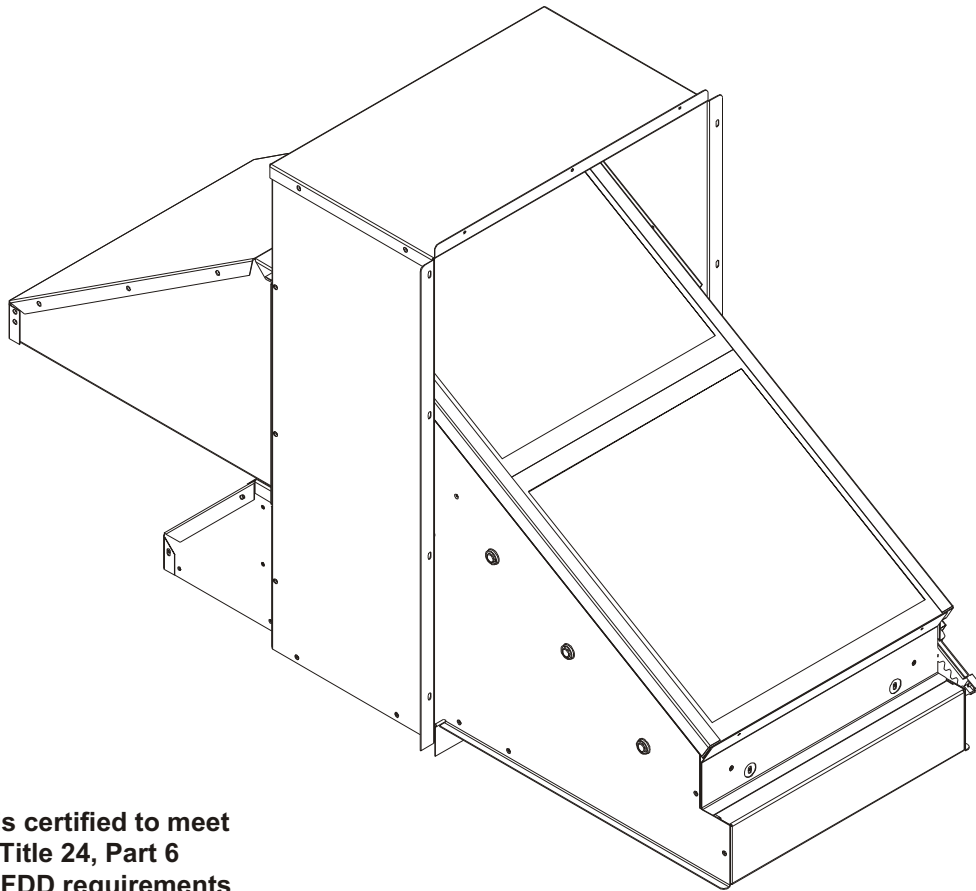


Package Unit Modulating Economizer **FRIGIDAIRE**

Installation Instructions



This product is certified to meet
California Title 24, Part 6
Low Leak and FDD requirements

Downflow Unit



Warning:



Recognize this symbol as an indication of Important Safety Information!

- Read all instructions prior to installation.
- Disconnect electrical power to the unit before servicing.
- Failure to do so can cause electrical shock resulting in personal injury or death.
- Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer or service agency.

DO NOT DESTROY. PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209 PACKAGE EQUIPMENT MODELS 2-5T CONVERTIBLE PACKAGE UNITS AC, HP OR GAS ELECTRIC

FORM# 212E-0714 (NEW)

Note:

Reference Unit Technical Service Literature for application requirements.

Before You Begin:

Inspect economizer for shipping damage and correct parts with list below.

- 1 - Economizer Assembly w/ Filter installed
- Upper Adaptor Panels (See Table 1 on Page 2)
- 1 - Side Adaptor Panel
- 1 - Outdoor Air Hood (Attached to Economizer)
- 1 - Hardware Package
 - 1 - Mixed Air Sensor (MAS)
 - 1 - Mixed Air Sensor Wiring Harness
 - 2 - 8" Wire Tie
 - 3 - #10 x 16 x 1/2" Self-Tapping Screws
 - 13 - #10 x 16 x 1/2" Type A Screws

Note: For rooftop or other installations that requires the economizer to be lifted or hoisted, always lift economizer with the supplied packaging in place to prevent damage from lifting and rigging equipment.

Optional Accessory Kits:

- CO₂ Sensor Kit, Wall Mount (920317)
- CO₂ Sensor Kit, Duct Mount (920318)
- Differential Enthalpy Kit (922431)
- HP isolation relay kit (older heat pump models) (922598)
- Power Exhaust Kit (547842, 555578)

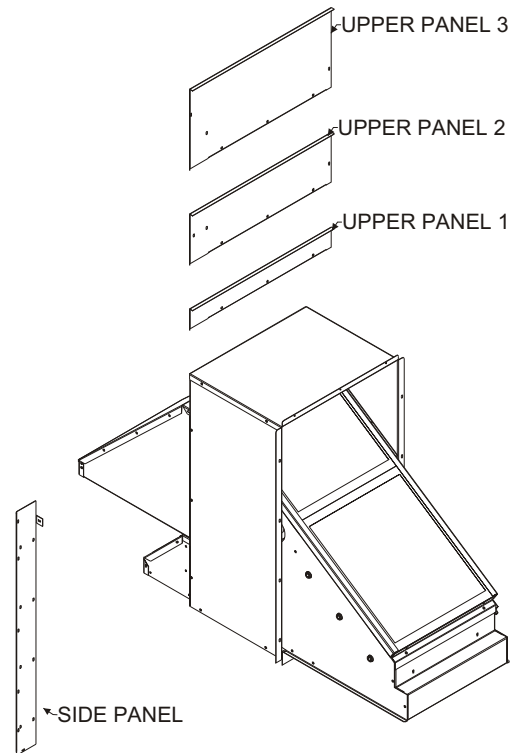
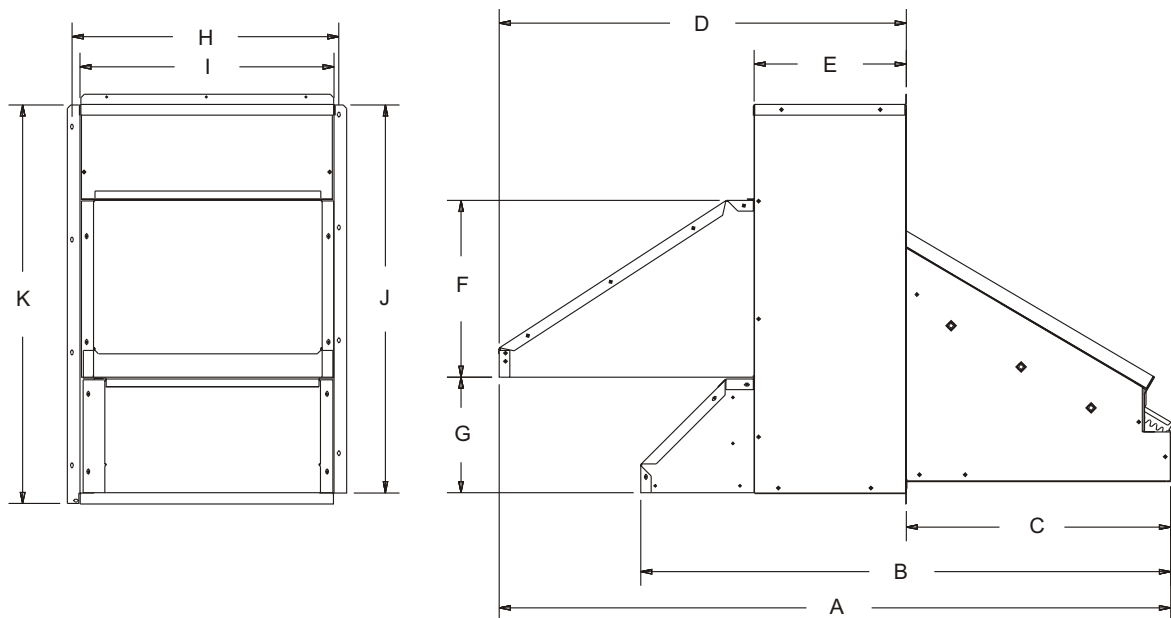


Figure 1



Unit#	Unit Dimensions											Shipping Information			
	A	B	C	D	E	F	G	H	I	J	K	Height	Length	Width	Weight
562533	47.59	37.56	18.73	28.86	10.79	12.54	8.18	18.90	18.00	27.50	28.25	35	57 1/2	20 1/2	109
563209	51.03	41.06	18.75	32.29	14.29	17.34				31.08	31.83				112

