

NEW SIZE

IBC

Better Boilers

HC Series

HC 13-50 13,500 to 51,000 BTU/HR

HC 15-95 15,000 to 95,000 BTU/HR

HC 29-106 29,000 to 106,000 BTU/HR

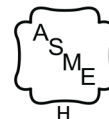
HC 20-125 20,000 to 125,000 BTU/HR

HC 33-160 33,000 to 160,000 BTU/HR

High Efficiency Condensing Boiler

The HC series begins with the HC 13-50 offering the solution for today's better insulated buildings. With onboard full outdoor reset and a slim boiler room footprint the HC Series offers great value for money without sacrificing reliability.

- Unique and innovative single pass Copper / Aluminum heat exchanger, ensuring greater efficiency and eliminating water side corrosion.
- Up to 95% AFUE, with full ASME-rated vessel.
- Built-in boiler pump.
- PVC/CPVC/PPs approved.
- 2" & 3" venting options available.
- Contractor friendly, easy to install, maintain and service.
- Fewer parts ensuring greater reliability.
- Outdoor reset technology increases efficiency by lowering the water temp automatically.
- Reset heating - Set point - DHW.
- Includes Air Vent, Outdoor Sensor & Relief Valve.
- Better reliability and durability.



Energy Efficient Heating



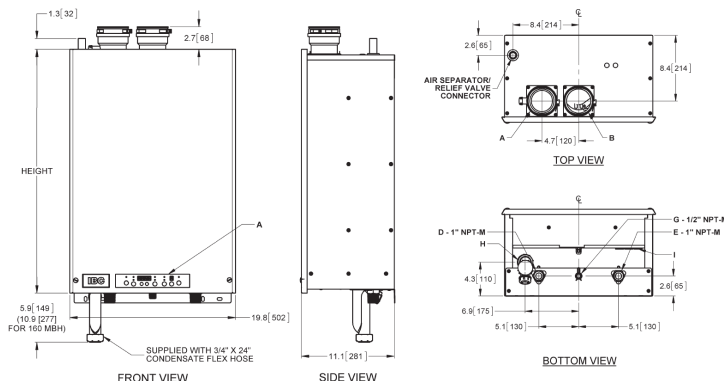
**Better
Boilers**

HC Series

13,500 to 51,000 BTU/HR
29,000 to 106,000 BTU/HR
33,000 to 160,000 BTU/HR

15,000 to 95,000 BTU/HR
20,000 to 125,000 BTU/HR

Condensing Boiler



HEIGHT	HC SERIES
HC 13-50	26.6" / 676mm
HC 15-95	29.0" / 736mm
HC 29-106	29.0" / 736mm
HC 20-125	31.3" / 796mm
HC 33-160	31.3" / 796mm

SPECIFICATIONS	HC 13-50	HC 15-95	HC 29-106	HC 20-125	HC 33-160
CSA Input (Natural Gas or Propane *) – MBH	13.5 – 51	15 – 95	29.0 – 106	20 – 125	33 – 160
CSA Input (Natural Gas or Propane *) – KW	3.95 – 14.94	4.4 – 27.8	8.4 – 31.0	5.6 – 36.6	9.7 – 46.9
CSA Output – MBH	12.4 – 45.4	14.4 – 85.5	26.7 – 94.3	18.6 – 110.8	30.4 – 140.0
CSA Output - KW	3.64 – 13.3	4.2 – 25.0	7.7 – 27.6	5.4 – 32.5	8.9 – 41.0
A.F.U.E	95%	95%	94%	95%	94%
Min gas pressure (Nat. Gas or Propane) – inch w.c.	5	5	5	5	5
Max gas pressure (Nat. Gas or Propane) – inch w.c.	14	14	14	14	14
Power (120Vac/60Hz) - Watts @ full fire with internal pump	126	126	128	130	164
Weight (empty) – lbs/Kg	85 / 39	91 / 41	85 / 39	85 / 39	85 / 39
Pressure vessel water content – USG/Liters	0.37/1.4	0.37/1.4	0.37/1.4	0.5/1.9	0.5/1.9
Max boiler flow rate - USGpm	9	10	10	11	11
Min boiler flow rate - USGpm	2	2	3	3	3
Max operating pressure – Space Heating Coil - psig	43.5	43.5	43.5	43.5	43.5
Approved installation altitude - ASL	0 - 10,000 ft	0 - 10,000 ft	0 - 10,000 ft	0 - 10,000 ft	0 - 10,000 ft
Ambient temperature – Low (°F/°C)	32/0	32/0	32/0	32/0	32/0
Ambient temperature – High (°F/°C)	122/50	122/50	122/50	122/50	122/50
Max relative humidity (non-condensing)	90%	90%	90%	90%	90%
Min water temperature - Space Heating (°F/°C)	50/10	50/10	50/10	50/10	50/10
Max water temperature – Space Heating (°F/°C)	194/90	194/90	194/90	194/90	194/90
Max equivalent vent length 2" (each side)	35'	35'	35'	35'	35'
Max equivalent vent length 3" (each side)	120'	120'	120'	120'	120'

Natural Gas boilers require a Propane conversion kit to be ordered separately if converting from Natural Gas to Propane. Propane boilers require a Natural Gas conversion kit to be ordered separately if converting from Propane to Natural Gas.

Propane

Boilers are shipped with 30 psi pressure relief valve.

DESCRIPTION	HC SERIES
A Exhaust outlet	3" Schedule 40
B Combustion air	3" Schedule 40
E Heating water inlet (return)	1" Male NPT
F Heating water outlet (supply)	1" Male NPT
G Gas inlet	1/2" Male NPT
H Condensate outlet	3/4" Hose
I Knock-outs (3)	1/2"

Connections

SURFACE	DISTANCE FROM COMBUSTIBLE SURFACES	RECOMMENDED DISTANCE FOR INSTALLATION AND SERVICE
Front	2"	24"
Rear	0"	0"
Left side	1.5"	6" (labels may be difficult to read with reduced clearance)
Right side	4"	6" (labels may be difficult to read with reduced clearance)
Top	2"	24"
Bottom	8"	24"

Clearance from boiler cabinet

EXHAUST PIPE SIZE	MAXIMUM EQUIVALENT LENGTH
Sched.40; Rigid PPs	(each side)
2"	35'
3"	120'
2"/3" 90° Long sweep vent elbow	Allow 5' equivalent feet
2"/3" 90° Short sweep vent elbow	Allow 8' equivalent feet
2"/3" 45° Vent elbow	Allow 3' equivalent feet
PPS	
PPs 87-90° Elbow	Allow 8' equivalent feet
Flexible PPs	
3" Flexible	35 Actual feet times 1.4

Maximum exhaust venting length

Accessories

EZ Pipe Manifold
Part# 190-149

Floor Stand
Part# P-267

Service Parts Kit
Part# P-743C

Sidewall Vent Terminal Kit
Part# P-741 (2"), P-742 (3")



USA

1702 Taylors Lane, Cinnaminson, NJ 08077
4507 South Taylor Drive, Sheboygan, WI 53081

Tel: 856 887 0544
Tel: 920 783 8340

Fax: 856 735 5584
Fax: 920 783 8339

www.ibcboiler.com

Toll Free: 1 844 HEAT IBC (432 8422)

Canada

8015 North Fraser Way, Burnaby, BC V5J 5M8
Unit 5, 1455 16th Ave, Richmond Hill, ON L4B 4W5

Tel: 604 877 0277
Tel: 905 918 0113

Fax: 604 877 0295
Fax: 604 877 0277