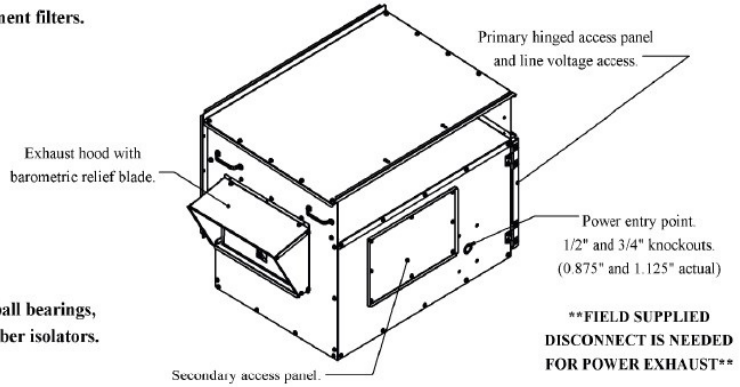
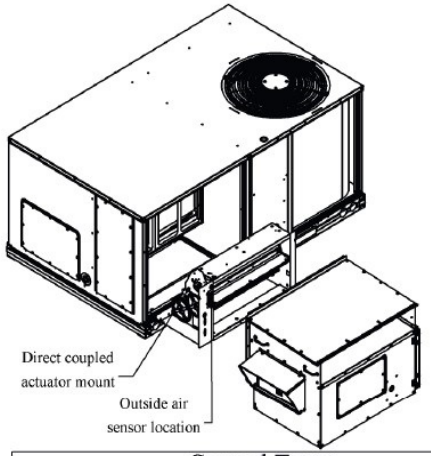
| MicroMetl | Date: 2/17/2025 | Weights: 191lbs/86.64kg | Units: | Part Number: PECD-SRT12CB-D2DH-4L1 |
|---|---|---|---|---|
| Submitted To: guest@micrometl.com | Job: | | Notes: | |

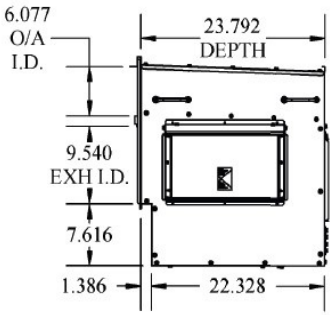
Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Vertical with Honeywell Jade W7220 Single/Multiple Speed Electromechanical Controller, Honeywell Actuator, Adjustable Dry Bulb Sensor, 460 Volt Three Phase, Modulating, Designed To Operate At 2675 CFM @ 1/2" - 1 HP. Power Exhaust 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. For Differential sensor please order 9901-2022-DIFF JC2..

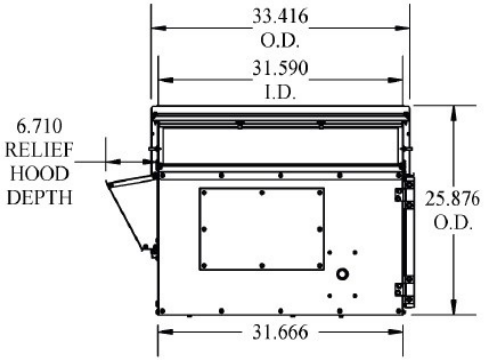
**FEATURES:**

- **Includes ECD-SRT12CB series economizer.**
- **External gear driven dampers with roll formed blades.**
- **Designed for vertical applications only.**
- **Factory assembled rain hood, with aluminum water entrainment filters.**
- **Filter access door supplied with RTU.**
- **Hinged filter access door is ordered separately.**
  - **MMC P/# for Chassis 1 - ECD-SRT1CA-HDOOR**
  - **MMC P/# for Chassis 2 - ECD-SRT2CA-HDOOR**
- **Rain hood is sloped for water run off.**
- **All harnesses and plugs needed are supplied.**
- **Economizer is class 1A & AMCA certified.**
- **Relief blades are AMCA certified.**
- **Uses filter rack with unit.**
- **Field supplied and installed disconnect is required.**
- **Blower is forward curved, double inlet, with pre-lubricated ball bearings, have a dynamically balanced wheel, and are mounted on rubber isolators.**
- **Thermally protected motors.**
- **Adjustable motor pulleys**
- **See page 2 for PE performance and electrical data.**