Figure 2

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209 PACKAGE EQUIPMENT MODELS 2-5T CONVERTIBLE PACKAGE UNITS AC, HP OR GAS ELECTRIC

UNIT HEIGHT (WITH BASE RAILS)*	UPPER PANEL CLOSE-OFF	USED w/ UNIT#
35"	PANEL 1 - 22" x 3"	562533
39"	PANEL 1 - 22" x 3"	563209
43"	PANEL 2 - 22" x 7"	
47"	PANEL 3 - 22" x 11"	

Table 1

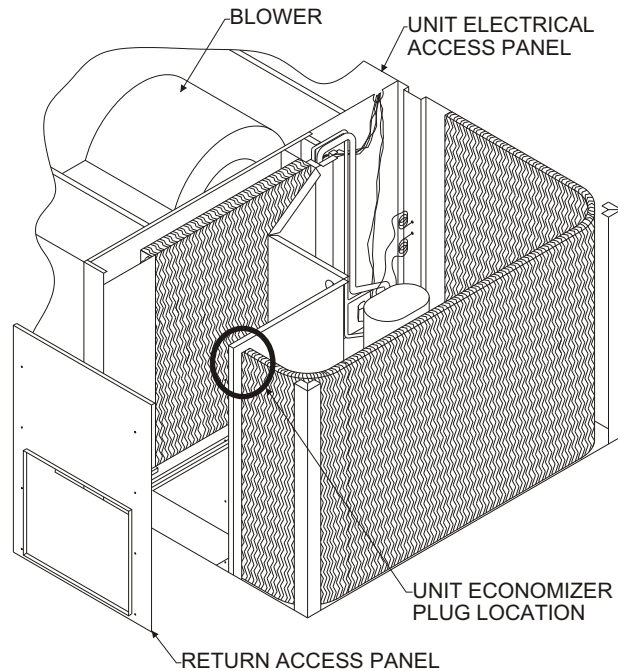
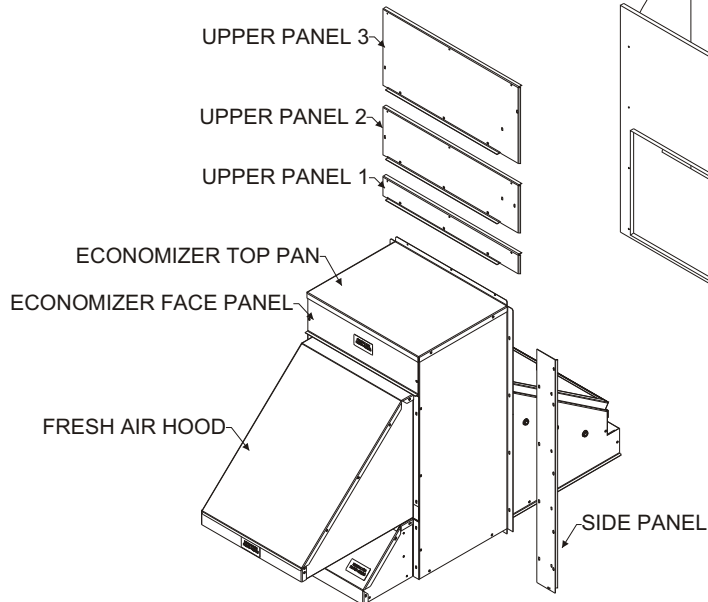


Figure 3

Step 1:
Shutdown unit and disconnect from electrical power.

Step 2:
Remove the return access panel. (Save screws.)

Step 3:
Using CAUTION not to puncture coil tubing, align holes and place the tab on the side panel on the return side of divider wall and secure with self-tapping screw provided.

Step 3a: (Optional)
Install differential enthalpy control and DCV (CO₂) sensor according to that kit's instructions. (See products technical service literature.)

Step 4:
Install economizer in unit, attaching only left and right side mounting screws. Ensure economizer rails sit flush on return air opening lip. Use CAUTION not to tear insulation on unit side wall or floor. (Use screws that were removed in **Step 2**.) (**See wiring diagram attached.**)

Step 5:
Screw side panel in place.

Step 6:
Remove economizer top pan and face panels. Locate unit economizer plug (S1) in return air compartment (top right corner). Remove jumper wire and zip tie it to economizer wiring harness. Connect economizer plug (P1) to unit plug (S1). Inspect all wiring and linkage connections for security and proper operation. Secure all loose wires with a 6" wire tie. Ensure that wires are protected from all sharp edges, inadvertent grounding, and will not become entangled with filter or moveable vanes.

Step 6a (Optional)
If installed, make sure differential enthalpy control and DCV (CO₂) sensor wiring connections are made in accordance with that kit's instructions.

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209 PACKAGE EQUIPMENT MODELS 2-5T CONVERTIBLE PACKAGE UNITS AC, HP OR GAS ELECTRIC

Step 7:

Remove unit blower access panel and install mixed air sensor in appropriate location (as shown in **Figure 4**) with two #10 Type A screws provided and then make electrical connection. Replace blower access panel.

Step 8:

Return power to unit, Setup and configure economizer. (See Appendix A on page 5)

Step 9:

Install appropriate upper close-off panel and replace face panel and top panel and secure with screws (**See Table 1**). Ensure all mounting screws, panels, and doors are installed.

Note to Installer

- When this economizer is used in conjunction with heat pumps, unit WHITE wire from economizer plug pin #7 **MUST** be relocated from defrost control board "T1" to low voltage terminal board "A1".
- When this economizer is used with any 2-5 ton package unit (Gas/Electric, A/C, or Heat Pump) **WITHOUT A COMMERCIAL THERMOSTAT**, the GREEN wire from economizer plug pin #1 **MUST** be relocated from low voltage terminal board "G" to low voltage terminal board "R" to force dampers to remain in minimum position 100 percent of the time, while in heating mode, to meet the minimum fresh air requirements. When used in conjunction with a commercial thermostat, see Note 2 on wiring diagram.
- Some older 2-5T package heat pumps may not be equipped with a reversing valve isolation relay, required for use with economizers that have a Jade control system. Nordyne kit #922598 is required for these applications.

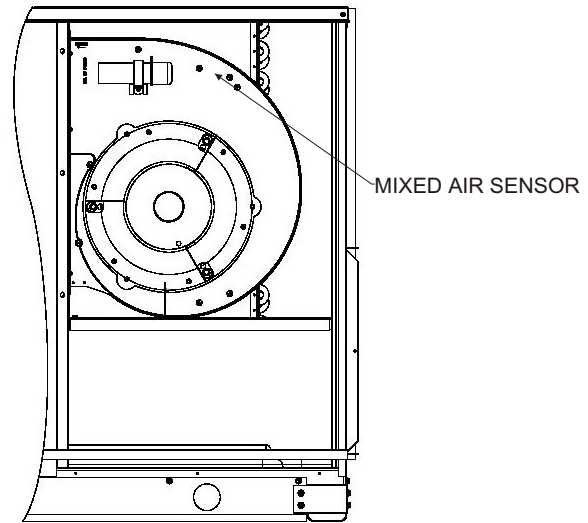


Figure 4a - Gas/Electric

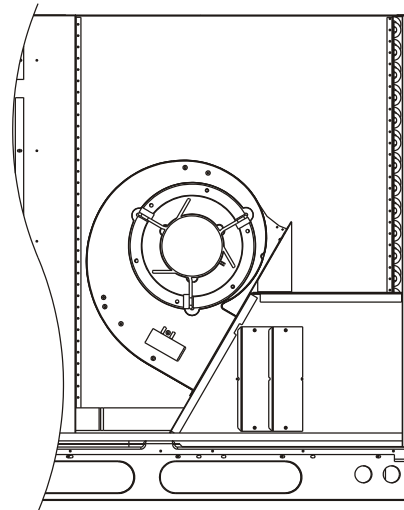


Figure 4b - Electric/Electric or Heat Pump

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209
PACKAGE EQUIPMENT MODELS
2-5T CONVERTIBLE PACKAGE UNITS
AC, HP OR GAS ELECTRIC

MAINTENANCE

Return Air Filter Replacement is recommended every 30 days. (16 x 16 x 1)

Step 1:

Remove economizer face panel and side screws of top pan.

Step 2:

Slide filters out (2) and replace with new filters.

