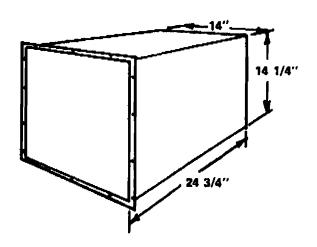
DUO-THERM

GAS SEALED FORCED AIR FURNACE Installation & Operating Instructions

The 65000 Series DUO-THERM sealed combustion system forced air furnace is certified by the American Gas Association for installation in a mobile home or travel trailer. These furnaces are for use with L.P. gases and must be installed in accordance with these instructions for proper performance. Before starting the installation, consult applicable state and local codes.

	Clearances from tible Material
Side	0"
Тор	0"
Bottom	0"
Front	As required for accessibility and return air

DIMENSIONS		
Length	24 3/4"	
Height	1411/4"	
Width	14"	



	MODE	NUMBER	65017	65020	65025	65028
A.G.A.	SEA	INPUT	16,500	19,000	25,000	28,000
RATING	LEVEL	Bonnet Capa	city 13,200	15,200	20,000	22,400
Gas Connection						
Gas Conne	stion	·· • · · · · · · · · · · · · · · · · ·	3/8"N.P.T.	3/8"N.P.T.	3/8"N,P,T.	3/8"N.P.T
Gas Conne	ction Suffix -1	; -3; -5	3/8"N.P.T.		3/8"N,P,T.	3/8"N.P.T
1		· · ·			3/8"N.P.T.	3/8"N.P.T
1	Suffix -1	· · ·	115 VAC & 12 V		3/8"N.P.T.	3/8"N.P.T

The installation is to be adjusted to obtain a temperature rise within the range specified on the furnace rating plate.

When used in connection with a cooling unit, the furnace shall be installed parallel with or on the upstream side of the cooling unit to avoid condensation in the heating element.

READ THESE INSTRUCTIONS AND KEEP FOR FUTURE REFERENCE.

Installation Instructions

INSTALLATION FOR SIDE DUCT DISCHARGE

The furnace can be installed at 0 in clearance to the sides when employing special duct connector No. 9-2654 in any of several configurations.

The side duct configurations are:

- A. Front right and left
- B. Rear right and left
- C. Front right and rear left
- D. Front left and rear right

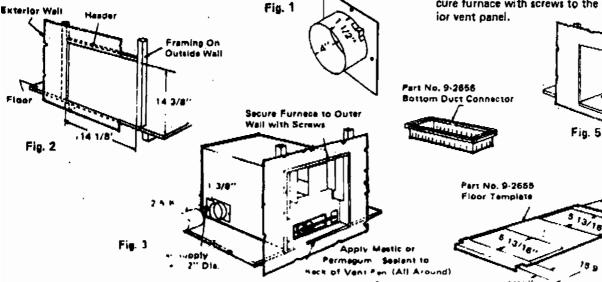
The furnace casing has two knockouts on each side, each with four pre-drilled holes for mounting side duct connectors.

INSTALLATION ACCESSORIES

The only parts required for the side duct discharge installation are two part number 9-2654, SIDE DUCT CONNECTORS, with screws, See Figure 1.

INSTALLATION

- Select a location for the furnace on an outside wall as near the center of the coach as possible. Check for obstructions.
- Cut outside wall opening 14-1/8" wide by 14-3/8" high, See Figure 2.
- Remove desired 4" by 4" knockouts from side of furnace casing and cut out insulation around holes.
- Stide furnace into opening. Before sliding all the way in, apply mastic or permagum sealant to back of vent pan. Secure furnece with screws to the outer wall. Attach exterior vent panel.
- 5. Attach side duct connectors to furnace casing with screws that are provided. Slide ducts over connectors and seal with duct tape. See Figure 3.



INSTALLATION . FOR BOTTOM DUCT DISCHARGE

The furnace can be installed at 0 in, clearance to the botto when employing special duct connector Part No. 9-2656 any of the following configurations:

Bottom duct configurations are:

- A. Bottom Front
- B. Bottom Rear

The furnace casing has four knockouts in the bottom pane For option A above, remove two knockouts in bottom front For option B above, remove two knockouts in bottom rea

INSTALLATION ACCESSORIES

The only part required for the bottom duct discharge installtion is Part No. 9-2656, BOTTOM DUCT CONNECTOR. Se Figure 4.

Part No. 9-2655 FLOOR TEMPLATE, furnished Joon request

INSTALLATION

- Select a location on the outside wall as near the cente of the coach as possible. Check for obstructions.
- Cut outside wall opening 14 1/8" wide by 14 3/8" See Figure 2.
- Remove desired 2.7/8" by 5" knockouts from bottom of furnace casing and cut out insulation around holes.
- 4. Lay floor template and mark location of descript opening Remove floor template and cut floor through at this location.
- Place the bottom duct connector in the duct openin and bend the tabs over to secure. Seal the connection with duct tap. See Figure 5.
- 6. Slide furnace into wall opening carefully so as not a damage gasket. Before sliding all the way in appropriate or permagum sealant to back of vent pan. Secure furnace with screws to the outer wall. Attach extersior vent panel.

ELECTRICAL WIRING

- Remove cover from electrical enclosure
- Bring battery leads through casing opening on left side and connect to terminals marked "-12VDC+". Observe polarity of leads when making connections.
- Bring thermostat lead through same opening and connect to terminias marked "THERM".

Recommended wire size: 12VDC - No. 12 or No. 14 AWG
Thermostat - No. 18 AWG Solid or stranded

Bring 115 VAC (60 cycle) supply leads through 7/8" diameter hole in junction box. Connect leads in junction box with approved splicing device.

