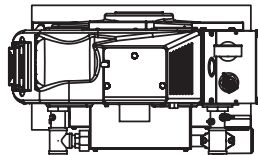
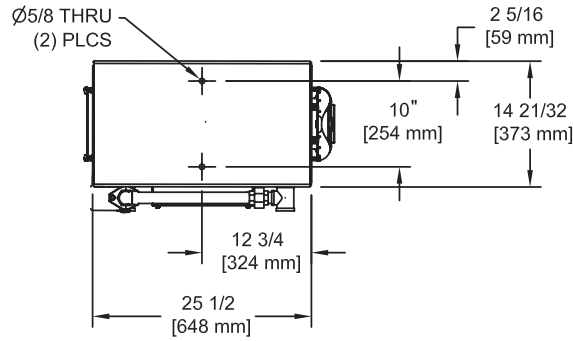


KN-2

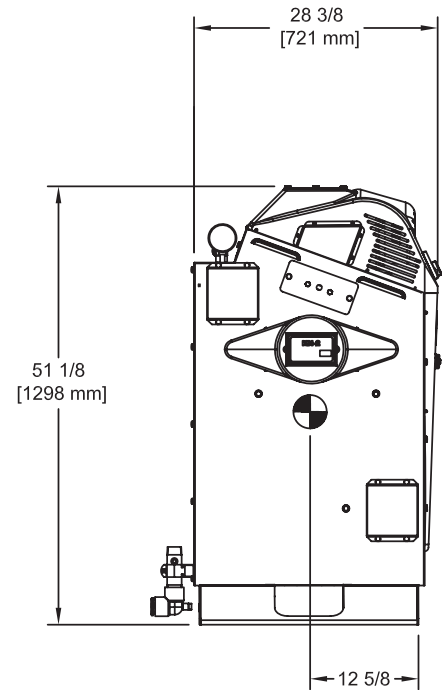
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)



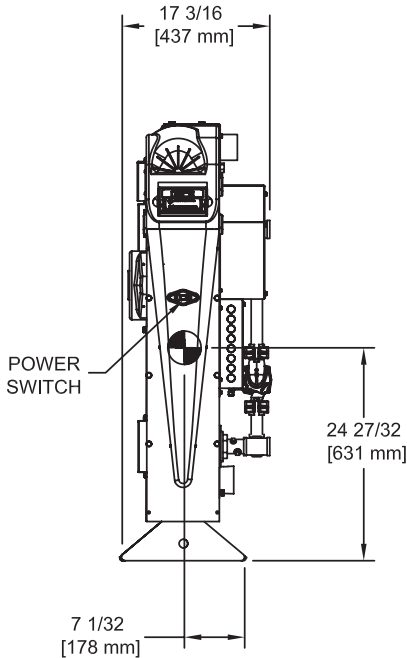
TOP
HSUB-7 REV. E



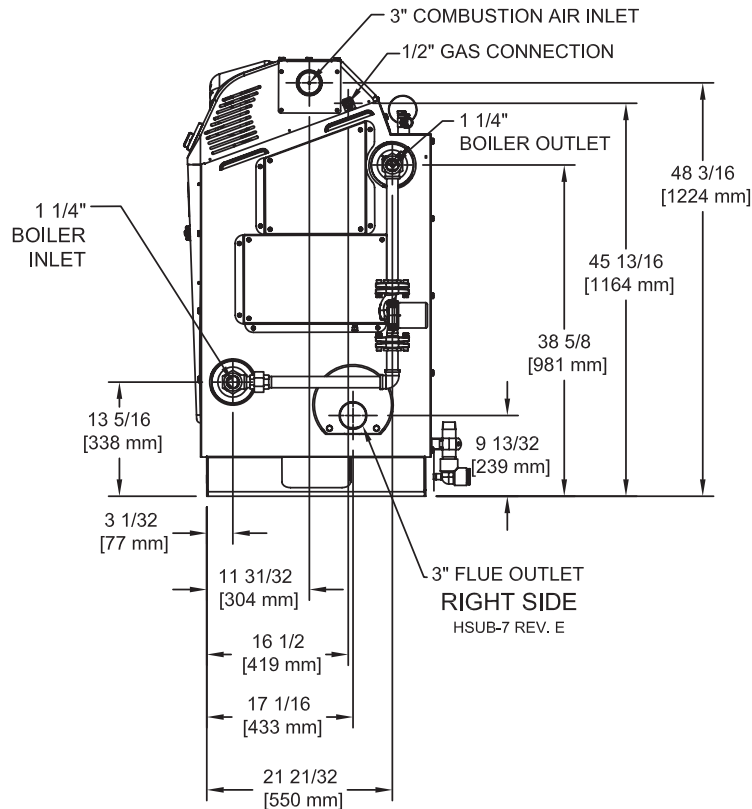
BOTTOM
HSUB-7 REV. E



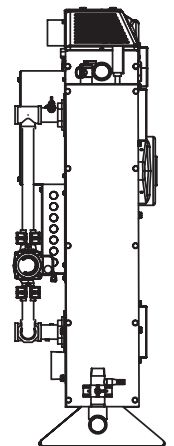
LEFT SIDE
HSUB-7 REV. E



FRONT
HSUB-7 REV. E



RIGHT SIDE
HSUB-7 REV. E



REAR
HSUB-7 REV. E

A.G.A. CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/LP Gas	Boiler FLA	2.5 A*
Input BTU/hr.	199 MBH / 59 KW	Min. Gas Pressure Required	2" W.C.
Output BTU/hr.	179 MBH / 53 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	5.4	Water Volume	3.9 gal.
Electrical Requirements	120VAC/ 60 hz/ 1PH	Operating Weight	563 lbs. / 256 kg.

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs GB-WND	Air Switch	Cleveland NS-2
Ignition Control	Fenwal 35-60	Blower Motor	Ametek
Operating Control	HeatNet®	Relief Valve	30, 50, 75 & 100 PSI
High Limit	P-SW-13004-X		

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	7.88 Sq. Ft. / 0.73 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	7.10 Sq. Ft. / 0.66 Sq. M.		
CV. GPM (1PSID)	20		

*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
18.0	1.14	1.87	5.6	9.0	.57	.47	1.40	6.00	.38	.21	.62	4.5	.28	.12	.35	3.6	.23	.07	.22

Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
3.6		18.0		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.

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-2 Category II or Category IV Appliance (see Installation and Operation Manual for venting information) A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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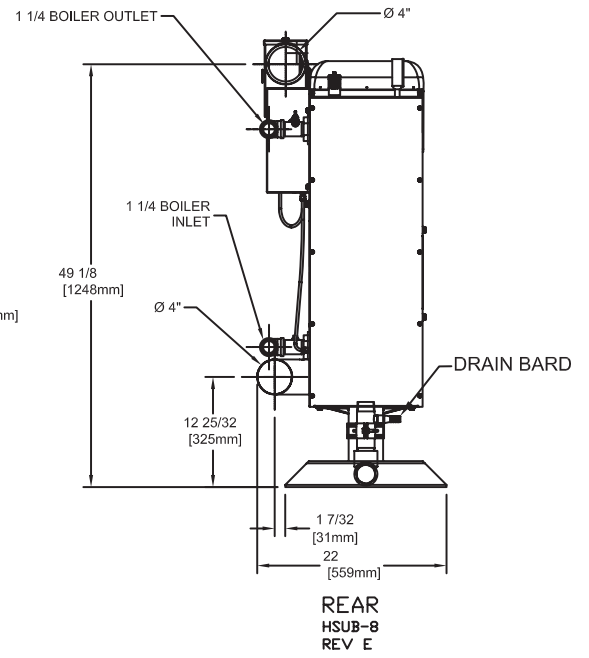
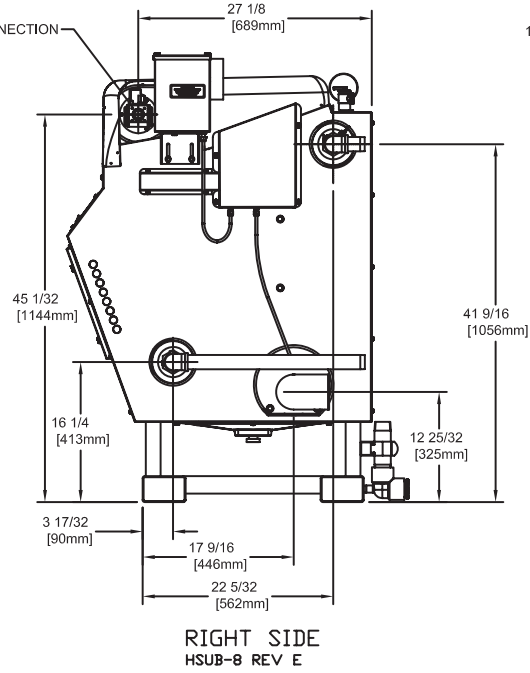
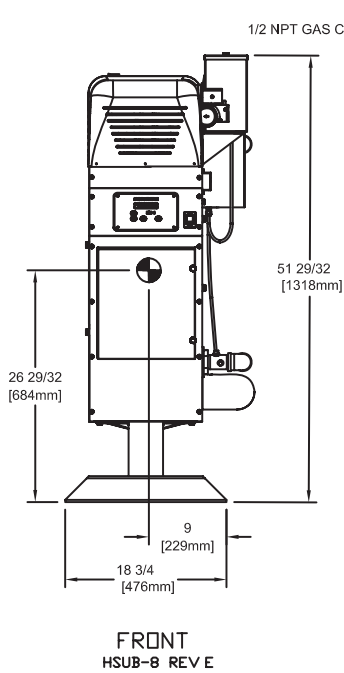
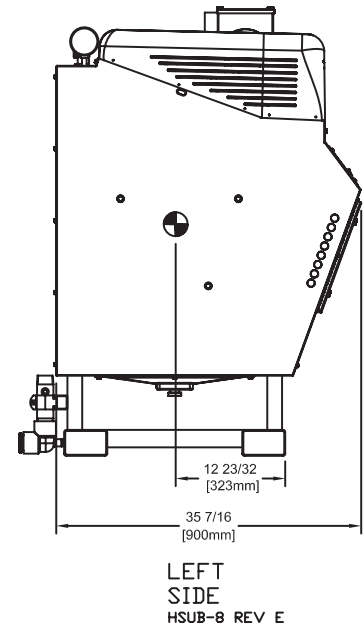
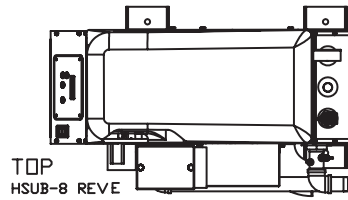
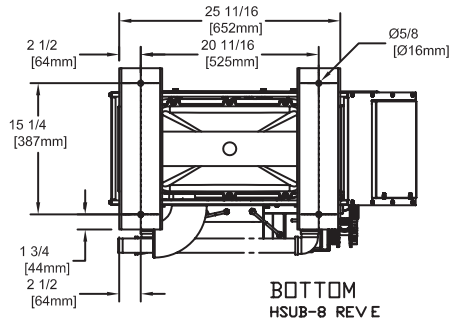
KN-4

Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

STANDARD



A.G.A. CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/LP Gas	Boiler FLA	5 A*
Input BTU/hr.	399 MBH / 117 KW	Min. Gas Pressure Required	2" W.C.
Output BTU/hr.	359 MBH / 105 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	10.7	Water Volume	5.9 gal.
Electrical Requirements	120VAC/ 60 hz/ 1PH	Operating Weight	827 lbs. / 375 kg.

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs GB-WND	Air Switch	Cleveland NS-2
Ignition Control	Fenwal 35-60	Blower Motor	Ametek
Operating Control	HeatNet®	Relief Valve	30, 50, 75 & 100 PSI
High Limit	P-SW-1300-4-X		

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	14.53 Sq. Ft. / 1.35 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	14.21 Sq. Ft. / 1.32 Sq. M.		
CV. GPM (1PSID)	40		

*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
36.0	2.30	1.90	5.60	18.0	1.10	.50	1.40	12.0	.80	.21	.60	9.00	.60	.12	.30	7.2	.50	.07	.22

Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
7.2		36		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.

