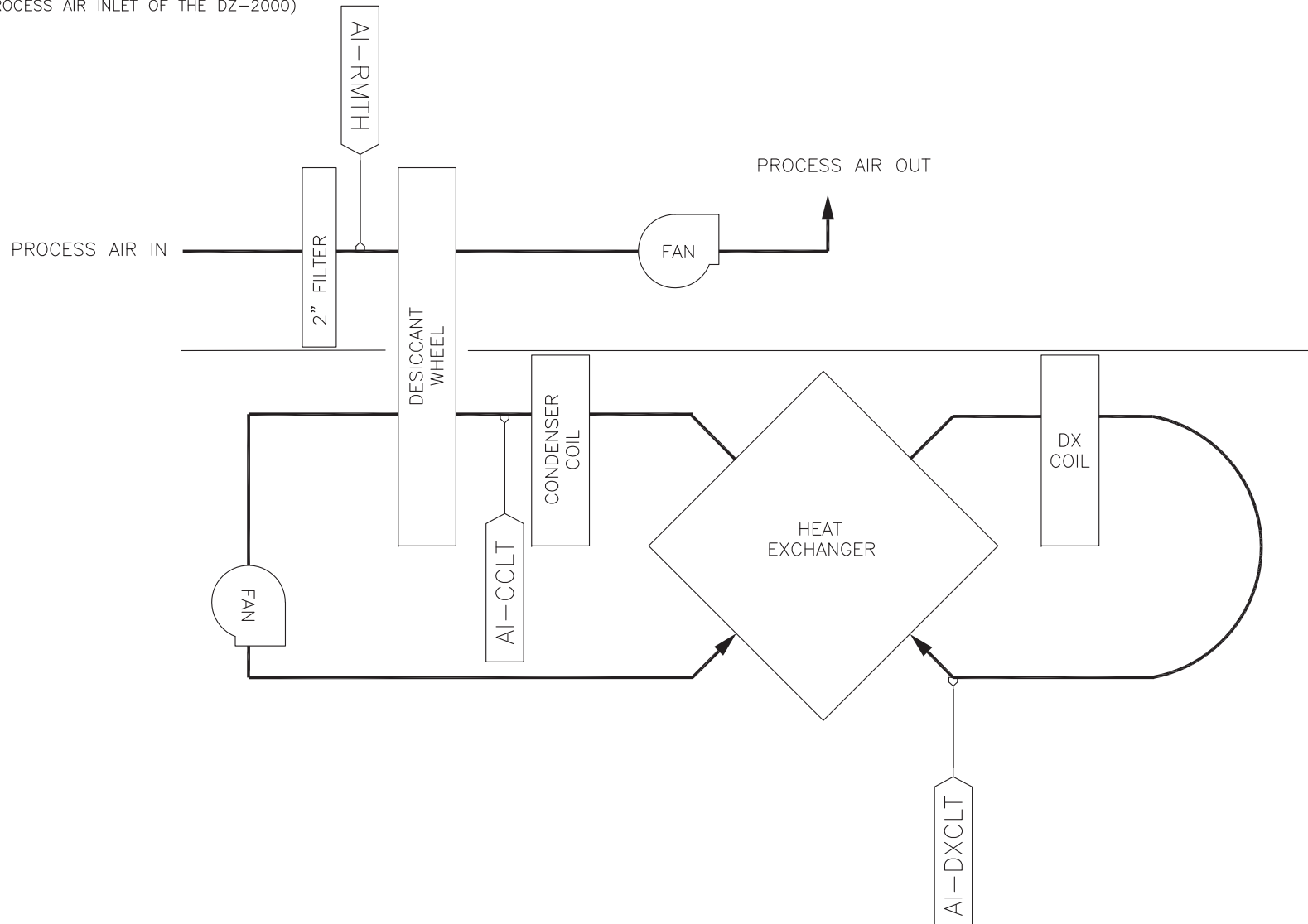
CLOSED LOOP REFRIGERATION CIRCUIT:					REACTIVATION AIR			
DX COIL		CONDENSER COIL		A-A HEAT EXCHANGER	REFRIGERATION SYSTEM			
CFM	FPM	CFM	FPM	Efficiency	Circuits	Nominal Tons	Refrigerant	EER
1,000	462	1,000	462	64%	1 (Modulating)	2.83	R410A	13.8


