

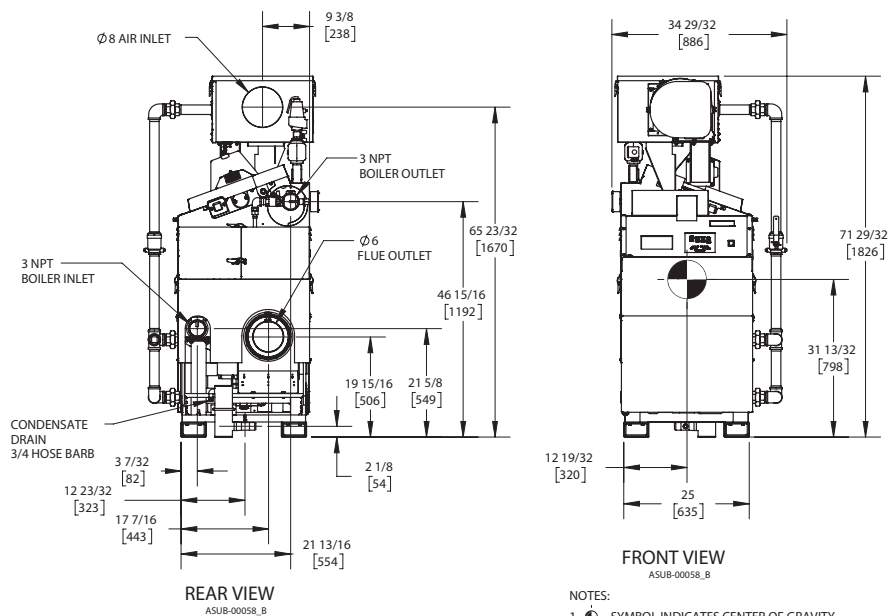
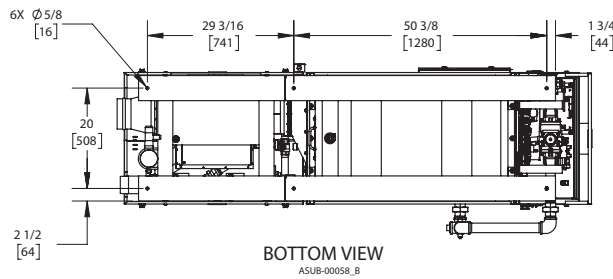
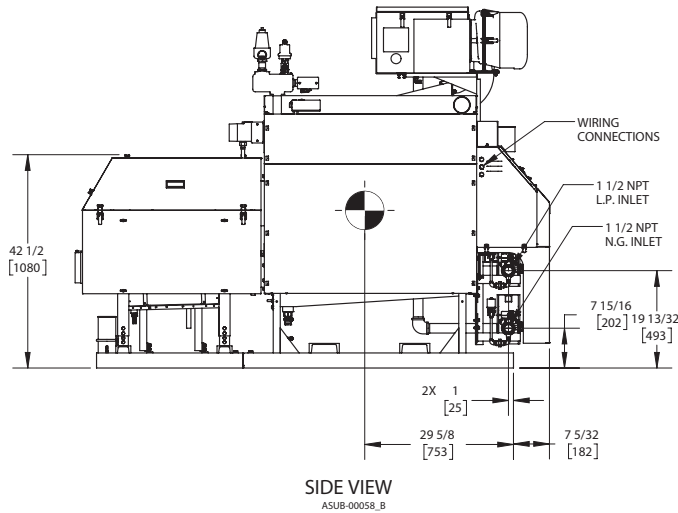
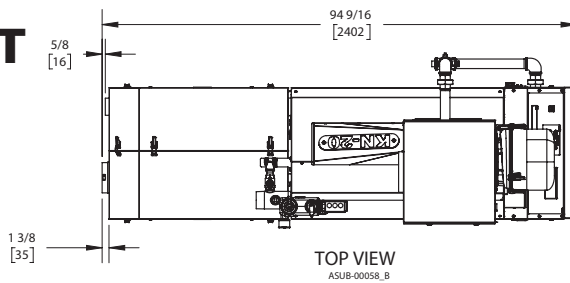
# KN20+ DUAL FUEL