Step 3:

Replace face panel and secure all screws.

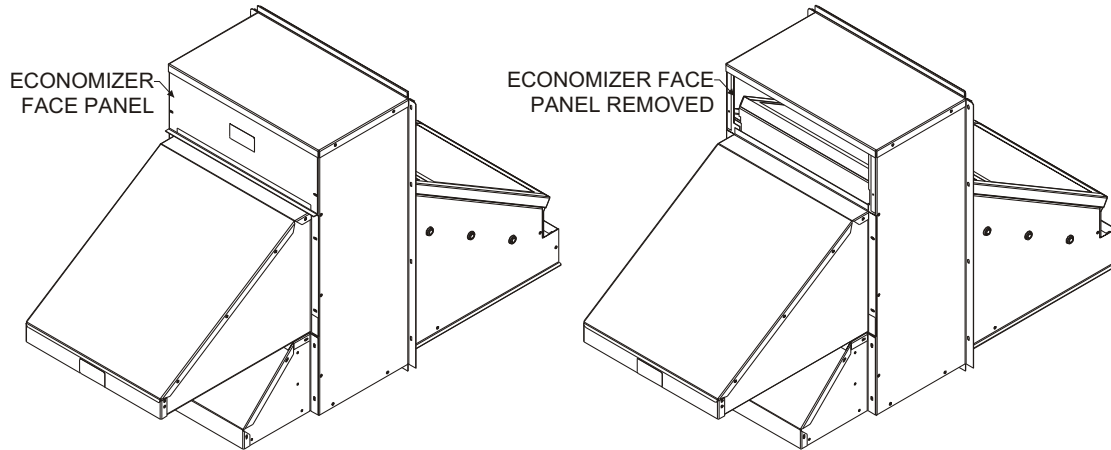


Figure 5

Fresh air filter cleaning is recommended every 3 months.

Step 1:

Remove lower section of fresh air hood to access washable filters. (4 screws)

Step 2:

Remove filters (2) and clean with water and a mild detergent.

Step 3:

Taking note of "Air Flow Direction" marking on filter frame, reinstall the filters and fresh air filter access cover, securing all screws.

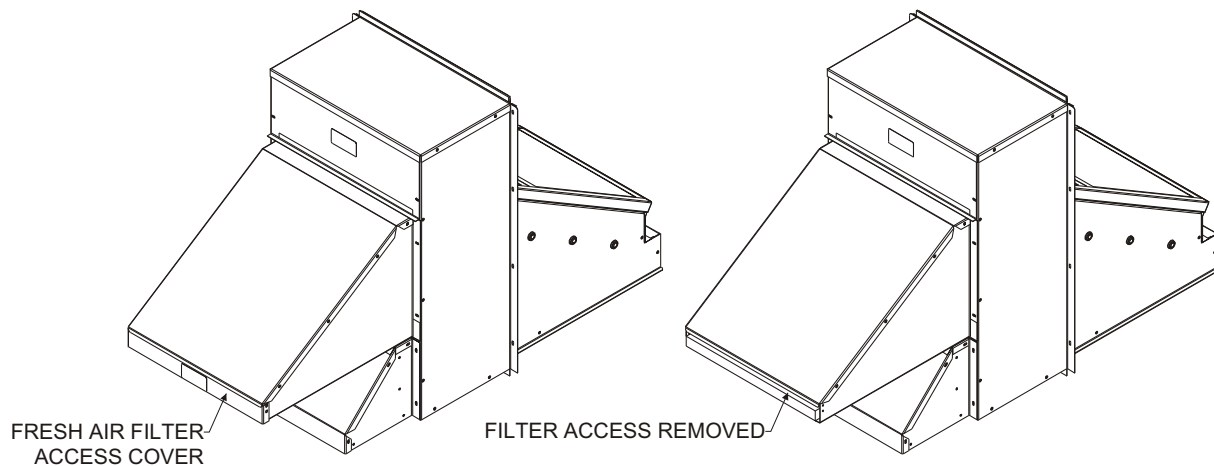


Figure 6

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209
PACKAGE EQUIPMENT MODELS
2-ST CONVERTIBLE PACKAGE UNITS
AC, HP OR GAS ELECTRIC

APPENDIX A

User Interface

The user interface consists of an LCD display and a 4-button keypad on the front of the Economizer module. The LCD is a 16 character by 2 line dot matrix display.

Power Up Cycle

All setpoints and advanced settings are restored after any power loss (a power loss is assumed if voltage falls below 18 Vac). Normal operation is restored when power returns above 18 Vac.

Initial Menu Display

On initial startup, **Honeywell** displays on the first line and **Economizer W7220** on the second line. After a brief pause, the revision of the software appears on the first line (second line is blank). It then displays **W7220 ↓** on the first line and **STATUS** on the second line.

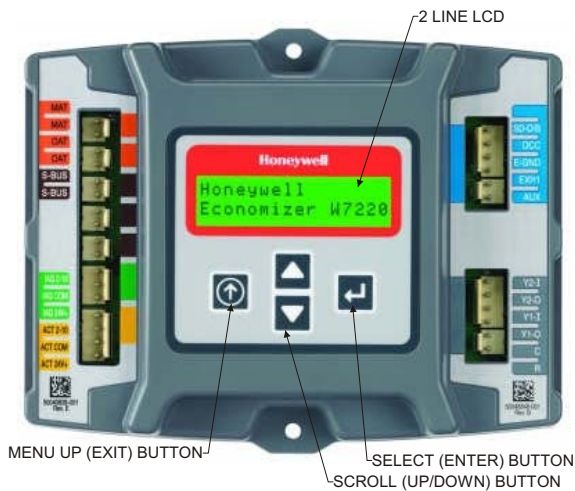


Figure 7

Keypad

The four navigation buttons illustrated in **Figure 7** are used to scroll through the menus and menu items, select menu items, and to change parameter and configuration settings.

Using the Keypad with Menus

To use the keypad when working with menus:

- Press the ▲ button to move to the previous menu.
- Press the ▼ button to move to the next menu.
- Press the ↵ button (Enter) to display the first item in the currently displayed menu.
- Press the ↑ button (Menu up) to exit a menu's item and return to the list of menus.

Using the Keypad with Settings and Parameters

To use the keypad when working with Setpoints, System and Advanced Settings, Checkout tests, and Alarms:

- Navigate to the desired menu.
- Press the ↵ button (Enter) to display the first item in

the currently displayed menu.

- Use the ▲ and ▼ buttons to scroll to the desired parameter.
- Press the ↵ button (Enter) to display the value of the currently displayed item.
- Press the ▲ button to increase (change) the displayed parameter value.^a
- Press the ▼ button to decrease (change) the displayed parameter value.^a
- Press the ↵ button to accept the displayed value and store it in non-volatile RAM.
- When the value is accepted, **CHANGE STORED** is displayed on the LCD.
- Press the ↵ button (Enter) to return to the current menu parameter.
- Press the ↑ button (MenuUp/Exit) to return to the previous menu.

^a When values are displayed, pressing and holding the ▲ or ▼ button causes the display to automatically increment.

Menu Structure

The following tables illustrate the complete hierarchy of menus and parameters for the JADE™ Economizer system.

The Menus in display order are:

- STATUS
- SETPOINTS
- SYSTEM SETUP
- ADVANCED SETUP
- CHECKOUT
- ALARMS

IMPORTANT

Your menu parameters may be different depending on your configuration.

For example if you do not have a DCV (CO₂) sensor, then none of the DCV parameters appear and only MIN POS will display. If you have a CO₂ sensor, the DCV MIN and DCV MAX will appear AND if you have 2 speed fan DCV MIN (high and low speed) and DCV MAX (high and low speed will appear).

SETUP AND CONFIGURATION

Before being placed into service, the JADE™ Economizer module must be setup and configured for the installed system. Use the System Setup menu, the Advanced Setup menu (if necessary), and the Setpoints menu to accomplish this.

Time-out and Screen saver

When no buttons have been pressed for 10 minutes, the LCD displays a screen saver, which cycles through the Status items. Each Status items displays in turn and cycles to the next item after 5 seconds.

