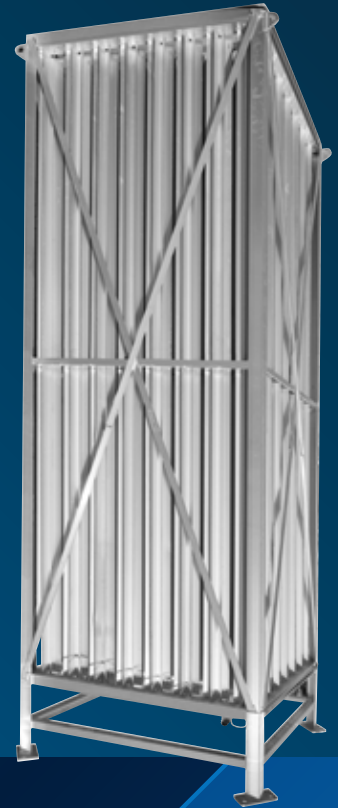
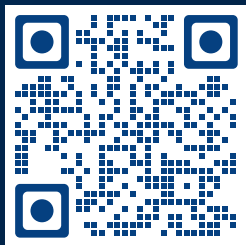




Vaporizers



For more information on
Acme scan the QR Code
above

Ambient Vaporizers

Electric Vaporizers

Electric Trim Heaters

Shell & Tube

Water Bath Vaporizers

Specialty Vaporizers

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About Acme Cryogenics

Acme Cryogenics, based in Allentown, PA is a leading designer, manufacturer, and provider of precision-engineered products and field services for the production, distribution, and storage of cryogenic liquids and industrial gases.

Acme provides an extensive suite of products and services for customers across the entire industrial gas supply and distribution chain, in end markets such as food packaging, alternative fuels, pharmaceutical, cryobio, semiconductor, aerospace, medical gas and industrial gas industries.

The company has long-standing customer relationships due to its strong reputation and leading technical capabilities for customized systems and solutions as well as superior product quality.



About CEXI

Cryogenic Experts (CEXI), a division of ACME Cryogenics, builds a full line of Ambient vaporizers for both process and disposal applications. CEXI is also known for several styles of electrically heated systems, water bath, steam, forced convection, and gas-fired designs. Cryogenic Experts can design and specify vaporizers and gas heaters from 1kW gas heaters to large custom-designed systems.

Why Choose Vaporizers?

Vaporizers are an important part of the cryogenic liquid system. As vapor or gas is required, vaporizers can add the energy necessary to change the state or phase of the cryogenic liquid. This can either be from the air with ambient vaporizers, water with forced convection vaporizers, steam with Steam Vaporizers or Steam Heated Water bath, Natural Gas with the Direct Fired Water Bath vaporizers, or electricity with Direct to Process or Electric Heated Water Bath vaporizers. Acme Cryogenics, through the Cryogenic Experts division, can build a vaporizer to meet your needs.

Product Info

Vaporizers for process, disposal, and other similar applications, including:

- Ambient / Steam
- Electric
- Natural Gas Systems

Ambient Vaporizers

Application

These Vaporizers have a proprietary extended surface design that we use for process applications. Built up to 200,000 scfh in a single unit. With a full line of accessories including cycling systems and trim heaters for ambient applications.

Ambient Vaporizers vaporize liquefied gas by using heat absorbed from the ambient air. ACME Cryogenics offers a variety of ambient air vaporizers for a number of applications. These ambient air vaporizers are sized to match your flow requirement to avoid low-temperature gas entering the product pipeline. All ambient air vaporizers utilize Acme's innovative technology and reliable construction, and are also available in custom solutions.

Features

- Aluminum or stainless steel fluid passages
- Design pressure to 10,000 PSIG
- Capacities to 50,000 SCFH in single assemblies
- Manifold designs to suit pressure drop specifications
- Removable legs
- MPT in/out connections

Options

- Special fluid passages
- Special in and out connections
- Special frames
- Special sizes including height
- Custom designs for gas cooling/heating applications
- Auto-cycling vaporizing systems complete with manifolding, valves, and temperature control systems.



Types of Vaporizers

Forced Draft Ambient Vaporizer



Automatic Cycling Systems



Ambient Pressure Build



Extra Gap Vaporizer



Forced Draft Ambient Vaporizers

Application

These Vaporizers have a proprietary extended surface design that we use for process applications. Built up to 200,000 scfh in a single unit. With a full line of accessories including cycling systems and trim heaters for ambient applications.

Ambient Vaporizers vaporize liquefied gas by using heat absorbed from the ambient air. ACME Cryogenics offers a variety of ambient air vaporizers for a number of applications. These ambient air vaporizers are sized to match your flow requirement to avoid low-temperature.

Features

- Greater capacity in a reduced footprint
- Rugged construction
- Fast defrost times
- Upward flow to eliminate fog build-up at the base of the vaporizer
- Superior airflow characteristic for improved performance
- Pressures to 15,000 PSIG
- Flow ratings to 200,000 SCFH
- Extrusion length ranging from 10' to 30'
- Applications include N₂, O₂, CO₂, LNG, and other gases (please contact us for your specific application)
- Manifold designs to suit pressure drop specifications
- Inlet and Outlet Connections: NPT (National Pipe Thread), Mueller Flange, Tube, or ASME flange

Options

- Monel or electro-polished stainless steel fluid passages
- Tube sizes up to 1" OD
- Special inlet and outlet connections
- Frames designed for seismic and wind loads
- Special sizes and configurations – including trailer mount and horizontal flow
- Gas-cooling or gas-heating applications
- Auto-cycling vaporizing systems complete with manifolding, valves, and temperature control systems



Specifications

- **External Fins:** 6063 aluminum alloy
- **Fluid Passages:** 6063 aluminum, 304 / 316 stainless steel, Monel, and electro-polished 316L available
- **Frame Assembly:** Type 6061 aluminum alloy
- **Working Temperature:** -425°F to +100°F
- **Working Pressure:** 500 PSIG to 10,000 PSIG
- **Discharge Gas Temperature:** Within 20°F of ambient conditions (standard)
- **Standard units:** 10' extrusion length, 147" overall height
- **Optional units:** Up to 30' extrusion length, 432" overall height

Model	SCFH 8hr	A" (L)	B" (W)	C" (H)	Fan H/P
AF9	9,960	29	29	141	3/4
AF16	17,700	38	38	143	1
AF25	27,600	48	48	147	3
AF36	39,800	48	48	150	5
AF49	54,200	60	60	151	7 1/2
AF64	70,800	70	70	155	10
AF80	88,500	70	70	160	10
AF100	110,600	84	84	160	15

Ordering Information

Part Number	N2, O2, Ar SCFH 8hr	LNG		Fan HP	Surface Area
		lbs/hour 8hr	SCFH 8hr		
Forced Draft Aluminum 10' Ambient Vaporizer - 9.25" Gap - 194" Tall					
AF9A-10	9,960			0.75	450
AF16A-10	17,700			1	800
AF25A-10	27,600			3	1,250
AF36A-10	39,800			5	1,800
AF49A-10	54,200			7.5	2,450
AF64A-10	70,800			10	3,200
AF80A-10	88,500			10	4,050
AF100A-10	110,600			15	5,000
Forced Draft Aluminum 20' Ambient Vaporizer - 9.25" Gap - 314" Tall					
AF25A-20	55,300			3	2,500
AF36A-20	79,600				3,600
AF49A-20	108,400				4,900
AF64A-20	141,600			15	6,400
AF80A-20	177,000				8,100
AF100A-20	221,300			25	10,000

Forced Draft Ambient Vaporizers

Ordering Information

Part Number	N2, O2, Ar SCFH 8hr	LNG		Fan HP	Surface Area
		lbs/hour 8hr	SCFH 8hr		
Forced Draft Aluminum 30' Ambient Vaporizer - 9.25" Gap - 434" Tall					
AF36A-30	119,500				5,400
AF49A-30	162,600				7,350
AF64A-30	212,400				9,600
AF80A-30	265,600				12,150
AF100A-30	332,000				15,000
Forced Draft SS 9.3' Ambient Vaporizer - 9.25" Gap - 190" Tall					
AF16SS-9.3	16,400			1	744
AF25SS-9.3	25,700			3	1,163
AF36SS-9.3	37,000			5	1,674
AF49SS-9.3	50,400			7.5	2,279
AF64SS-9.3	65,800			10	2,976
AF80SS-9.3	82,300			10	3,767
AF100SS-9.3	102,900			15	4,650
Forced Draft SS 18.6' Ambient Vaporizer - 9.25" Gap - 297" Tall					
AF25SS-18.6	51,400			3	2,325
AF36SS-18.6	74,100				3,348
AF49SS-18.6	100,600				4,557
AF64SS-18.6	131,700			15	5,952
AF80SS-18.6	164,600				7,533
AF100SS-18.6	205,800			25	9,300
Forced Draft Aluminum 10' Ambient Extra Gap Vaporizer - 13" Gap - 194" Tall					
Part Number	N2, O2, Ar SCFH 24hr	LNG		Fan HP	Surface Area
		lbs/hour 24hr	SCFH 24hr		
AF9AEG-10	3,300				450
AF16AEG-10	5,900				800
AF25AEG-10	9,200				1,250
AF36AEG-10	13,200				1,800
AF49AEG-10	18,000				2,450
AF64AEG-10	23,600				3,200
Forced Draft Aluminum 20' Ambient Extra Gap Vaporizer - 13" Gap - 314" Tall					
AF25AEG-20	18,400				2,500
AF36AEG-20	26,500				3,600
AF49AEG-20	36,100				4,900
AF64AEG-20	47,200				6,400

Automatic Cycling Systems

Application

Acme's Automatic Cycling System features include copper piping, inlet strainer, Mueller flange connections, 0 – 100 hour cycle time, 120 VAC operation, and 500 PSIG working pressure.

Features

- Copper piping
- Inlet strainer
- Mueller flange connections
- 0 – 100 hour cycle time
- 120 VAC Operation
- 500 PSIG Working Pressure

Options

- ASME flange connections
- Explosion-proof electrical
- 304 stainless steel fluid passages
- Block and bypass valves
- Normally open or normally closed valves
- Liquid or Gas side cycling



Advantages

- Simplifies field installation
- Reduces size and number of ambient vaporizers required
- Fully piped

Ambient Pressure Build

Application

Acme's Ambient Pressure Build Vaporizer offers many practical advantages, including inexpensive initial cost, easy installation, no required maintenance, no pressure drop, and no required additional heating energy.

Features

- Aluminum Construction
- Aluminum, 304 or 316 stainless-steel fluid passages
- Pressure to 15,000 PSIG
- Capacities to 90,000 SCFH
- Extrusion length range from 7' to 20'
- Applications include N₂, O₂, CO₂, LNG and other gases (please contact us for your specific application)
- Inlet and Outlet Connections: Mueller Flange or ASME flange
- Automatic pressure control in conjunction with 'Cash' or 'ACME' regulators
- Pressure-Build units – 'Lazy A' and Vertical configurations available



Model	A"	B"	Approx Wt (lbs)
PBA2A	12	13	70
PBA3A	17	14	105
PBA4A	17	14	140
PBA6A	27	24	210
PBA8A	36	33	280
PBA10A	45	42	350
PBA12A	54	51	420
PBA14A	64	61	490
PBA16A	73	70	560
PBA18A	82	79	630
PBA20A	91	88	700

Options

- Monel or electro-polished stainless steel fluid passages
- Tube sizes up to 1" OD
- Special inlet and outlet connections

Advantages

- Inexpensive initial cost
- Requires no additional heating energy
- Easy installation
- Maintenance-free
- No pressure drop

Specifications

- **External Fins:** 6063 aluminum alloy
- **Fluid Passages:** 6063 aluminum, 304 / 316 stainless steel, Monel and electro-polished 316L available
- **Frame Assembly:** Type 6061 aluminum alloy
- **Working Temperature:** -425°F to +100°F
- **Working Pressure:** 500 PSIG to 10,000 PSIG
- **Discharge Gas Temperature:** Above saturated (standard)
- **Standard units:** 7' extrusion length, 43" overall height
- **Optional units:** Up to 20' extrusion length, 65" overall height