ELECTRICAL INFORMATION:								SINGLE POINT POWER	
COMPONENT	VOLTS	PHASE	FREQ.	DISCONNECT	FUSING	MOP	MCA	ETL	
UNIT	460	3	60	30	N/A	30	12.6	LISTED	

# LEGEND

CCLT - CONDENSER COIL LEAVING AIR TEMPERATURE  
 DXCLT - DX COIL LEAVING AIR TEMPERATURE  
 RMTH - ROOM TEMPERATURE AND HUMIDITY (FACTORY MOUNTED IN THE PROCESS AIR INLET OF THE DZ-2000)

AI - ANALOG INPUT  
 DI - DIGITAL INPUT



 (MANUFACTURED BY INNOVENT, LLC)	ENGINEER:	DESCRIPTION:	
	D. OHS	SENSOR SCHEMATIC	
	DRAWN BY:	PROJECT:	
	MMS	BMIL	
	JOB #	TAG #	
FILE NAME:	DATE:	MODEL #	REV #:
	11/07/17	DZ-2000-AL-460	1

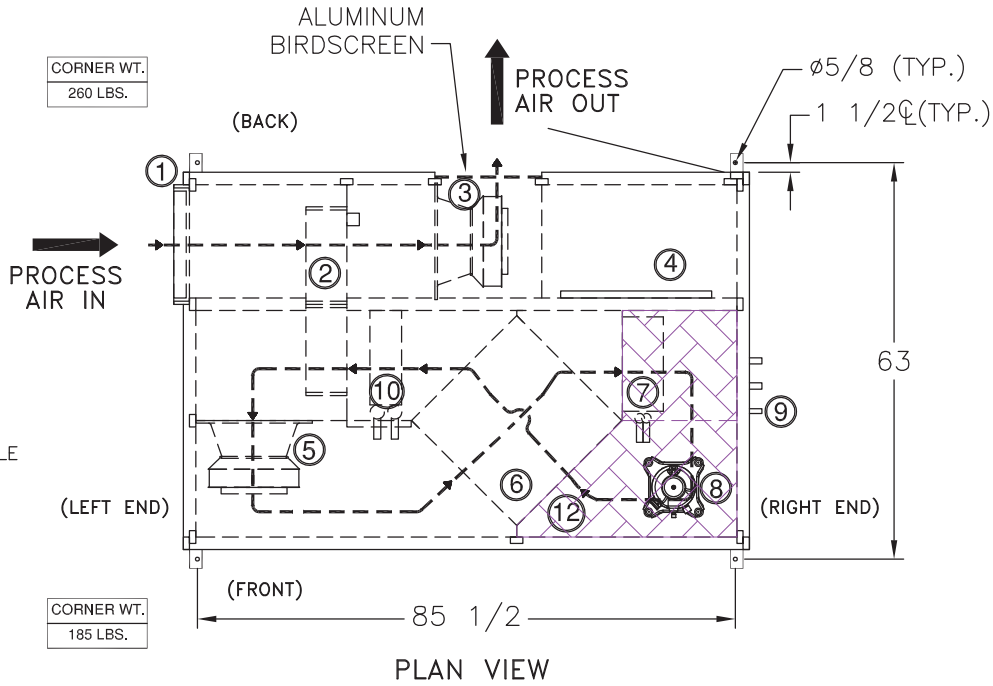
**COMPONENTS:**

- 1.) PROCESS AIR FILTER (18"x25"x2")
- 2.) DESICCANT WHEEL
- 3.) PROCESS AIR FAN
- 4.) CONTROL PANEL/MAIN DISCONNECT
- 5.) REGENERATION FAN
- 6.) AIR TO AIR HEAT EXCHANGER
- 7.) DX COIL
- 8.) COMPRESSOR
- 9.) CONDENSATE DRAIN (3/4" MPT)
- 10.) CONDENSER COIL
- 11.) REFRIGERATION ACCESS PORTS
- 12.) REFRIGERATION ACCESS SECTION

