

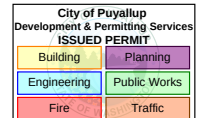
SHBTC BLDG HP-1 - 7325-7921

PRMH20251340

Full-Sized legible color report must be on site and made available by the Permittee for all inspections.

**City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE**

BSnowden
10/13/2025
8:00:55 AM



SUBMITTAL COMMENT

APPROVED - NO EXCEPTIONS TAKEN.....[]
APPROVED ONLY WITH NOTED CORRECTIONS.....[M]
NOT APPROVED - REVISE AND RESUBMIT.....[]

CHECKING IS ONLY FOR CONFORMANCE WITH THE DESIGN
CONCEPT AND COMPLIANCE WITH CONTRACT DOCUMENTS



MacDonald-Miller
FACILITY SOLUTIONS®

BY QUINCY BUSCHBACH DATE 2025-09-10
COMMENTS _____

COMMENTS:

1. INFORMATION FOR ELECTRIC HEATER SPECIFICATIONS ARE INCOMPLETE. UNIT IS APPROVED, HOWEVER ELECTRIC INFORMATION INCLUDING MCA AND MOCF REQUIRE CONFIRMATION. PROVIDE DETAILS FOR ELECTRIC HEATER SPECS.

2. INFORMATION FOR EXISTING UNIT ELECTRICAL CONFIGURATION IS INCOMPLETE. SPECIFIC MCA AND MOCF FOR THE NEW UNIT ARE UNCLEAR, AS WELL AS HOW THEY COMPARE TO THE EXISTING CONFIGURATION. UPGRADE ELECTRICAL CONFIGURATION IF NECESSARY.



Submittal

Prepared For:
Macdonald-miller Facility Solution

Date: April 23, 2025

Job Name:
SHBTC Bldg 1015 HP-1

Opportunity ID: 8186084

Trane U.S. Inc. is pleased to provide the following submittal for your review and approval.

Product Summary

Qty Product

- 1 3 - 25 Ton PKGD Precedent Unitary Rooftop
- 1 Economizer with PC Damper

Stephen Forner
Trane U.S. Inc.
2333 158th Court NE
Bellevue, WA 98008
E-mail: stephen.forner@trane.com
Office Phone: (425) 200-8929
Cell: (425) 200-8929

The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

Submittal acceptance and return is a critical step, so please ensure submittals are returned with approval to release to production within 14 days of submittal date.

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

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Tag Data - 3 - 25 Ton PKGD Precedent Unitary Rooftop (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
A1	HP-1	1	PKGD Precedent Unitary Rooftop	WSK240A4S0N**00B0000100A

Product Data - 3 - 25 Ton PKGD Precedent Unitary Rooftop**Item: A1 Qty: 1 Tag(s): HP-1**

Heat Pump
Standard Efficiency
R-454B Refrigerant
20 Ton
460/60/3
Symbio 700
36 kW Electric Heat
Standard Panels with 2-in MERV 8 Filter
Advanced Controls and BACnet BAS
Return Air Smoke Detector
3-year parts, coils & controls warranty
5-year compressor parts only warranty
1st Yr Labor Whole Unit

Performance Data - 3 - 25 Ton PKGD Precedent Unitary Rooftop

Tags	HP-1
Design Airflow (cfm)	8020
Max Available ESP (in H2O)	1.868
Total SP (in H2O)	1.632
Supply RPM (rpm)	1453
Total Supply Operating Horsepower (hp)	3.990
Supply Motor Horsepower (hp)	2.900
Airflow Application	Downflow
Gross Total Capacity (MBh)	241.01
Gross Sensible Capacity (MBh)	215.62
Cooling Entering Dry Bulb (F)	78.00
Cooling Entering Wet Bulb (F)	63.00
Coil LAT DB (F)	53.17
Coil LAT WB (F)	52.37
Cooling Leaving Unit Dry Bulb (F)	54.93
Cooling Leaving Unit WB (F)	53.18
Summer Ambient (F)	86.00
Output Heating Capacity (MBh)	122.94
Heat pump Heating Capacity (MBh)	157.45
Heating Entering Air Temperature (F)	70.00
Heat pump leaving air temperature (F)	91.14
Heating Leaving Air Temperature (F)	83.83
Heat pump heating ambient temperature (F)	26.00
Refrigerant charge - Ckt 1 (lb)	38.0
EER @ AHRI (Number)	9.50
IEER @ AHRI (Number)	12.50
AHRI COP @ 47 F (Number)	3.20
AHRI COP @ 17 F (Number)	2.05
MCA (A)	109.00
MOP (A)	110.00
Height (ft)	5.50
Width (ft)	7.25
Length (ft)	10.25
Approx Installed Weight (lb)	2188.0
Outdoor Noise - 63 Hz (dB)	95
Outdoor Noise - 125 Hz (dB)	91
Outdoor Noise - 250 Hz (dB)	93
Outdoor Noise - 500 Hz (dB)	91
Outdoor Noise - 1 kHz (dB)	88
Outdoor Noise - 2 kHz (dB)	83
Outdoor Noise - 4 kHz (dB)	80
Outdoor Noise - 8 kHz (dB)	74
Supply Fan Count (Number)	2.00
Indoor Fan Type	BC Plenum
Indoor Fan Drive Type	Variable Direct

Mechanical Specifications - 3 - 25 Ton PKGD Precedent Unitary Rooftop**Item: A1 Qty: 1 Tag(s): HP-1****Heatpump - General**

- Packaged rooftop units cooling, heating capacities, and efficiencies are AHRI Certified within scope of AHRI Standard 210-240 for 12.5 to 25 Tons and ANSI Z21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces (all gas heating units).
- Convertible airflow.
- Symbio controls operating range between 40.0 F and 125.0 F in cooling mode standard from the factory. Factory or field-installed low ambient kit extended operating range down to 0°F.
- Factory assembled, internally wired, fully charged with R-454B, and 100 percent run tested to check cooling operation, fan and blower rotation, and control sequence before leaving the factory.
- Colored and numbered wiring internal to the unit for simplified identification.
- Units cULus listed and labeled, classified in accordance for Central Cooling Air Conditioners.
- Unit shall be furnished with a leak detection system from the factory. The leak detection system shall consist of one or more refrigerant detection sensors. When the system detects a leak, the unit controller shall initiate mitigation actions.