Ambient Pressure Build

Ordering Information

Part Number	N2, O2, Ar	CO2		Surface Area
	SCFH 8hr	lbs/hour 8hr SCFH 8hr		
Pressure Build Aluminum 7' Ambient Vaporizer - 9.25" Gap - 43" Tall				
PBA2A-7	2,000			70
PBA3A-7	3,100			105
PBA4A-7	4,200			140
PBA6A-7	6,300			210
PBA8A-7	8,400			280
PBA10A-7	10,500			350
PBA12A-7	12,600			420
PBA16A-7	16,800			560
PBA20A-7	21,000			700
Pressure Build Aluminum 10' Ambient Vaporizer - 9.25" Gap - 48" Tall				
PBA2A-10	3,000			100
PBA4A-10	6,000			200
PBA6A-10	9,000			300
PBA8A-10	12,000			400
PBA10A-10	15,000			500
PBA12A-10	18,000			600
PBA16A-10	20,000			800
PBA20A-10	24,000			1,000
Pressure Build Aluminum 20' Ambient Vaporizer - 9.25" Gap - 65" Tall				
PBA10A-20				1,000
PBA12A-20				1,200
PBA16A-20	33,600			1,600
PBA20A-20	48,000			2,000
Pressure Build SS 7' Ambient Vaporizer - 9.25" Gap - 43" Tall				
PBA2SS-7	2,000			70
PBA3SS-7	3100			105
PBA4SS-7	4,200			140
PBA6SS-7	6,300			210
PBA8SS-7	8,400			280
PBA10SS-7	10,500			350
PBA12SS-7				420
PBA16SS-7				560
PBA20SS-7				700
Pressure Build SS 9.3' Ambient Vaporizer - 9.25" Gap - 48" Tall				
PBA2SS-9.3	3,000			93
PBA4SS-9.3	6,000			186
PBA6SS-9.3	9,000			279
PBA8SS-9.3	12,000			372
PBA10SS-9.3	13,900			465
PBA12SS-9.3	16,680			558
PBA16SS-9.3				744
PBA20SS-9.3	22,300			930
Pressure Build SS 18.6' Ambient Vaporizer - 9.25" Gap - 65" Tall				
PBA10SS-18.6				930
PBA12SS-18.6				1,116
PBA16SS-18.6				1,488
PBA20SS-18.6	44,600			1,860

Extra Gap Vaporizers

Advantages

- Improved resistance to ice bridging
- Longer service ratings
- Design pressure to 10,000 PSIG
- Capacities to 51,408 SCFH in a single module

Ordering Information

Extra Gap Aluminum 10' Ambient Vaporizer - 13" Gap - 156" Tall					
	N2, O2, Ar	CO2		LNG	Surface
Model No	SCFH 24hr	lbs/hour 24hr	SCFH 24hr	SCFH 24hr	Area
A2AEG-10	1,000	50	440	650	100
A4AEG-10	2,000	100	870	1,300	200
A6AEG-10	3,000	150	1,310	1,950	300
A8AEG-10	4,000	200	1,750	2,600	400
A10AEG-10	5,000	250	2,190	3,250	500
A12AEG-10	6,000	300	2,620	3,900	600
A14AEG-10	7,000	350	3,060	4,550	700
A16AEG-10	8,000	400	3,490	5,200	800
A20AEG-10	10,000	500	4,370	6,500	1,000
A24AEG-10	12,000	600	5,240	7,800	1,200
A30AEG-10	15,000	750	6,560	9,750	1,500
A36AEG-10	18,000	900	7,870	11,700	1,800
A42AEG-10	21,000	1,050	9,180	13,650	2,100
A48AEG-10	24,000	1,200	10,490	15,600	2,400
A56AEG-10	28,000	1,400	12,240	18,200	2,800
A64AEG-10	32,000	1,600	13,990	20,800	3,200
Extra Gap Aluminum 20' Ambient Vaporizer - 13" Gap - 279" Tall					
A16AEG-20	16,000	800	6,980	10,400	1,600
A20AEG-20	20,000	1,000	8,740	13,000	2,000
A24AEG-20	24,000	1,200	10,490	15,600	2,400
A30AEG-20	30,000	1,500	13,110	19,500	3,000
A36AEG-20	36,000	1,800	15,730	23,400	3,600
A42AEG-20	42,000	2,100	18,360	27,300	4,200
A48AEG-20	48,000	2,400	20,980	31,200	4,800
A56AEG-20	56,000	2,800	24,470	36,400	5,600
A64AEG-20	64,000	3,200	29,970	40,000	6,400
Extra Gap Stainless-Steel 9.3' Ambient Vaporizer - 13" Gap - 138" Tall					
A2SSEG-9.3	930	50	410	610	93
A4SSEG-9.3	1,860	100	810	1,210	186
A6SSEG-9.3	2,790	140	1,220	1,810	279
A8SSEG-9.3	3,720	190	1,630	2,420	372
A10SSEG-9.3	4,650	240	2,030	3,020	465
A12SSEG-9.3	5,580	280	2,440	3,630	558
A14SSEG-9.3	6,510	330	2,850	4,230	650
A16SSEG-9.3	7,440	370	3,250	4,840	744
A20SSEG-9.3	9,300	470	4,060	6,050	930
A24SSEG-9.3	11,160	560	4,880	7,250	1,116
A30SSEG-9.3	13,950	700	6,100	9,070	1,395
A36SSEG-9.3	16,740	840	7,320	10,880	1,674
A42SSEG-9.3	19,530	980	8,540	12,700	1,953
A48SSEG-9.3	21,900	1,120	9,760	14,510	2,232
A56SSEG-9.3	26,040	1,300	11,380	16,930	2,604
A64SSEG-9.3	29,760	1,490	13,000	19,340	2,976
Extra Gap Stainless-Steel 18.6' Ambient Vaporizer - 13" Gap - 250" Tall					
A16SSEG-18.6	14,880	750	6,490	9,670	1,488
A20SSEG-18.6	18,600	930	8,130	12,090	1,860
A24SSEG-18.6	22,300	1,120	9,760	14,510	2,232
A30SSEG-18.6	27,900	1,400	12,190	18,140	2,790
A36SSEG-18.6	33,500	1,680	14,630	21,760	3,348
A42SSEG-18.6	39,000	1,950	17,000	25,390	3,906
A48SSEG-18.6	43,800	2,230	19,440	29,120	4,480
A56SSEG-18.6	52,100	2,605	22,680	33,950	5,227
A64SSEG-18.6	59,500	2,980	25,930	38,790	5,952

Standard Features

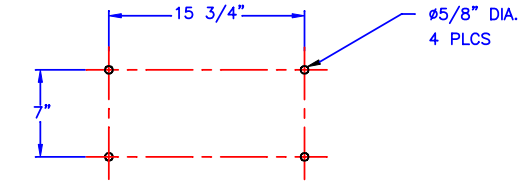
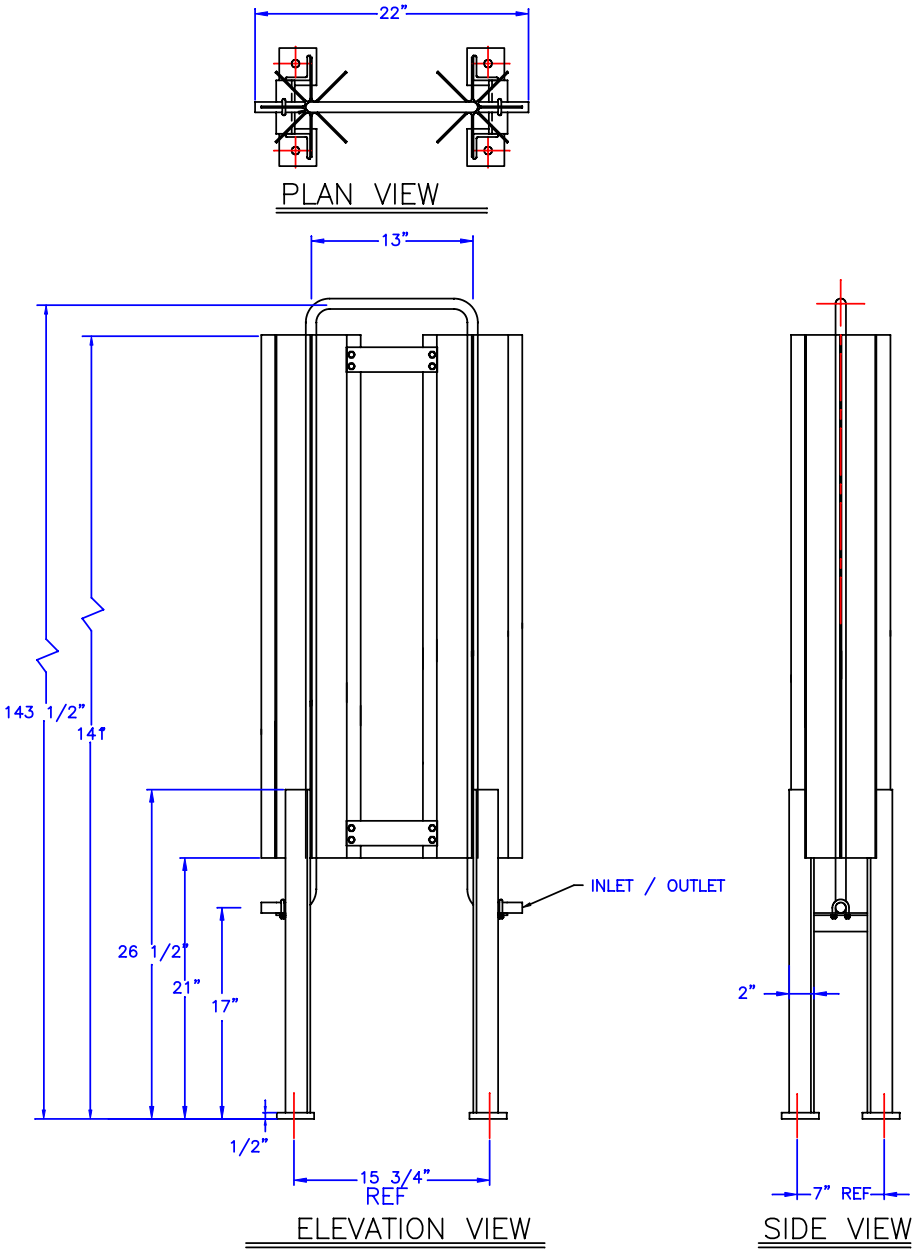
- Aluminum, Stainless or Monel fluid passages
- Removable legs
- Longer extrusion length
- Extra wide spacing between extrusions
- Manifolded to suit required pressure drop

Specifications

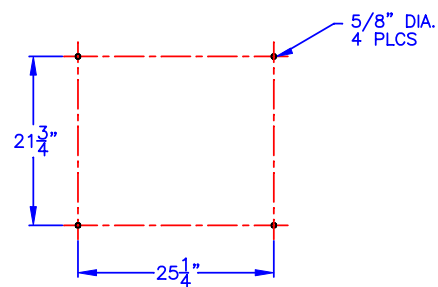
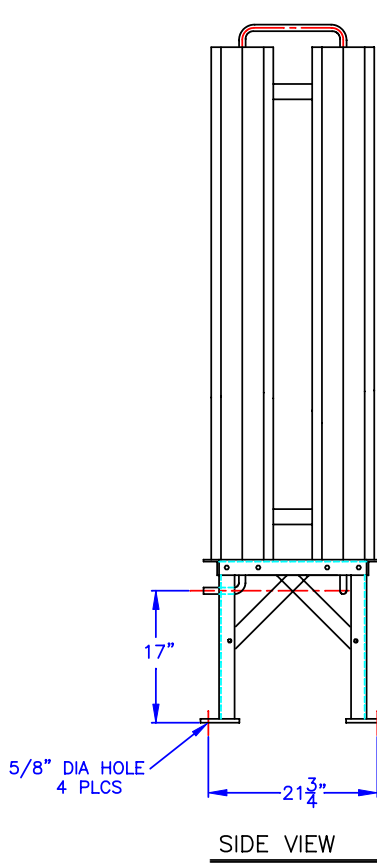
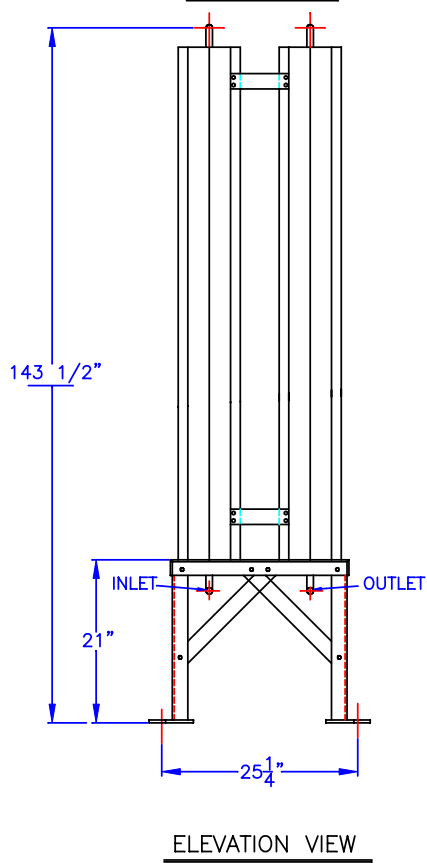
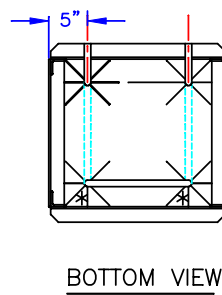
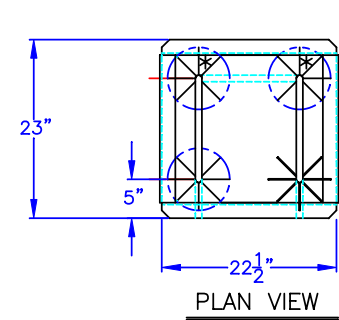
- **External Fins:** 6063 aluminum alloy
- **Fluid Passages:** Alum, 304 or 316 S'STL, Monel, electro-polished 316L tubing
- **Frame Assembly:** Type 6061 Aluminum Alloy
- **Working Temperature:** -425°F to +100°F
- **Working Pressure:** 500 PSIG to 10,000 PSIG
- **Discharge Gas Temperature:** Within 20°F of ambient conditions
- **Standard Units:** 10' extrusion length, 156" overall height