REP FIRM	_____	KN-4
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	Category II or Category IV Appliance (see Installation and Operation Manual for venting information)
		 A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515

KN-6

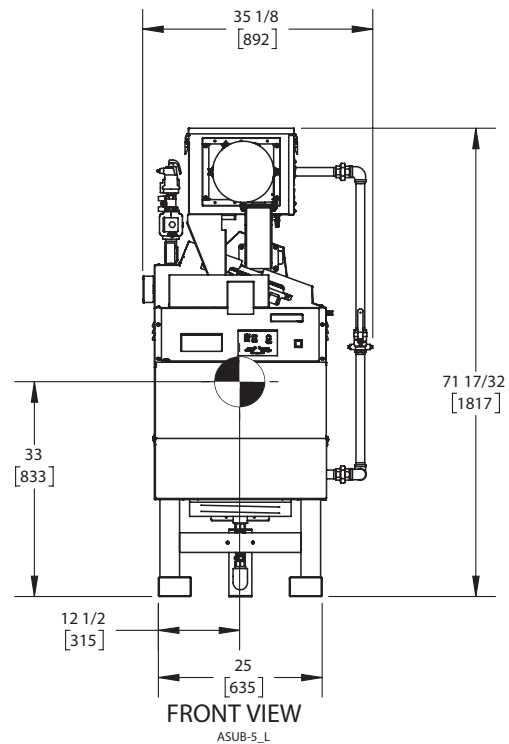
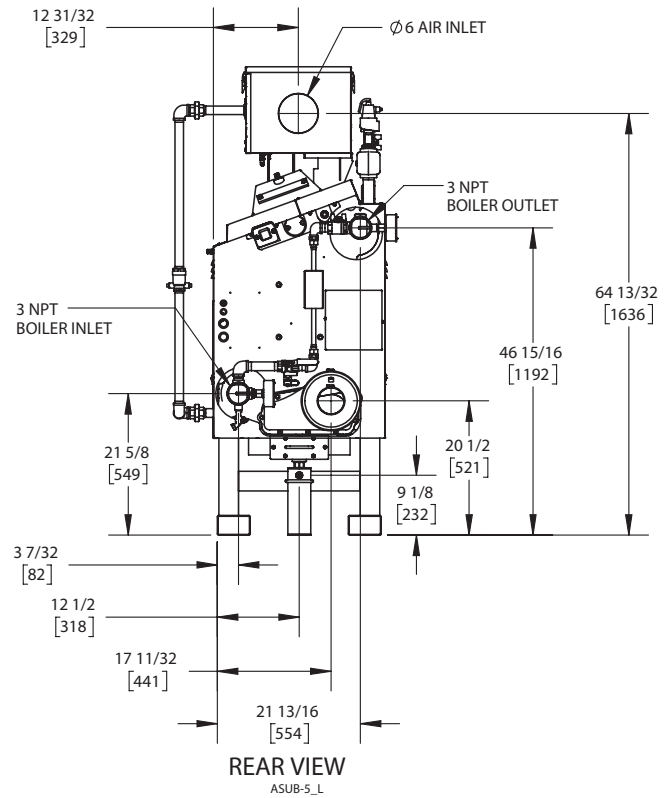
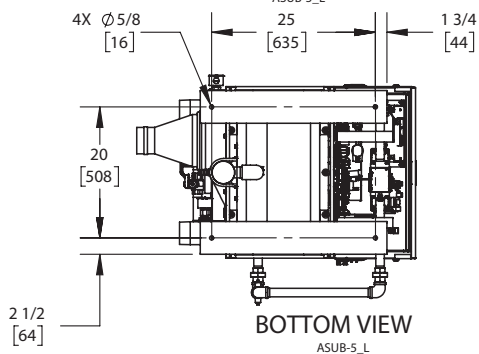
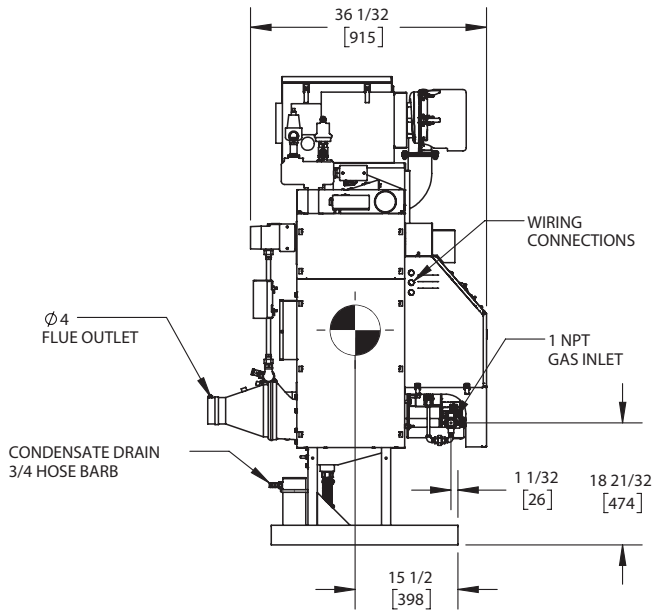
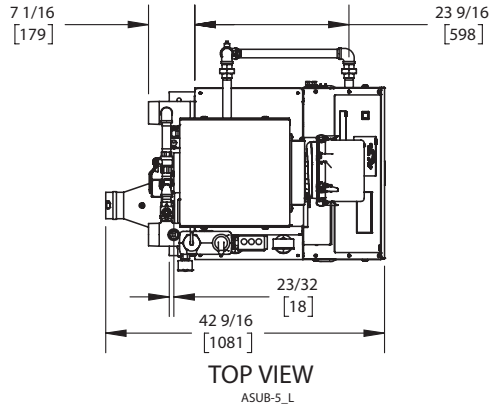
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

STANDARD

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

Fuel Type	Natural/LP Gas	Boiler FLA	13.1 A*
Input BTU/hr.	600 MBH / 176 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	540 MBH / 158 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	16.3	Water Volume	7.9 gal.
Electrical Requirements	120VAC/ 60 hz/ 1PH	Operating Weight	1150 lbs. / 522 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

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

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	21.18 Sq. Ft. / 1.97 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	21.32 Sq. Ft. / 1.98 Sq. M.		
CV. GPM (1PSID)	62		

*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
54.0	3.40	1.75	5.20	27.0	1.70	.44	1.30	18.0	1.10	.19	.60	13.5	.90	.11	.30	10.8	.70	.07	.20

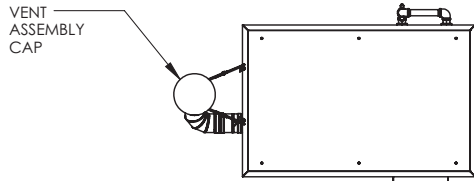
Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
10.8		54.0		20		100		6		120		0		120	

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

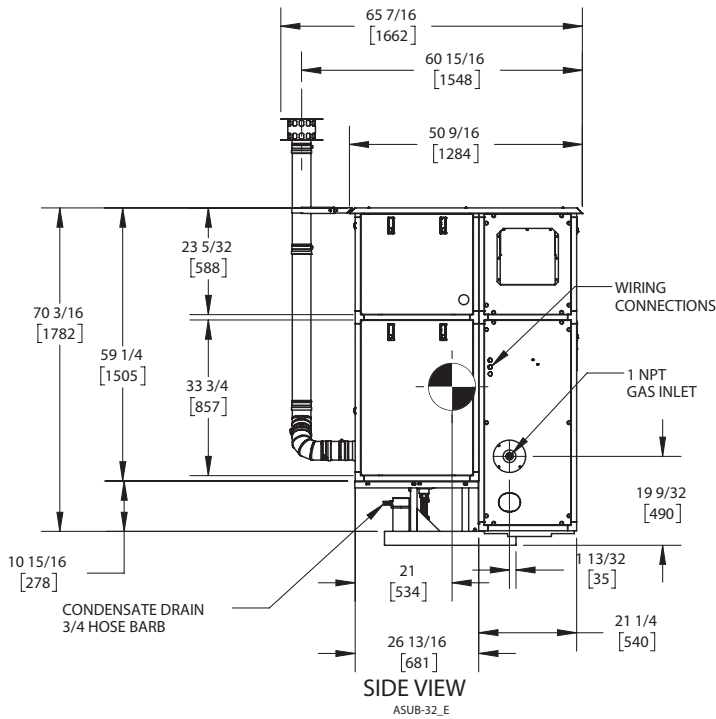
REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-6 Category II or Category IV Appliance (see Installation and Operation Manual for venting information) A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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KN-6

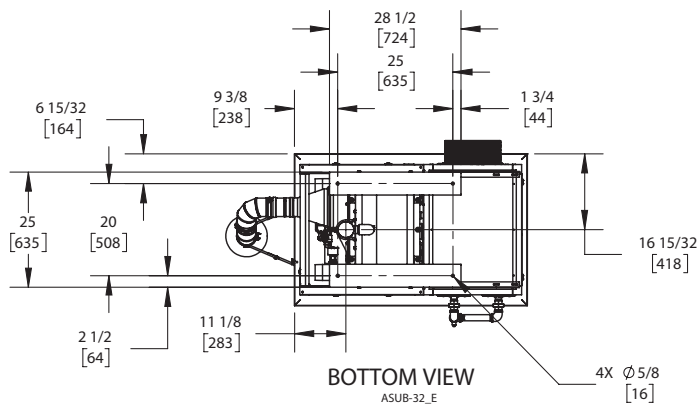
OUTDOOR UNIT



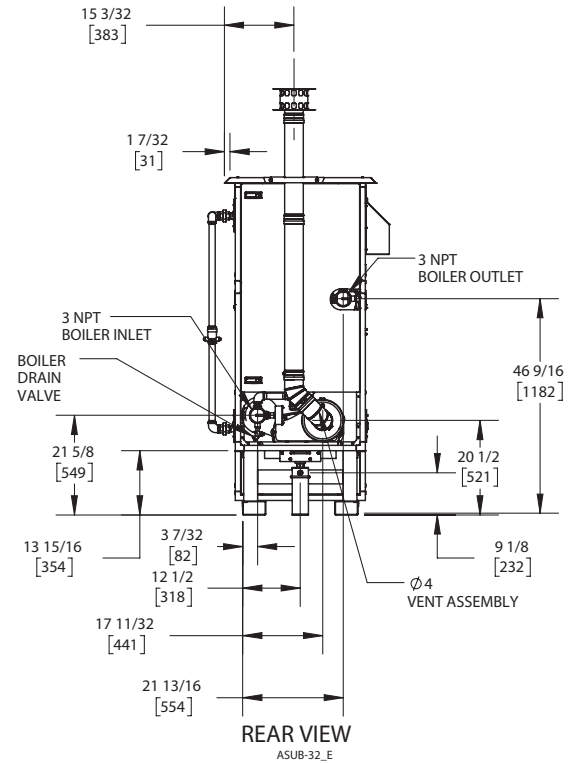
TOP VIEW
ASUB-32_E



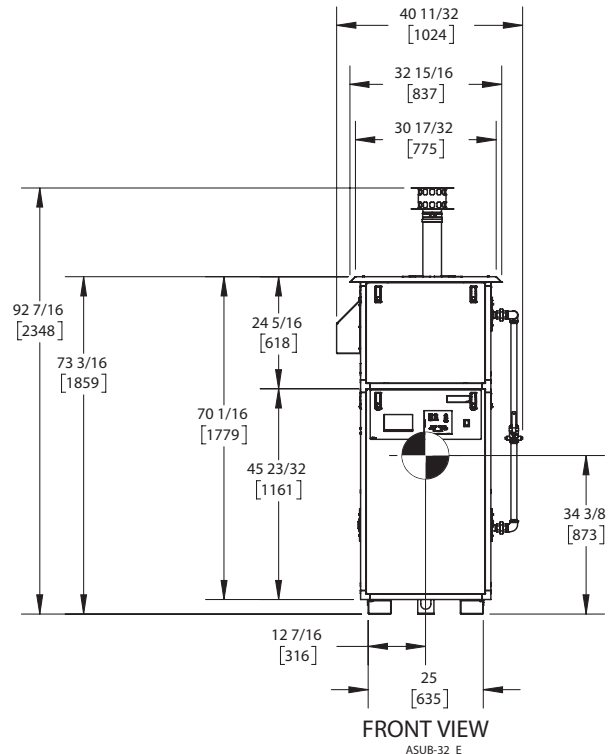
SIDE VIEW
ASUB-32_E



BOTTOM VIEW
ASUB-32_E



REAR VIEW
ASUB-32_E



FRONT VIEW
ASUB-32_E

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].