Heatpump - Casing

- Zinc coated, heavy gauge, galvanized steel.
- Weather resistant pre-painted metal with galvanized substrate.
- Meets ASTM B117, 672 hour salt spray test.
- Removable single side maintenance access panels.
- Lifting handles in maintenance access panels (can be removed and reinstalled by removing fasteners while providing a water and air tight seal).
- Exposed vertical panels and top covers in the indoor air section insulated with a cleanable foil-faced, fire-retardant permanent, odorless glass fiber material.
- Base pan shall have no penetrations within the perimeter of the curb other than the raised 1 inch high downflow supply/return openings to provide an added water integrity precaution, if the condensate drain backs up.
- Base of the unit insulated with 1/8 inch, foil-faced, closed-cell insulation.
- Unit base provisions for forklift and/or crane lifting on three sides of unit.

Heatpump - Coils Evaporator and Condenser

- Internally finned, 5/16" copper tubes mechanically bonded to a configured aluminum plate fin are standard.
- Coils are leak tested at the factory to ensure integrity.
- Evaporator coil and condenser coil are leak tested to 600 psig.
- Assembled unit is leak tested to 465 psig.
- Condenser coil is patent pending 1+1+1 hybrid coil, designed with slight gaps for cleaning ease.
- Composite, dual-sloped, removable condensate drain pan is standard.

Heatpump - Coil Guards

- Provides condenser coil protection.

Heatpump - Compressors

- All units have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps.
- Suction gas-cooled motor with voltage utilization range of plus or minus 10 percent of unit nameplate voltage.
- Internal overloads standard with scroll compressors.
- Crankcase heaters are standard on all compressors.
- All units have dual compressors.
- Three stages of cooling available on 12.5 to 17.5 tons units and four stages of cooling available on 20 and 25 tons units.

Heatpump - Filters

- Standard throwaway filters
- Optional 2 inch MERV 8 and MERV 13 filters

Heatpump - Froststat

- Utilized as a safety device.

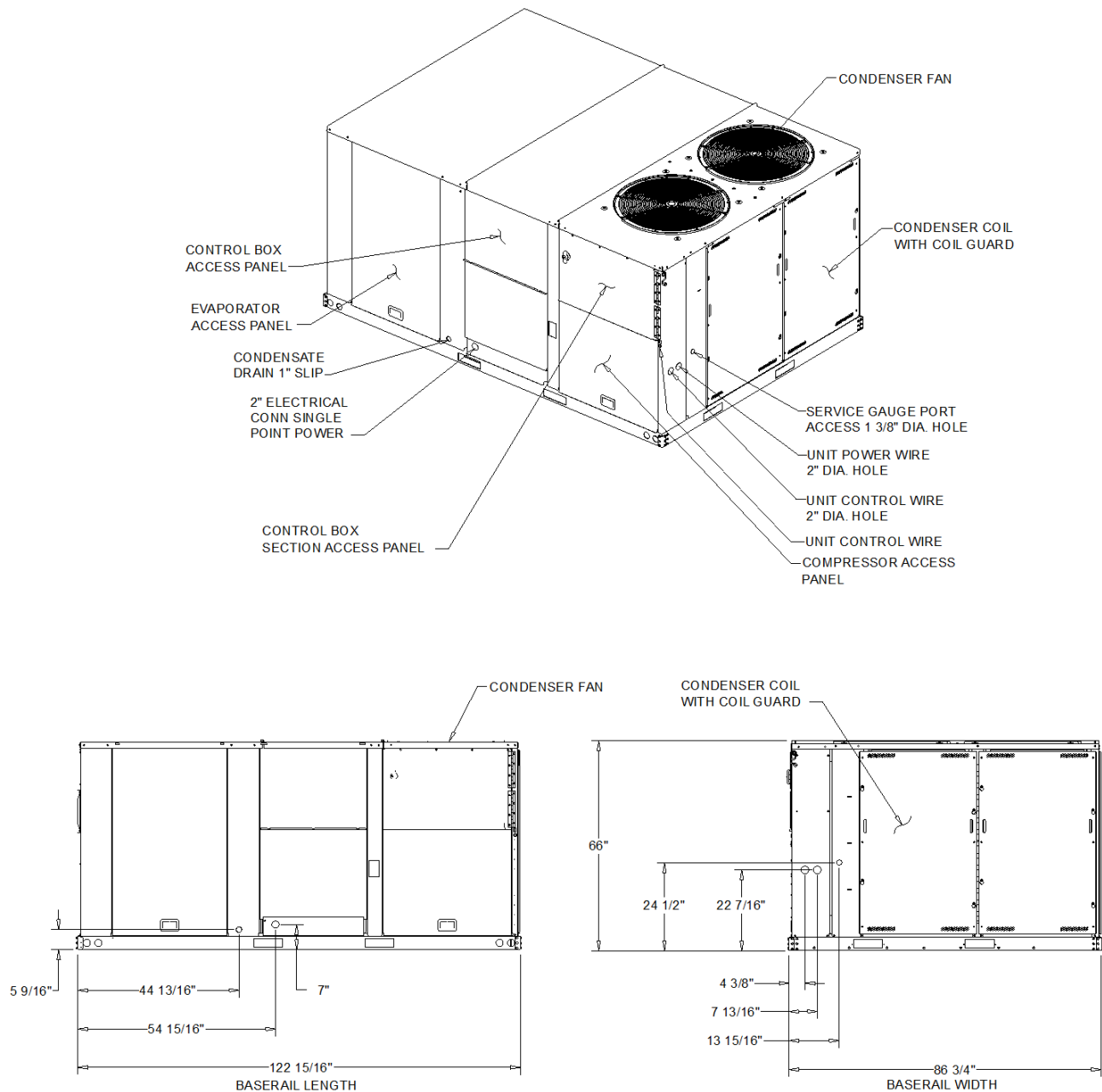
- Opens to prevent freezing temperatures on evaporator coil.
- Temperature will need to rise to 50.0 F before closing.
- Utilized in low airflow or high outside air applications (cooling only).