## CODE OPTIONS

CSD-1	STANDARD
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**Category II or Category IV Appliance**  
(see Installation and Operation Manual for venting information)

## INDOOR UNIT



### NOTES:

1. SYMBOL INDICATES CENTER OF GRAVITY.
2. DIMENSIONS ARE NOMINAL AND SUBJECT TO MANUFACTURING VARIATION AND SHOULD NOT BE USED FOR "ROUGHING IN".
3. ALL DIMENSIONS ARE INCHES [mm].



## A.G.A. CERTIFIED RATINGS & CAPACITIES

<b>Fuel Type</b>	Natural/LP Gas	<b>Boiler FLA</b>	13.9 A*
<b>Input BTU/hr.</b>	2,000,000 / 586 KW	<b>Min. Gas Pressure Required</b>	3" W.C.
<b>Output BTU/hr.</b>	1,904,000 / 558 KW	<b>Max. Gas Pressure Allowed</b>	14" W.C.
<b>Boiler HP</b>	56.9	<b>Water Volume</b>	24.9 gal.
<b>Electrical Requirements</b>	230VAC/60 hz/1PH (with neutral)	<b>Operating Weight</b>	3040 lbs. / 1379 kg.
<b>SCCR Rating</b>	5kA		

## BOILER TRIM & CONTROLS

<b>Main Gas Valve</b>	Dungs MBC	<b>Air Switch</b>	Huba
<b>Firing Valve</b>	1-1/2" Apollo	<b>Flow Sensor</b>	SIKA
<b>Ignition Control</b>	Honeywell RM7895C	<b>Blocked Flue Switch</b>	Cleveland NS2
<b>Operating Control</b>	HeatNet®	<b>Blower Motor</b>	Ametek
<b>High Limit</b>	Honeywell L4006E	<b>L.W.C.O.</b>	800
<b>Main Ball Valve</b>	1-1/2" Apollo	<b>Relief Valve</b>	30, 50, 75 & 100 PSI
<b>Pilot Cock</b>	1/4" Conbraco	<b>Pilot Regulator</b>	Maxitrol RV12LT

## A.S.M.E.

<b>ASME Sect IV Fire Side Htg Surface</b>	73.14 Sq. Ft. / 6.80 Sq. M.	<b>Design Data</b>	100 PSI & 250°F
<b>ASME Sect IV Water Side Htg Surface</b>	78.20 Sq. Ft. / 7.26 Sq. M.		
<b>CV. GPM (1PSID)</b>	161		

\*Add circulator amps.

## TEMPERATURE RISE / PRESSURE DROP (Based on Full Input)

20°F / 11.1°C				40°F / 22.2°C				60°F / 33.3°C				80°F / 44.4°C				100°F / 55.5°C			
Flow Rate		Pressure Drop		Flow Rate		Pressure Drop		Flow Rate		Pressure Drop		Flow Rate		Pressure Drop		Flow Rate		Pressure Drop	
GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa	GPM	L/s	Ft	kPa
190.5	12.02	3.23	9.65	95.2	6.01	.81	2.41	63.5	4.01	.36	1.07	47.6	3.00	.20	.60	38.1	2.40	.13	.39

Flow GPM		Temp. Rise** (°F)		Vent Length (Equiv. Ft.)		Air Inlet Length (Equiv. Ft.)	
Min	Max	Min	Max	Min	Max	Min	Max
38.1	190.5	20	100	6	100	0	100

\*\*Min/Max delta t reflects boiler operation at full input. For applications requiring operation above/below these parameters please consult factory.

<b>REP FIRM</b>	_____
<b>SUBMITTED BY</b>	_____
<b>JOB NAME</b>	_____
<b>ARCHITECT</b>	_____
<b>ENGINEER</b>	_____
<b>CONTRACTOR</b>	_____
<b>DATE</b>	_____

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