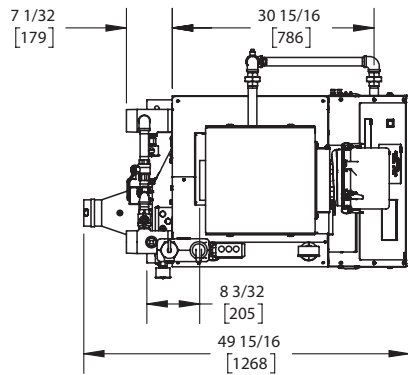
KN-10

Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

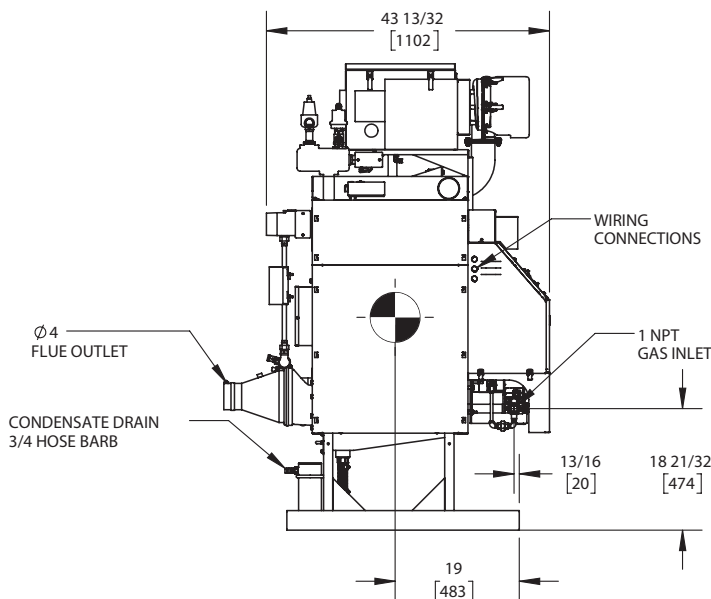
CSD-1	STANDARD
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INDOOR UNIT



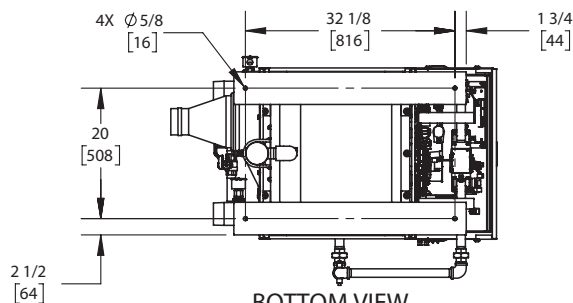
TOP VIEW

ASUB-4_L



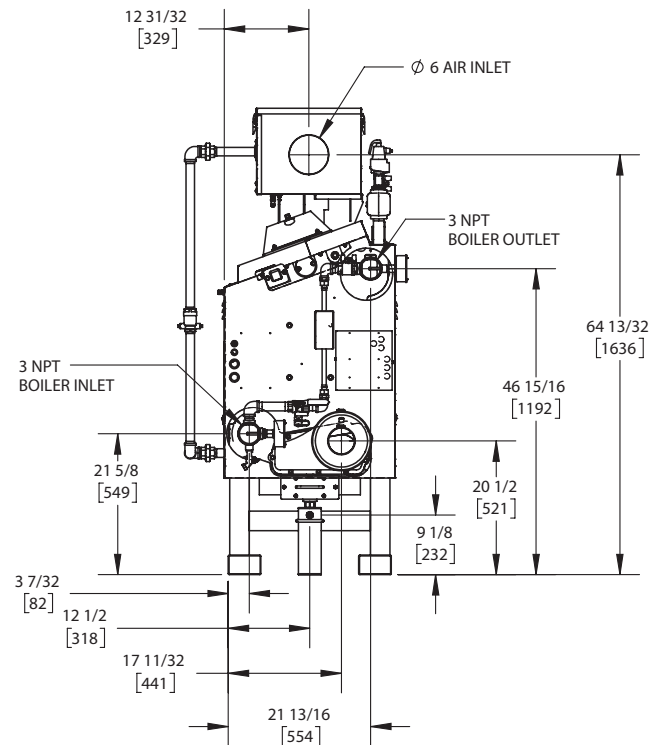
SIDE VIEW

ASUB-4_L



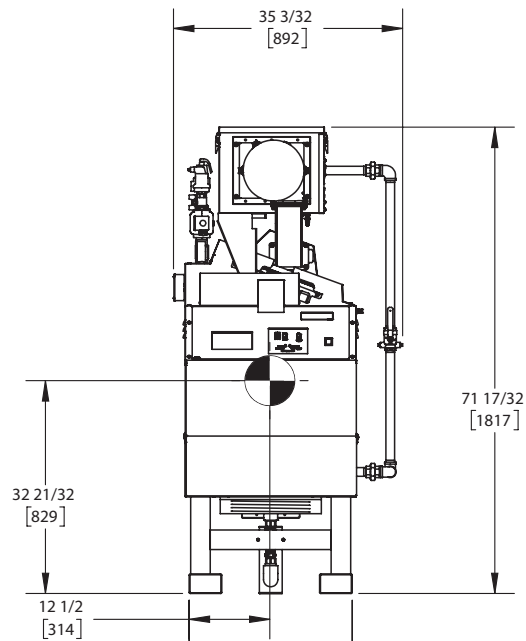
BOTTOM VIEW

ASUB-4_L



REAR VIEW

ASUB-4_L



FRONT VIEW

ASUB-4_L

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

Fuel Type	Natural/LP Gas	Boiler FLA	13.1 A*
Input BTU/hr.	1000 MBH / 293 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	900 MBH / 264 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	26.9	Water Volume	11.9 gal.
Electrical Requirements	120VAC/ 60 hz/ 1PH	Operating Weight	1557 lbs. / 707 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

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

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	34.48 Sq. Ft. / 3.20 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	35.54 Sq. Ft. / 3.30 Sq. M.		
CV. GPM (1PSID)	100		

*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
90.0	5.70	1.87	5.60	45.0	2.80	.47	1.40	30.0	1.90	.21	.60	22.5	1.40	.12	.30	18.0	1.10	.07	.20

Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
18.0		90.0		20		100		6		120***		0		120	

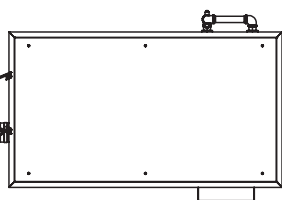
**Min/Max delta t reflects boiler operation at full input. For applications requiring operation above/below these parameters please consult factory.

***A maximum equivalent length of 80 ft. utilizing 4" vent diameter and 120 ft. utilizing 5" vent diameter.

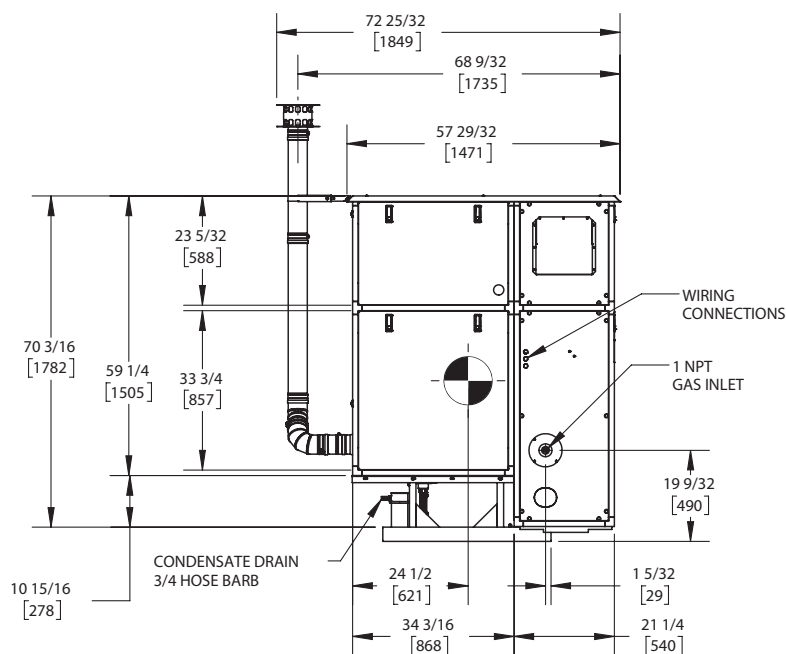
REP FIRM	_____	KN-10 Category II or Category IV Appliance (see Installation and Operation Manual for venting information)  A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
SUBMITTED BY	_____	
JOB NAME	_____	
ARCHITECT	_____	
ENGINEER	_____	
CONTRACTOR	_____	
DATE	_____	

OUTDOOR UNIT

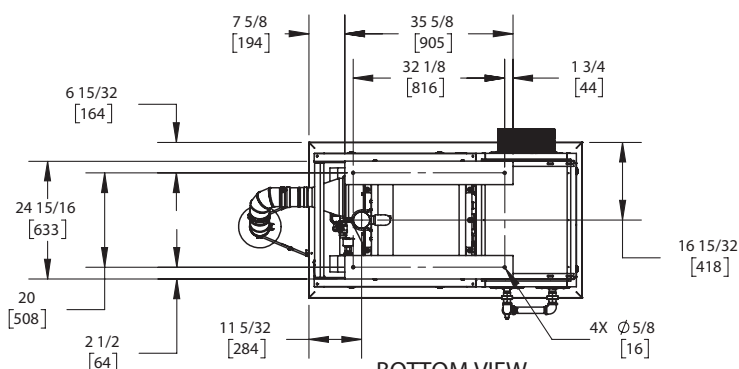
VENT
ASSEMBLY
CAP



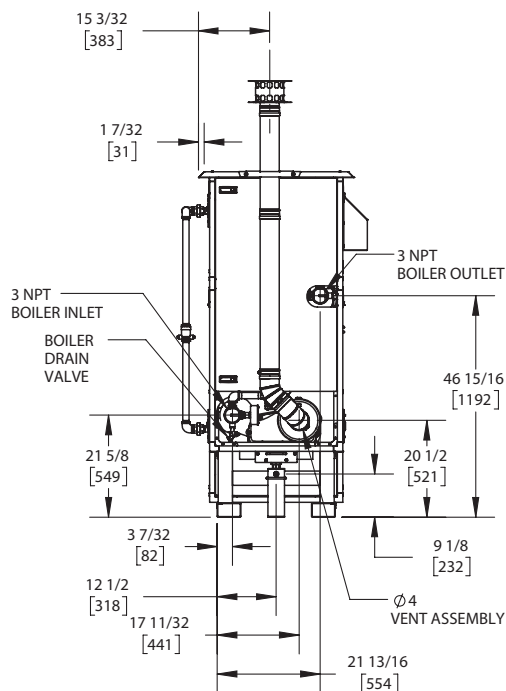
TOP VIEW
ASUB-33_E



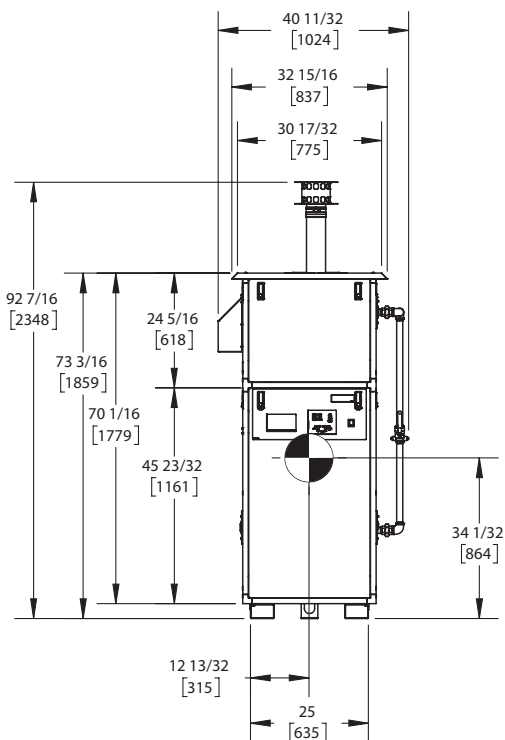
SIDE VIEW
ASUB-33_E



BOTTOM VIEW
ASUB-33_E



REAR VIEW
ASUB-33_E



FRONT VIEW
ASUB-33_E

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].