Heatpump - Indoor Fan

- Direct drive plenum fan design - 12.5 to 25 tons units.
- Plenum fan design- backward-curved fan wheel along with an external rotor direct drive variable speed indoor motor.
- Supply fan speed adjustments can be made using the Symbio 700 or Mobile App.
- Motors are thermally protected.
- Variable speed direct drive motors are high efficiency - 12.5 to 25 tons.

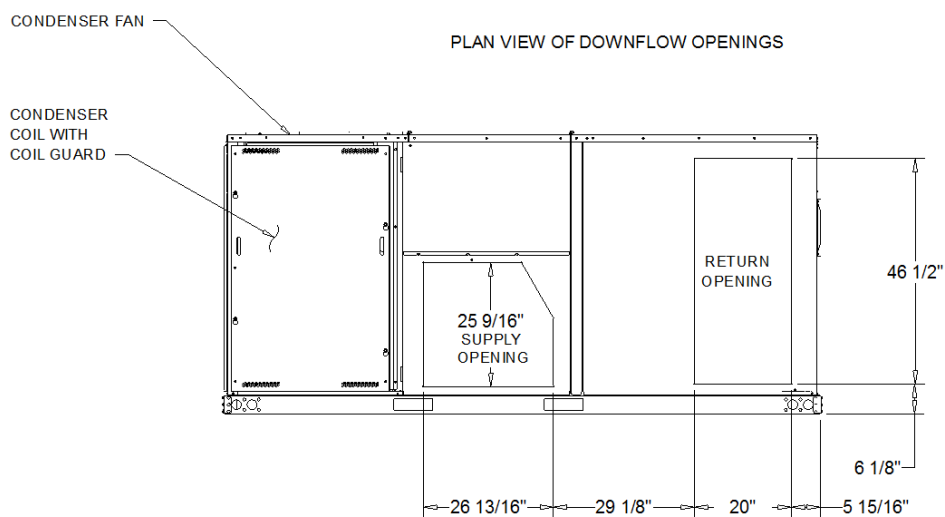
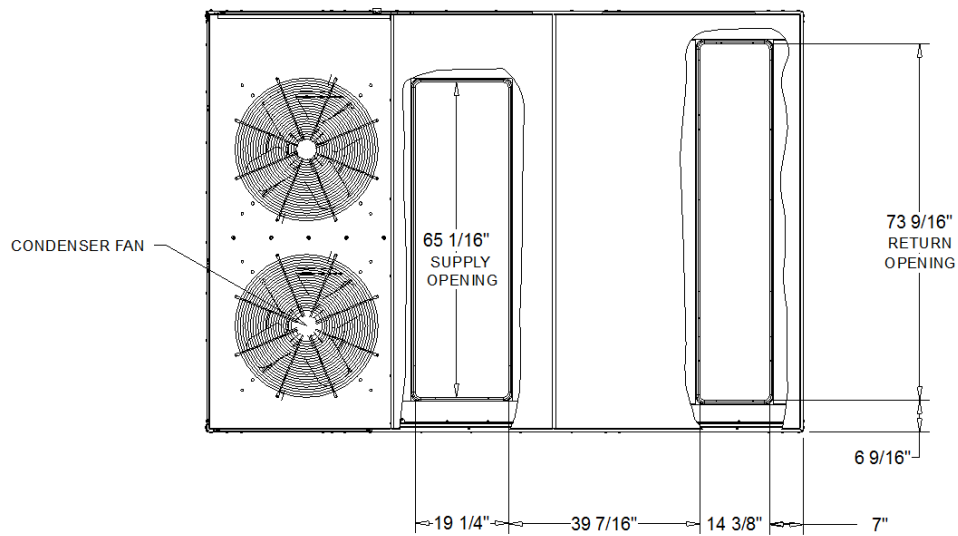
Dimensional Drawings - 3 - 25 Ton PKGD Precedent Unitary Rooftop
Item: A1 Qty: 1 Tag(s): HP-1

- NOTES:
1. THRU -THE -BASE ELECTRICAL IS NOT STANDARD ON ALL UNITS.
2. VERIFY WEIGHTS, CONNECTIONS, AND ALL DIMENSIONS WITH
INSTALLER DOCUMENTS BEFORE INSTALLATION