Extra Gap Vaporizer Drawings - A2-EG

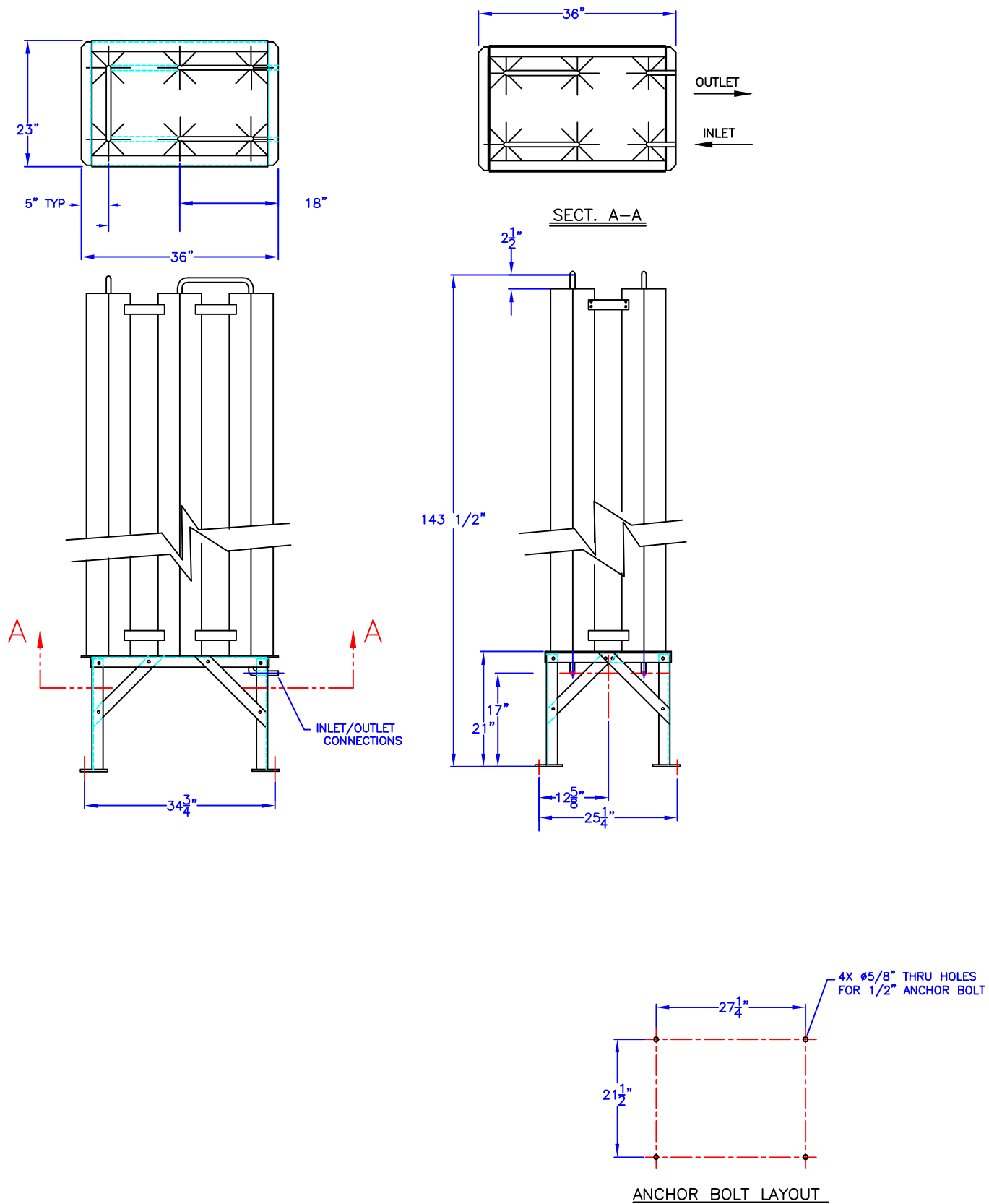


Extra Gap Vaporizer Drawings - A4-EG

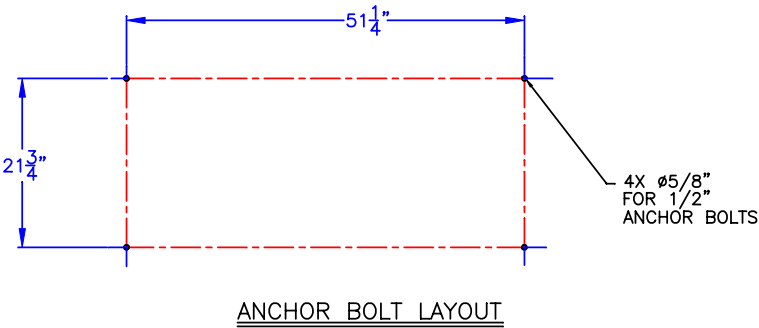
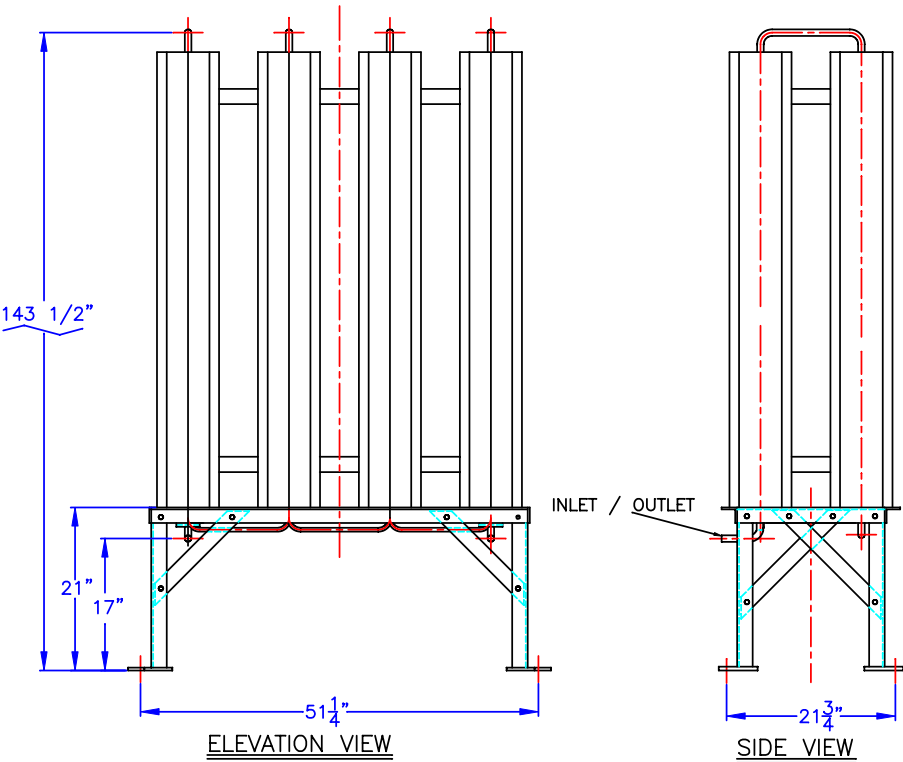
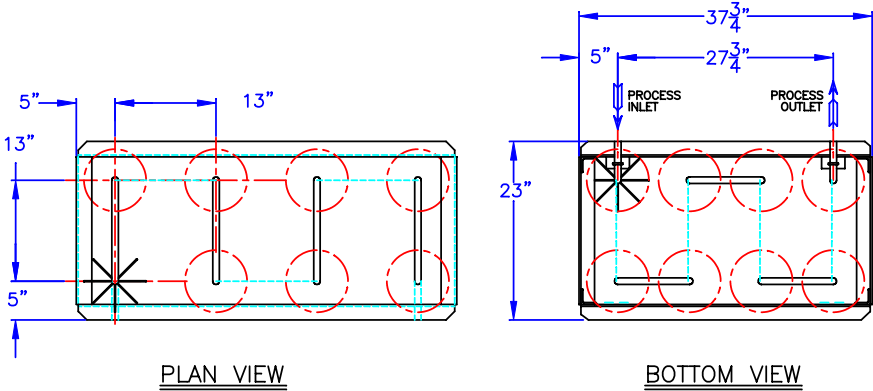


ANCHOR BOLT LAYOUT

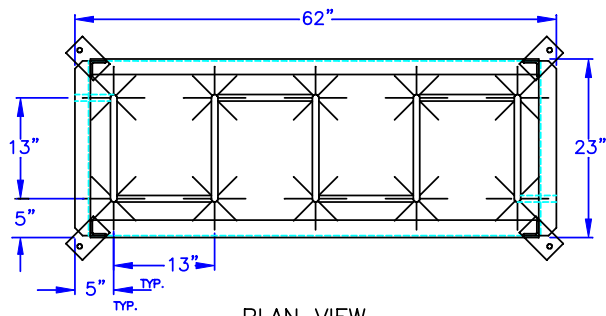
Extra Gap Vaporizer Drawings - A6-EG



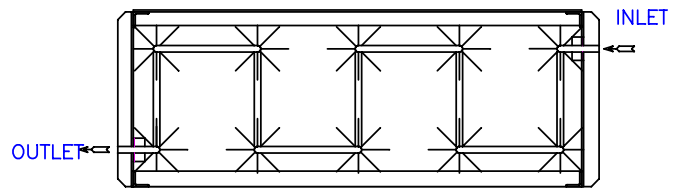
Extra Gap Vaporizer Drawings - A8-EG



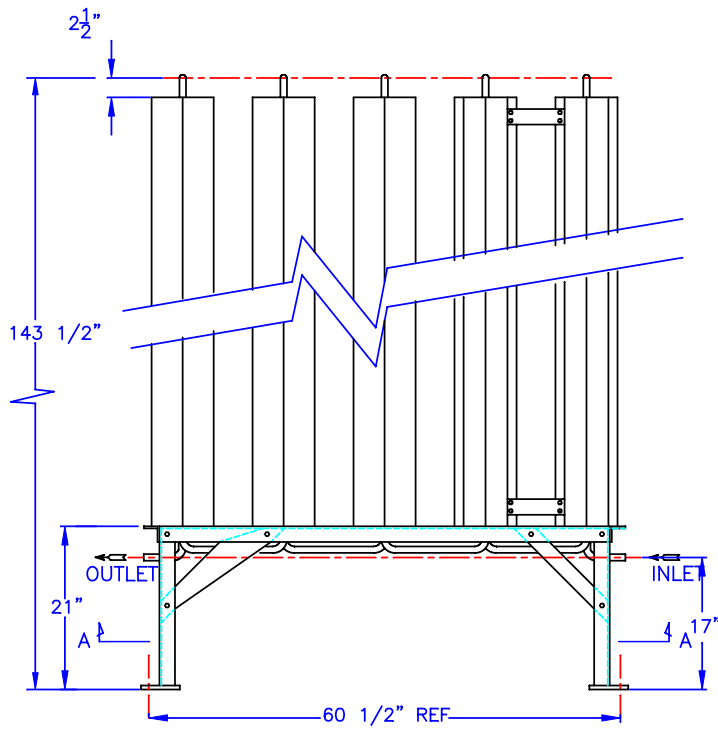
Extra Gap Vaporizer Drawings - A10-EG



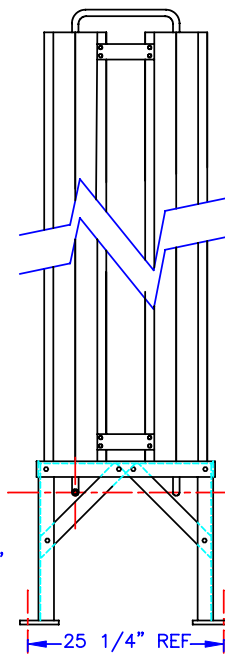
PLAN VIEW



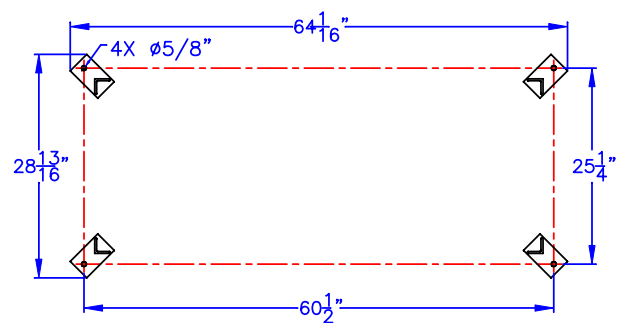
SECTION "A-A"