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209 PACKAGE EQUIPMENT MODELS 2-5T CONVERTIBLE PACKAGE UNITS AC, HP OR GAS ELECTRIC

APPENDIX A

STATUS MENU

Parameter	Parameter Default Value	Parameter Range and Increment ^a	Notes
ECON AVAIL	NO	YES/NO	YES = economizing available; the system can use Outdoor Air for free cooling when required.
ECONOMIZING	NO	YES/NO	YES = Outdoor Air being used for 1st stage cooling.
OCCUPIED	NO	YES/NO	YES = OCC signal received from space thermostat or unitary controller. YES = 24 Vac on terminal OCC No = 0 Vac on terminal OCC.
HEAT PUMP	COOL	COOL/HEAT	Displays COOL or HEAT when SYSTEM is set to heat pump (non-conventional)
COOL Y1-IN	OFF	ON/OFF	Y1-I signal from space thermostat input for cooling stage 1 or heat pump heating stage 1. ON = 24 Vac on terminal Y1-I OFF = 0 Vac on terminal Y1-I
COOL Y1-OUT	OFF	ON/OFF	Cool Stage 1 Relay Output to stage 1 mechanical cooling (Y1-OUT terminal).
COOL Y2-IN	OFF	ON/OFF	Y2-I signal from space thermostat input for second stage cooling or heat pump heating stage 2. ON = 24 Vac on terminal Y2-I OFF = 0 Vac on terminal Y2-I
COOL Y2-OUT	OFF	ON/OFF	Cool Stage 2 Relay Output to mechanical cooling (Y2-OUT terminal).
MA TEMP	__ __ °F	-40 to 150°F	Displays value of measured mixed air from MAT sensor. Displays -.- if not connected, short, or out-of-range.
DA TEMP	__ __ °F	-40 to 150°F	Displays when Discharge Air Syk Bus sensor is connected and displays measured discharge air temperature. Displays -.-°F if sensor sends invalid value, if not connected, short or out-of-range.
OA TEMP	__ __ °F	-40 to 140°F	Displays measured value of outdoor air temperature. Displays -°F if sensor sends invalid value, if not connected, short or out-of-range.
OA HUM	__ %	0 to 100%	Displays measured value of outdoor humidity from OA Sykbus sensor. Displays -% if not connected, short, or out-of-range.
RA TEMP	__ __ °F	0 to 140°F	If field installed Dual Enthalpy sensor is connected, displays measured value of return air temperature. Displays -°F if sensor sends invalid value, if not connected, short or out-of-range.
RA HUM	__ %	0 to 100%	If field installed Dual Enthalpy sensor is connected, displays measured value of return air humidity. Displays -% if sensor sends invalid value, if not connected, short or out-of-range.
IN CO ₂	__ __ ppm	"0 to 2000 (3500) ppm"	If field installed CO ₂ sensor is connected, displays value of measured CO ₂ . Invalid if not connected, short or out-of-range. May be adjusted in Advanced menu by Zero offset and Span.
DCV STATUS	n/a	n/a	If field installed CO ₂ sensor is connected, displays ON if above setpoint and OFF if below setpoint.
DAMPER OUT	__ %	0 to 100%	Displays output position to the damper actuator. When used with Honeywell communicating actuator the damper out is in XX.X%
ACT POS.	n/a	0 to 100%	Displays actual position of actuator.
ACT COUNT	n/a	1 to 65,535	Displays number of times actuator has cycled. 1 Cycle equals 180° of movement in any direction.
ACTUATOR	n/a	OK/Alarm	Displays Error on ALARM MENU if voltage or torque is below actuator range.
EXH1 OUT	OFF	ON/OFF	Output of EXH1 terminal. Displays ON when damper position reaches programmed percentage setpoint. ON = 24 Vac Output; OFF = No Output.
EXH2 OUT	OFF	ON/OFF	Output of AUX1 O terminal Displays ON when damper position reaches programmed percentage setpoint ON = 24 Vac Output, OFF = No Output; displays only if AUX1 O = EXH2
ERV	OFF	ON/OFF	Output of AUX1 O terminal, ON = 24 Vac Output, OFF = No Output; displays only if AUX1 O = ERV
MECH COOL ON	0	0, 1, or 2	Displays number of mechanical cooling stages that are active.
FAN SPEED	n/a	LOW/HIGH	Displays speed of fan on a 2-speed fan unit
W (HEAT IN)	n/a	ON/OFF	Displays status of heat on a 2-speed fan unit.

When values are displayed, pressing and holding the ▲ or ▼ button causes the display to automatically increment.

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209
PACKAGE EQUIPMENT MODELS
2-5T CONVERTIBLE PACKAGE UNITS
AC, HP OR GAS ELECTRIC

APPENDIX A

SETPOINTS MENU

Parameter	Parameter Default Value	Parameter Range and Increment ^a	Notes
MAT SET	53°F	38 to 70°F; increment by 1	The economizer will modulate the OA damper to maintain the mixed air temperature at the setpoint.
LOW T LOCK	32°F	-45 to 80°F; increment by 1	Setpoint determines outdoor temperature when the mechanical cooling cannot be turned on. Commonly referred to as the Compressor lockout. At or below the setpoint the Y1-O and Y2-O will not be energized on the controller.
DRYBLB SET	63°F	48 to 80°F; increment by 1	Setpoint determines where the economizer will assume outdoor air temperature is good for free cooling; e.g.; at 63 °F setpoint unit will economize at 62 °F and below and not economize at 64 °F and above. There is a 2 °F deadband.
ENTH CURVE	ES3	ES1, ES2, ES3, ES4, or ES5	Does not display if a field installed Dual Enthalpy kit is connected. Enthalpy boundary "curves" for economizing using single enthalpy comparison between outdoor air enthalpy and setpoint.
DCV SET	1100 ppm	500 to 2000 ppm increment by 100	Displays ONLY if field installed CO ₂ sensor is connected. Setpoint for Demand Control Ventilation of space. Above the setpoint, the OA dampers will modulate open to bring in additional OA to maintain a space ppm level below the setpoint.
MIN POS	2.8 V	2 to 10 Vdc	Displays ONLY if a CO ₂ sensor is NOT connected. With 2-speed fan units MIN POS L (low speed fan) and MIN POS H (high speed fan) settings are required. Default for MIN POS L is 3.2V and MIN POS H is 2.8V
VENTMAX	2.8 V	2 to 10 Vdc	Displays only if a field installed CO ₂ sensor is connected. Used for Vbz (ventilation max cfm) setpoint. VENTMAX is the same setting as MIN POS would be if you did not have the CO ₂ sensor.
		100 to 9990 cfm increment by 10	If OA, MA, RA and CO ₂ sensors are connected and DCV CAL ENABLE is set to AUTO mode, the OA dampers are controlled by CFM and displays from 100 to 9990 cfm.
		2 to 10 Vdc	With 2-speed fan units VENTMAX L (low speed fan) and VENTMAX H (high speed fan) settings are required. Default for VENTMAX L is 3.2V and VENTMAX H is 2.8V.
VENTMIN	2.25 V	2 to 10 Vdc	Displays only if field installed CO ₂ sensor is connected. Used for Va (ventilation min cfm) setpoint. This is the ventilation requirement for less than maximum occupancy of the space.
		100 to 9990 cfm increment by 10	If OA, MA, RA and CO ₂ sensors are connected and DCV CAL ENABLE is set to AUTO mode, the OA dampers are controlled by CFM and displays from 100 to 9990 cfm.
		2 to 10 Vdc	With 2-speed fan units VENTMIN L (low speed fan) and VENTMIN H (high speed fan) settings are required. Default for VENTMIN L is 2.5V and VENTMIN H is 2.25V.
ERV OAT SP ^b	32°F	0 to 50°F; increment by 1	Only when AUX1 O = ERV
EXH1 SET	50%	0 to 100%; increment by 1	Setpoint for OA damper position when exhaust fan 1 is powered by the economizer. With 2-speed fan units Exh1 L (low speed fan) and Exh1 H (high speed fan) settings are required. Default for Exh1 L is 65% and Exh1 H is 50%.
EXH2 SET	75%	0 to 100%; increment by 1	Setpoint for OA damper position when exhaust fan 2 is powered by the economizer. Only used when AUX1 O is set to EXH2. With 2-speed fan units Exh2 L (low speed fan) and Exh2 H (high speed fan) settings are required. Default for Exh2 L is 80% and Exh2 H is 75%.

^a When values are displayed, pressing and holding the ▲ or ▼ button causes the display to automatically increment.

^b ERV Operation: When in Cooling mode AND the conditions are NOT OK for economizing - the ERV terminal will be energized. In the Heating mode the ERV terminal will be energized when the OA is below the ERV OAT setpoint in the setpoint menu.