HEAT PUMP / ELECTRIC HEAT STANDARD EFFICIENCY
DIMENSION DRAWING

Dimensional Drawings - 3 - 25 Ton PKGD Precedent Unitary Rooftop
Item: A1 Qty: 1 Tag(s): HP-1



HEAT PUMP / ELECTRIC HEAT STANDARD EFFICIENCY

DIMENSION DRAWING

Weight, Clearance & Rigging - 3 - 25 Ton PKGD Precedent Unitary Rooftop

Item: A1 Qty: 1 Tag(s): HP-1

NOTES:

1. APPROX. INSTALLED WEIGHT INCLUDES ALL SELECTED OPTIONS AND ACCESSORIES.
2. CORNER WEIGHTS ARE FOR BASE UNIT ONLY AND DO NOT INCLUDE OPTIONS OR ACCESSORIES.
3. WEIGHT INCLUDES BOTH FACTORY AND FIELD INSTALLED ACCESSORY.

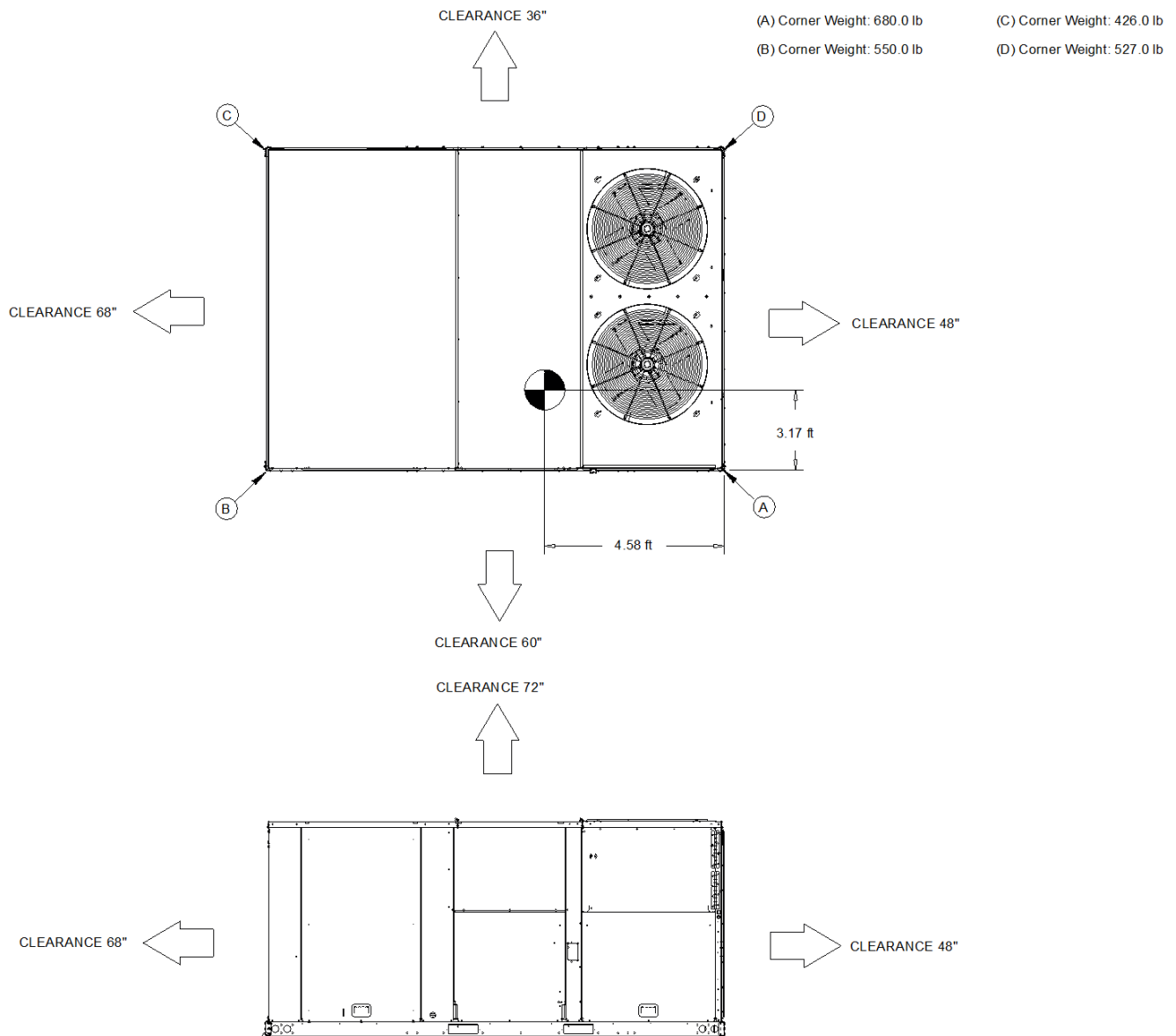
Approximate Installed Weight: 2,188.0 lb