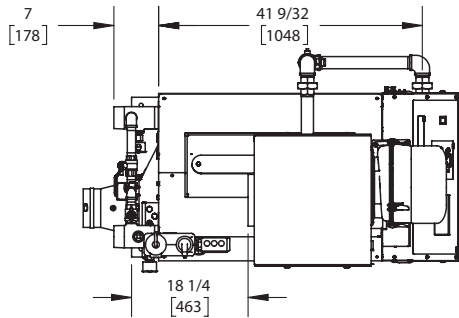
KN-16

Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

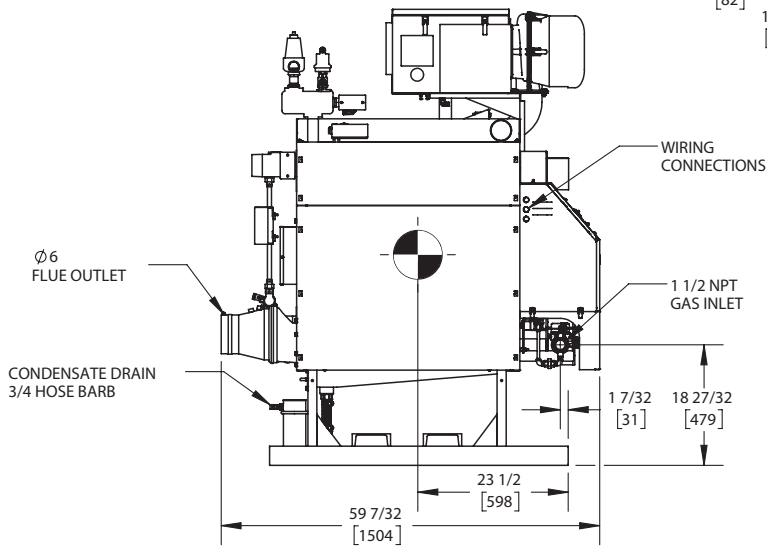
CODE OPTIONS

CSD-1	STANDARD
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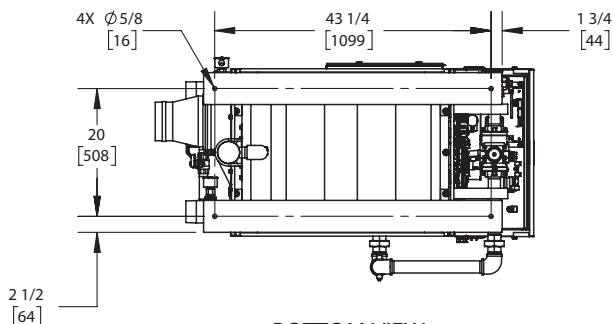
INDOOR UNIT



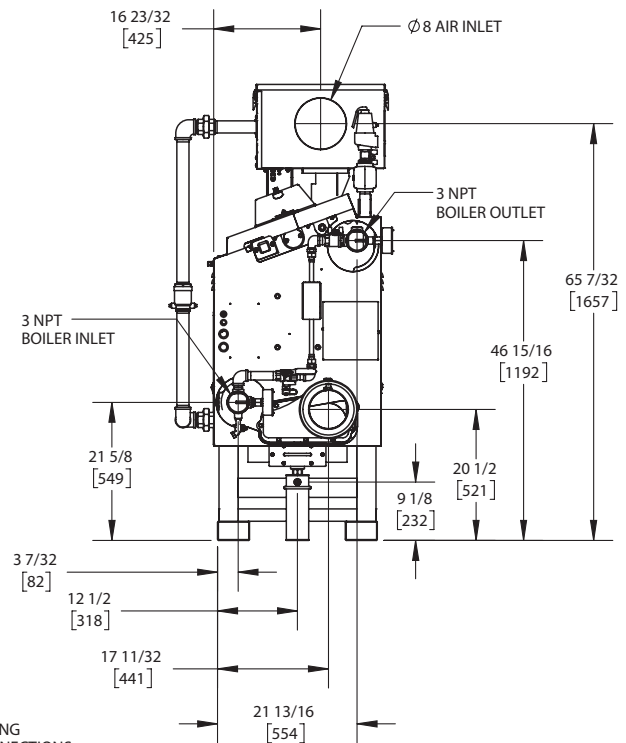
TOP VIEW
ASUB-16_G



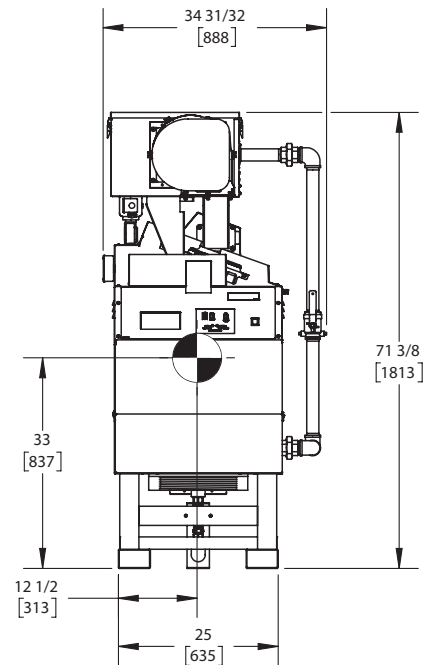
SIDE VIEW
ASUB-16_G



BOTTOM VIEW
ASUB-16_G



REAR VIEW
ASUB-16_G



FRONT VIEW
ASUB-16_G

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

Fuel Type	Natural/LP Gas	Boiler FLA	13.1 A*
Input BTU/hr.	1600 MBH / 469 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	1440 MBH / 422 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	43.0	Water Volume	17.9 gal.
Electrical Requirements	230VAC/60 hz/1PH (with neutral)	Operating Weight	2360 lbs. / 1070 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

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

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	54.43 Sq. Ft. / 5.06 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	56.86 Sq. Ft. / 5.28 Sq. M.		
CV. GPM (1PSID)	140		

*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
144.1	9.10	2.44	7.30	72.0	4.50	.61	1.80	48.0	3.00	.27	.80	36.0	2.30	.15	.50	28.8	1.80	.10	.30

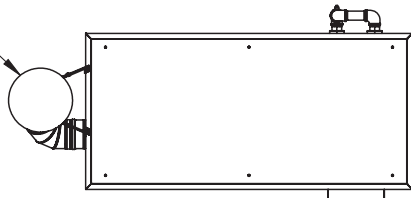
Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
28.8		144.1		20		100		6		120		0		120	

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

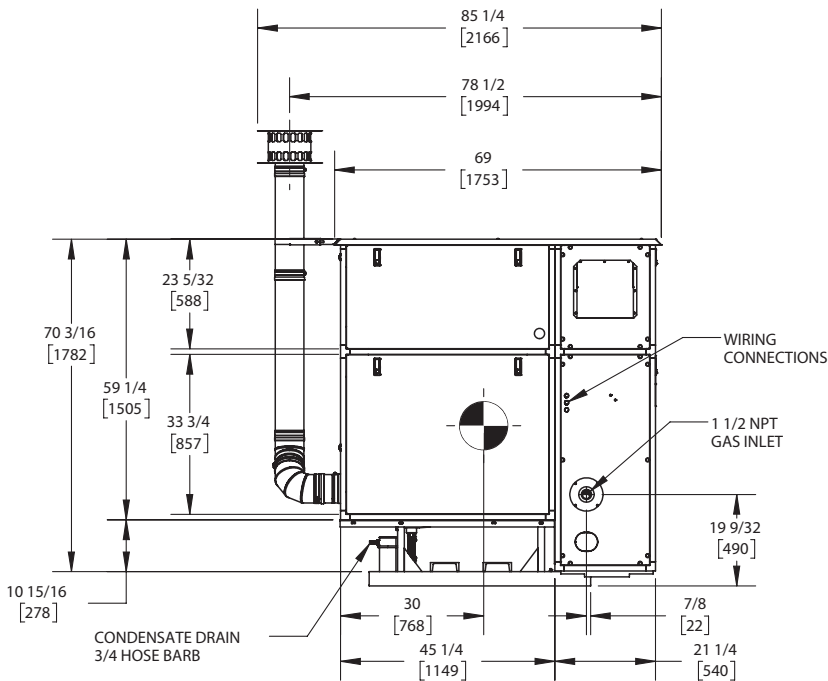
REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-16 Category II or Category IV Appliance (see Installation and Operation Manual for venting information) A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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OUTDOOR UNIT

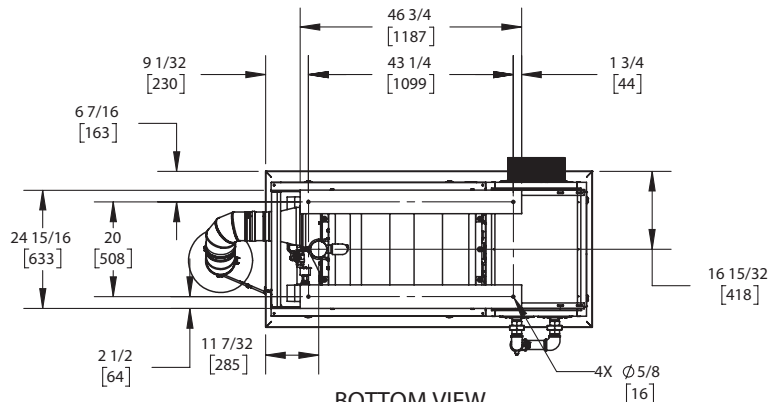
VENT
ASSEMBLY
CAP



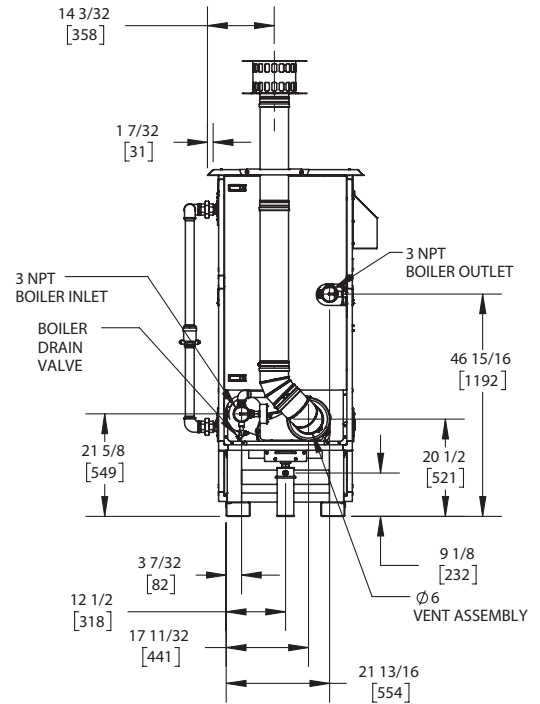
TOP VIEW
ASUB-34_F



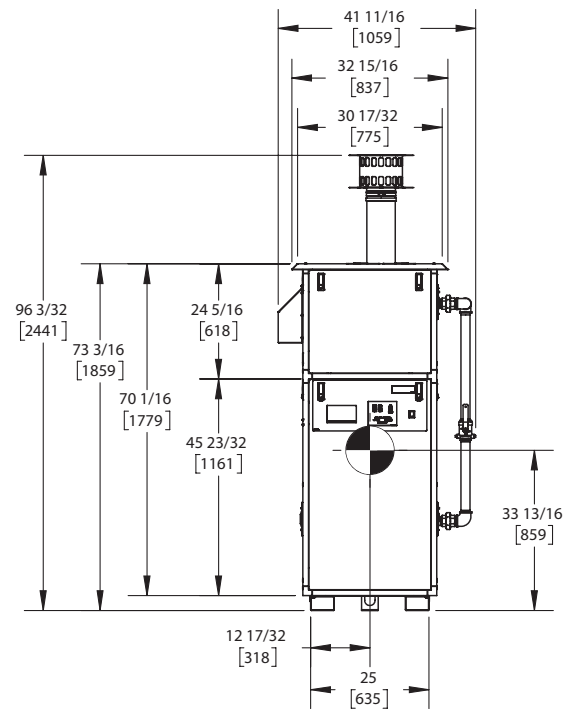
SIDE VIEW
ASUB-34_F



BOTTOM VIEW
ASUB-34_F



REAR VIEW
ASUB-34_F



FRONT VIEW
ASUB-34_F

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].