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209
PACKAGE EQUIPMENT MODELS
2-5T CONVERTIBLE PACKAGE UNITS
AC, HP OR GAS ELECTRIC

APPENDIX A

SYSTEM SETUP MENU

Parameter	Parameter Default Value	Parameter Range and Increment ^a	Notes
INSTALL	01/01/2011		Display order = MM/DD/YY. Setting order = DD, MM, then YY.
UNITS DEG	°F	°F or °C	Sets economizer controller in degrees Fahrenheit or Celsius.
EQUIPMENT	CONV	CONV HP	CONV = conventional. HP O/B = Enables Heat Pump mode. Use AUX2 I for Heat Pump input from thermostat or controller.
AUX2 I	N/A	Shutdown (SD) Heat (W1) HP(O) HP(B)	In CONV mode: SD = Enables configuration of shutdown (default); W = Informs controller that system is in heating mode. NOTE: If using 2-speed fan mode, you must pro-program CONV mode for W. Shutdown is not available in the two-speed fan mode. In HP O/B mode: HP(O) = energize heat pump on Cool (default); HP(B) = energize heat pump on Heat.
FAN TYPE	1 speed	1 speed/ 2 speed	Sets economizer controller for operation of 1 speed or 2 speed supply fan. The controller does not control the fan but positions the OA and RA dampers to the heating or cooling mode. NOTE: 2-speed fan option also needs Heat (W1) pro-programmed in AUX 2 In.
FAN CFM	5000cfm	100 to 15000 cfm; increment by 100	This is the capacity of the RTU. The value is found on the label from the RTU manufacturer. The cfm of the fan is only used with DCV CAL ENABLE AUO
AUX1 OUT	NONE	NONE ERV EXH2 SYS	- NONE = not configured (output is not used) - ERV= Energy Recovery Ventilator - EXH2 = second damper position relay closure for second exhaust fan. - SYS = use output as an alarm signal
OCC	INPUT	INPUT or ALWAYS	When using a setback thermostat with occupancy out (24 Vac), the 24 Vac is input "INPUT" to the OCC terminal. If no occupancy output from the thermostat then change program to "ALWAYS" OR add a jumper from terminal R to OCC terminal.
FACTORY DEFAULT	NO	NO or YES	Resets all set points to factory defaults when set to YES. LCD will briefly flash YES and change to NO but all parameters will change to factory default values.

^a When values are displayed, pressing and holding the ▲ or ▼ button causes the display to automatically increment.

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209
PACKAGE EQUIPMENT MODELS
2-ST CONVERTIBLE PACKAGE UNITS
AC, HP OR GAS ELECTRIC

APPENDIX A

ADVANCE SETUP MENU

Parameter	Parameter Default Value	Parameter Range and Increment ^a	Notes
MA LO SET	45°F	35 to 55°F increment by 1°	Temp to activate Freeze Protection (close damper or modulate to MIN POS if temp falls below set value)
FREEZE POS	CLO	CLO MIN	Damper position when freeze protection is active (closed or MIN POS).
CO ₂ ZERO	0 ppm	0 to 500 ppm increment by 10	Displays only if field installed CO ₂ sensor is connected. CO ₂ ppm level to match CO ₂ sensor start level.
CO ₂ SPAN	2000 ppm	1000 to 3000 ppm; increment by 50	Displays only if field installed CO ₂ sensor is connected. CO ₂ ppm span to match CO ₂ sensor; e.g.; 500-1500 sensor output would be 500 CO ₂ zero and 1000 CO ₂ span. See note on page 6 for C7632 CO ₂ sensor.
STG3 DLY	2.0h	0 min, 5 min, 15 min, then 15 min intervals. Up to 4h or OFF	Delay after stage 2 for cool has been active. Turns on 2nd stage of mechanical cooling when economizer is 1st stage call and mechanical cooling is 2nd stage call. Allows three stages of cooling, 1 economizer and 2 mechanical. OFF = no Stage 3 cooling.
SD DMPR POS	CLO	CLO OPN	Indicates shutdown signal from space thermostat. When controller receives 24 Vac input on the SD terminal in conventional mode, the OA damper will open if programmed for OPN and OA damper will close if programmed for CLO. All other controls, e.g., Y1-O, Y2-O, EXH1, etc. will shut off.
DCVCAL ENA	MAN	MAN (manual) AUTO	Turns on the DCV automatic control of the dampers. Resets ventilation based on the RA, OA and MA sensor conditions. Requires all sensors (RA, OA, MA and CO ₂). This operation is not operable with a 2-speed fan unit.
MAT T CAL	0.0 F°	+/-2.5F°	Allows for the operator to adjust for an out of calibration mixed air temperature sensor.
OAS T CAL	0.0F°	+/-2.5F°	Allows for the operator to adjust for an out of calibration outdoor air temperature sensor.
OAS H CAL	0% RH	+/-10% RH	Allows for the operator to adjust for an out of calibration outdoor air humidity sensor.
RA T CAL	0.0F°	+/-2.5F°	If field installed Dual Enthalpy sensor is connected, allows for the operator to adjust for an out of calibration temperature sensor.
RA H CAL	0% RH	+/-10% RH	If field installed Dual Enthalpy sensor is connected, allows for the operator to adjust for an out of calibration humidity sensor.
DA T CAL	0.0 F°	+/-2.5F°	Allows for the operator to adjust for an out of calibration Discharge Air Sylk Bus temperature sensor.
2SP FAN DELAY	5 Minutes	0 to 20 minutes in 1 minute increments.	When in economizing mode this is the delay for the high speed fan to try to satisfy the call for second stage cooling before the first stage mechanical cooling is enabled.

^a When values are displayed, pressing and holding the ▲ or ▼ button causes the display to automatically increment.

INSTALLATION INSTRUCTION

DOWNFLOW ECONOMIZER # 562533 / 563209
PACKAGE EQUIPMENT MODELS
2-5T CONVERTIBLE PACKAGE UNITS
AC, HP OR GAS ELECTRIC

APPENDIX A

CHECKOUT MENU^c

Parameter	Parameter Default Value	Parameter Range and Increment ^a	Notes
DAMPER VMIN-HS	n/a	n/a	Positions damper to VMIN position
DAMPER VMAX-HS	n/a	n/a	Positions damper to VMAX position.
DAMPER VMAX-LS			With 2-speed fan units the damper will position to VMAX low speed fan.
DAMPER OPEN	n/a	n/a	Positions damper to the full open position. Exhaust fan contacts enable during the DAMPER OPEN test. Make sure you pause in this mode to allow for exhaust contacts to energize due to the delay in the system.
DAMPER CLOSE	n/a	n/a	Positions outside air damper to the fully closed position.
CONNECT Y1-O	n/a	n/a	Closes the Y1-O relay (Y1-O). See CAUTION on below
CONNECT Y2-O	n/a	n/a	Closes the Y2-O relay (Y2-O). See CAUTION on below
CONNECT AUX1-O	n/a	n/a	Energizes the AUX1-O output. If AUX1-O setting is: - NONE – no action taken - ERV – 24 Vac out. Turns on or signals an ERV that the conditions are not good for economizing but are good for ERV operation.^b - SYS – 24 Vac out. Issues a system alarm.
CONNECT EXH1	n/a	n/a	Closes the power exhaust fan 1 relay (EXH1)

^a When values are displayed, pressing and holding the p or q button causes the display to automatically increment.

^b ERV Operation: When in Cooling mode AND the conditions are NOT OK for economizing - the ERV terminal will be energized. In the Heating mode the ERV terminal will be energized when the OA is below the ERV OAT setpoint in the setpoint menu.

^c After 10 minutes without a command or mode change, the controller will change to normal operation.

CHECKOUT

Inspect all wiring connections at the Economizer module's terminals, and verify compliance with the installation wiring diagrams.

For checkout, review the Status of each configured parameter and perform the Checkout tests.

Note: See "Interface Overview" on page 5. for information about menu navigation and use of the keypad.



WARNING:
Electrical Shock Hazard.
Can cause severe injury, death or property damage.
Disconnect power supply before beginning wiring or making wiring connections, to prevent electrical shock or equipment damage.

If any wiring changes are required, first be sure to remove power from the Economizer module before starting work. Pay particular attention to verifying the power connection (24 Vac).

Power Up

After the module is mounted and wired, apply power.

Power Up Delay

Upon power up (or after a power outage or brownout), the W7220 controller module begins a 5 minute power up delay before enabling mechanical cooling.

Power Loss (Outage or Brownout)

All setpoints and advanced settings are restored^a after any power loss or interruption.

