

# VENTING DIAGRAMS

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## EMPIRE

COMFORT SYSTEMS

SINCE 1932

# DIRECT-VENT DIAGRAM



60% TO 80%  
HEAT ENTERING  
ROOM

AIR FOR  
COMBUSTION

HEAT AND  
PRODUCTS OF  
COMBUSTION  
EXPELLED

INNER OUTLET  
PIPE EXHAUSTS  
BY PRODUCTS

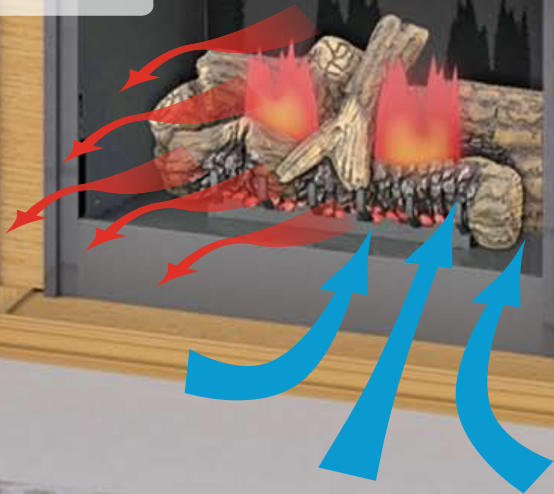
STANDARD INLET  
PIPE DRAWS IN  
FRESH AIR



- Heat transfer through glass front and by firebox circulation
- Vent through exterior wall or through roof



99.9% OF HEAT  
ENTERING THE  
ROOM



AIR FOR  
COMBUSTION

# VENT-FREE DIAGRAM



- Maximum heat efficiency (limited to 40,000 Btu)
- No glass front required
- Includes oxygen depletion sensor
- Supplemental heat only
- Simplest installation



40% TO 50%  
HEAT ENTERING  
ROOM

AIR FOR  
COMBUSTION

HEAT AND  
PRODUCTS OF  
COMBUSTION  
EXPELLED

# B-VENT DIAGRAM



- Fireplace aesthetic with minimal heating
- No glass front required

- Fit existing flue or new installation
- Vertical vent only