KN-20

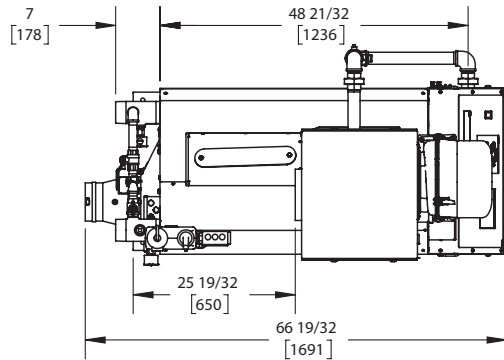
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

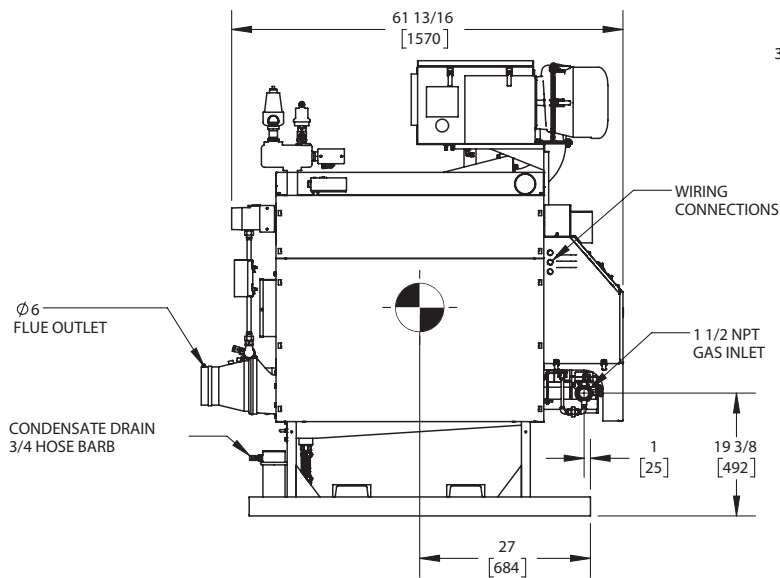
CSD-1

STANDARD

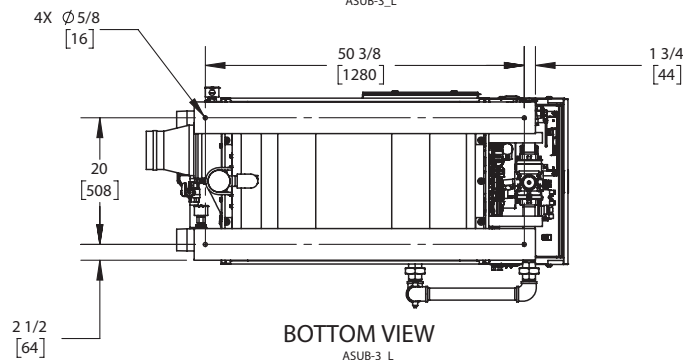
INDOOR UNIT



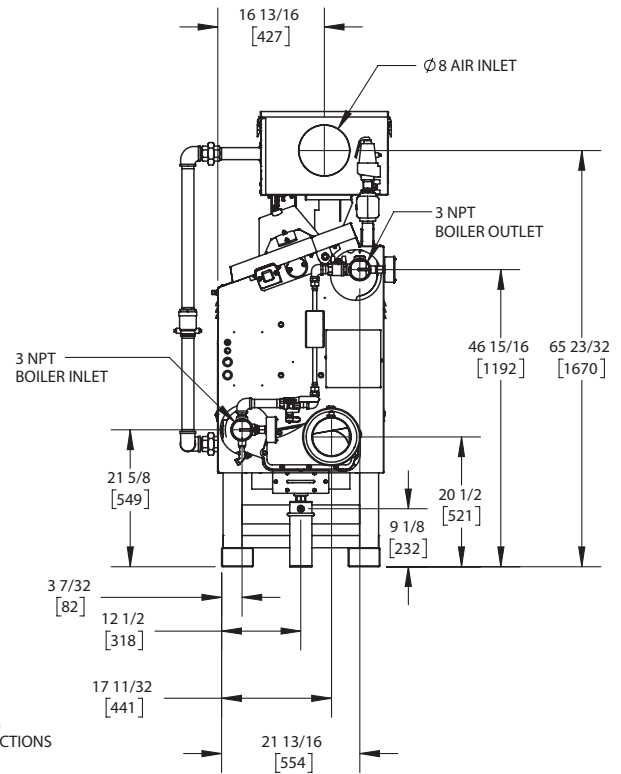
TOP VIEW
ASUB-3_L



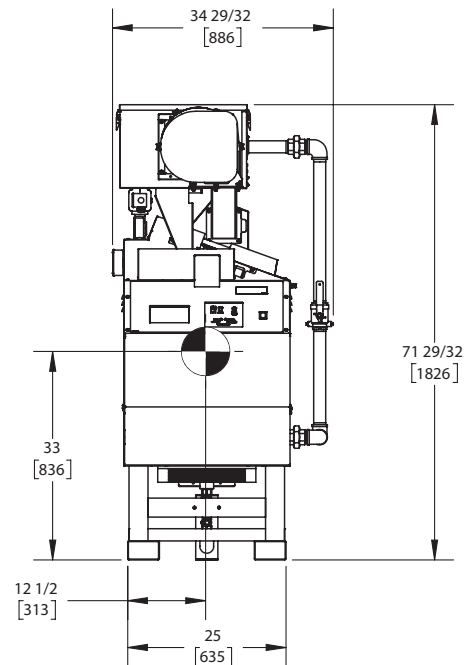
SIDE VIEW
ASUB-3_L



BOTTOM VIEW
ASUB-3_L



REAR VIEW
ASUB-3_L



FRONT VIEW
ASUB-3_L

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

Fuel Type	Natural/LP Gas	Boiler FLA	13.1 A*
Input BTU/hr.	1999 MBH / 586 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	1799 MBH / 527 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	53.7	Water Volume	21.9 gal.
Electrical Requirements	230VAC/60 hz/1PH (with neutral)	Operating Weight	2714 lbs. / 1232 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

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

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	67.72 Sq. Ft. / 6.29 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	71.08 Sq. Ft. / 6.60 Sq. M.		
CV. GPM (1PSID)	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
180.0	11.40	2.88	8.60	90.0	5.70	.72	2.20	60.0	3.80	.32	1.00	45.0	2.80	.18	.50	36.0	2.30	.12	.30

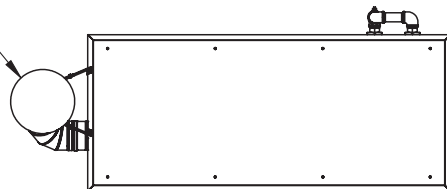
Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
36.0		180.0		20		100		6		120		0		120	

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

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-20 Category II or Category IV Appliance (see Installation and Operation Manual for venting information) A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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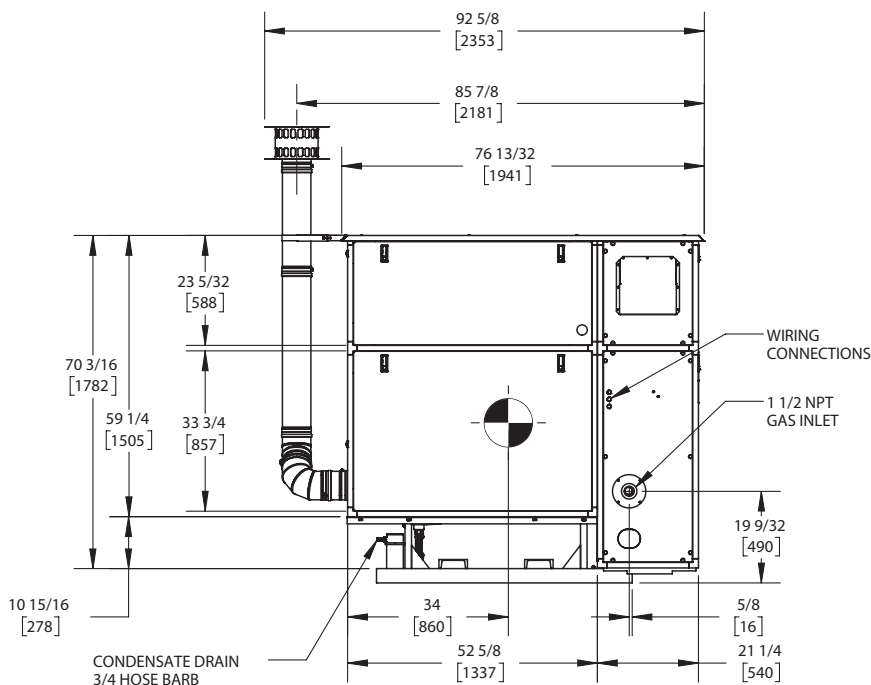
OUTDOOR UNIT

VENT
ASSEMBLY
CAP



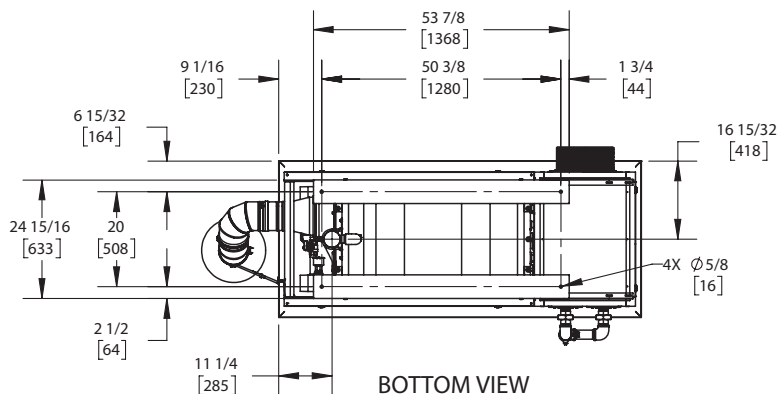
TOP VIEW

ASUB-35_E



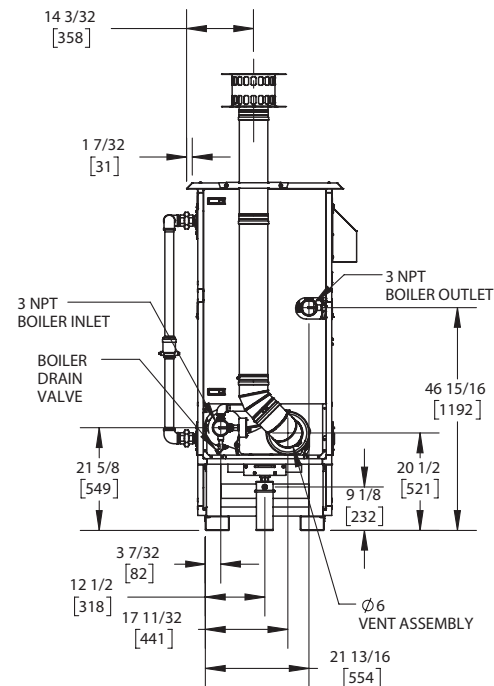
SIDE VIEW

ASUB-35_E



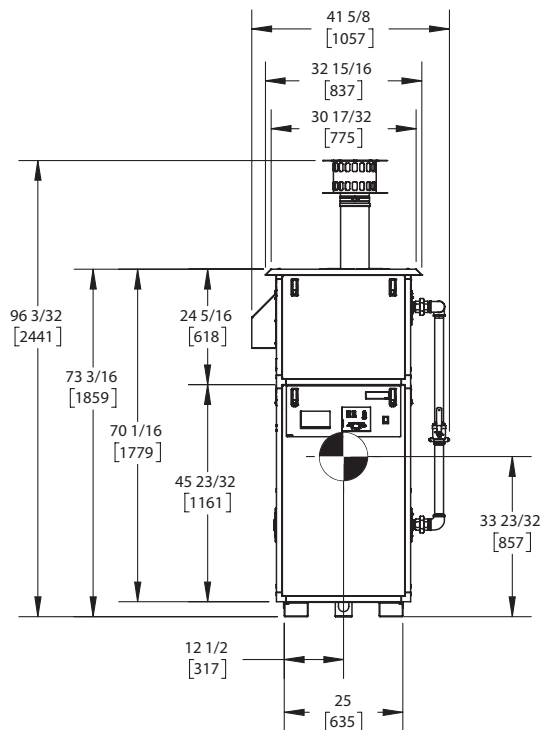
BOTTOM VIEW

ASUB-35_E



REAR VIEW

ASUB-35_E



FRONT VIEW

ASUB-35_E

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].