ELEVATION VIEW

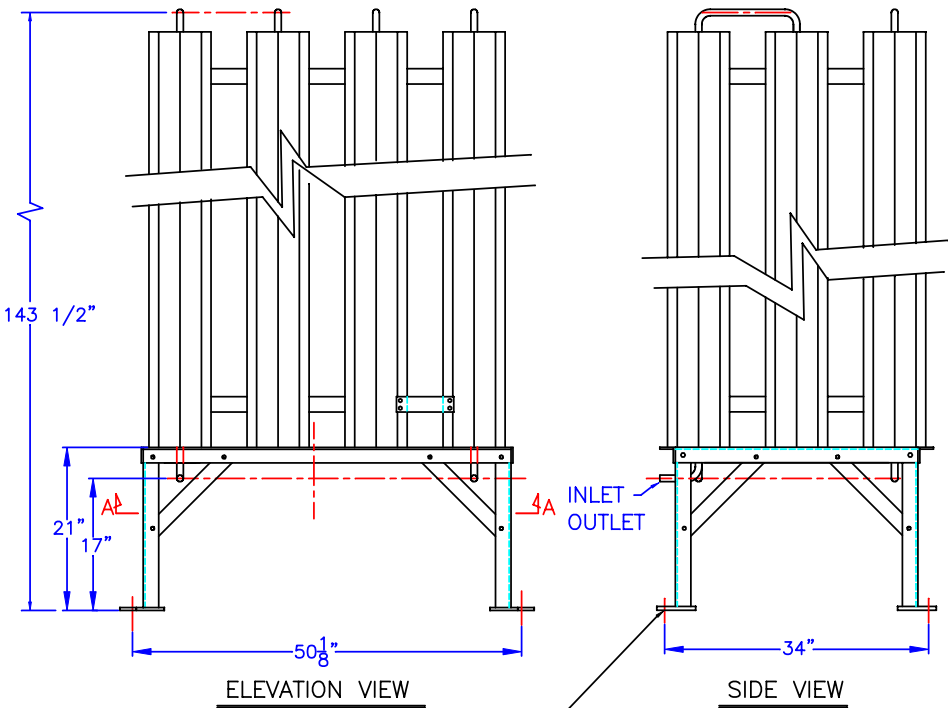
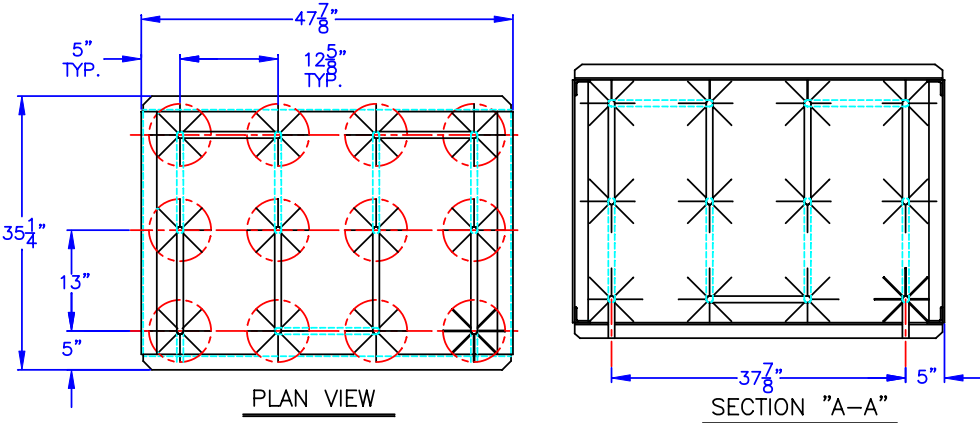


SIDE VIEW

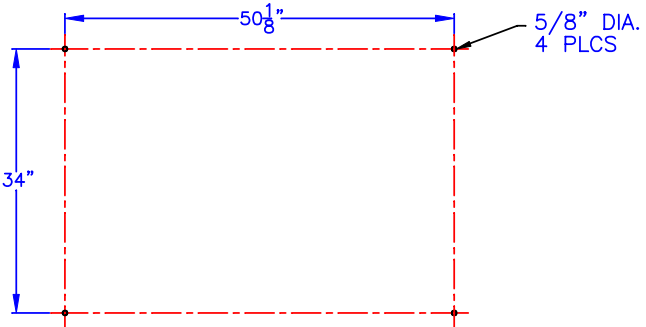


ANCHOR BOLT LAYOUT

Extra Gap Vaporizer Drawings - A12-EG

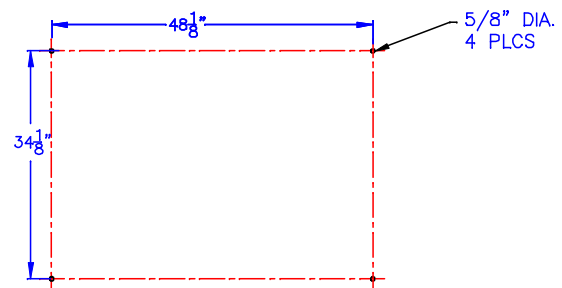
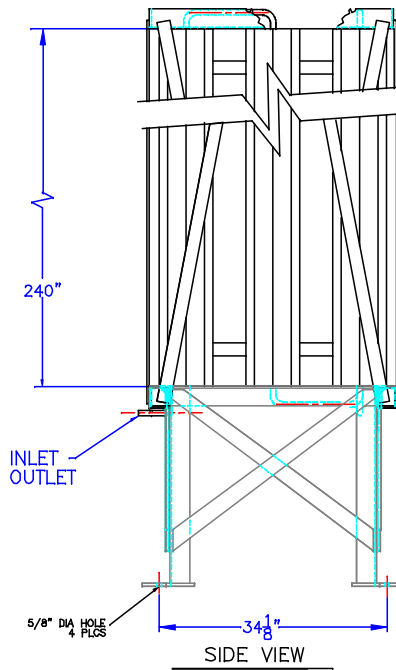
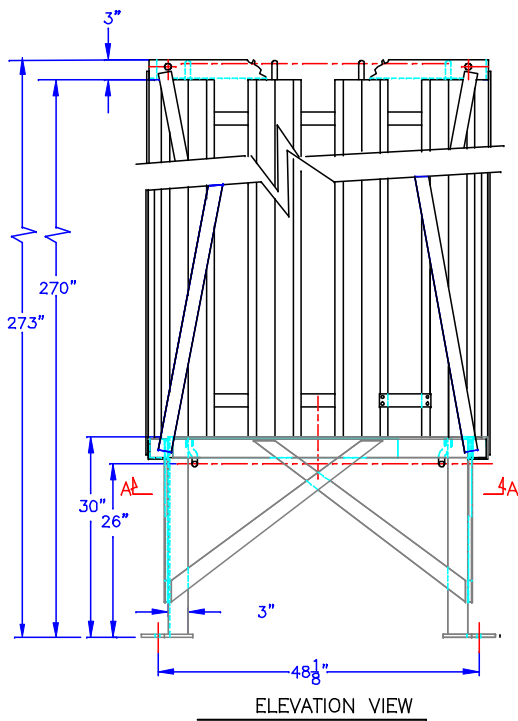
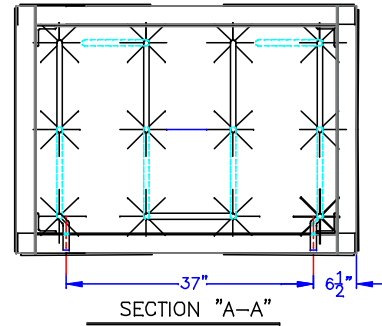
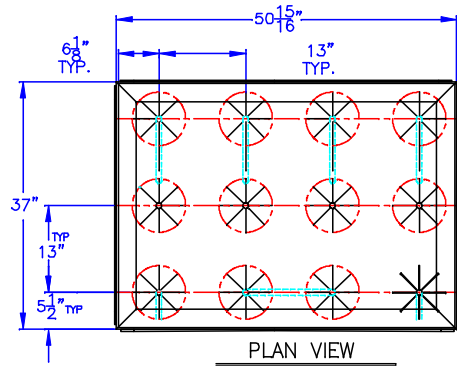


5/8" DIA HOLE
4 PLCS

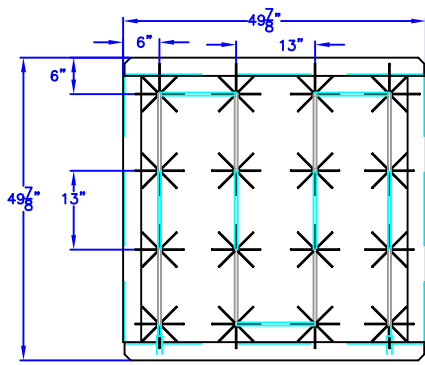


ANCHOR BOLT LAYOUT

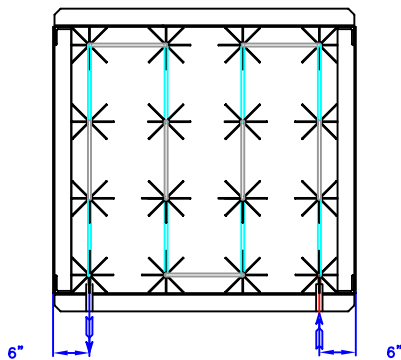
Extra Gap Vaporizer Drawings - A12EG-20



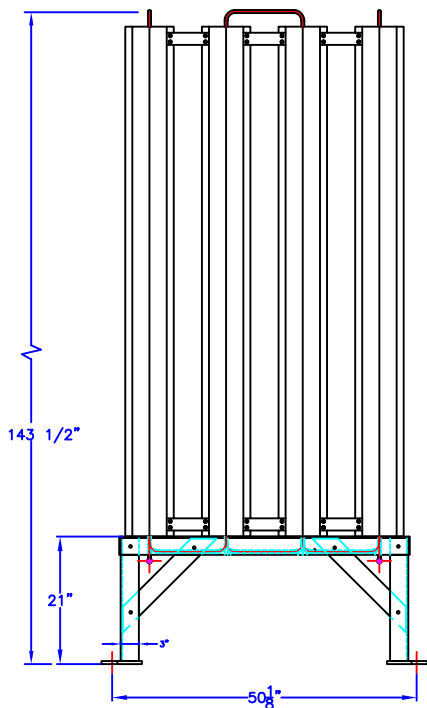
Extra Gap Vaporizer Drawings - A16-EG



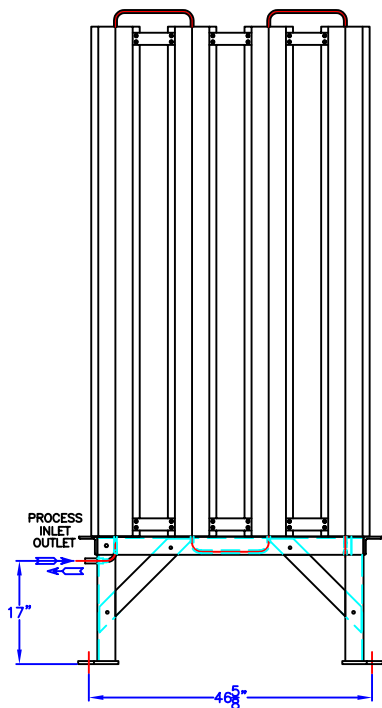
PLAN VIEW



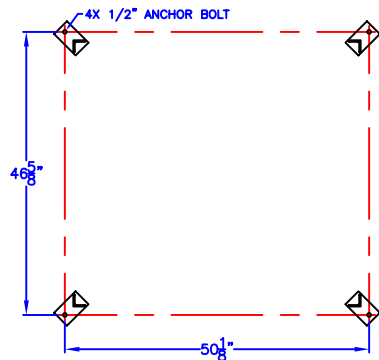
BOTTOM VIEW



ELEVATION VIEW

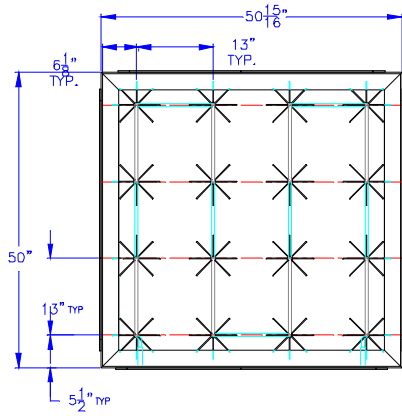


SIDE VIEW

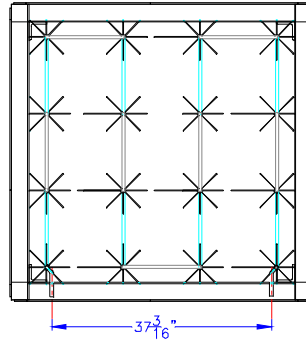


ANCHOR BOLT LAYOUT

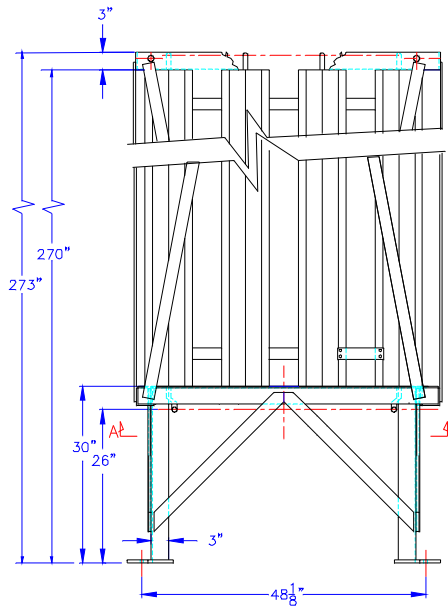
Extra Gap Vaporizer Drawings - A16EG-20



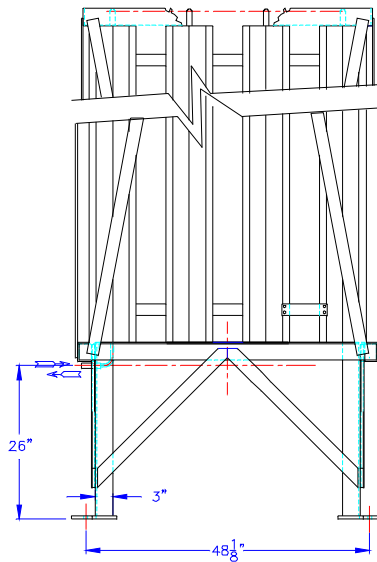
PLAN VIEW



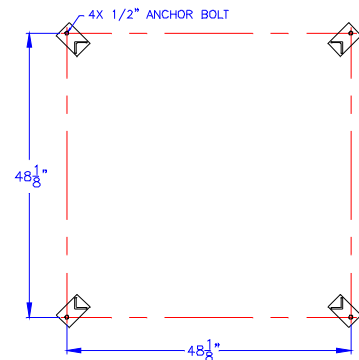
SECTION "A-A"



