

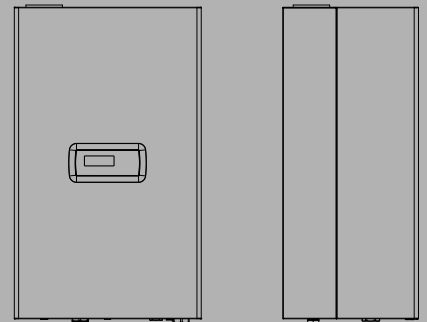
High efficiency commercial heating



## Condexa Pro

Stainless Steel Condensing Wall-hung Boilers  
Altitude Derating

Low water content stainless steel condensing boilers



## HIGH EFFICIENCY COMMERCIAL HEATING

Stainless Steel Condensing Wall-hung Boilers

### ALTITUDE DERATING TABLES

When the appliance is installed at an altitude higher than 2000 ft, the fan speed must be set to the top of the available range in any case and a de-rating of the input capacity must be considered in function of the altitude combined with the total length of the vent and combustion air pipe as reported in the following tables (input BTU/hr):

#### CONDEXA PRO NA 75 P

Altitude (ft)	From 0% to 25%	From 25% to 50%	From 50% to 75%	From 75% to 100%
0-2,000	256,000	256,000	256,000	256,000
3,000	246,000	241,000	237,000	233,000
4,000	236,000	232,000	228,000	224,000
5,000	226,000	222,000	219,000	215,000
6,000	217,000	214,000	210,000	206,000
7,000	209,000	205,000	201,000	198,000
8,000	200,000	197,000	193,000	190,000
9,000	192,000	189,000	186,000	182,000
10,000	185,000	181,000	178,000	175,000

#### CONDEXA PRO NA 117 P

Altitude (ft)	From 0% to 25%	From 25% to 50%	From 50% to 75%	From 75% to 100%
0-2,000	399,000	399,000	399,000	399,000
3,000	383,000	376,000	370,000	363,000
4,000	368,000	361,000	355,000	349,000
5,000	353,000	347,000	341,000	335,000
6,000	339,000	333,000	327,000	321,000
7,000	325,000	320,000	314,000	308,000
8,000	312,000	307,000	301,000	296,000
9,000	300,000	295,000	289,000	284,000
10,000	288,000	283,000	278,000	273,000

To calculate the de-rating of the input capacity follow this example:

We have an **Condexa PRO NA 75 P** boiler installed at 5400 ft with a 4" flue system. The equivalent length of the vent pipe installed is 59 ft.

The equivalent length of the air combustion pipe installed is 15 ft.

The total equivalent length of the flue system is  $59+15 = 74$  ft. The maximum equivalent length for this type of installation is (see IOM manual) 82 ft.

The % range is  $74/82 = 90\%$ . This value is within the 75% and 100%.

Now the correct de-rating value is given from the value of the fourth column (From 75% to 100%) that crosses the row with 6000 ft: 206,000 BTU/hr.

Riello Canada Inc.  
2165 Meadowpine Boulevard  
Mississauga, Ontario L5N 6H6 (CANADA)  
Tel: +1 905 542-0303 Fax: +1 855 878-6599  
Toll free: 1-800-474-3556  
e-mail: riellonoreply@carrier.com

Riello Corporation of America  
35 Pond Park Road  
02043 Hingham, Massachusetts (USA)  
e-mail: riellonoreply@carrier.com  
[www.riello.com/north-america](http://www.riello.com/north-america)

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