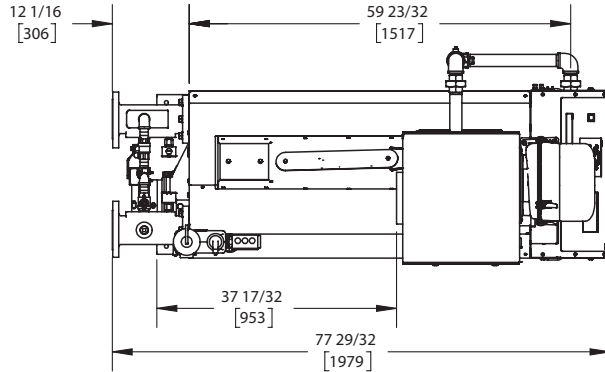
KN-26

Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

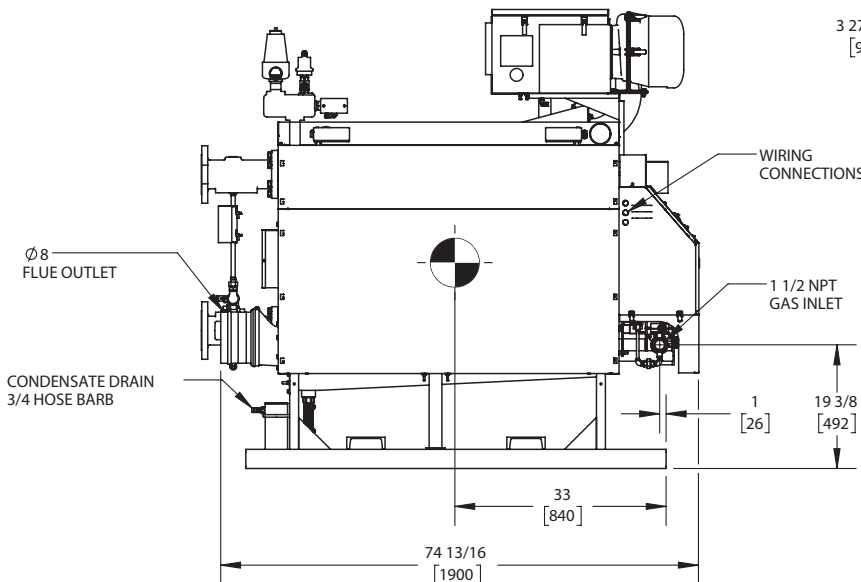
CODE OPTIONS

CSD-1	STANDARD
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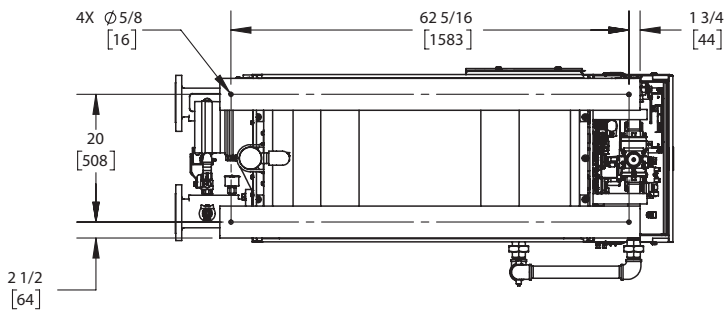
INDOOR UNIT



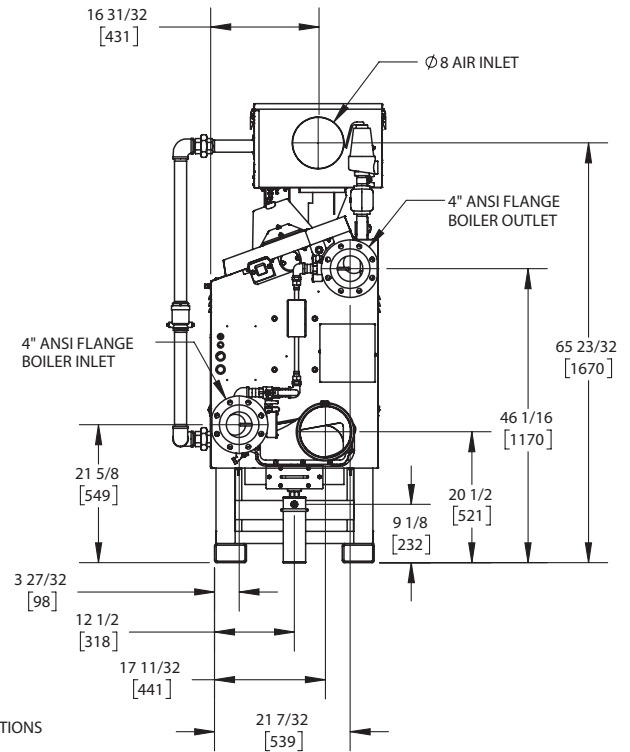
TOP VIEW
ASUB-12_F



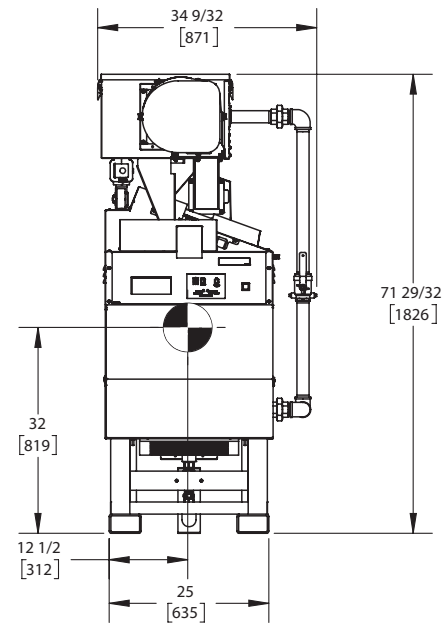
SIDE VIEW
ASUB-12_F



BOTTOM VIEW
ASUB-12_F



REAR VIEW
ASUB-12_F



FRONT VIEW
ASUB-12_F

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

Fuel Type	Natural/LP Gas	Boiler FLA	10.7 A*
Input BTU/hr.	2600 MBH / 762 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	2340 MBH / 686 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	70	Water Volume	27.7 gal.
Electrical Requirements	230VAC/60 hz/3PH	Operating Weight	3425 lbs. / 1555 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1-1/2" Apollo	Flow Sensor	SIKA
Ignition Control	Honeywell RM7895C	Blocked Flue Switch	Cleveland NS2
Operating Control	HeatNet®	Blower Motor	Ametek
High Limit (Manual Reset)	Honeywell L4006E	L.W.C.O.	800
High Limit (Auto Reset)	Honeywell L4006A	Relief Valve	30, 50, 75 & 100 PSI
Main Ball Valve	1-1/2" Apollo	Pilot Regulator	Maxitrol RV12LT
Pilot Cock	1/4" Conbraco		

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	87.69 Sq. Ft. / 8.15 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	92.41 Sq. Ft. / 8.59 Sq. M.		
CV. GPM (1PSID)	222		

*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
234.1	14.80	2.57	7.70	117.0	7.40	.64	1.90	78.0	4.90	.29	.90	58.5	3.70	.16	.50	46.8	3.00	.10	.30

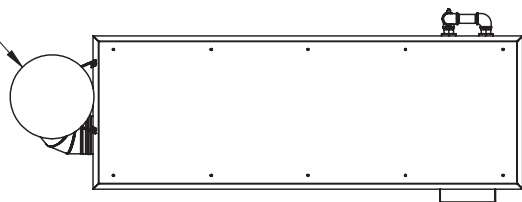
Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
46.8		234.1		20		100		6		120		0		120	

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

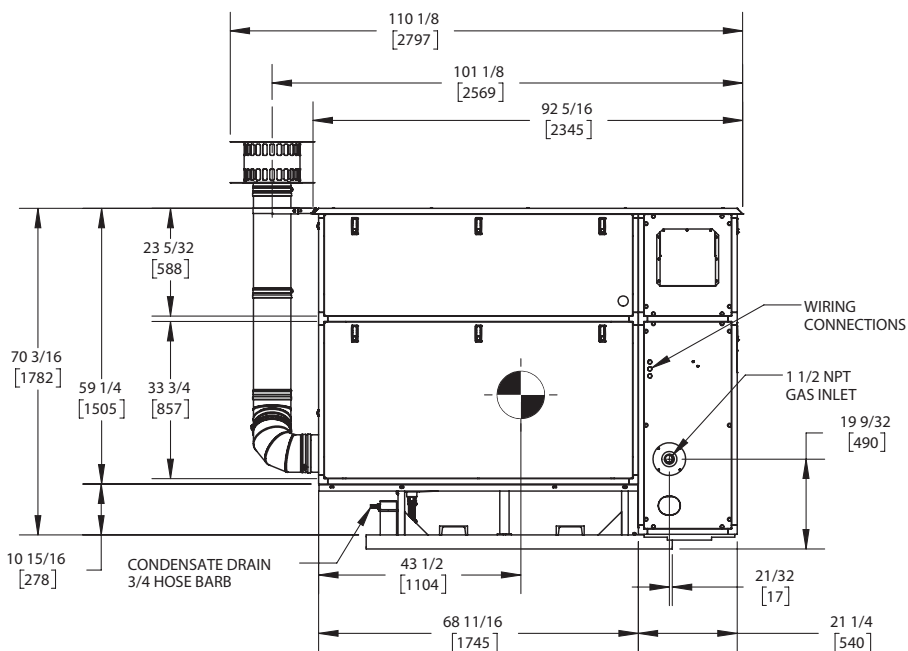
REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-26 Category II or Category IV Appliance (see Installation and Operation Manual for venting information)  A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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OUTDOOR UNIT

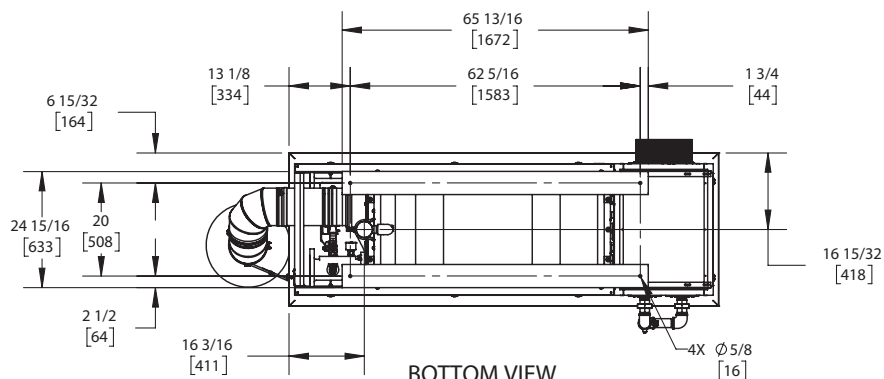
VENT
ASSEMBLY
CAP



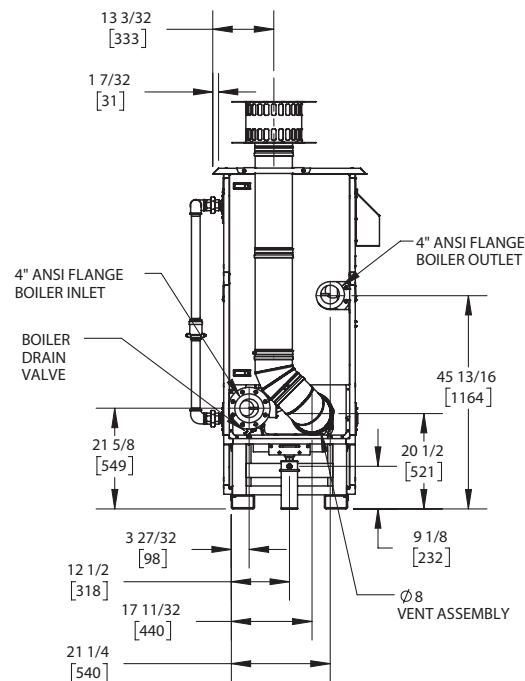
TOP VIEW
ASUB-36_E



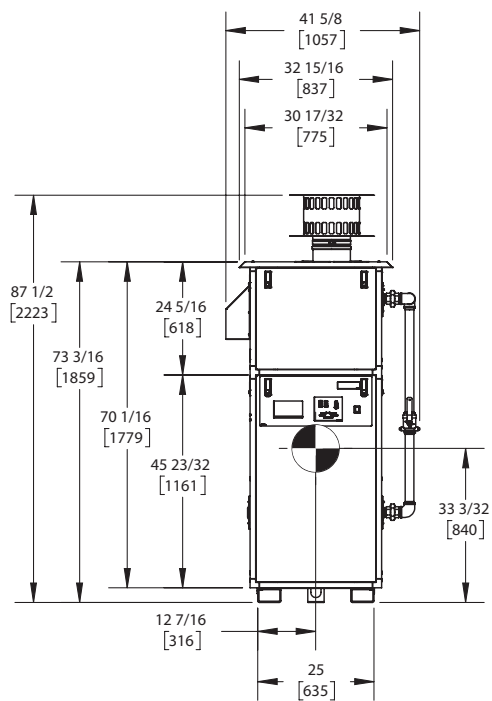
SIDE VIEW
ASUB-36_E



BOTTOM VIEW
ASUB-36_E



REAR VIEW
ASUB-36_E



FRONT VIEW
ASUB-36_E

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].