ELEVATION VIEW

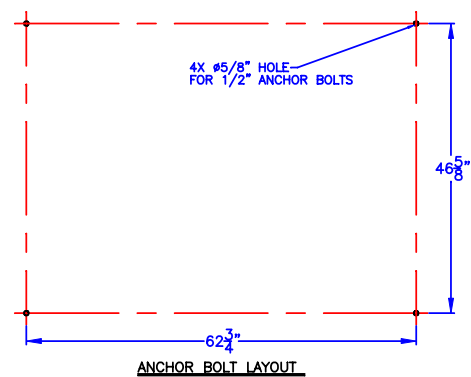
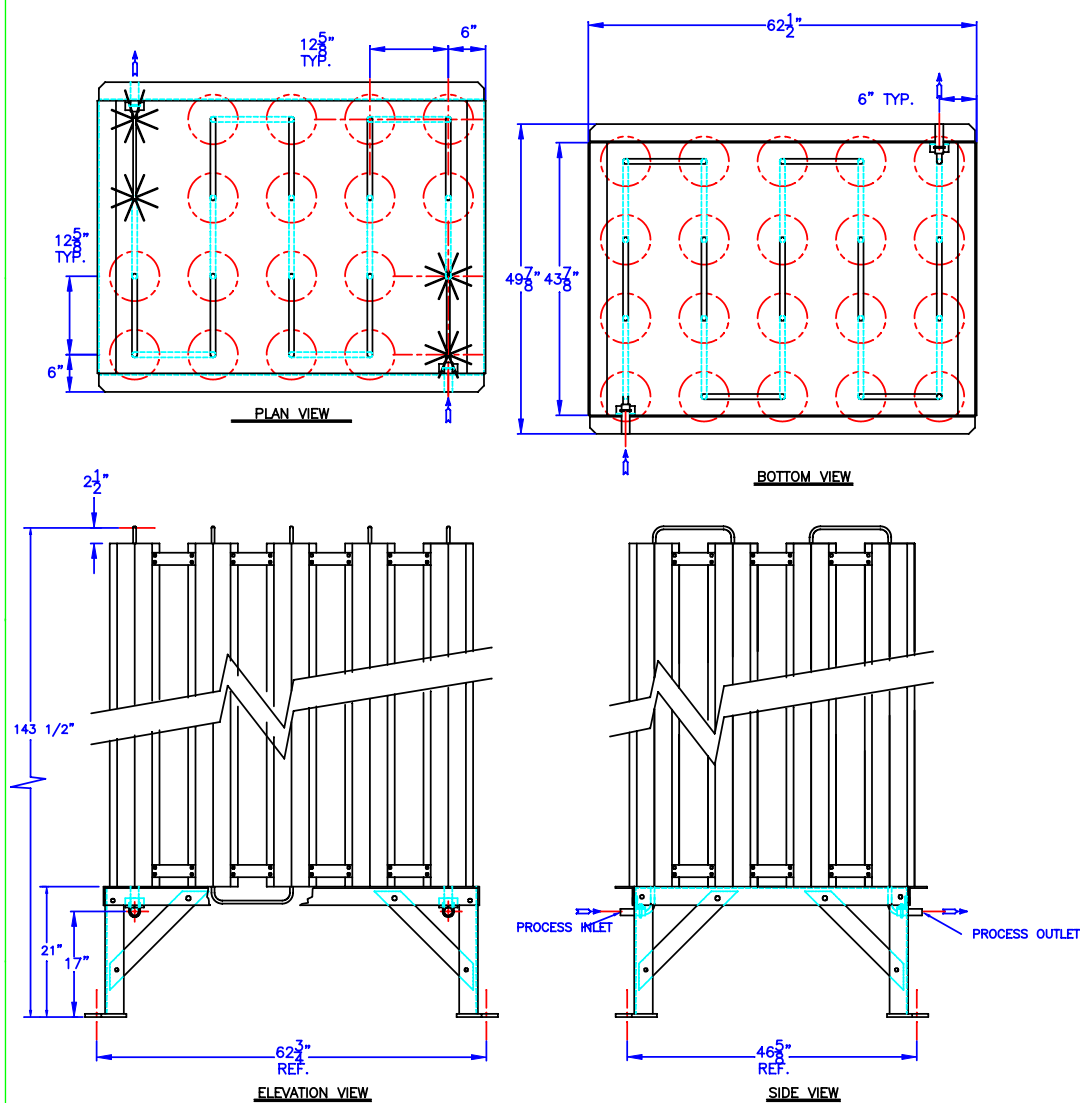


