Rinnai

Q Premier 85 Condensing Boiler

Standard Features

- Onboard outdoor reset control system with sensor standard
- Factory installed Low Loss Header
- Priority DHW standard
- 24 gallon charged indirect stainless steel storage tank
- Modulating Ceramic premix burner
- 5:1 turn down ratio
- Direct spark ignition
- Exceeds SCAQMD 1146.2 Low NO_x requirements
- Proprietary Stainless Steel Water tube condensing heat exchanger
- Direct Vent sealed combustion
- Concentric and twin pipe venting adapters included
- Approved for room and closet installations
- Pre-piped to accept a DHW recirculation line

Optional Accessories

- Room Air Filter
- NG to LP conversion Kit

Piping Options

- Right side pre-bend piping kit
- Left side pre-bend piping kit
- Top side pre-bend piping kit

QP85 SPECIFICATIONS

General Specifications		
	Units	
Water content CH	gal	0.9
Water content DHW	gal	24
Max supply boiler temperature	°F	176
Max operating pressure	psi	45
Relief valve rating (heating)	MBH	375
Relief valve pressure rating	psi	30
Dry weight	lbs	236
Min inlet gas pressure NG	"W.C.	4.0"
Max inlet gas pressure NG	"W.C.	10.5"
Min inlet gas pressure LP	"W.C.	8.0"
Max inlet gas pressure LP	"W.C.	14.0”
Max equivalent exhaust vent length	ft	100
Max equivalent combustion air vent length	ft	100
Approved venting materials		Polypropylene Stainless Steel, PVC, CPVC

Performance Specifications		
	Units	
Fuel Type		NG
Input - high fire	MBH	85
Input - low fire	MBH	17
Q_N Output non-condensing CH	MBH	77
Q_N Output EN677 efficiency CH	MBH	84
Q_N Output AFUE CH	MBH	82
Heating Capacity	MBH	78
AFUE (I=B=R)	%	96.5
Part Load Efficiency (EN677)	%	98.8
First hour rating	gal/hour	141

Electrical Specifications		
	Units	
Electrical Voltage Mains	VAC/Hz	120/60
Electrical Voltage Controls	VDC	24
Power Consumption Max Load	W	172
Power Consumption Stand by Load	W	14
Recommended Circuit breaker rating	A	15

Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

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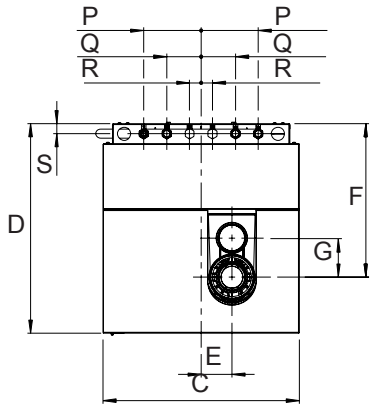
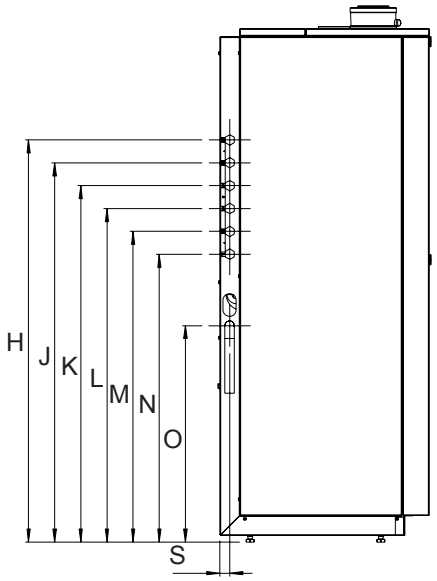
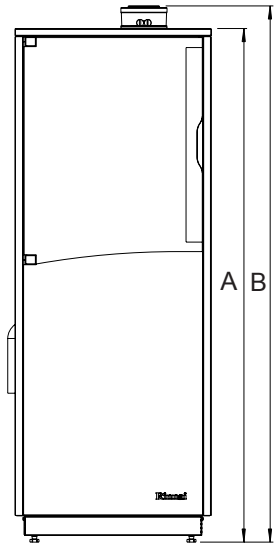
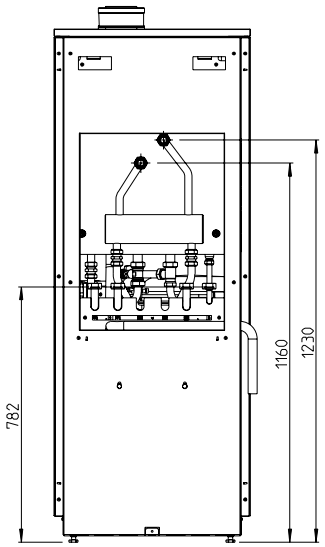
DIMENSIONS









			inch / mm
A	Height		61.8 / 1570
B	Height including vent connection		64.5 / 1640
C	Width		23.6 / 600
D	Depth		25.2 / 640
E	Center boiler / vent		3.7 / 95
F	Back / vent		18.5 / 470
G	Center to center / vent and air supply		4.7 / 122
Connection side: Left and Right			
H	Bottom side boiler /	supply pipe	48.4 / 1230
J	Bottom side boiler /	return pipe	45.7 / 1160
K	Bottom side boiler /	hot water pipe gas pipe	42.9 / 1090
L	Bottom side boiler /	Cold water pipe DHW circulation return pipe	40.2 / 1020
M	Bottom side boiler /	DHW circulation return pipe Cold water pipe	37.4 / 950
N	Bottom side boiler /	Gas pipe Hot water pipe	34.6 / 880
0	Bottom side boiler /	Condensate pipe	26.0 / 662
Connection side: Top			
P	Center boiler /	Gas pipe Hot water pipe	6.9 / 175
Q	Center boiler /	DHW circulation return pipe Cold water pipe	4.1 / 105
R	Center boiler /	Supply pipe Return pipe	1.4 / 35
S	Back boiler /	center of all pipe connections	1.2 / 30

Clearances

	Minimum required clearance to combustibles and non-combustibles	Recom-mended service clearances
	inch / mm	inch / mm
Top	0	10 / 250
Back	0	0
Front	6 / 150	24 / 600
Left side	0	2 / 50
Right side	0	2 / 50
Vent	0	0