**WEIGHT:**  
915 LBS.

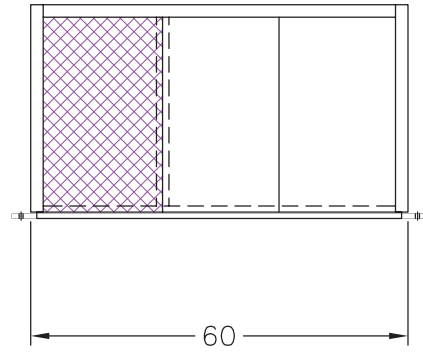
**NOTE:**  
ALL SIDE & TOP PANELS ARE REMOVABLE FOR ACCESS

ALL REFRIGERATION COMPONENTS AS NOTED ON REFRIGERATION SCHEMATIC SHALL BE LOCATED IN REFRIGERATION ACCESS SECTION.

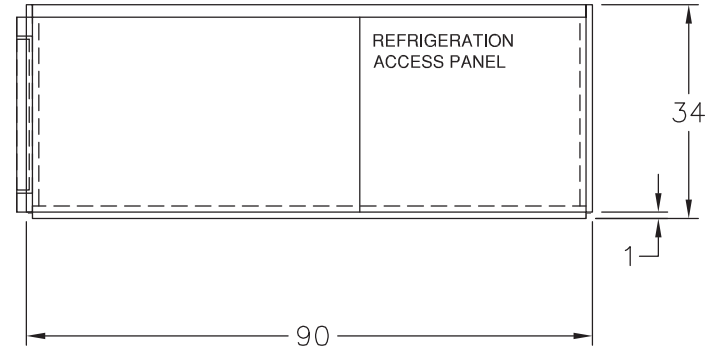


**CLEARANCES:**  
 FRONT: 30"  
 BACK (UNDUCTED): 72"  
 BACK (DUCTED): 36"  
 LEFT END (UNDUCTED): 30"  
 LEFT END (DUCTED): 30"  
 RIGHT END: 6"  
 TOP: 2"  
 BOTTOM: 0"

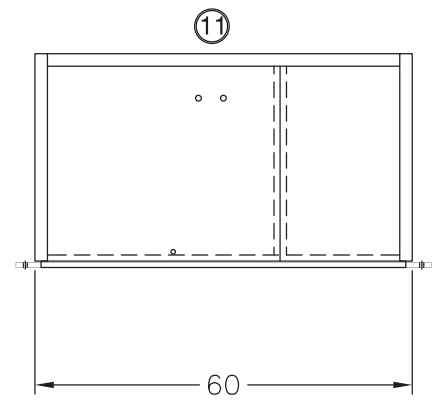
**DUCT SIZES (IF DUCTED):**  
 PROCESS INLET 19"W X 31"H  
 PROCESS OUTLET 17"W X 31"H