Note: If power goes below 18 Vac, the W7220 controller module assumes a power loss and the 5 minute power up delay will become functional when power returns above 18 Vac.

^a All settings are stored in non-volatile flash memory.

Status

Use the **Status Menu** to check the parameter values for the various devices and sensors configured.

Checkout Tests

Use the **Checkout Menu** to test the damper operation and any configured outputs. Only items that are configured are shown in the Checkout menu.

To perform a Checkout test:

1. Scroll to the desired test in the Checkout menu using the ▲ and ▼ buttons.
2. Press the ← button to select the item.
3. RUN? appears on the display.
4. Press the ← button to start the test.
5. The unit pauses and then displays **TEST RUNNING**.
6. Press the button ↑ (Menu up) to end the test (e.g. turn off the relay). Test stops automatically after 10 minutes without a command or mode change, and will resume normal operation.

The checkout tests can all be performed at the time of installation or any time during the operation of the system as a test that the system is operable.



CAUTION
Equipment damage may result.

Be sure to allow enough time for compressor startup and shutdown between checkout tests so that you do not short-cycle the compressors.

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ALARM MENU

Parameter	Parameter Default Value	Parameter Range and Increment ^a	Notes
MA T SENS ERR	n/a	n/a	Alarms display only when they are active. The menu title "ALARMS ()" includes the number of active alarms in parenthesis ().
CO ₂ SENS ERR	n/a	n/a	
OA T SENS ERR	n/a	n/a	
DA ENTHL ERR	n/a	n/a	
SYS ALARM	n/a	n/a	When AUX1 O is set to SYS and there is any alarm (e.g., failed sensors, etc.), the AUX1 O terminal has 24 Vac out.
ACT UNDER V	n/a	n/a	Voltage received by Actuator is above expected range
ACT OVER V	n/a	n/a	Voltage received by Actuator is below expected range
ACT STALLED	n/a	n/a	Actuator stopped before achieving commanded position

^a When values are displayed, pressing and holding the p or q button causes the display to automatically increment.

Alarms

The Economizer module provides alarm messages that display on the 2-line LCD.

NOTE: Upon power up, the module waits 60 minutes before checking for alarms. This allows time for all the configured devices (e.g. sensors, actuator) to become operational. The exception is the MA sensor which will alarm immediately.

If one or more alarms are present and there has been no keypad activity for at least 5 minutes, the Alarms menu displays and cycles through the active alarms. You can also navigate to the Alarms menu at any time.

Clearing Alarms

Once the alarm has been identified and the cause has been removed (e.g. replaced faulty sensor), the alarm can be cleared from the display. To clear an alarm, perform the following:

1. Navigate to the desired alarm.
2. Press the ← button.
3. **ERASE?** displays.
4. Press the ← button.
5. **ALARM ERASED** displays.
6. Press the button ↑ (MenuUp/Exit) to complete the action and return to the previous menu.

NOTE: If an alarm still exists after you clear it, it redisplay within 5 seconds.

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SEQUENCE OF OPERATION

Dry Bulb Operation No DCV (CO2 sensor) - 1 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
None	No	Off	Off	High	0-v/Off	0-v/Off	MIN POS	Closed
		On	Off	High	24-v/On	0-v/Off	MIN POS	Closed
		On	On	High	24-v/On	24-v/On	MIN POS	Closed
None	Yes	Off	Off	High	0-v/Off	0-v/Off	MIN POS	Closed
		On	Off	High	0-v/Off	0-v/Off	MIN POS to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	MIN POS to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

Dry Bulb Operation With DCV (CO2 sensor) - 1 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
Below CO2 set	No	Off	Off	High	0-v/Off	0-v/Off	VENTMIN	Closed
		On	Off	High	24-v/On	0-v/Off	VENTMIN	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN	Closed
	Yes	Off	Off	High	0-v/Off	0-v/Off	VENTMIN	Closed
		On	Off	High	0-v/Off	0-v/Off	VENTMIN to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	VENTMIN to Full-Open	Closed to Full-Open
Above CO2 set	No	Off	Off	High	0-v/Off	0-v/Off	VENTMIN to VENTMAX	Closed
		On	Off	High	24-v/On	0-v/Off	VENTMIN to VENTMAX	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN to VENTMAX	Closed
	Yes	Off	Off	High	0-v/Off	0-v/Off	VENTMIN to VENTMAX	Closed
		On	Off	High	0-v/Off	0-v/Off	VENTMIN to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	VENTMIN to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

Enthalpy Operation No DCV (CO2 sensor) - 1 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
None	No	Off	Off	High	0-v/Off	0-v/Off	MIN POS	Closed
		On	Off	High	24-v/On	0-v/Off	MIN POS	Closed
		On	On	High	24-v/On	24-v/On	MIN POS	Closed
None	Yes	Off	Off	High	0-v/Off	0-v/Off	MIN POS	Closed
		On	Off	High	0-v/Off	0-v/Off	MIN POS to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	MIN POS to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

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Enthalpy Operation With DCV (CO2 sensor) - 1 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
Below set	No	Off	Off	High	0-v/Off	0-v/Off	VENTMIN	Closed
		On	Off	High	24-v/On	0-v/Off	VENTMIN	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN	Closed
	Yes	Off	Off	High	0-v/Off	0-v/Off	VENTMIN	Closed
		On	Off	High	0-v/Off	0-v/Off	VENTMIN to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	VENTMIN to Full-Open	Closed to Full-Open
Above set	No	Off	Off	High	0-v/Off	0-v/Off	VENTMIN to VENTMAX	Closed
		On	Off	High	24-v/On	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN H to VENTMAX	Closed
	Yes	Off	Off	High	0-v/Off	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	Off	High	0-v/Off	0-v/Off	VENTMIN to Full-Open	Closed to Full-Open
		On	On	High	DELAY (b) 24-v/On	0-v/Off ^a	VENTMIN to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

Dry Bulb Operation No DCV (CO2 sensor) - 2 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
None	No	Off	Off	Low	0-v/Off	0-v/Off	MIN POS L	Closed
		On	Off	Low	24-v/On	0-v/Off	MIN POS L	Closed
		On	On	High	24-v/On	24-v/On	MIN POS H	Closed
None	Yes	Off	Off	Low	0-v/Off	0-v/Off	MIN POS L	Closed
		On	Off	Low	0-v/Off	0-v/Off	MIN POS L to Full-Open	Closed to Full-Open
		On	On	High	DELAY ^b 24-v/On	0-v/Off ^a	MIN POS H to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

^b With 2SP FAN DELAY (Advanced Setup Menu) when in the economizing mode there is a delay for the high speed fan to try to satisfy the call for second stage cooling by turning on the fan to high and opening the OA damper 100% before the first stage mechanical cooling is enabled.

Dry Bulb Operation With DCV (CO2 sensor) - 2 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
Below set	No	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L	Closed
		On	Off	Low	24-v/On	0-v/Off	VENTMIN L	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN H	Closed
	Yes	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L	Closed
		On	Off	Low	0-v/Off	0-v/Off	VENTMIN L to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	VENTMIN H to Full-Open	Closed to Full-Open
Above set	No	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	Off	Low	24-v/On	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN H to VENTMAX	Closed
	Yes	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	Off	Low	0-v/Off	0-v/Off	VENTMIN L to Full-Open	Closed to Full-Open
		On	On	High	DELAY ^b 24-v/On	0-v/Off ^a	VENTMIN H to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

^b With 2SP FAN DELAY (Advanced Setup Menu) when in the economizing mode there is a delay for the high speed fan to try to satisfy the call for second stage cooling by turning on the fan to high and opening the OA damper 100% before the first stage mechanical cooling is enabled.

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Enthalpy Operation No DCV (CO2 sensor) - 2 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
NO CO2 SENSOR	No	Off	Off	Low	0-v/Off	0-v/Off	MIN POS L	Closed
		On	Off	Low	24-v/On	0-v/Off	MIN POS L	Closed
		On	On	High	24-v/On	24-v/On	MIN POS H	Closed
	Yes	Off	Off	Low	0-v/Off	0-v/Off	MIN POS L	Closed
		On	Off	Low	0-v/Off	0-v/Off	MIN POS L to Full-Open	Closed to Full-Open
		On	On	High	DELAY ^b 24-v/On	0-v/Off ^a	MIN POS H to Full-Open	Closed to Full-Open

^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

^b With 2SP FAN DELAY (Advanced Setup Menu) when in the economizing mode there is a delay for the high speed fan to try to satisfy the call for second stage cooling by turning on the fan to high and opening the OA damper 100% before the first stage mechanical cooling is enabled.