| -Control Types | |
|---|---|
| -D2DH | W7220 controller, actuator w/feedback, adjustable drybulb controls |
| -D2EH | W7220 controller, actuator w/feedback, enthalpy controls |
| -D2XH | W7220 controller, actuator w/feedback, dual adjustable drybulb controls |
| -D2ZH | W7220 controller, actuator w/feedback, dual enthalpy controls |
| -D0DB-4 | RTU Open - Premier Link - System VU, No controller, Adjustable dry bulb, Belimo actuator |
| -D0DB-X | Comfortlink - No controller, Adjustable dry bulb, Belimo MFT actuator with 500 ohm resistor |
| -D00H-H | Communicating Honeywell actuator only |
| -D00H | Non-communicating Honeywell actuator only |
| -D00B | Belimo actuator with feedback and end switch |
| -D00S | Siemens actuator with feedback |
| **-PE Options** | |
| -2VH or -2V1 | 208/230V 1PH or 3PH, Constant Volume, 1/2HP or 1HP |
| -2LH or -2L1 | 208/230V 1PH or 3PH, Modulating, BACNet ready, 1/2HP or 1HP |
| -2TH or -2T1 | 20/230V 1PH or 3PH, 3rd Party Controls, BACNet ready, 1/2HP or 1HP |
| -4VH or -4V1 | 460V 1PH or 3PH, Constant Volume, 1/2HP or 1HP |
| -4LH or -4L1 | 460V 1PH or 3PH, Modulating, BACNet ready, 1/2HP or 1HP |
| -4TH or -4T1 | 460V 1PH or 3PH, 3rd Party Controls, BACNet ready, 1/2HP or 1HP |

## Compliant Economizer:

1. **Title 24:** Economizers meet California Energy Commission Title 24-2013 / 2016 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 90.1-2013 / 2016 damper leakage requirements as stated in Table 6.4.3.4.3., and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12.
3. **IECC:** Economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 for outside air, return air, and relief damper (when provided) leakage requirements, and IECC 2015 section c403.2.4.7 for Fault Detection and Diagnostic requirements, Note: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which is included in some models (i.e. -D2XH) and must be ordered separately on others (i.e. -D2DH, -D2EH).
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 web site for details. Relief air dampers (when provided) are also AMCA rated. Refer to GR1 series catalog sheet on web site for details.

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Economizer & Power Exhaust Combination Package, Genesis Ultra Low Leak Vertical with Honeywell Jade W7220 Single/Multiple Speed Electromechanical Controller, Honeywell Actuator, Adjustable Dry Bulb Sensor, 460 Volt Three Phase, Modulating, Designed To Operate At 2675 CFM @ 1/2" - 1 HP. 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. For Differential sensor please order 9901-2022-DIFF JC2..

## Compliant Economizer:

1. **Title 24:** Economizers meet California Energy Commission Title 24-2013 / 2016 prescriptive section 140.4 (damper leakage etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls (JADE HJW10).
2. **ASHRAE 90.1:** Economizers meet ASHRAE 90.1-2013 / 2016 damper leakage requirements as stated in Table 6.4.3.4.3., and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12.
3. **IECC:** Economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 for outside air, return air, and relief damper (when provided) leakage requirements, and IECC 2015 section C403.2.4.7 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 web site for details. Relief air dampers (when provided) are also AMCA rated. Refer to GR1 series catalog sheet on web site for details.