SIDE VIEW

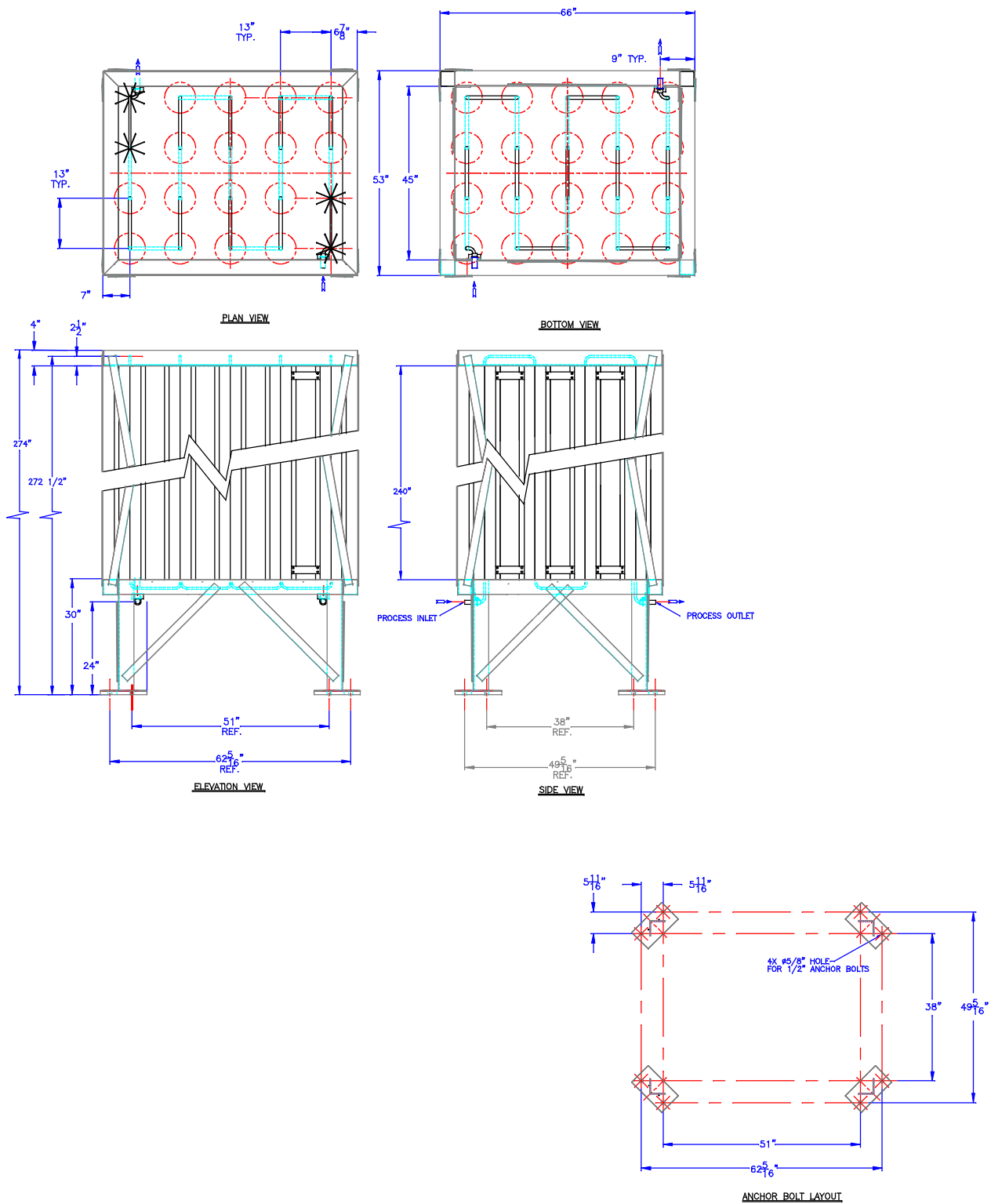


ANCHOR BOLT LAYOUT

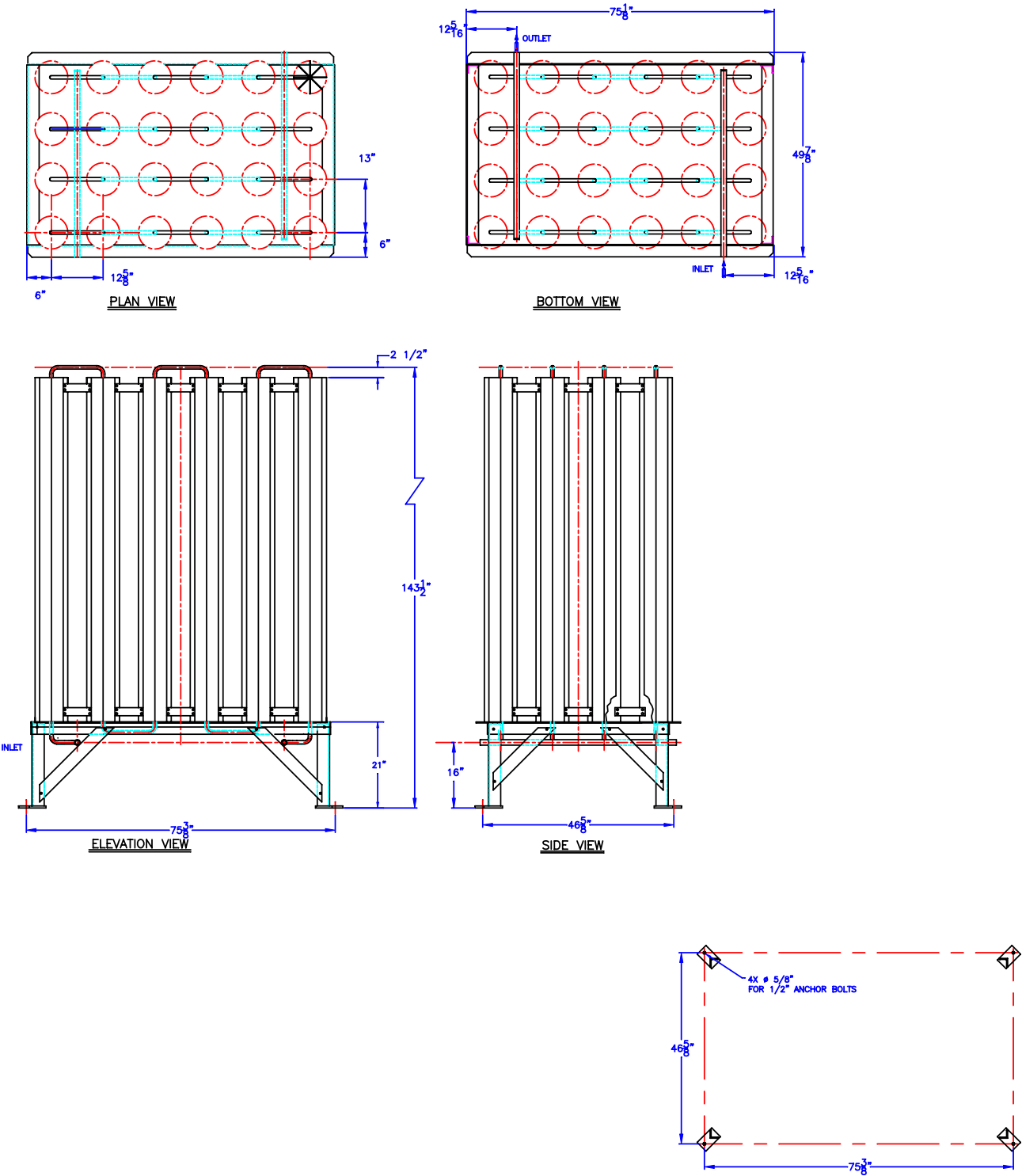
Extra Gap Vaporizer Drawings - A20-EG



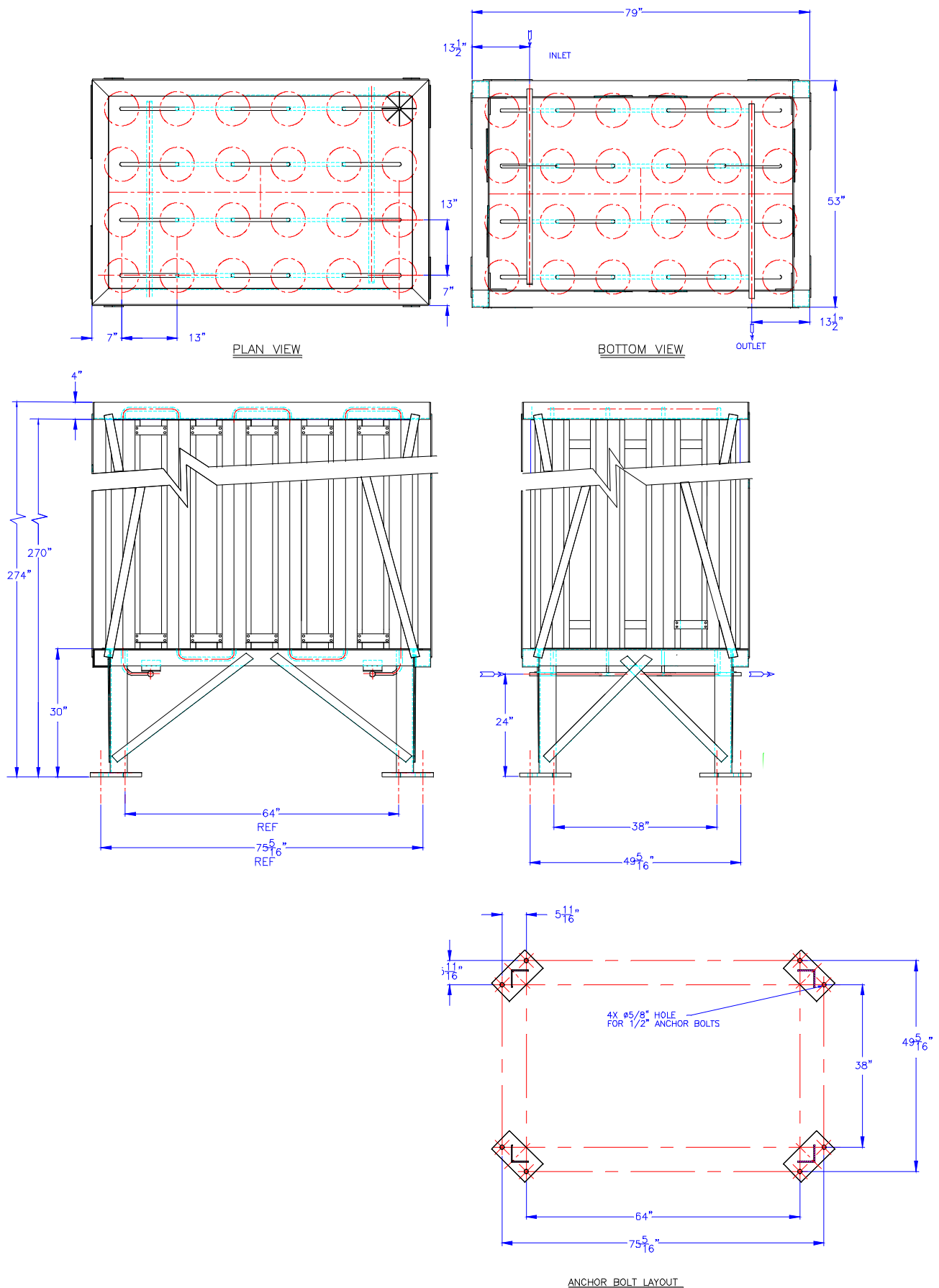
Extra Gap Vaporizer Drawings - A20EG-20



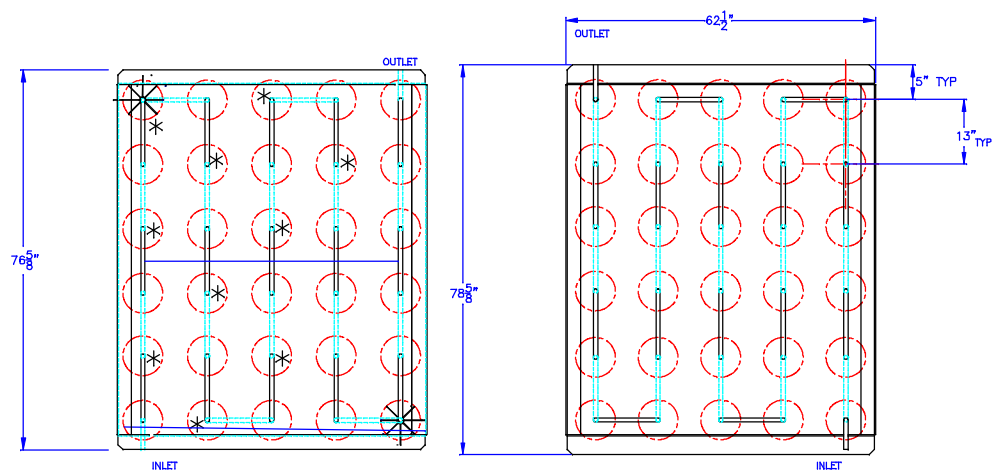
Extra Gap Vaporizer Drawings - A24-EG



Extra Gap Vaporizer Drawings - A24EG-20

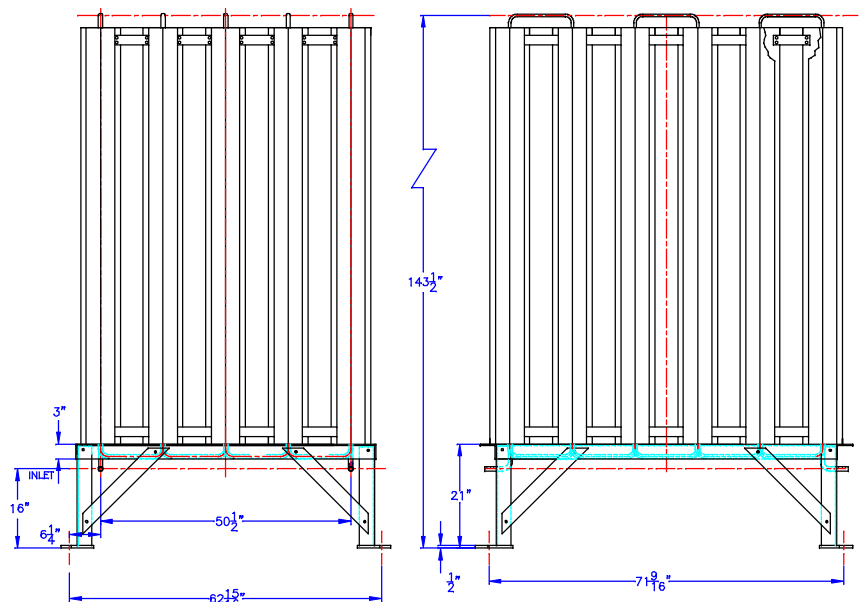


Extra Gap Vaporizer Drawings - A30EG



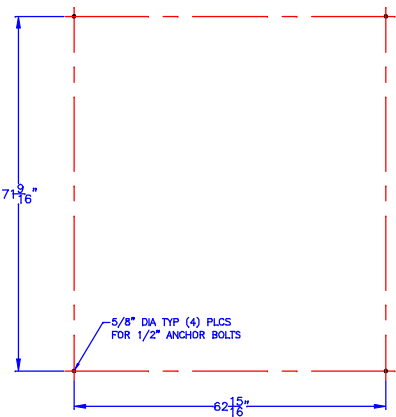
PLAN VIEW

BOTTOM VIEW