(A) Corner Weight: 680.0 lb

(C) Corner Weight: 426.0 lb

(B) Corner Weight: 550.0 lb

(D) Corner Weight: 527.0 lb



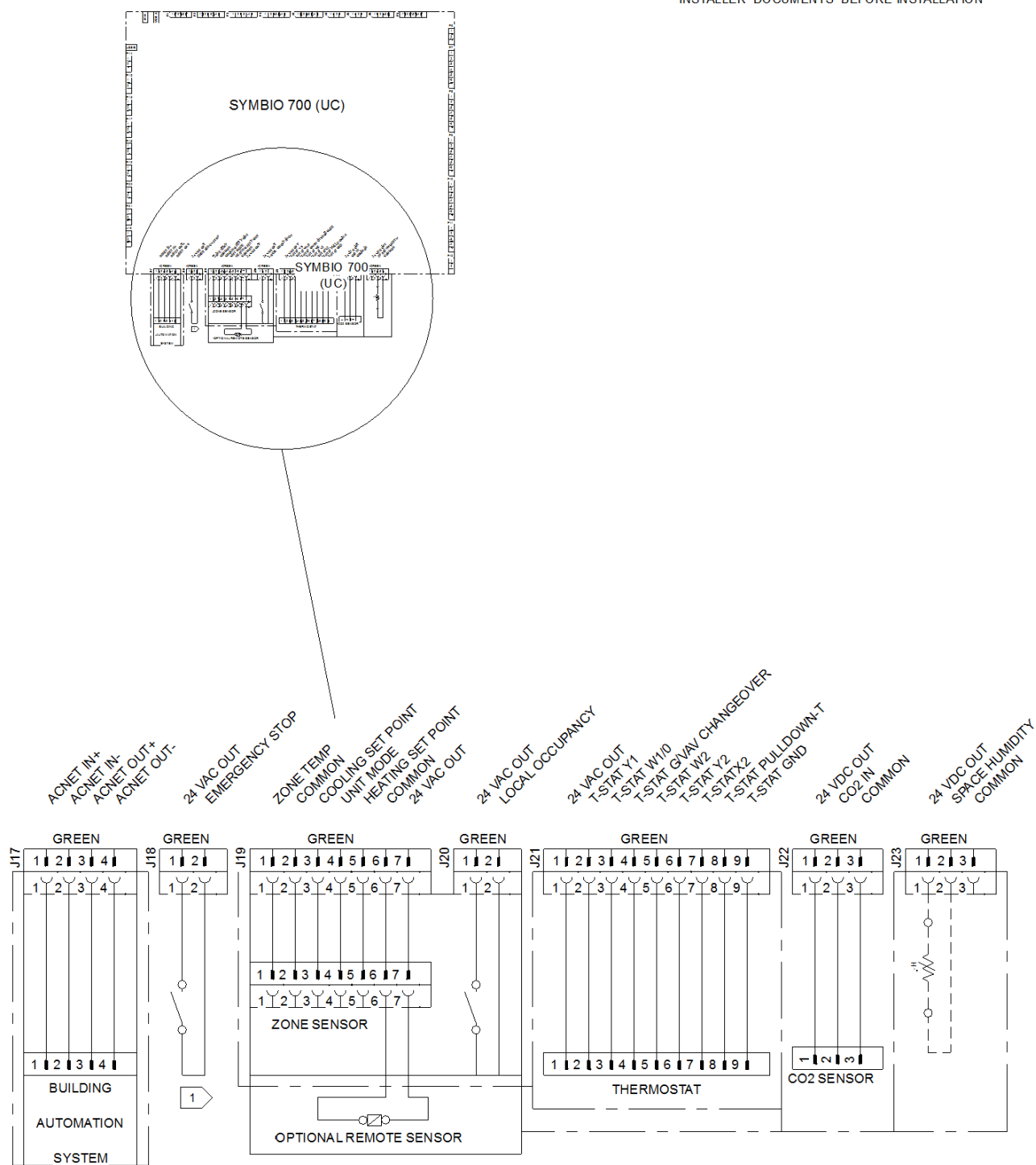
HEAT PUMP / ELECTRIC HEAT STANDARD EFFICIENCY

WEIGHTS AND CLEARANCES

Field Wiring - 3 - 25 Ton PKGD Precedent Unitary Rooftop
Item: A1 Qty: 1 Tag(s): HP-1

NOTES:

1. VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION



SYMBIO 700 (J17, J18, J19, J20, J21, J22, AND J23)