## Features:

- Includes **ECD-SRT12CA** Series Economizer. See economizer submittal for economizer details.
- Designed specifically for vertical discharge applications. Easy to install. Easy to service.
- Includes assembled rainhood with aluminum water entrainment filters in the outside air section.
- Rainhood is sloped for water run-off.
- Built-in barometric relief damper provided.
- All harnesses and plugs needed are provided.
- Uses standard factory filter access door shipped with HVAC unit.
- If factory hinged access door option is installed on unit, an additional kit is required to seal hinged door properly.
  - OEM part no. CRPECONV003A00 or MicroMetl part number 0640-0100-HDANGL

## Notes:

1. Control systems include Honeywell W7220 JADE controller, mixed (supply) air temperature sensor, OA sensor in description, and spring-return communicating actuator (some include differential return sensor as noted).
2. JADE W7220 controller is field mounted in unit's control box.
3. Mixed (supply) air sensor is field installed in indoor blower fan section.
4. Differential return sensor (MicroMetl Part No. 9901-2022-DIFF JC2) is field installed in return duct.
5. ASHRAE, IECC, and Title 24 require the economizer controller be capable of reporting faults to a fault management application accessible by day-to-day operating or service personnel, or annunciated locally on zone thermostats or in some codes other devices are acceptable. Refer to applicable code requirements and to MicroMetl instructions for suggestions.
6. For older single speed models without the Central Terminal Board the "-D2" part number is replaced by "-DJ". (See separate submittal).

amca WORLDWIDE CERTIFIED RATINGS — AIR LEAKAGE — AIR PERFORMANCE — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. — www.amca.org

**MicroMetl Corporation certifies that the models GR1 and NS2 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with requirements of the AMCA Certified Ratings Programs. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance ratings.**

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**- 1/2HP Power Exhaust Configurations and Electrical Data**

| Suffix | Voltage | Phase | Description | HP | FLA | MCA | MOCP | Internally Provided Fuses |
|---|---|---|---|---|---|---|---|---|
| 1VH | 208-230/240 | 1 | Constant Volume | 0.5 | 4.1-4.3 | 5.1-5.4 | 9.2-9.7 | N/A |
| 2VH | 208-230/240 | 3 | Constant Volume | 0.5 | 2.3-2.2 | 2.9-2.8 | 5.2-5.0 | N/A |
| 1LH or 1TH | 208-230/240 | 1 | Modulating | 0.5 | 5.7* | 7.1 | 12.8 | 10 Amp |
| 2LH or 2TH | 208-230/240 | 3 | Modulating | 0.5 | 3.9* | 4.9 | 8.8 | 10 Amp |
| 4VH | 460/480 | 3 | Constant Volume | 0.5 | 1.1 | 1.4 | 2.5 | N/A |
| 4LH or 4TH | 460/480 | 3 | Modulating | 0.5 | 1.5* | 1.9 | 3.4 | 10 Amp |

**- 1HP Power Exhaust Configurations and Electrical Data**

| Suffix | Voltage | Phase | Description | HP | FLA | MCA | MOCP | Internally Provided Fuses |
|---|---|---|---|---|---|---|---|---|
| 2V1 | 208-230/240 | 3 | Constant Volume | 1.0 | 3.8-3.6 | 4.8-4.5 | 8.6-8.1 | N/A |
| 1L1 | 208-230/240 | 1 | Modulating | 1.0 | 10.0* | 12.5 | 22.5 | 20 Amp |
| 2L1 or 2T1 | 208-230/240 | 3 | Modulating | 1.0 | 6.4* | 8.0 | 14.4 | 12 Amp |
| 4V1 | 460/480 | 3 | Constant Volume | 1.0 | 1.9 | 2.4 | 4.3 | N/A |
| 4L1 or 4T1 | 460/480 | 3 | Modulating | 1.0 | 2.8* | 3.5 | 6.3 | 10 Amp |