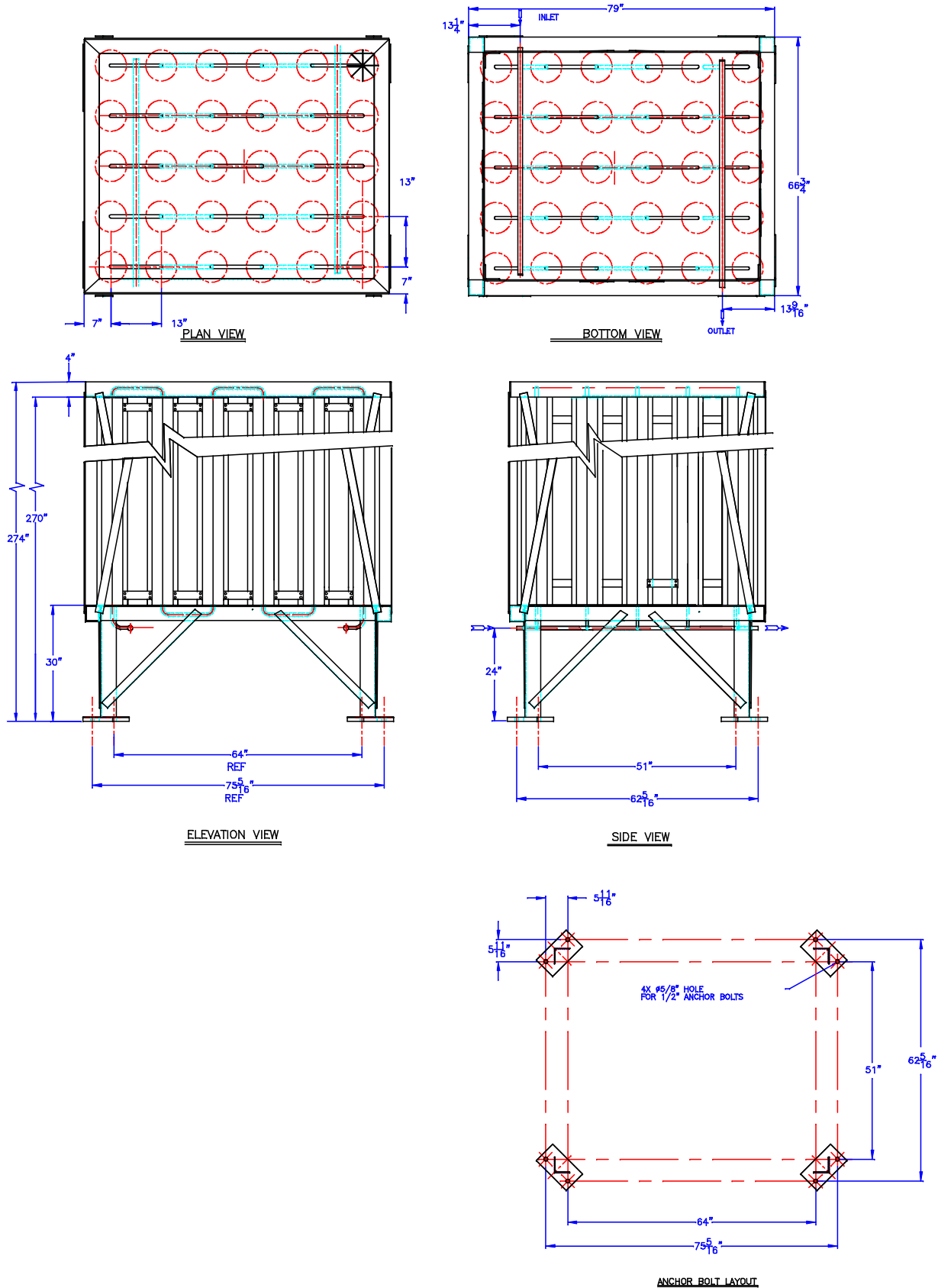
ELEVATION VIEW

SIDE VIEW

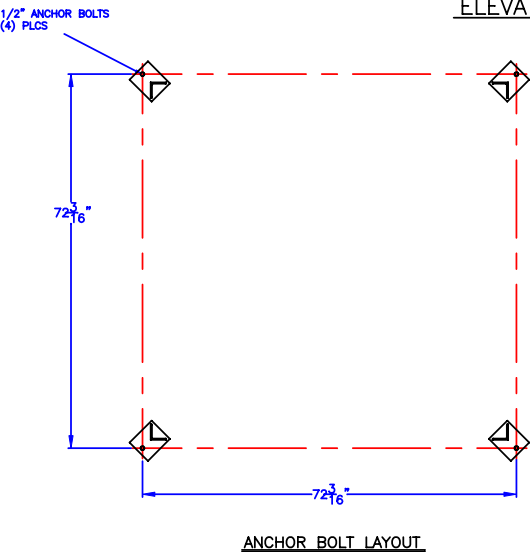
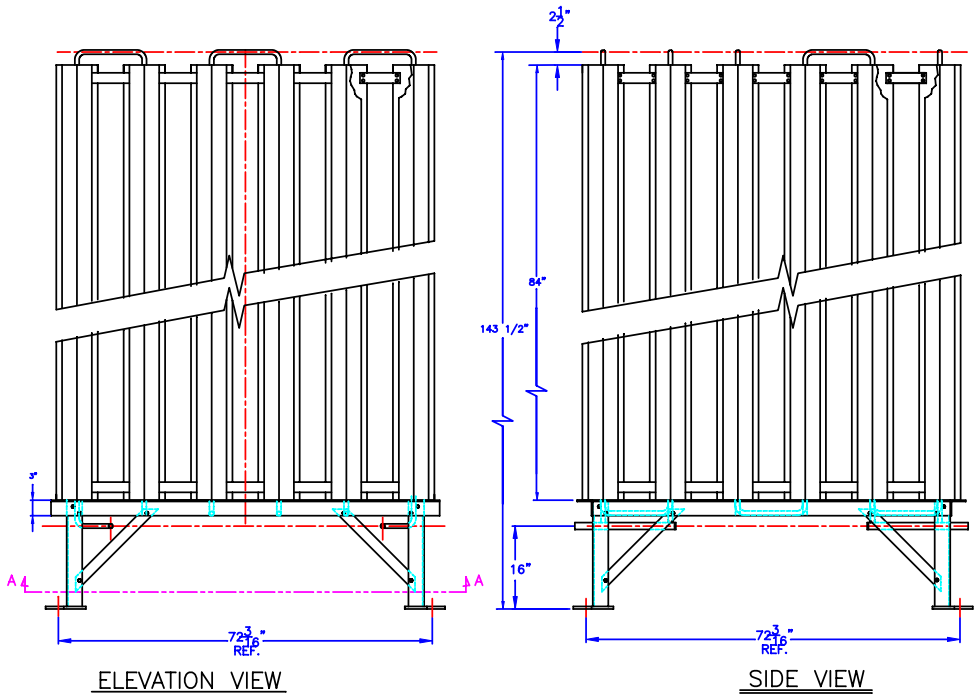
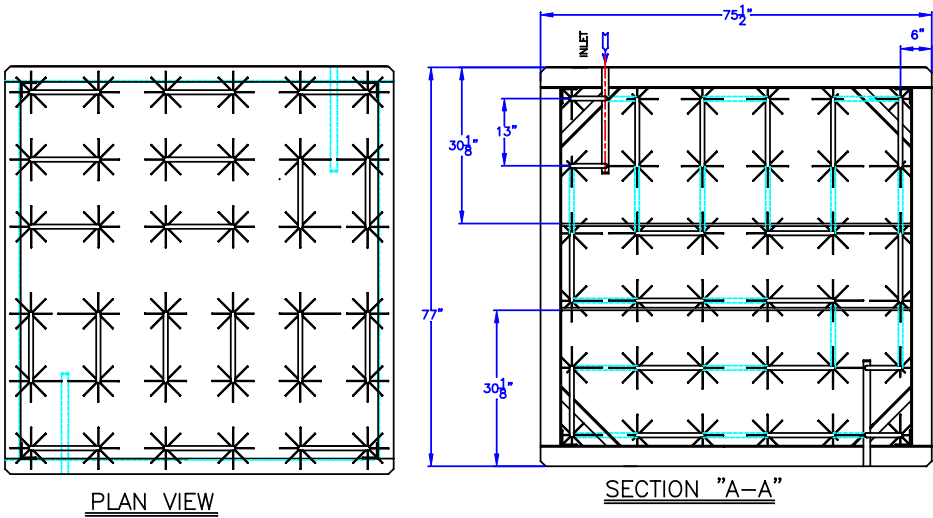


ANCHOR BOLT LAYOUT

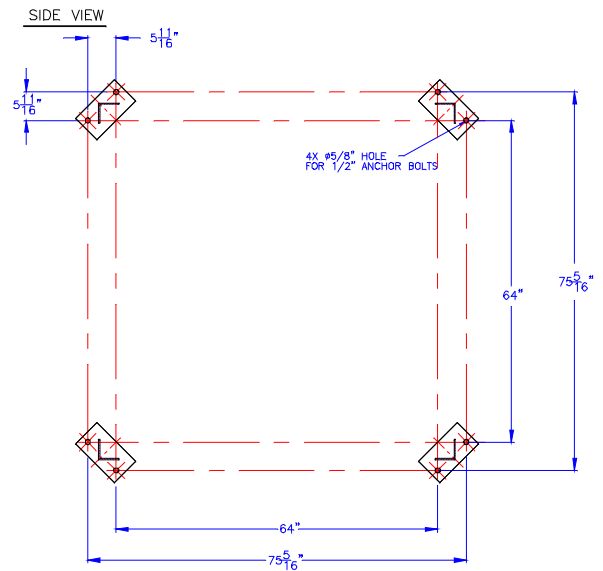
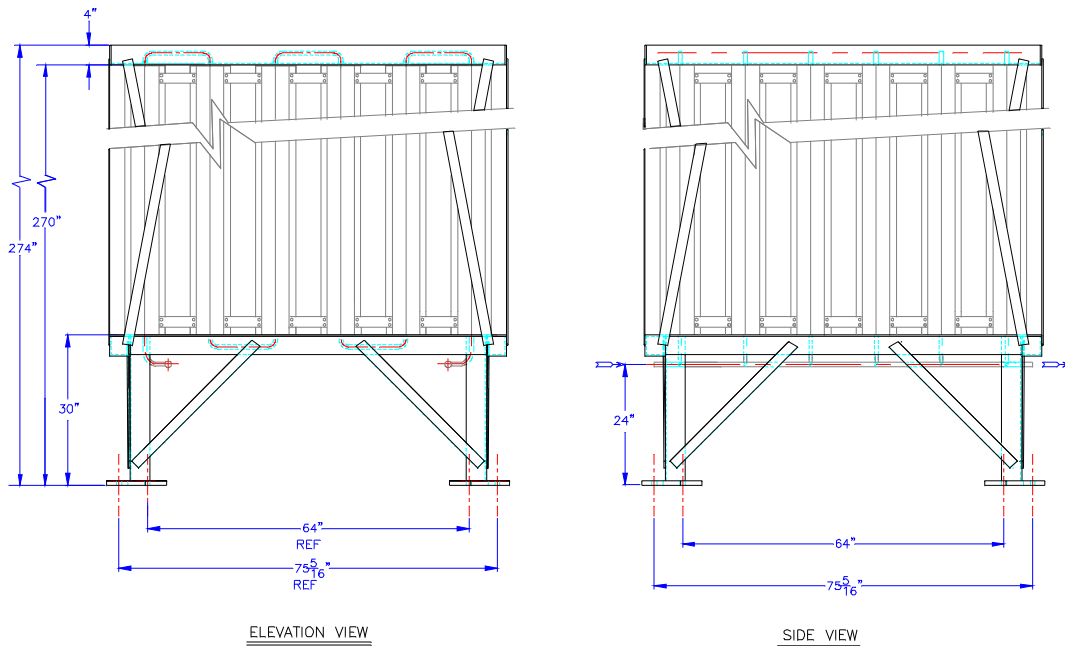
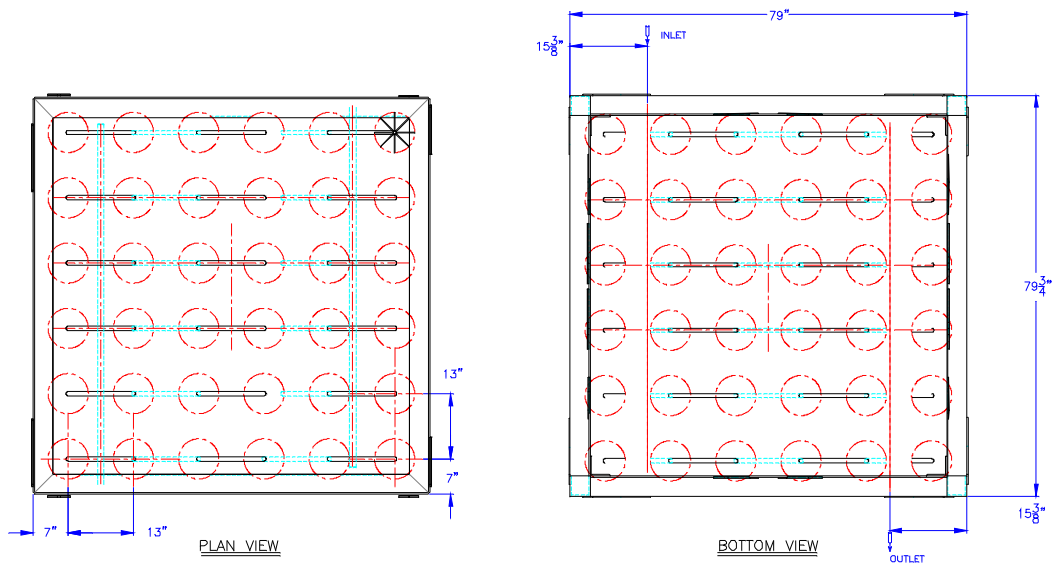
Extra Gap Vaporizer Drawings - A30EG-20



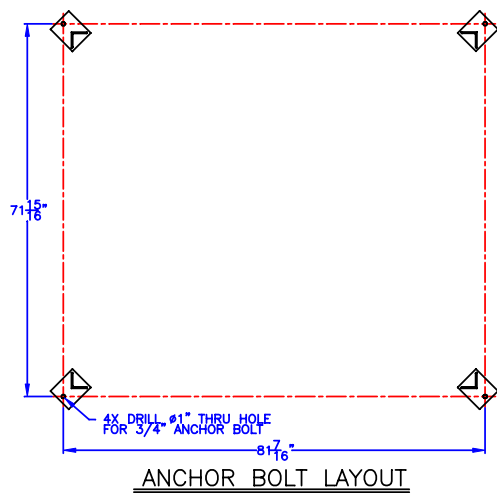
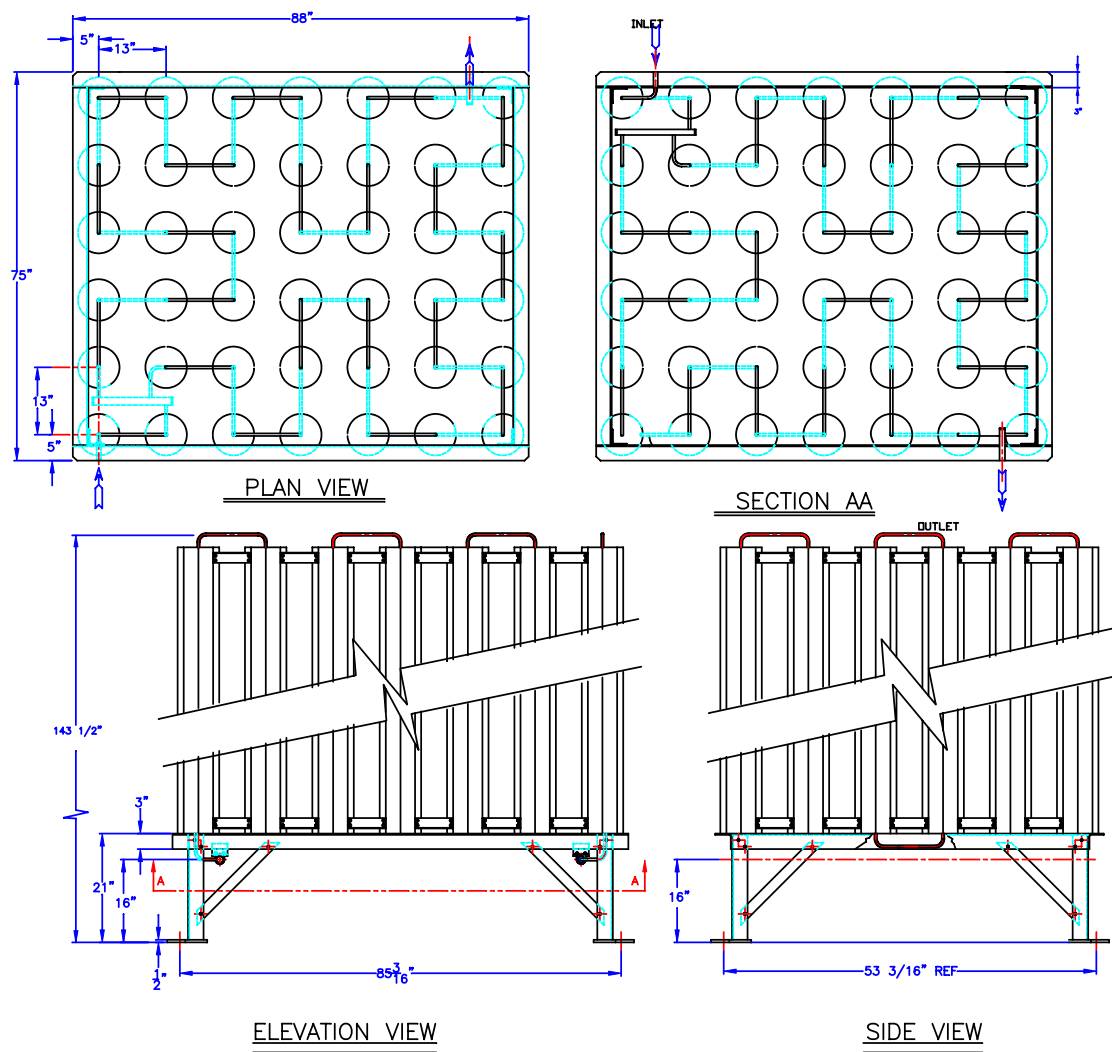
Extra Gap Vaporizer Drawings - A36-EG