LEFT END VIEW



FRONT VIEW

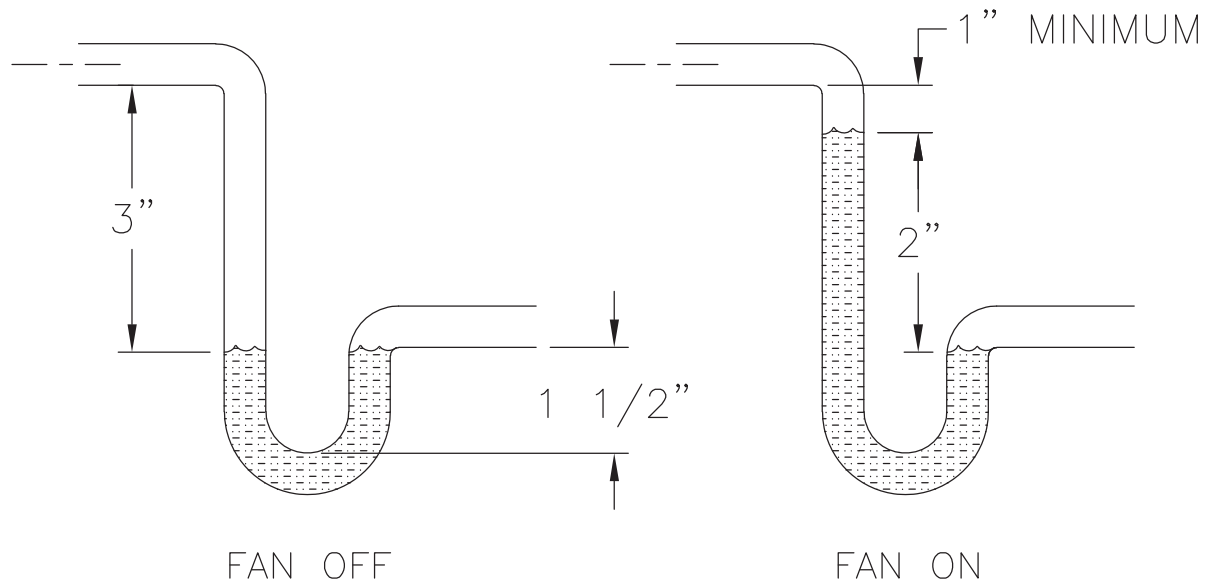



RIGHT END VIEW

 (MANUFACTURED BY INNOVENT, LLC)	ENGINEER: L. VANDERHOFF		DESCRIPTION: UNIT DRAWING: SPOT DEHUMIDIFIER	
	DRAWN BY: MMS		PROJECT: DZ2000 (STANDARD)	
	JOB #		TAG #	
	FILE NAME:		MODEL #	
	DATE: 11/15/17		DZ-2000-AL-460	
				REV #: 1

# RECOMMENDED DRAIN TRAP DESIGN

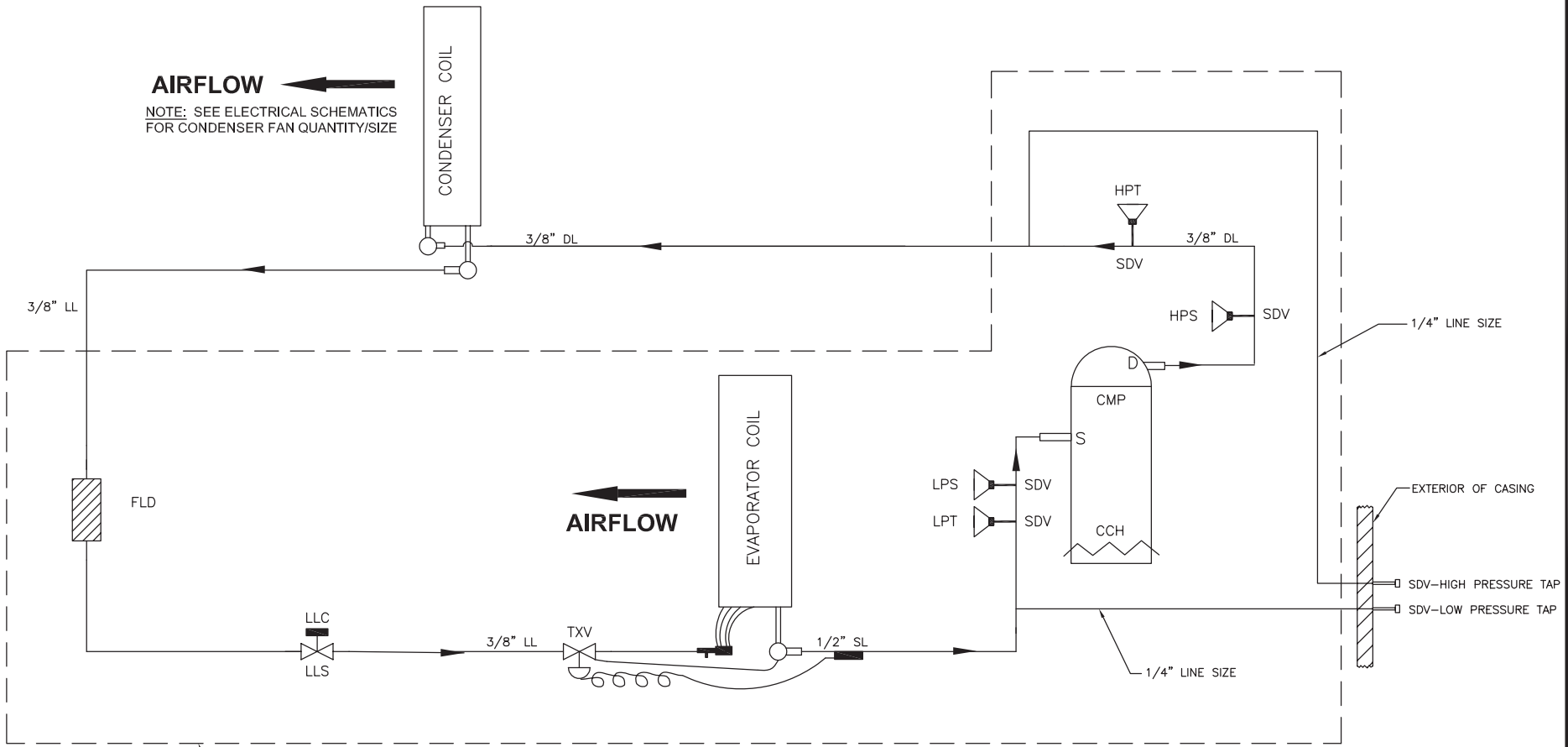
## (TRAP BY OTHERS)