KN-30

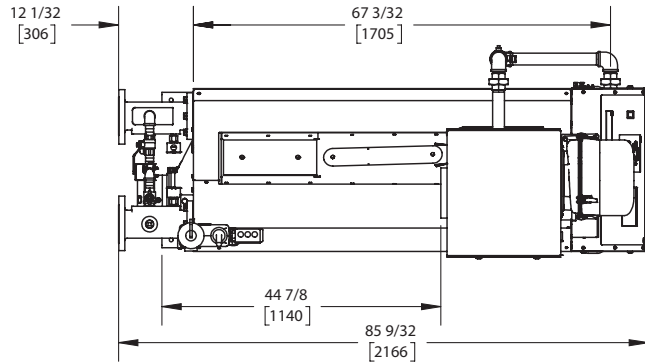
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

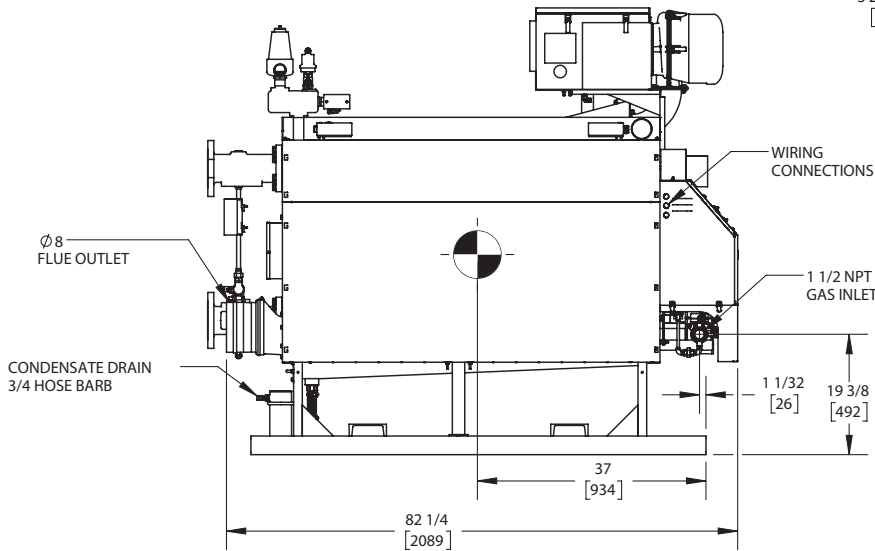
CSD-1

STANDARD

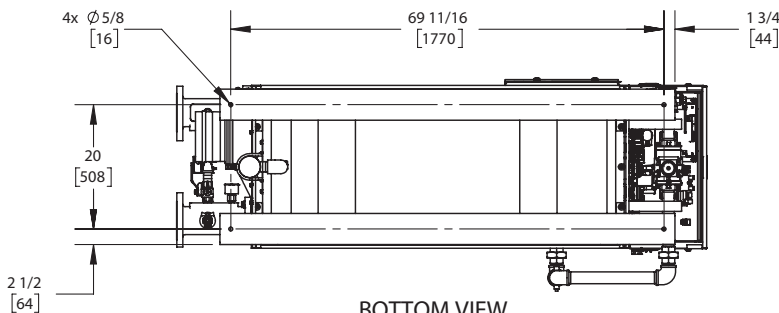
INDOOR UNIT



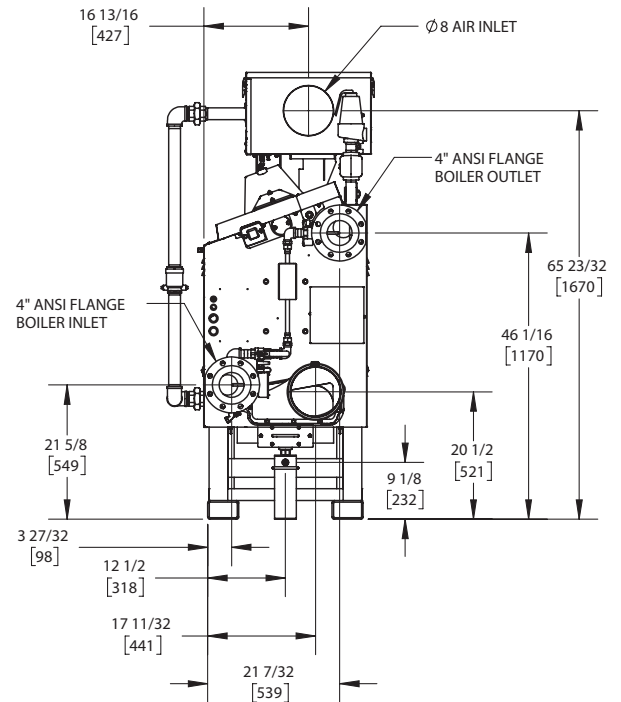
TOP VIEW
ASUB-10_G



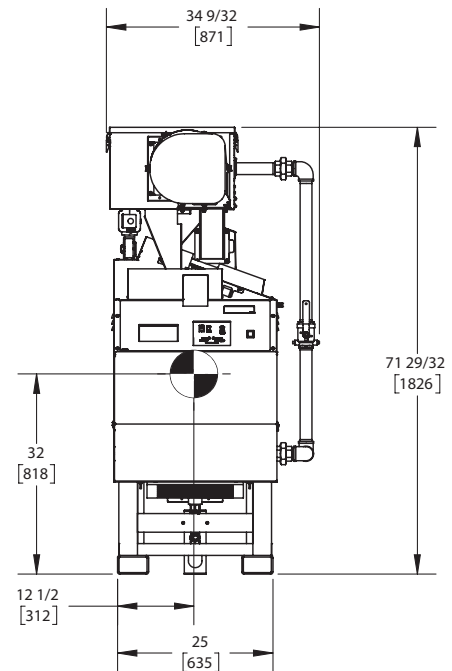
SIDE VIEW
ASUB-10_G



BOTTOM VIEW
ASUB-10_G



REAR VIEW
ASUB-10_G



FRONT VIEW
ASUB-10_G

NOTES:

1. ϕ - 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

Fuel Type	Natural/LP Gas	Boiler FLA	10.7 A*
Input BTU/hr.	3000 MBH / 879 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	2700 MBH / 791 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	80.7	Water Volume	31.7 gal.
Electrical Requirements	230VAC/60 hz/3PH	Operating Weight	3850 lbs. / 1748 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	1-1/2" Apollo	Flow Sensor	SIKA
Ignition Control	Honeywell RM7895C	Blocked Flue Switch	Cleveland NS2
Operating Control	HeatNet®	Blower Motor	Ametek
High Limit (Manual Reset)	Honeywell L4006E	L.W.C.O.	800
High Limit (Auto Reset)	Honeywell L4006A	Relief Valve	30, 50, 75 & 100 PSI
Main Ball Valve	1-1/2" Apollo	Pilot Regulator	Maxitrol RV12LT
Pilot Cock	1/4" Conbraco		

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	100.98 Sq. Ft. / 9.38 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	106.63 Sq. Ft. / 9.91 Sq. M.		
CV. GPM (1PSID)	246		

*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
270.1	17.0	2.78	8.30	135.1	8.50	.70	2.10	90.0	5.70	.31	.90	67.5	4.30	.17	.50	54.0	3.40	.11	.30

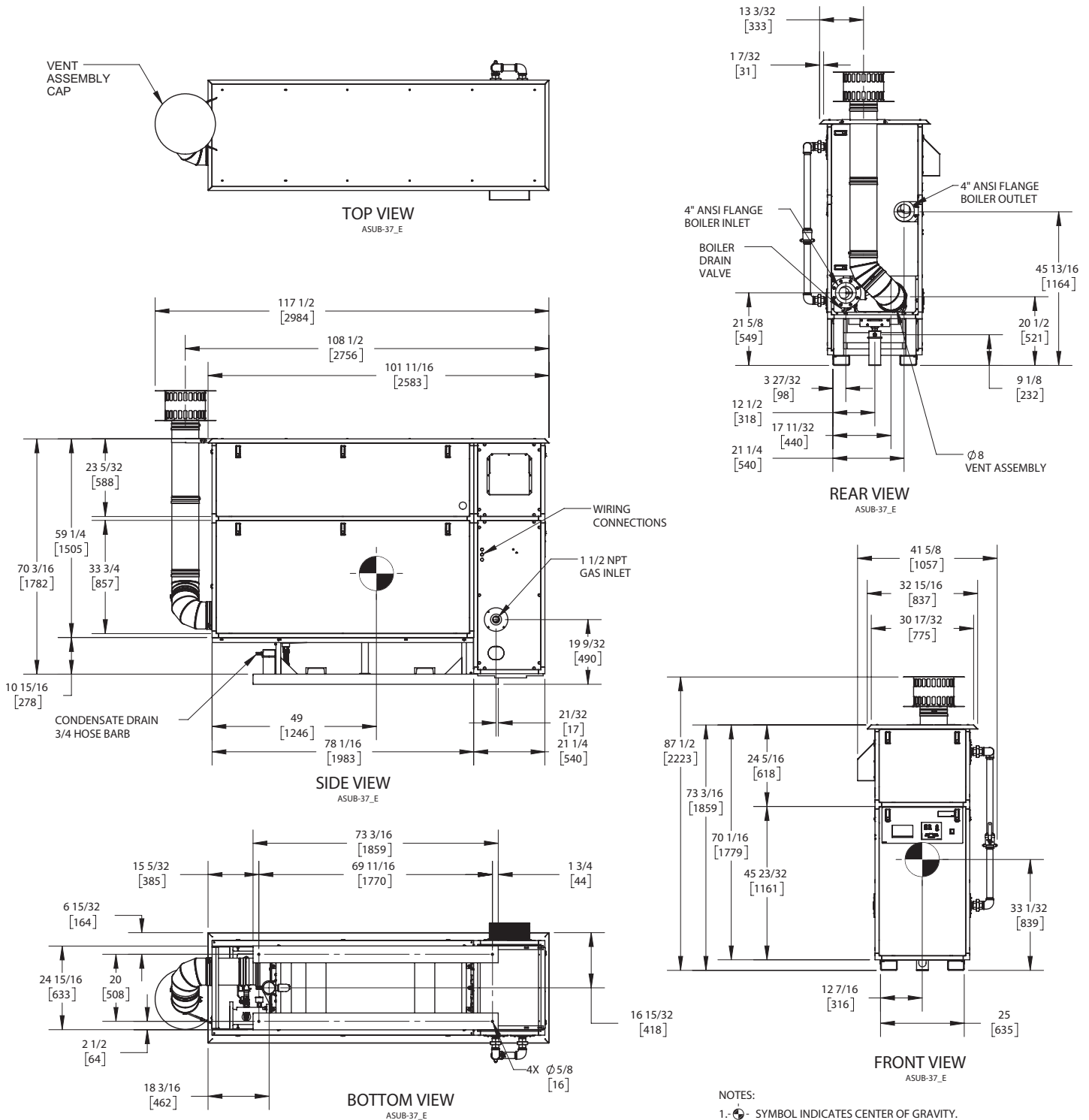
Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
54.4		270.1		20		100		6		120		0		120	

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

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-30 Category II or Category IV Appliance (see Installation and Operation Manual for venting information)  A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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KN-30

