WIRING DIAGRAMS

Heat only: Gas or Oil Furnace

Cool only

1H/1C: Gas Furnace

HEAT ONLY.
GAS OR OIL FURNACE.

COMPATIBLE LYRIC T6 MODELS:
TH6220WF2006
TH6320WF2003

Cool only

COOL ONLY.

COMPATIBLE LYRIC T6 MODELS:
TH6220WF2006
TH6320WF2003

1 COMMON REQUIRED.

G USED FOR INDEPENDENT FAN CONTROL ONLY. MOST HEAT ONLY, GAS OR OIL FORCED AIR SYSTEMS DO NOT USE A FAN (G) WIRE.

1 COMMON REQUIRED.

1H/1C GAS FURNACE +
AIR-CONDITIONING.

COMPATIBLE LYRIC T6 MODELS:
TH6220WF2006
TH6320WF2003

COMMON REQUIRED.
2H/1C: Gas Furnace

2 Transformer System, 1H/1C: Oil Furnace

Hot Water Boiler, Heat Only
Hot Water Heat with Power Open Zone Valve

HOT WATER HEAT WITH POWER OPEN ZONE VALVE.
COMPATIBLE LYRIC T6 MODELS:
TH6220WF2006
TH6320WF2003

R/Rc SWITCH UP
24 VOLTS
C
TRANSFORMER

HONEYWELL V8043 ZONE VALVES

COMMON REQUIRED.

1H/1C: Heat Pump without Aux Heat

1H/1C HEAT PUMP WITHOUT AUX HEAT.
COMPATIBLE T6 MODELS:
TH6210U2001
TH6220U2000
TH6320U2008

L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS!
THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

2H/2C: Gas Furnace

2H/2C GAS FURNACE + AIR-CONDITIONING.
COMPATIBLE LYRIC T6 MODELS:
TH6220WF2006
TH6320WF2003

R/Rc SWITCH UP

COMMON REQUIRED.
2H/1C: Heat Pump with Electric Aux Heat

2H/1C HEAT PUMP WITH ELECTRIC AUX HEAT.
COMPATIBLE LYRIC T6 MODELS:
TH6220WF2006
TH6320WF2003

COMMON REQUIRED.
L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE CAN BE DONE THROUGH ROUTER/INTERNET CONNECTION AND LYRIC APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THOSE CASES E ISN'T USED. THE TH6220WF2006 MODEL CAN BE CONFIGURED FOR SEPARATE AUX AND EM HEAT. IF THIS IS DONE, WIRE ONE SET OF STRIPS TO E TO BE ENERGIZED IN EM HEAT AND A DIFFERENT SET OF STRIPS TO AUX TO BE ENERGIZED IN AUX HEAT.
DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

2H/2C: Heat Pump without Aux Heat

2H/2C HEAT PUMP WITHOUT AUX HEAT.
COMPATIBLE LYRIC T6 MODELS:
TH6320WF2003

COMMON REQUIRED.
L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
3H/2C Heat Pump with Electric Aux Heat

- COMMON REQUIRED.
- L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
- SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
- DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
- LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE CAN BE DONE THROUGH ROUTER/INTERNET CONNECTION AND LYRIC APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
- DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
- MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THOSE CASES E ISN'T USED. IF THIS IS DONE, WIRE ONE SET OF STRIPS TO E TO BE ENERGIZED IN EM HEAT AND A DIFFERENT SET OF STRIPS TO AUX TO BE ENERGIZED IN AUX HEAT.

Dual Fuel, 2H/1C: Heat Pump

- COMMON REQUIRED.
- L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
- SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
- DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
- BALANCE POINT LOCKOUT CAN BE DONE THROUGH ROUTER/INTERNET CONNECTION AND LYRIC APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
- DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
**Dual Fuel, 3H/2C: Heat Pump**

![Diagram of Dual Fuel, 3H/2C: Heat Pump](image)

**ERV or HRV Whole House Ventilator with Built In Transformer**

![Diagram of ERV or HRV Whole House Ventilator with Built In Transformer](image)

**EARD Fresh Air Damper Powered by Furnace/Air-Handler Transformer**

![Diagram of EARD Fresh Air Damper Powered by Furnace/Air-Handler Transformer](image)

**EARD Fresh Air Damper Powered by a Dedicated Transformer**

![Diagram of EARD Fresh Air Damper Powered by a Dedicated Transformer](image)