GAS PIPING

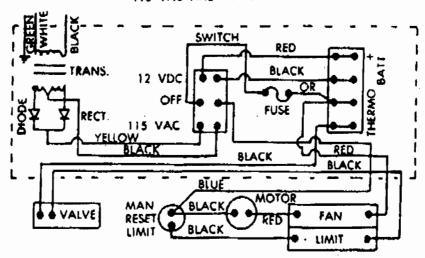
- Route gas supply line through opening on right side of furnace or through bottom of casing. See Figure 3
- 2. Paint male threads of all pipe joints with a compoun resistant to the action of L.P. gases to prevent gas leak Connect gas supply line to the gas control. Turn on ga and check for leaks at all joints. USE A SOAP AND WATER SOLUTION. DO NOT USE FLAME.

NOTE:

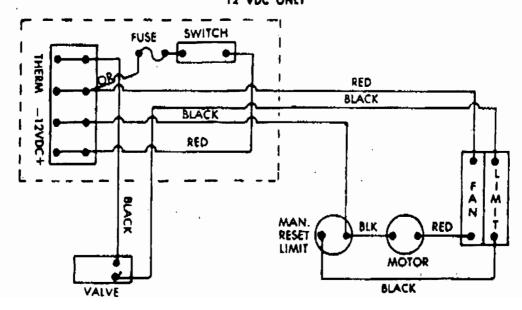
SHUT OFF VALVE, IT MUST BE LOCATED OUTSIDE THE FURNACE CASING.

WIRING DIAGRAM

65000-1 \$ERIES 115 VAC AND 12 VDC



65000-2 SERIES



10-25-88 09:26 T-DOMETIC ELKHART

#575 PØ4

Operating Instructions

NO. 65000 SERIES SEALED COMBUSTION SYSTEM FORCED-AIR FURNACE

NOTE:

If furnece is equipped with a converter package, set voltage selector switch to desired voltage. To conserve bettery power use 115 VAC whenever evallable.

LIGHTING AND RELIGHTING INSTRUCTIONS

For Models without Spark lighter (Suffix —5 & —6)

- 1. Press gas cock dial in and turn to "Off".
- 2. Turn thermostat to lowest setting and wait five minutes.
- 3. Turn gas cock dial to "Pilot".
- Press gas cock dial in and light pilot. Hold in until pilot remains lighted. (30 - 60 seconds).
- Turn gas cock dial to "ON".
- 6. Set thermostet to desired temperature.

For complete shut off, press gas cock dial in and turn to "Off". Turn thermostat to lowest setting.

For Models with Spark Igniter (Suffix -3, -4, -6 & -6)

- 1. Press cock dial in and turn to "Off".
- 2. Turn thermostat to lowest setting and weit five minutes.
- 3. Turn gas cock dial to "Pilot",
- Press gas cock diat in and light pilot by depressing spark igniter. Several strokes of the igniter may be required before pilot gas will ignite. Hold gas cock dial in until pilot remains lighted.
- 5. Turn ges cock dial to "On".
- Set thermostat to desired temperature,

For complete shut off, press gas cock dial in and turn to "Off". Turn thermostat to lowest setting.

PILOT ADJUSTMENT

Remove pilot adjusting cap on gas control. Adjust screw so flame completely envelopes the end of the thermocouple.

MAINTENANCE

The control compartment must be cleaned periodically to remove duct and lint.

IMPORTANT

Obstruction in the pilot system can cause pilot problems. Some of these obstructions could be as follows:

- A. Spider web in pilot burner.
- B. Dust or lint in the line.
- C. Dirt in the line.
- D. Water in the line.

Any of the above obstructions will require cleaning and/or removabl. Since the above items (A-D) are not directly attributed to the manufacture of the furnace, nor to defective parts, IT IS NOT A WARRANTY PROBLEM.

OPERATION OF THE FURNACE

When' the thermostat closes, the circuit to the electrically operated gas valve is completed. Gas is passed to the main burners and ignited by the pilot. As the heat rises in the chamber the automatic fan switch closes and the circulating air blower operates. When the thermostat is satisfied the circuit to the electrically operated gas valve is opened. This shuts off the gas flow to the main burners. When the temperature of the air inside the furnace is approximately 1050F the fan switch opens and stops blower operation.

LIMIT CONTROLS

This furnace is equipped with an automatic reset limit control and a manual reset limit control. The automatic control is incorporated into the fan switch and is located on the upper right side of the blower panel. The manual reset limit control is located on the right side of the blower housing behind cover. The limit switches will open when the heat exceeds the limit, caused by blocked registers, defective fan switch, defective blower motor, etc. and will not close until the abnormal conditions are corrected. The manual switch must be reset manually. Press the red button in until a click is heard.

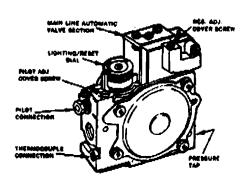
NOTE: If it i

If it is necessary to reset the manual switch any consecutive number of times, the cause of its tripping should be determined immediately.

FAN SWITCH

The fan switch is located on the upper right side of the blower panel. The control is calibrated at the fan off temperature which can be adjusted through a range of approximately 35° F.

This furnace should be adjusted by the installer to insure a temperature rise indicated on the rating plate.



LIGHTING PROCESORE



Turn to PILOT. Press dial in and light pilot. Hold for 60 seconds and release.



 Turn dial counterclockwise to ON. Use this position for main burneron control.



 Turn diel eleckwise to PILOT, praes diel in and turn to OFF. Use this position when complete shutdown is necessary, (Use PILOT position for temporary or sessonal shutdown).