*VFD Input Current

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**- Series Low Static Power Exhaust Configurations and Electrical Data**

| Suffix | Voltage | Phase | Description | HP | FLA | MCA | MOCP | Internally Provided Fuses |
|---|---|---|---|---|---|---|---|---|
| 1VH | 208-230 | 1 | Constant Volume | 0.5 | 4.1-4.3 | 5.1-5.4 | 9.2-9.7 | N/A |
| 2VH | 208-230 | 3 | Constant Volume | 0.5 | 2.3-2.2 | 2.9-2.8 | 5.2-5.0 | N/A |
| 1LH or 1TH | 230 | 1 | Modulating | 0.5 | 5.7* | 7.1 | 12.8 | 10 Amp |
| 2LH or 2TH | 230 | 3 | Modulating | 0.5 | 3.9* | 4.9 | 8.8 | 10 Amp |
| 4VH | 460 | 3 | Constant Volume | 0.5 | 1.1 | 1.4 | 2.5 | N/A |
| 4LH or 4LH | 460 | 3 | Modulating | 0.5 | 1.5* | 1.9 | 3.4 | 10 Amp |

**- Series High Static Power Exhaust Configurations and Electrical Data**

| Suffix | Voltage | Phase | Description | HP | FLA | MCA | MOCP | Internally Provided Fuses |
|---|---|---|---|---|---|---|---|---|
| 2V1 | 208-230 | 3 | Constant Volume | 1.0 | 3.8-3.6 | 4.8-4.5 | 8.6-8.1 | N/A |
| 1L1 | 208-230 | 1 | Modulating | 1.0 | 10.0* | 12.5 | 22.5 | 20 Amp |
| 2L1 or 2T1 | 230 | 3 | Modulating | 1.0 | 6.4* | 8.0 | 14.4 | 12 Amp |
| 4V1 | 460 | 3 | Constant Volume | 1.0 | 1.9 | 2.4 | 4.3 | N/A |
| 4L1 or 4T1 | 460 | 3 | Modulating | 1.0 | 2.8* | 3.5 | 6.3 | 10 Amp |

*VFD Input Current

**"1/2 HP" Sound Data - Assumes .3125 Internal Exhaust Cabinet Static.**

| CFM | ESP | RPM | Freq. (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Blower Outlet dBA @ 5ft. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2200 | 0.1 | 712 | dBA | 76 | 74 | 71 | 69 | 68 | 65 | 61 | 58 | 62 |
| 2075 | .25 | 760 | | 78 | 76 | 74 | 71 | 70 | 68 | 64 | 61 | 64 |
| 2025 | .3 | 781 | | 78 | 76 | 75 | 72 | 71 | 69 | 64 | 61 | 65 |
| 1950 | .4 | 821 | | 81 | 78 | 76 | 73 | 71 | 69 | 65 | 62 | 66 |
| 1850 | .5 | 864 | | 83 | 80 | 77 | 74 | 72 | 69 | 66 | 63 | 67 |
| 1775 | .6 | 908 | | 84 | 82 | 79 | 76 | 74 | 72 | 68 | 65 | 68 |
| 1650 | .75 | 974 | | 86 | 83 | 82 | 78 | 76 | 76 | 70 | 67 | 71 |

**"1 HP" Sound Data - Assumes .3125 Internal Exhaust Cabinet Static.**

| CFM | ESP | RPM | Freq. (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Blower Outlet dBA @ 5ft. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2900 | 0.1 | 840 | dBA | 82 | 79 | 76 | 73 | 71 | 68 | 65 | 62 | 66 |
| 2825 | .25 | 875 | | 83 | 80 | 78 | 74 | 73 | 70 | 67 | 64 | 67 |
| 2800 | .3 | 886 | | 83 | 81 | 78 | 75 | 73 | 71 | 67 | 64 | 68 |
| 2725 | .4 | 909 | | 84 | 81 | 79 | 76 | 74 | 73 | 68 | 65 | 69 |
| 2675 | .5 | 935 | | 85 | 82 | 80 | 77 | 75 | 74 | 69 | 66 | 70 |
| 2625 | .6 | 967 | | 86 | 83 | 82 | 78 | 76 | 75 | 70 | 67 | 71 |
| 2525 | .75 | 1011 | | 87 | 85 | 83 | 79 | 77 | 76 | 71 | 68 | 72 |

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