Dry Bulb Operation With DCV (CO2 sensor) - 2 Speed Fan.								
DCV	OA Good to economize?	Y1-I	Y2-I	FAN SPD	Y1-O	Y2-O	Occupied	Unoccupied
Below set	No	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L	Closed
		On	Off	Low	24-v/On	0-v/Off	VENTMIN L	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN H	Closed
	Yes	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L	Closed
		On	Off	Low	0-v/Off	0-v/Off	VENTMIN L to Full-Open	Closed to Full-Open
		On	On	High	24-v/On	0-v/Off ^a	VENTMIN H to Full-Open	Closed to Full-Open
Above set	No	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	Off	Low	24-v/On	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	On	High	24-v/On	24-v/On	VENTMIN H to VENTMAX	Closed
	Yes	Off	Off	Low	0-v/Off	0-v/Off	VENTMIN L to VENTMAX	Closed
		On	Off	Low	0-v/Off	0-v/Off	VENTMIN L to Full-Open	Closed to Full-Open
		On	On	High	DELAY ^b 24-v/On	0-v/Off ^a	VENTMIN H to Full-Open	Closed to Full-Open

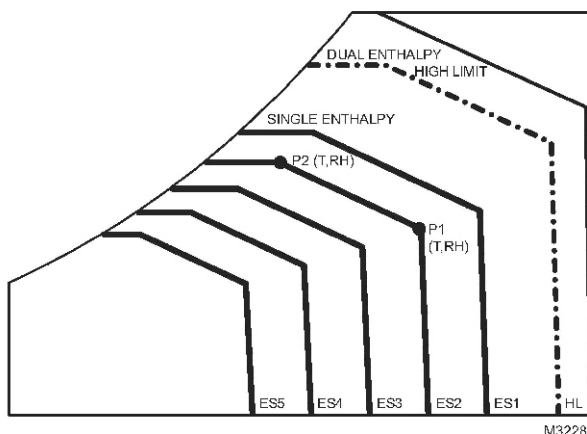
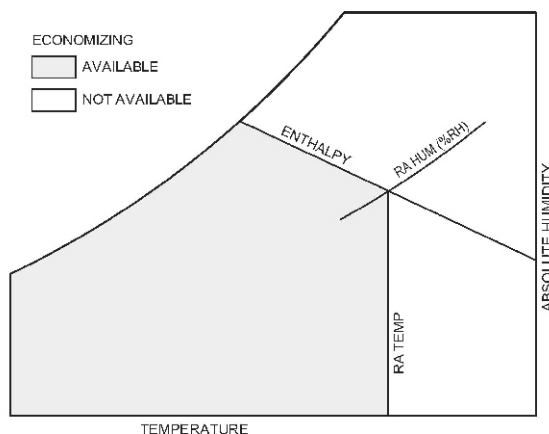
^a With stage 3 delay (STG3 DLY) in Advanced setup menu can turn on 2nd stage of mechanical cooling Y2 –O after the delay if the call for Y1-I and Y2-I have not been satisfied.

^b With 2SP FAN DELAY (Advanced Setup Menu) when in the economizing mode there is a delay for the high speed fan to try to satisfy the call for second stage cooling by turning on the fan to high and opening the OA damper 100% before the first stage mechanical cooling is enabled.

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Single Enthalpy and Dual Enthalpy High Limit Curves

Enthalpy Curve	Temp. Dry-Bulb (°F)	Temp. Dewpoint (°F)	Enthalpy (btu/lb/da)	Point P1		Point P2	
				Temp. °F	Humidity %RH	Temp. °F	Humidity %RH
ES1	80.0	60.0	28.0	80.0	36.8	66.3	80.1
ES2	75.0	57.0	26.0	75.0	39.6	63.3	80.0
ES3	70.0	54.0	24.0	70.0	42.3	59.7	81.4
ES4	65.0	51.0	22.0	65.0	44.8	55.7	84.2
ES5	60.0	48.0	20.0	60.0	46.9	51.3	88.5
HL	86.0	66.0	32.4	86.0	38.9	72.4	80.3

Enthalpy Settings

When the OA temperature, enthalpy and dew point are below the respective setpoints, the Outdoor Air can be used for economizing. Fig. 18 shows the new single enthalpy boundaries in the W7220. There are 5 boundaries (setpoints ES1 through ES5), which are defined by dry bulb temperature, enthalpy and dew point.

Refer to Table above for the ENTH CURVE setpoint values.

To use enthalpy the W7220 must have a C7400S Sylbus sensor for OA. The W7220 calculates the enthalpy and dew point using the OA temperature and humidity input from the OA sensor. When the OA temperature, OA humidity and OA dew point are all below the selected boundary, the economizer sets the economizing mode to YES, economizing is available.

When conditions are above the selected boundary, the conditions are not good to economize and the mode is set to NO.

Figure ## shows the 5 current boundaries. There is also a high limit boundary for differential enthalpy. The high limit boundary is ES1 when there are no stages of mechanical cooling energized and HL when a compressor stage is energized.

The table above provides the values for each boundary limit.

Two-Speed Fan Operation

The later versions of the W7220 Jade controller have the capability to work with a system using a 2-speed supply fan. The W7220 does not control the supply directly but uses the following input status to determine the speed of the supply fan and controls the OA damper to the required position.

State	Fan Speed
OCC	Low
Y1	Low
Y2	High
W	High

The W (heating mode) is not controlled by the W7220 but it requires the status to know where to position the OA damper for minimum position for the fan speed.

The 2 speed fan delay is available when the system is programmed for 2 speed fan (in the System Setup menu item). The 2 speed fan delay is defaulted to 5 minutes and can be changed in the Advanced Setup menu item. When the unit has a call for Y1 In and in the free cooling mode and there is a call for Y2 In, the 2-speed fan delay starts and the OA damper will modulate 100% open, the supply fan should be set to high speed by the unit controller. After the delay one of two actions will happen:

- The Y2 In call will be satisfied with the damper 100% open and fan on high speed and the call will turn off

OR

- If the call for additional cooling in the space has not been satisfied then the first stage of mechanical cooling will be enabled through Y1 Out or Y2 Out.

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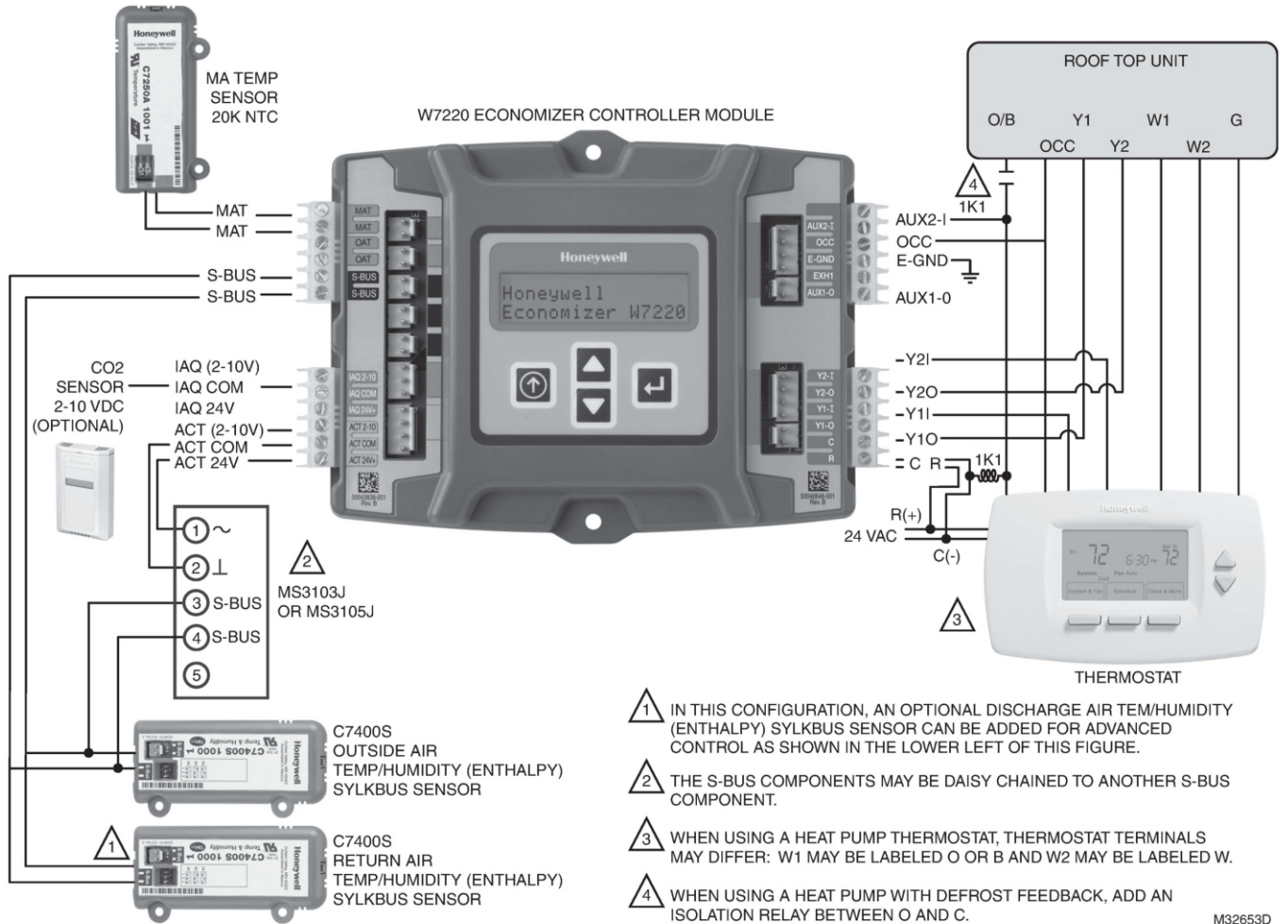
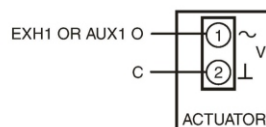