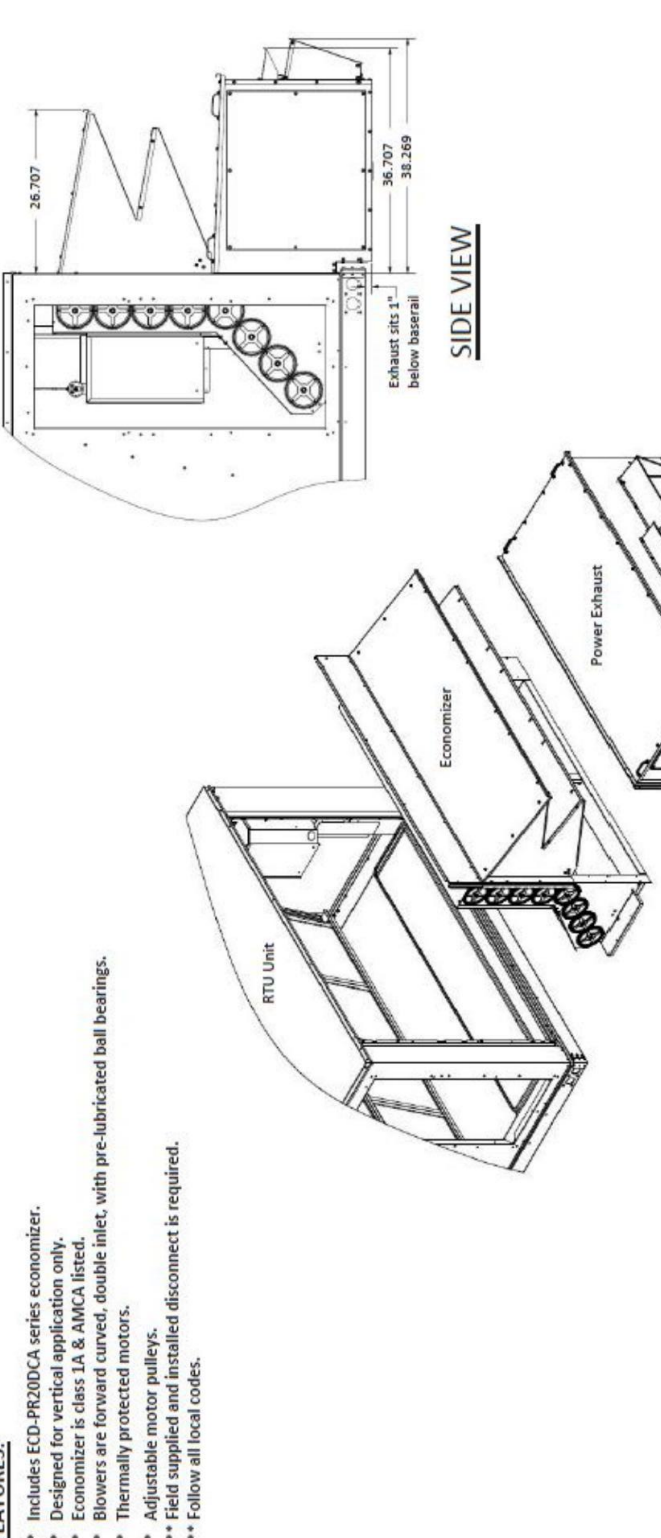
FIELD WIRING DRAWING

Tag Data - Economizer with PC Damper (Qty: 1)

Item	Tag(s)	Qty
B1	MAT-1-1	1

Product Data - Economizer with PC Damper**Item: B1 Qty: 1 Tag(s): MAT-1-1**

Other -

	Date: 4/23/2025	Weights: 555lbs/251.75kg	Units:	Part Number: PECD-PR20DCA-DT0B-4L4
Submitted To: stephen.fornier@trane.com		Job:		Notes:
Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Vertical with Actuator Only for SYMBIO Controls - No Controller, Belimo Actuator, No Sensor, 460 Volt Three Phase, Modulating, Designed To Operate At 8676 CFM @ 1/2" - 4HP. Power Exhaust Painted To Match RTU, All Necessary Panels And Hardware Included. Electrical junction box provided. High voltage cable to be field supplied and installed. Power Exhaust VFD is BacNet Compatible..				
FEATURES: • Includes ECD-PR20DCA series economizer. • Designed for vertical application only. • Economizer is class 1A & AMCA listed. • Blowers are forward curved, double inlet, with pre-lubricated ball bearings. • Thermally protected motors. • Adjustable motor pulleys. • Field supplied and installed disconnect is required. • Follow all local codes.				
				
SIDE VIEW				

Date:
4/23/2025

Weights:
555lbs/251.75kg

Units:

Part Number:
PECD-PR20DCA-DT0B-4L4

Submitted To: stephen.fomer@trane.com

Job:

Notes:

Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Vertical with Actuator Only for SYMBIO Controls - No Controller, Belimo Actuator, No Sensor, 480 Volt Three Phase, Modulating, Designed To Operate At 8676 CFM @ 1/2" - 4HP, Power Exhaust Painted To Match RTU, All Necessary Panels And Hardware Included. Electrical junction box provided. High voltage cable to be field supplied and installed. Power Exhaust VFD is BacNet Compatible..

FEATURES:

- External gear driven dampers with low leak blades.
- Filter access door supplied with RTU.
- All harnesses and plugs needed are supplied.
- Economizer OA and Return dampers are AMCA Class 1A listed.
- Relief dampers are AMCA listed.

When using Control Type "DTOB" For units with Symbio Trane needs to provide:

- Symbio 700 Fresh Air Option: Module (FIAOPEN002A)
- Dry Bulb Sensor included in RTU
- If Enthalpy is wanted
 - Enthalpy kit (FIAENTH001A)
 - Comparative Enthalpy kit (FIAENTH002A)
- For T24 error reporting, you will need Symbio 700 with advanced controls and BAYSSENS800.

-CONTROL TYPES	
DYDB	Belimo controller actuator, Dry bulb Controls
DYEB	Belimo controller actuator, Enthalpy Controls
DTOB	Belimo actuator and unit has SYMBIO controls

Compliant Economizer:

1. Title 24: Economizers meet California Energy Commission Title 24-2022 prescriptive section 140.4 (damper leakage etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls.
2. ASHRAE 90.1: Economizers meet ASHRAE 90.1-2019 / 2022 damper leakage requirements and meet 2022 Fault Detection and Diagnosis requirements.
3. IECC: Economizers meet IECC 2021 for outside air, return air, and relief damper (when provided) leakage requirements, and IECC 2021 for Fault Detection and Diagnostic requirements.
4. AMCA: Outside air and return air (volume) dampers are AMCA Class 1A rated at 1" w.g. Refer to MicroMetl NS2 catalog sheet on website for details. Relief air dampers (when provided) are also AMCA rated. Refer to GRI series catalog sheet on website for details.

Micromet Corporation certifies that the models GRI and NS2 shown herein are licensed to bear the AMCA seal. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance ratings.

