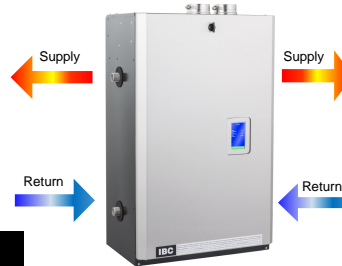
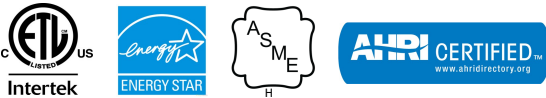
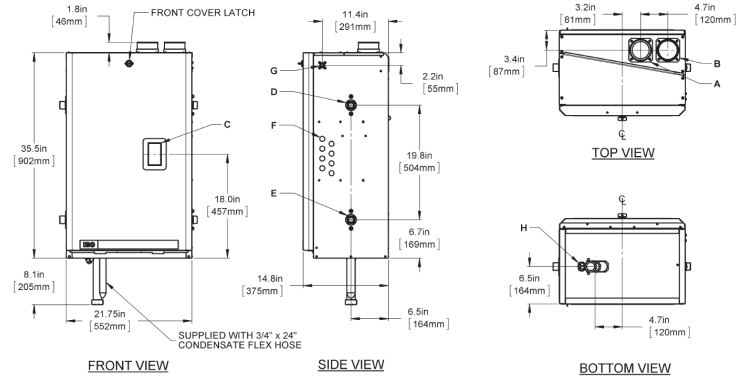


JOB NAME: _____
 LOCATION: _____
 ENGINEER: _____
 WHOLESALER: _____
 CONTRACTOR: _____

FUEL: Natural Gas Propane

BTUH/NPUT: _____
 BTUH/OUTPUT: _____



Description		SL 28-160
A	Exhaust Outlet	3" Schedule 40
B	Combustion Air	3" Schedule 40
C	Touch Screen Display	2-1/4" x 4"
D	Water Outlet	1" NPT - M
E	Water Inlet	1" NPT - M
F	Knock-Outs (8)	1/2"
G	Gas Inlet	1/2" NPT - F
H	Condensate Outlet	3/4" Hose

Specifications		SL 28-160
CSA Input (Natural Gas or Propane *) - MBH		28 - 160
CSA Input (Natural Gas or Propane *) - KW		8.2 - 47
CSA Output - MBH		26.2 - 147
CSA Output - KW		7.7 - 43
A.F.U.E		95%
Min gas pressure (Nat. Gas or Propane) - inch w.c.		5
Max gas pressure (Nat. Gas or Propane) - inch w.c.		14
Power (120Vac/60Hz) - Watts @ full fire - Watts (without pumps)		73
Weight (empty) - lbs/Kg		102 / 46.3
Pressure vessel water content - USG/Liters		3.2 / 12.2
Max boiler flow rate - USgpm		19
Min boiler flow rate - USgpm		4
Max operating pressure - psig		30
Min water pressure - psig		8
Approved installation altitude - ASL		0 - 12,000 ft
Ambient temperature - Low (°F/°C)		32°F / 0°C
Ambient temperature - High (°F/°C)		122°F / 50°C
Max relative humidity (non-condensing)		90%
Min water Temperature (°F/°C)		34°F / 1.1°C
Max water Temperature (electronic-limit) (°F/°C)		190°F / 88°C
Max water Temperature (mechanical hi-limit) (°F/°C)		200°F / 93°C
Max ΔT - supply / return (electronic fence)		40°F
Maximum equivalent vent length, each side	2"	35'
Maximum equivalent vent length, each side	3"	170'
(Natural Gas or Propane)		
Air intake options: either direct vent or indoor supply		

Boilers are shipped with 30psi pressure relief valve.

Surface	Distance from combustable surfaces	Recommended distance for installation and service
Front	2"	24"
Rear	0"	0"
Left Side	1"	4" (min. for piping clearance)
Right Side	1"	4" (min. for piping clearance)
Top	2"	6" (for vent connection)
Bottom	0"	12" (for condensate trap)

Exhaust pipe size	Maximum equivalent length
Sched.40; Rigid PPs	
2"	35'
3"	170'
90° long sweep elbow	Allow 5' equivalent
90° vent elbow	Allow 8' equivalent
45° elbow	Allow 3' equivalent
PPs 87-90° elbows	Allow 8' equivalent
Flexible PPs	
3" Flexible	98' (max) actual lineal x 1.2 = equivalent

Boiler Head Loss							
Flow rate (gpm)	4	6	8	10	12	14	16
Head loss @ flow (ft wc)	0.5'	1.0'	1.5'	2.0'	3.0'	4.0'	5.0'

Pressure vessel head loss