OUTDOOR UNIT



KN-40

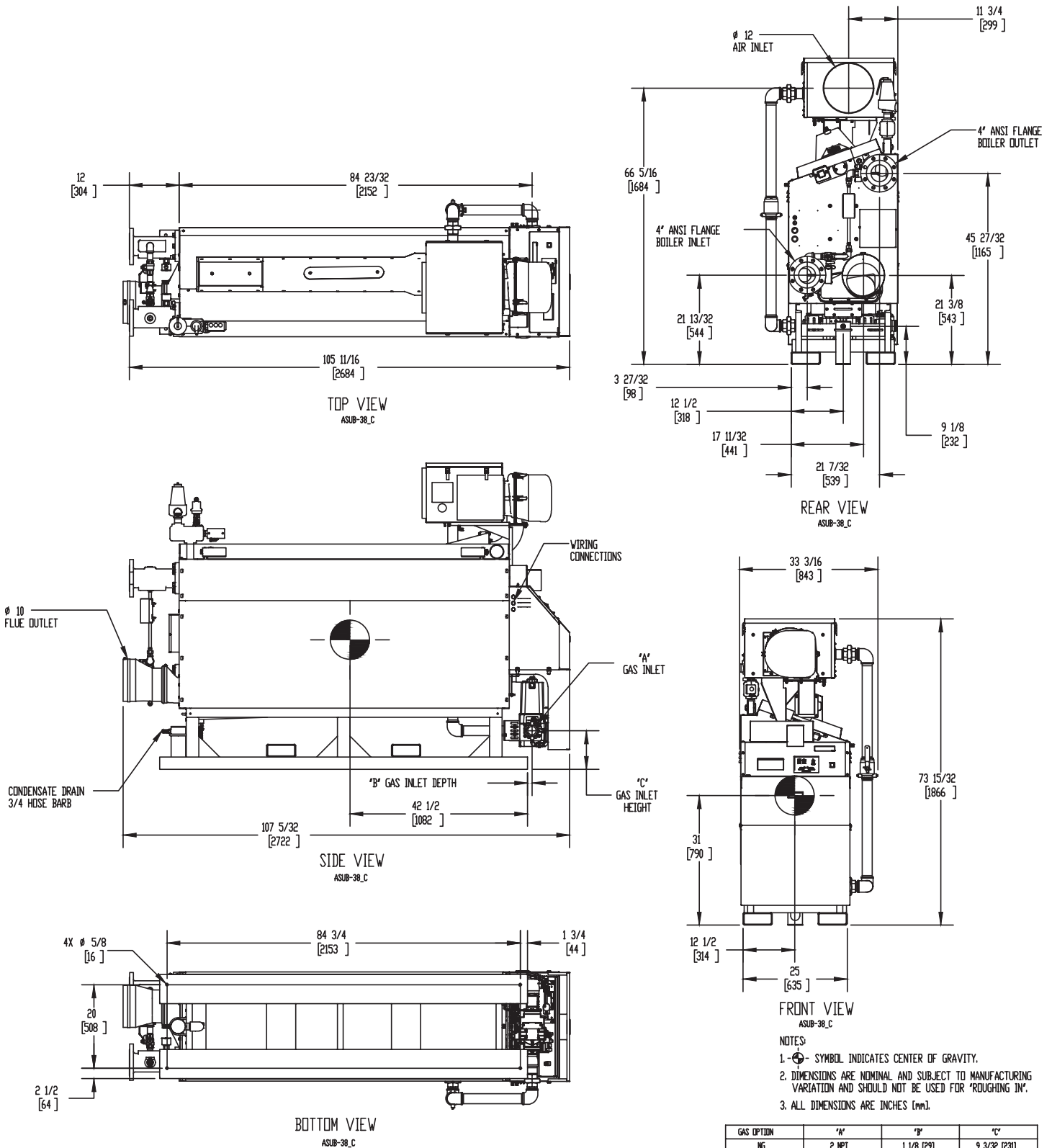
Category II or Category IV Appliance
(see Installation and Operation Manual for venting information)

CODE OPTIONS

CSD-1

STANDARD

INDOOR UNIT



A.G.A. CERTIFIED RATINGS & CAPACITIES

Fuel Type	Natural/LP Gas	Boiler FLA	14.9 A*
Input BTU/hr.	4000 MBH / 1172 KW	Min. Gas Pressure Required	3" W.C.
Output BTU/hr.	3540 MBH / 1037 KW	Max. Gas Pressure Allowed	14" W.C.
Boiler HP	105.8	Water Volume	41.6 gal.
Electrical Requirements	230VAC/60 hz/3PH	Operating Weight	4627 lbs. / 2101 kg.
SCCR Rating	5kA		

BOILER TRIM & CONTROLS

Main Gas Valve	Dungs MBC	Air Switch	Huba
Firing Valve	2" Apollo	Flow Sensor	SIKA
Ignition Control	Honeywell RM7895C	Blocked Flue Switch	Cleveland NS2
Operating Control	HeatNet®	Blower Motor	Ametek
High Limit (Manual Reset)	Honeywell L4006E	L.W.C.O.	800
High Limit (Auto Reset)	Honeywell L4006A	Relief Valve	30, 50, 75 & 100 PSI
Main Ball Valve	2" Apollo	Pilot Regulator	Maxitrol RV12LT
Pilot Cock	1/4" Conbraco		

A.S.M.E.

ASME Sect IV Fire Side Htg Surface	134.23 Sq. Ft. / 12.47 Sq. M.	Design Data	100 PSI & 250°F
ASME Sect IV Water Side Htg Surface	142.17 Sq. Ft. / 13.21 Sq. M.		
CV. GPM (1PSID)	271		

*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
354.1	22.3	3.94	11.8	177.1	11.2	.99	2.90	118.0	7.40	.44	1.30	88.5	5.60	.25	.70	70.8	4.50	.16	.50

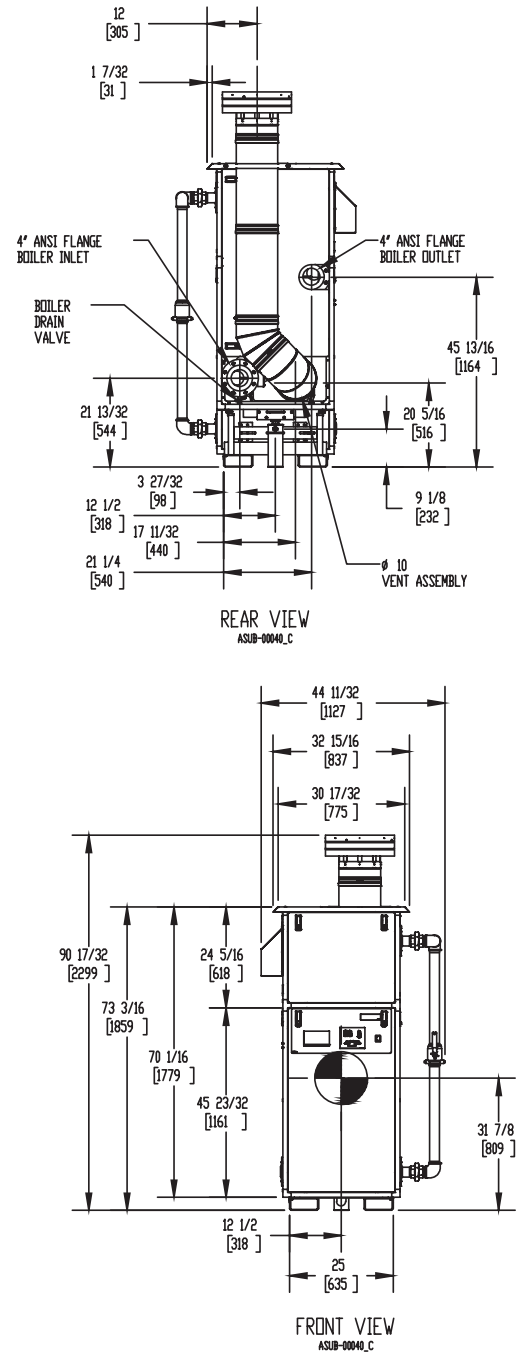
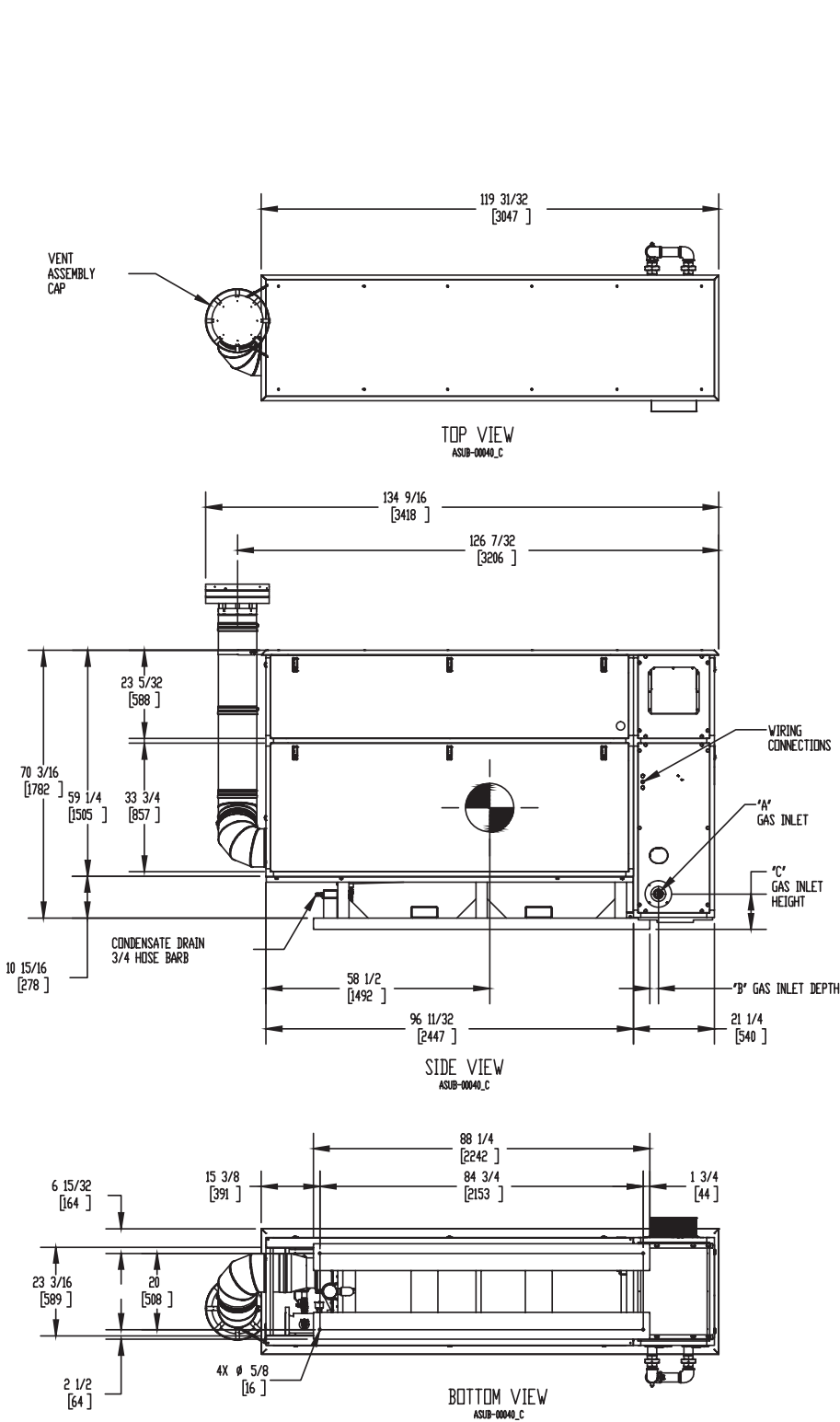
Flow GPM				Temp. Rise** (°F)				Vent Length (Equiv. Ft.)				Air Inlet Length (Equiv. Ft.)			
Min		Max		Min		Max		Min		Max		Min		Max	
70.8		354.1		20		100		6		100		0		100	

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

REP FIRM _____ SUBMITTED BY _____ JOB NAME _____ ARCHITECT _____ ENGINEER _____ CONTRACTOR _____ DATE _____	KN-40 Category II or Category IV Appliance (see Installation and Operation Manual for venting information) A Division of Mestek, Inc. Westfield, MA 01085 (413) 564-5515
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KN-40

OUTDOOR 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].

GAS OPTION	"A"	"B"	"C"
NG	2 NPT	2 7/32	9 9/32
LP	1 1/2 NPT	2 7/8	16 3/32