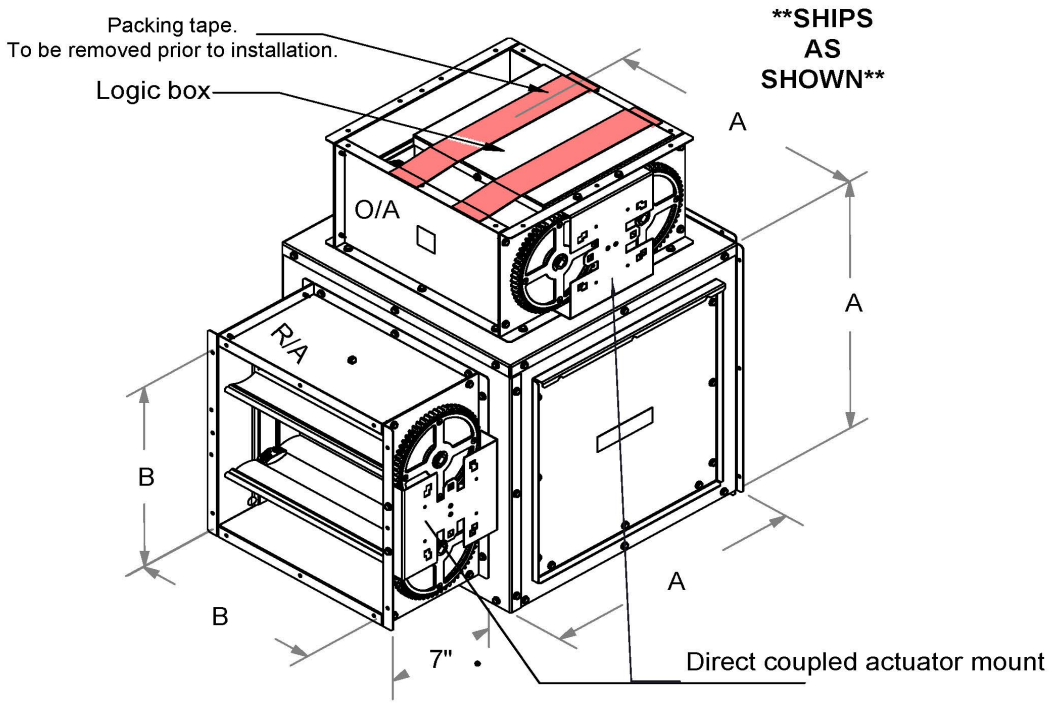
MicroMetl	Date:	Weight: 72lbs (US) 32.66kg (Metric)	Part Number: MB-GP20CB-D2DH
	RTU:		
Submitted to:		Approved by:	Notes:

Mixing Box - CUBE - 1500-2000 CFM , Ultra Low Leak Genesis Fault Detection & Diagnostic Controls - Honeywell Jade W7220 Controller, Adjustable Dry Bulb Sensor, Honeywell Actuator, Galvanized Metal With Gears Comprised of Polybutylene Terephthalate (PBT) Flame Retardant 30% Glass Filled , Barometric Relief NOT Included. Field Fabrication of a Transition May Be Required. Dampers are convertible and can be

Features:

- **External Gear Driven Dampers with roll formed blades.**
- **Mixing Boxes are galvanized and not painted.**
- **Fully configurable dampers, any location can be outside air or return air.**
- **Fully internal ½" foil faced insulation.**
- **Barometric relief not supplied standard but required for CA, Title 24. Ordered separately.**
  - **MB-GP10CB uses (1) RH-GPRSMCA**
  - **MB-GP20CB uses (2) RH-GPRMDCA**
- **Motorized relief not supplied standard but may be required. Ordered separately.**
  - **MB-GP10CB uses (1) RH-GPRSMCA-Mx**
  - **MB-GP20CB uses (1) RH-GPRSMCA-Mx**
- **All harnesses and plugs needed are supplied.**
- **Economizer is class 1A & AMCA certified.**
- **Relief blades are AMCA certified.**
- **Logic box not supplied with Actuator only control types.**



A	B-I.D.
23.50	18.00

CFM	500	1000	1500	2000
	0.028	0.070	0.125	0.240

This Document Is The Property Of MicroMetl Corporation And Is Delivered Upon The Express Condition That The Contents Will Not Be Disclosed Or Used Without MicroMetl's Written Consent. MicroMetl Reserves The Right To Discontinue, Or Change At Any Time, Specifications & Designs Without Any Notice Incurring Obligations.

Master Revision: 0003A

Page Revision: 0003A

MicroMetl	Date:	Weight: 72lbs (US) 32.66kg (Metric)	Part Number: MB-GP20CB-D2DH
	RTU:		
Submitted to:		Approved by:	Notes:

Mixing Box - CUBE - 1500-2000 CFM , Ultra Low Leak Genesis Fault Detection & Diagnostic Controls - Honeywell Jade W7220 Controller, Adjustable Dry Bulb Sensor, Honeywell Actuator, Galvanized Metal With Gears Comprised of Polybutylene Terephthalate (PBT) Flame Retardant 30% Glass Filled , Barometric Relief NOT Included. Field Fabrication of a Transition May Be Required. Dampers are convertible and can be

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, and meet 2016 Fault Detection and Diagnosis requirements.
3. **IECC:** Economizers meet IECC 2012, IECC 2015, and IECC 2018 for outside air, return air, and relief damper (when provided) leakage requirements, and IECC 2015 and IECC 2018 for Fault Detection and Diagnostic requirements. Note: IECC 2015 and IECC 2018 requires differential return air sensor, which is included in some models (i.e. D2XH) and must be ordered separately on others (i.e. D2DH, D2ZH).
4. **AMCA:** Outside air and return air (volume) dampers are AMCA Class 1A rated at 1" w.g. Refer to MicroMetl NS1 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:

- Outside air damper and return damper each have a separate actuator to allow for easier relocation of dampers on mixing box
- Gear driven design for trouble-free operation, eliminating slippage and binding associated with standard linkage.
- Internally insulated
- All harnesses needed are provided.
- Barometric relief damper available.

Notes:

1. Control systems include Honeywell W7220 JADE controller, supply mixed air temperature sensor, OA sensor in description, spring-return actuator on OA damper, and a separate actuator on return damper (some include differential return sensor as noted).
2. JADE W7220 controller is factory mounted on mixing box.
3. Mixed (supply) air sensor is field installed in indoor blower fan section.
4. Differential return sensor (included in "-D2XH" and "-D2ZH" models or can be ordered separately - MicroMetl Part No. 9901-2022-DIFF) 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.

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 NS1 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.

A	B-I.D.
23.50	18.00

CFM	500	1000	1500	2000
	0.028	0.070	0.125	0.240

This Document Is The Property Of MicroMetl Corporation And Is Delivered Upon The Express Condition That The Contents Will Not Be Disclosed Or Used Without MicroMetl's Written Consent. MicroMetl Reserves The Right To Discontinue, Or Change At Any Time, Specifications & Designs Without Any Notice Incurring Obligations.

Master Revision: 0003A

Page Revision: 0003A