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Indianapolis 3035 N. Shadeland Ave. Indianapolis, IN 46226 800 MMC HVAC • Sparks 905 Southern Way Sparks, NV 89431 800 884 4MMC • I onnview 201 Kodak Blvd I onnview TX 75002 903 248 4800

	Date: 4/23/2025	Weights: 555lbs/251.75kg	Units:	Part Number: PECD-PR20DCA-DT0B-4L4
Submitted To: stephen.fomer@trane.com		Job:		Notes:
Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Vertical with Actuator Only for SYMBIO Controls - No Controller, Belimo Actuator, No Sensor, 460 Volt Three Phase, Modulating, Designed To Operate At 8676 CFM @ 1/2" - 4HP. Power Exhaust Painted To Match RTU, All Necessary Panels And Hardware Included. Electrical junction box provided. High voltage cable to be field supplied and installed. Power Exhaust VFD is BacNet Compatible..				

Suffix	Voltage	Phase	Description	HP	FLA	MCA	MOCP	Internally Provided Fuses
2V2	208-230/240	3	Constant Volume	2.0	7.6-7.2	9.5-9.0	12.4-11.7	N/A
2L2 or 2T2	208-230/240	3	Modulating	2.0	13.6*	17	30.6	25 Amp
4V2	460/480	3	Constant Volume	2.0	3.8	4.8	6.2	N/A
4L2 or 4T2	460/480	3	Modulating	2.0	6.5*	8.1	14.6	10 Amp

Suffix	Voltage	Phase	Description	HP	FLA	MCA	MOCP	Internally Provided Fuses
2V4	208-230/240	3	Constant Volume	4.0	11.2-10.8	14.0-13.5	18.2-13.1	N/A
2L4 or 2T4	208-230/240	3	Modulating	4.0	20.6*	25.8	46.4	40 Amp
4V4	460/480	3	Constant Volume	4.0	5.4	6.8	8.8	N/A
4L4 or 4T4	460/480	3	Modulating	4.0	10.5*	13.1	23.6	20 Amp

Suffix	Voltage	Phase	Description	HP	FLA	MCA	MOCP	Internally Provided Fuses
2V6	208-230/240	3	Constant Volume	6.0	18.4-17.2	23.0-21.5	29.9-28.0	N/A
2L6 or 2T6	208-230/240	3	Modulating	6.0	28.8*	36	64.8	40 Amp
4V6	460/480	3	Constant Volume	6.0	8.6	10.8	14.0	N/A
4L6 or 4T6	460/480	3	Modulating	6.0	14.3*	17.9	32.2	25 Amp

*VFD Input Current

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Indianapolis_3035 N. Shadeland Ave., Indianapolis, IN 46226_800.MMC.HVAC ** Sparks_905 Southern Way, Sparks, NV 89431_800.884.4MMC ** Longview_201 Kodak Blvd., Longview, TX 75602_903.248.4800

MicroMetl

Since 1962

Date:

4/23/2025

Submitted To: stephen.fomer@trane.com

Weights:

555lbs/251.75kg

Units:

Part Number:

PECD-PR20DCA-DT0B-4L4

Job:

Notes:

Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Vertical with Actuator Only for SYMBIO Controls - No Controller, Belimo Actuator, No Sensor, 460 Volt Three Phase, Modulating, Designed To Operate At 8676 CFM @ 1/2" - 4HP. Power Exhaust Painted To Match RTU, All Necessary Panels And Hardware Included. Electrical junction box provided. High voltage cable to be field supplied and installed. Power Exhaust VFD is BacNet Compatible..

Data provided by blower manufacturer

"2 HP" Airflow & Sound Data - Assumes .5 Internal Exhaust Cabinet Static.

CFM	ESP	RPM	Freq. (Hz)	63	125	250	500	1000	2000	4000	8000	Blower Outlet dBA @ 5ft.
6916	0.1	712		84.0	80.0	75.0	73.0	71.0	69.0	66.0	63.0	66.0
6652	.25	756		86.0	80.0	76.0	74.0	72.0	70.0	66.0	63.0	67.0
6548	.3	775	dBA	87.0	81.0	77.0	75.0	73.0	70.0	67.0	64.0	67.0
6358	.4	804		88.0	82.0	77.0	75.0	73.0	70.0	67.0	64.0	68.0
6136	.5	837		89.0	84.0	79.0	77.0	74.0	72.0	69.0	66.0	69.0
5884	.6	869		89.0	87.0	81.0	79.0	75.0	74.0	71.0	68.0	71.0

"4 HP" Airflow & Sound Data - Assumes .5 Internal Exhaust Cabinet Static.

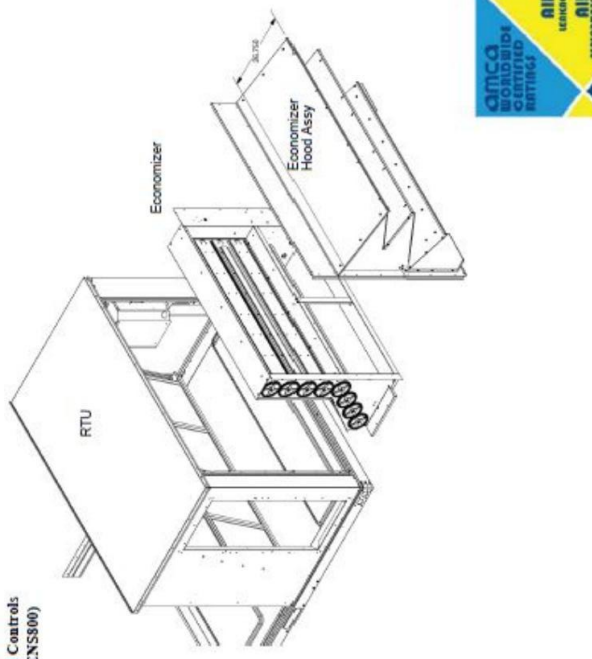
CFM	ESP	RPM	Freq. (Hz)	63	125	250	500	1000	2000	4000	8000	Blower Outlet dBA @ 5ft.
9188	0.1	836		90.0	89.0	83.0	80.0	77.0	76.0	72.0	69.0	73.0
9010	.25	859		90.0	88.0	83.0	80.0	76.0	76.0	72.0	69.0	72.0
8942	.3	868		90.0	88.0	83.0	80.0	76.0	75.0	72.0	69.0	72.0
8814	.4	886	dBA	90.0	88.0	83.0	80.0	76.0	75.0	72.0	69.0	72.0
8676	.5	907		91.0	88.0	83.0	80.0	76.0	75.0	72.0	69.0	72.0
8272	.75	970		92.0	89.0	84.0	81.0	77.0	76.0	73.0	70.0	73.0
7880	1.0	1033		92.0	91.0	86.0	82.0	78.0	77.0	74.0	71.0	74.0
7594	1.1	1055		93.0	93.0	87.0	84.0	78.0	78.0	75.0	72.0	76.0

