# THERMA PAK®

## CONDENSING BOILER & WATER HEATER COMBI

*A Product of*

SPACE PAK® CENTRAL AIR ANYWHERE

ENERGY STAR

SPACE PAK CENTRAL AIR ANYWHERE®

COMFORT WHEN YOU NEED IT

## SpacePak, the originator of small duct air distribution systems, is at it again...introducing our complete heating comfort solution for residential and light commercial applications.

SpacePak's new ThermaPak, a 91.1% efficient condensing "combi" boiler and domestic hot water package,is the perfect solution to all your hot water needs. Its space saving wall hung design provides high efficient heating for all hydronic baseboard and radiant systems. Domestic hot water production of over 4 gallons per minute provides ample hot water for showers, laundry and even washing the dishes while eliminating the need for a separate storage tank.

# High Efficient Gas-Fired, Wall Hung Boiler

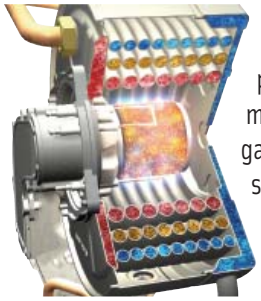
ThermaPak "combi" units offer an integrated domestic hot water coil, mounted and wired circulator pump and expansion tank all enclosed in its attractive sound-attenuated cabinet. Its panel mounted "on board" electronic control platform provides complete control over space-heating and domestic water settings.

# Standard Features

- **30 MBH to 160 MBH**
- **Environmentally Friendly – NOx 15 ppm**
- **91.1% - Certified DOE efficiency**
- **5:1 Continuous Modulation**
- **Major Components Fully Enclosed:**
  - ***Circulator Pump Mounted & Wired***
  - ***Instantaneous Domestic Hot Water***
  - ***Expansion Tank & Air Vent***
- **Concentric Vent Kit**

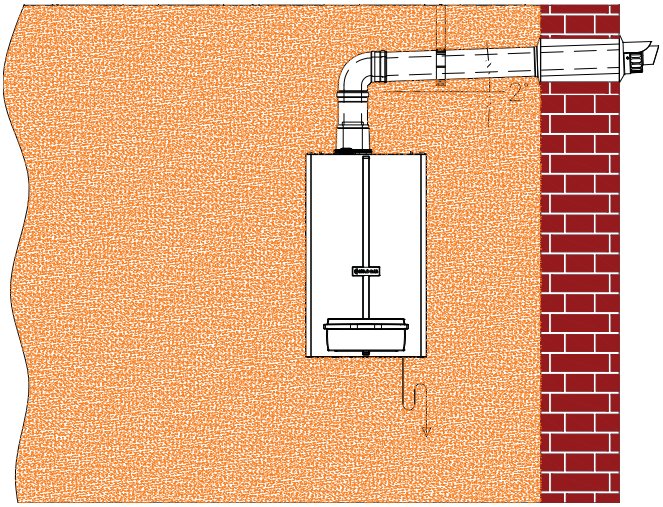
# Patented Heat Exchanger

ThermaPak's patented tri-parallel flow heat exchanger and premix air/gas modulation system offer full flow thru the unit with low pressure drop. A low-restriction mesh burner and negative pressure gas valve allow up to a 5:1 modulation sequence for capacity turndown providing optimal combustion for the highest operating efficiencies.



# Domestic Hot Water

Instantaneous hot water without the extra expense of a separate water heater or storage tank. Efficient integral copper coil provides over 4 GPM of domestic hot water on demand. Coil is easily removed for annual cleaning providing years of trouble-free service.



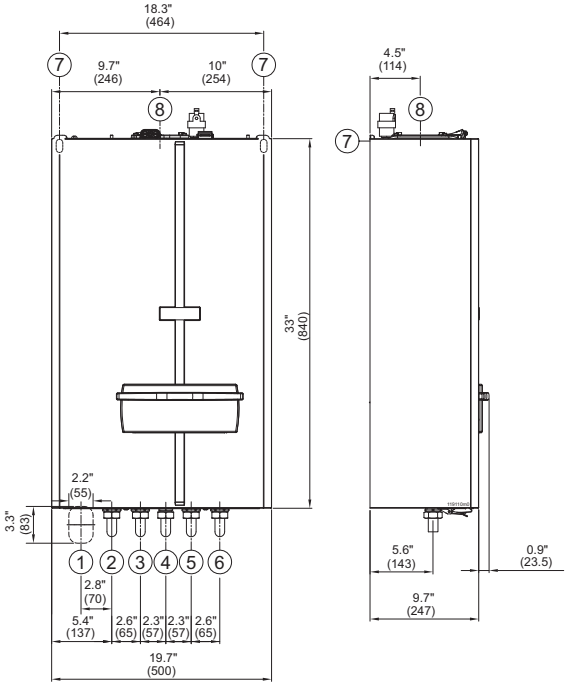
# Venting

Units are designed to be used with a concentric vent kit that can be vented either vertically or side-wall for application flexibility. Concentric vent kits allow the use of outside air for combustion, lowering fuel bills by reducing air infiltration. Kits are flexible and easy to install and can be vented up to 70 equivalent feet.

# Ratings and Engineering Data

| Technical Data | |
|---|---|
| Nominal heat input | 160,000 Btu/hr |
| Minimum heat input | 30,000 Btu/hr |
| Efficiency | 91.1% |
| DOE Heating capacity is based on standard test specified by the United StatesDepartment of Energy. | |
| D.H.W. heat output | 142,400 Btu/hr |
| Semi-Instantaneous D.H.W. production (75°F rise) | 4 gal/min |
| Maximum heating temperature | 190°F |
| Maximum heating pressure | 30 Psi |
| Maximum pressure of domestic hot water circuit | 125 Psi |
| Capacity of expansion tank | 2.64 gal |
| Nominal power supply voltage | 120/60 V/Hz |
| Electric power | 170 W |
| Flue gas pipes diameter (split) (polypropylene) | 3" |
| Flue gas pipes max. length (split) (polypropylene) | 300 ft |
| Flue gas pipes diameter (concentric) (polypropylene) | 2.36" / 3.94" |
| Flue gas pipes max. length (concentric) (polypropylene) | 70 ft |
| CO contents (0% O with natural gas) | 15 p.p.m. |
| NOx contents (0% O with natural gas) | 15 p.p.m. |
| Dimensions LxDxH(approximate) | 20" x 10" x 30" |
| Connections (supply - return - D.H.W. - D.C.W. - gas) | 3/4" |
| Weight | 120 lbs |

# Dimensions




| N° | Description | Connections |
|---|---|---|
| 1 | Area for power supply cable | / |
| 2 | Heating supply connection | 3/4" SWEAT |
| 3 | DHW connection | 3/4" SWEAT |
| 4 | Gas connection | 3/4" NPT |
| 5 | DCW connection | 3/4" SWEAT |
| 6 | Heating return | 3/4" SWEAT |
| 7 | Position for boiler support | / |
| 8 | Flue discharge/air intake connection | / |


THERMA PAK®

260 North Elm Street
Westfield, Ma 01085
(800) 465-8558
Fax (413) 564-5815
**www.spacepak.com**

7555 Tranmere Drive
Mississauga, Ontario L5S IL4 Canada
(905) 670-5888
Fax (905) 670-5782

*A Product of*
SPACE PAK