 (MANUFACTURED BY INNOVENT, LLC)	ENGINEER:	DESCRIPTION:	
	L. VANDERHOFF	DRAIN CONNECTION/TRAP DETAIL	
	DRAWN BY:	PROJECT:	
	MMS	BMIL	
JOB #	TAG #	SEE UNIT DRAWING	REV #:
FILE NAME:	DATE:	MODEL #	1
	11/7/17	SEE UNIT DRAWING FOR MODEL # REFERENCE	

# Ckt A

VERSION  
2/4/2015




**AIRFLOW** ←  
NOTE: SEE ELECTRICAL SCHEMATICS FOR CONDENSER FAN QUANTITY/SIZE

**AIRFLOW** ←

LOCATE ALL COMPONENTS IN THIS DASHED SECTION WITHIN REFRIGERATION ACCESS SECTION AS NOTED ON UNIT DRAWING

- |     |                                   |     |                           |
|-----|-----------------------------------|-----|---------------------------|
| SDV | SCHRADER VALVE W/.25" PIPE        | LLC | 120V/1PH SOLENOID COIL    |
| FLD | FILTER DRIER (REPLACEABLE)        | LLS | SOLENOID VALVE            |
| HPS | HIGH PRESSURE SWITCH (AUTO RESET) | CMP | COMPRESSOR                |
| TXV | THERMAL EXPANSION VALVE           | CCH | CRANK CASE HEATER         |
| LPT | LOW PRESSURE TRANSMITTER          | HPT | HIGH PRESSURE TRANSMITTER |
| LPS | LOW PRESSURE SWITCH               | LPS | LOW PRESSURE SWITCH       |

NOTE: CHARGE SYSTEM TO 4 LBS-9OZ R410A REFRIGERANT

 (MANUFACTURED BY INNOVENT, LLC)	ENGINEER	DESCRIPTION:	
	D. OHS	REFRIGERATION SCHEMATIC	
	DRAWN BY:	PROJECT:	
	MMS	BMIL	
JOB #	TAG #	DRY ZONE SPOT DEHUMIDIFIER	
FILE NAME:	DATE:	MODEL #	REV #:
	11/07/17	SEE UNIT DRAWING FOR MODEL # REFERENCE	1