"6 HP" Airflow & Sound Data - Assumes .5 Internal Exhaust Cabinet Static.

CFM	ESP	RPM	Freq. (Hz)	63	125	250	500	1000	2000	4000	8000	Blower Outlet dBA @ 5ft.
10732	0.1	939		93.0	93.0	88.0	85.0	80.0	80.0	77.0	73.0	77.0
10574	.25	954		92.0	93.0	88.0	84.0	79.0	80.0	76.0	73.0	76.0
10506	.3	959		92.0	93.0	88.0	84.0	79.0	79.0	76.0	73.0	76.0
10428	.4	973	dBA	92.0	93.0	88.0	84.0	79.0	79.0	76.0	73.0	76.0
10318	.5	987		92.0	93.0	87.0	84.0	79.0	79.0	76.0	72.0	76.0
9964	.75	1027		93.0	93.0	87.0	84.0	79.0	79.0	75.0	72.0	76.0
9670	1.00	1080		93.0	94.0	88.0	85.0	80.0	79.0	76.0	73.0	77.0
9394	1.25	1137		94.0	95.0	89.0	85.0	81.0	80.0	77.0	74.0	78.0
8800	1.50	1186		95.0	96.0	91.0	87.0	82.0	81.0	78.0	75.0	79.0

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Indianapolis_3035 N. Shadeland Ave., Indianapolis, IN 46226 800.MMC.HVAC ** Sparks_905 Southern Way, Sparks, NV 89431 800.884.4MMC ** Longview_201 Kodak Blvd., Longview, TX 75602_903.248.4800

	Date: RTU:	Weight: 291lbs (US) 132kg (Metric)	Part Number: ECD-PR20DCA-DT0B						
Submitted to:	Approved by:	Notes:							
Economizer - Genesis Ultra Low Leak Economizer, Vertical Orientation, Actuator Only for 3rd Party Economizer Controls - No Controller, No Sensor, Belimo Actuator. Painted Rain Hood With Aluminum Filter, Barometric Relief, All Necessary Panels And Hardware Included.									
FEATURES: - External gear driven dampers with low leak blades. - Filter access door supplied with RTU. - All harnesses and plugs needed are supplied. - Economizer OA and Return damper: are AMCA Class 1A listed. - Relief damper is AMCA listed.									
-Control Types <table border="1"> <tbody> <tr> <td>-DYDB</td><td>Belimo controller, actuator, adjustable drybulb controls.</td></tr> <tr> <td>-DYEB</td><td>Belimo controller, actuator, enthalpy controls</td></tr> <tr> <td>-DTOB</td><td>Belimo actuator and unit has SYMBIO controls</td></tr> </tbody> </table>				-DYDB	Belimo controller, actuator, adjustable drybulb controls.	-DYEB	Belimo controller, actuator, enthalpy controls	-DTOB	Belimo actuator and unit has SYMBIO controls
-DYDB	Belimo controller, actuator, adjustable drybulb controls.								
-DYEB	Belimo controller, actuator, enthalpy controls								
-DTOB	Belimo actuator and unit has SYMBIO controls								
For units with SYMBIO Trane needs to provide : - Symbio 700 Fresh Air Option: Module (FLAOPTN002A) - Dry Bulb Sensor included in RTU - Enthalpy Kit (FLAENTH001A) - Comparative Enthalpy Kit (FLAENTH002A) - For T24, you need Symbio 700 with Advanced Controls - If no BAS then you need Zone Sensor (BAYSENS000)									
									
Compliant Economizer: - Title 24: Economizers meet California Energy Commission Title 24-2016 / 2019 prescriptive section 140.4 (damper leakage etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls. - ASHRAE 90.1: Economizers meet ASHRAE 90.1-2019 damper leakage requirements as stated in Table 6.4.3.3, and meet 2019 Fault Detection and Diagnosis requirements in section 6.4.3.12. - IECC: Economizers meet IECC 2018 section C402.4.5.2 and, IECC 2018 sections C403.2.4.3 and C403.3.3.5 for outside air, return air, and relief damper (when provided) leakage requirements, and IECC 2018 section c403.2.4.7 for Fault Detection and Diagnostic requirements. - AMCA: Outside air and return air (volume) dampers are AMCA Class 1A rated at 1" w.g. Refer to MicroMe! NS1 catalog sheet on web site for details. Relief air dampers are also AMCA rated. Refer to GR1 series catalog sheet on web site for details.									
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