Figure 8
Economizer with Sylk Bus sensors for enthalpy configuration with a Honeywell MS3103J or MS3105J communicating actuators.



NOTE: ON/OFF ACTUATORS CAN BE USED ON THE EXH1 OR AUX1 O TERMINAL WITH GROUND TO THE C TERMINAL. WHEN PROGRAMMING THE EXH1 OR AUX1 O, THE % IS THE PERCENT OPEN POSITION OF THE OUTDOOR AIR DAMPER WHEN THE EXH1 OR AUX1 O TERMINAL IS ENERGIZED AND THE 2-POS DAMPER GOES OPEN. IF USING THE AUX1 O TERMINAL PROGRAM AUX1 O FOR EXH2.

M33409

Figure 9
2-position actuator

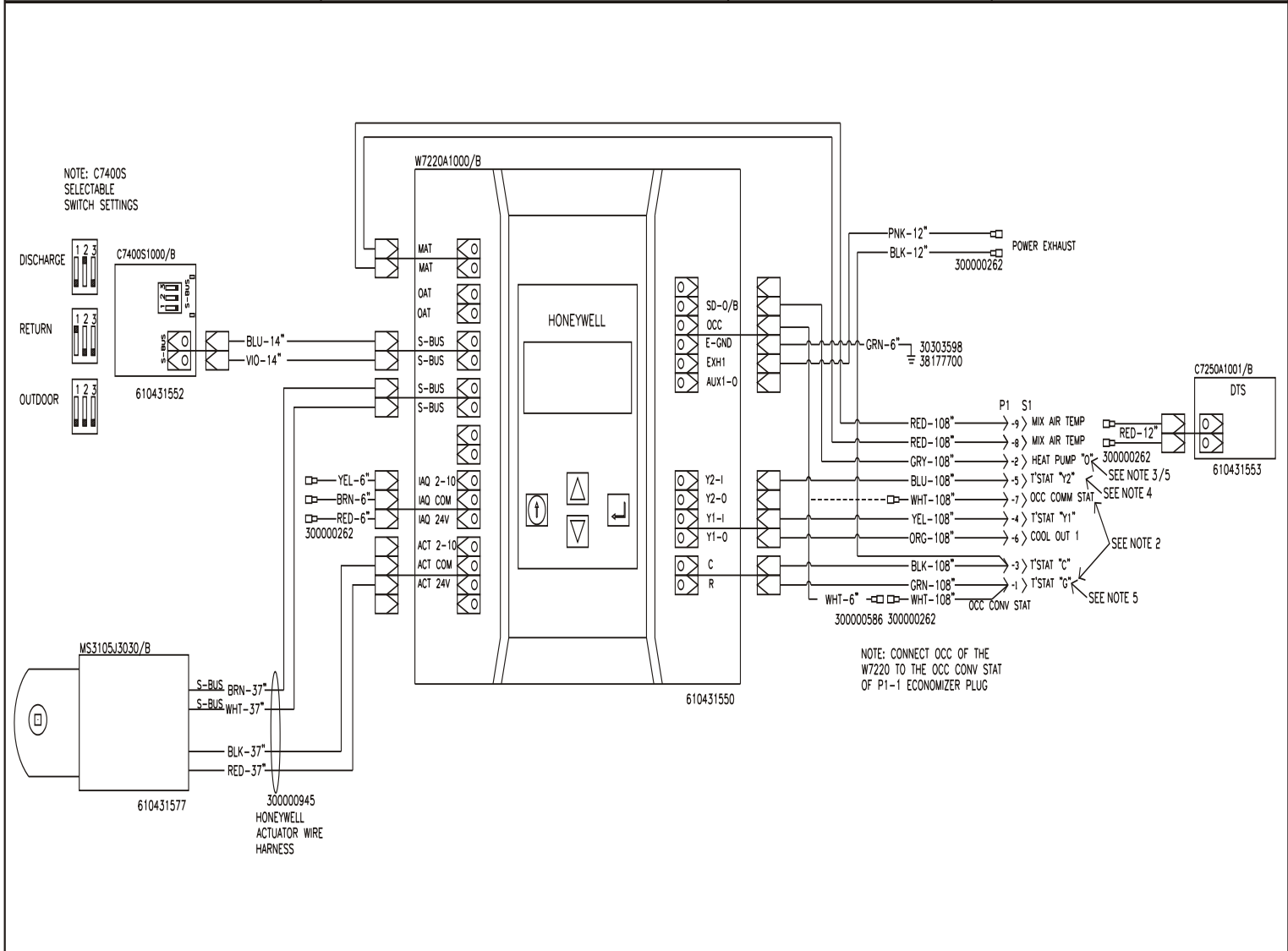
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HARNESS ENDS AT P1	COMPONENT CODE		WIRE COLOR CODE	Revision	Change	Date
	Nordyne#	Honeywell#				
	622754	MS3105J3030	Damper Actuator 24v			
	626621	W7220A1000	Logic Module			
	626622	C7400S1000	Fresh Air Enthalpy Sensor			
	626623	C7250A1001	Mixed Air Temperature Sensor			
	-----	P1	Male Interface Unit Plug			
	-----	S1	Male Interface Unit Plug			
			BLK Black			
			BLU Blue			
			BRN Brown			
			GRN Green			
			GRY Gray			
			ORG Orange			
			PNK Pink			
			RED Red			
			TAN Tan			
			VIO Violet			
			WHT White			
			YEL Yellow			



Notes: - Unit wiring shown as reference only. Check unit wiring for actual unit wiring. - Standard connection shown. When this economizer is used in conjunction with a commercial thermostat that has an OCC connection, unplug white wire with insulated terminal from pin # 1 and plug into white wire from pin # 7. Connect the thermostat OCC output to A1 terminal on the unit low voltage terminal board. (On older models without A1 terminal connection a field supplied wire can be routed and connected to the unplugged white wire from Pin # 1 to JADE OCC) - Economizer pin location S1-2 connected to the following: - Package Gas/Electrics - "W1" or Gas valve - Package Air Conditioners - "W1" - Package Heat Pumps - "O" for Cooling mode of operation - For mechanical cooling (compressor) to energize during economizer cooling mode of operation, a thermostat "Y2" call must be present. A 2 stage cooling thermostat is required for this operation. - See unit low voltage wiring instruction changes required for economizers equipped with the Honeywell W220 JADE control module and Page 3 of these instructions.		DOWNFLOW ECONOMIZER # 562533 / 563209 PACKAGE EQUIPMENT MODELS 2-ST CONVERTIBLE PACKAGE UNITS AC, HP OR GAS ELECTRIC	
RRS ROOFTOP SYSTEMS A Ruskin Company 1625 Diplomat Drive Carrollton, Texas 75006 Phone: (972) 247-7447 Fax: (972) 243-0940		Date: February 18, 2015 Supersedes: Drawn by: MGL Unit #: 47-366-06 Diagram#: 4736606W Approved by:	
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