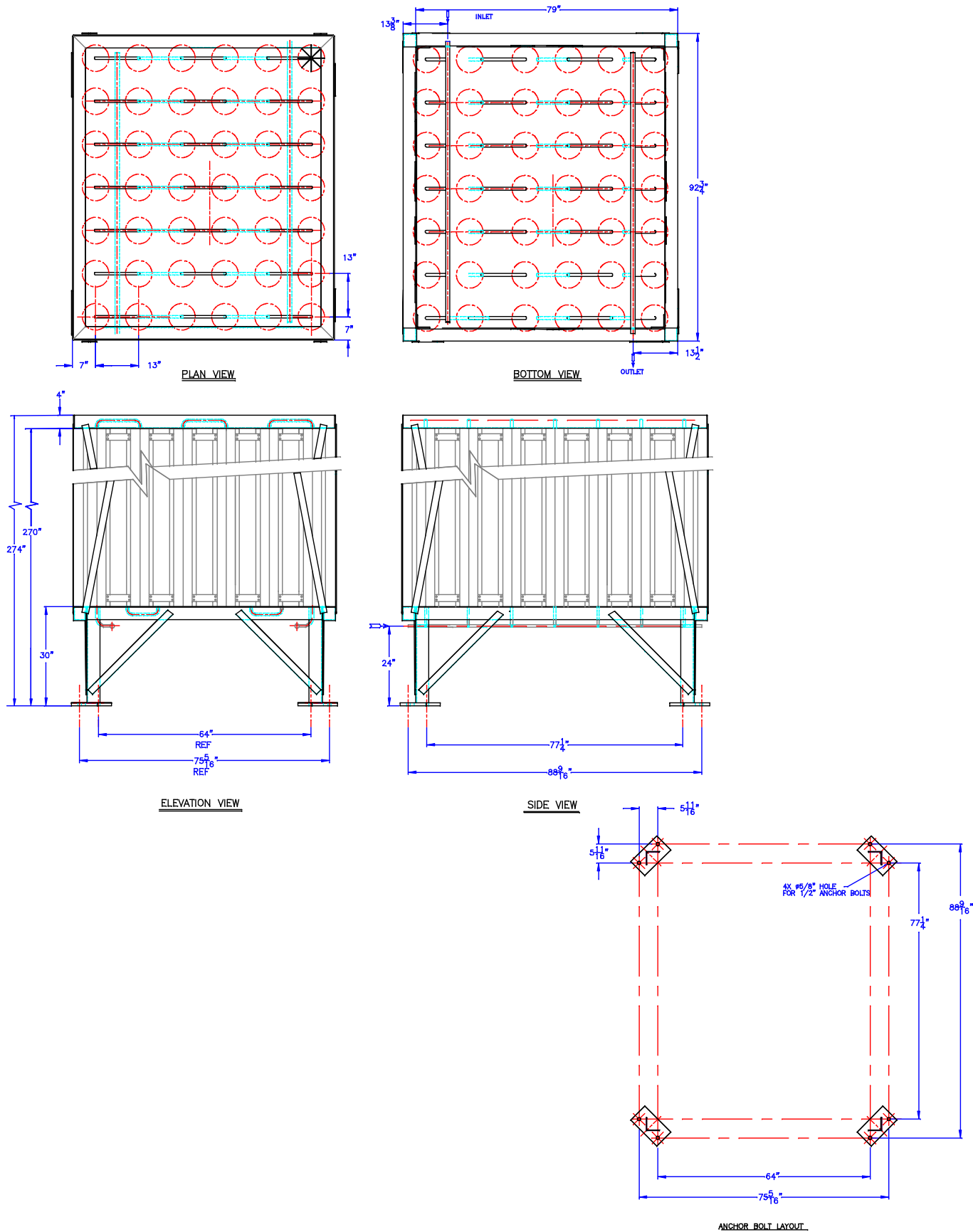
Extra Gap Vaporizer Drawings - A36EG-20



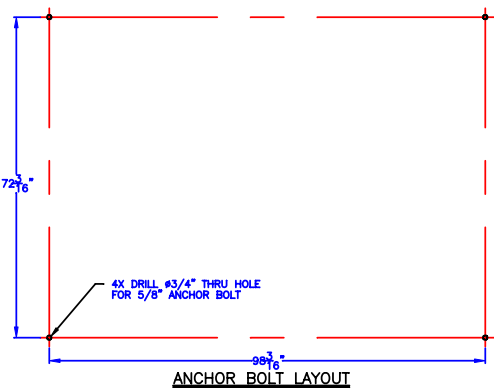
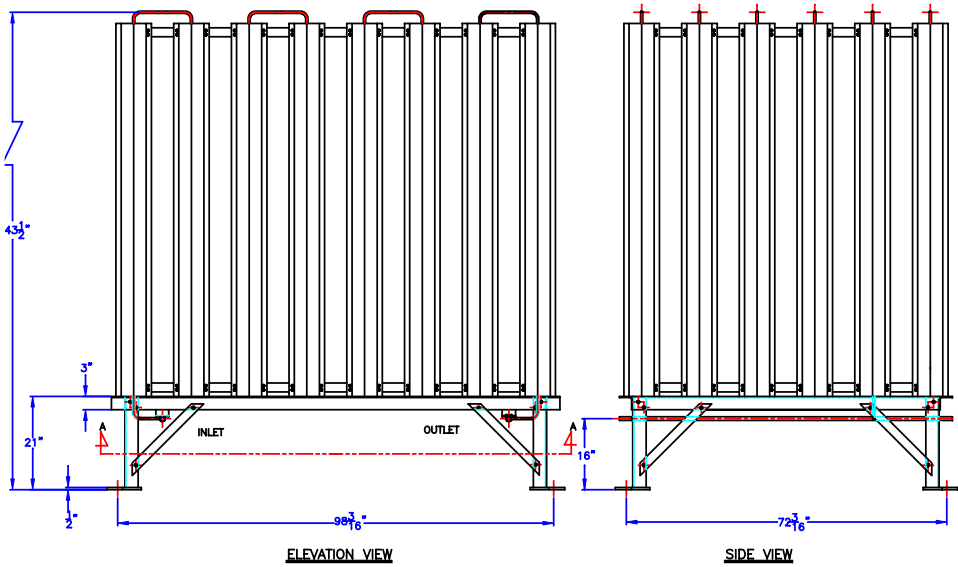
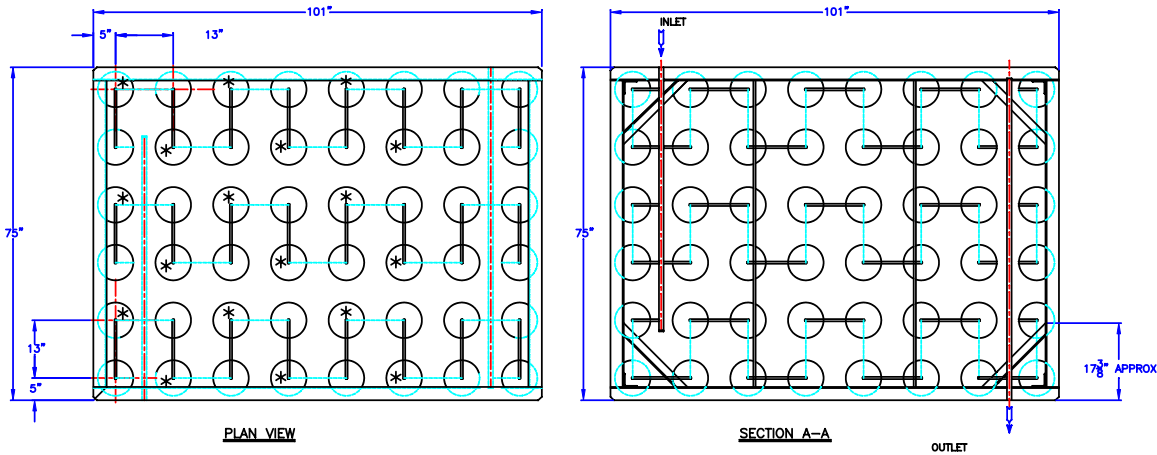
Extra Gap Vaporizer Drawings - A42-EG



Extra Gap Vaporizer Drawings - A42EG-20



Extra Gap Vaporizer Drawings - A48-EG



Standard Gap Vaporizer

Application

Acme's Standard Gap Ambient Vaporizer includes desirable features: aluminum or stainless steel fluid passages; design pressure to 10,000 PSIG; capacities to 50,000 SCFH in single assemblies; manifold designs to suit pressure drop specifications; removable legs; MPT in/out connections.

Standard Features

- For 8-hour performance
- Aluminum, 304 or 316 stainless-steel fluid passages
- Design pressure to 10,000 PSIG
- Capacities to 200,000 SCFH in a single assembly
- Extrusion length ranging from 3.5' to 30'
- Applications include N₂, O₂, CO₂, LNG and other gases (please contact us for your specific application)
- Manifold designs to suit pressure drop specifications
- Removable legs on smaller units
- Inlet and Outlet Connections: NPT (National Pipe Thread), Mueller Flange, Tube or ASME flange

Options

- Monel or electro-polished stainless steel fluid passages
- Tube sizes up to 1" OD
- Special inlet and outlet connections
- Special sizes and configurations – including trailer mount, horizontal flow, short legs, Dewar tank mount
- Forced Draft to increase flow rates and run time
- Dual- and triple-units for hospital oxygen service cycling
- Gas-cooling or gas-heating applications
- Auto-cycling vaporizing systems complete with manifolding, valves and temperature control systems

Specifications

- **External Fins:** 6063 aluminum alloy
- **Fluid Passages:** 6063 aluminum, 304 / 316 stainless steel, Monel and electro-polished 316L available
- **Frame Assembly:** Type 6061 aluminum alloy
- **Working Temperature:** -425°F to +100°F
- **Working Pressure:** 500 PSIG to 10,000 PSIG
- **Discharge Gas Temperature:** Within 20°F of ambient conditions (standard)
- **Standard Units:** 7' extrusion length, 108" overall height
- **Optional Units:** Up to 30' extrusion length, 384" overall height

Standard Gap Aluminum 7' Ambient Vaporizer - 9.25" Gap - 111" Tall					
Model No	N ₂ , O ₂ , Ar	CO ₂		LNG	Surface Area
	SCFH 8hr	lbs/hour 8hr	SCFH 8hr	SCFH 8hr	
A2A-7	1,000	50	440	650	70
A4A-7	2,000	100	870	1,300	140
A6A-7	3,000	150	1,310	1,950	210
A8A-7	4,000	200	1,750	2,600	280
A10A-7	5,000	250	2,180	3,250	350
A12A-7	6,000	300	2,620	3,900	420
A16A-7	8,000	400	3,490	5,200	560
A20A-7	10,000	500	4,370	6,500	700
A24A-7	12,000	600	52,440	7,800	840
A30A-7	15,000	750	6,550	9,750	1,050
A36A-7	18,000	900	7,870	11,700	1,260
A42A-7	21,000	1,050	9,180	13,650	1,470
A48A-7	24,000	1,200	10,490	15,600	1,680
A56A-7	28,000	1,400	12,240	18,200	1,960
A64A-7	32,000	1,600	13,990	20,800	2,240
A72A-7	36,000	1,800	15,730	23,400	2,520
A80A-7	39,900	2,000	17,400	26,300	2,800
A90A-7	45,000	2,250	19,670	29,250	3,150
A100A-7	50,000	2,500	21,850	32,500	3,500

Standard Gap Aluminum 10' Ambient Vaporizer - 9.25" Gap - 147" Tall					
Model No	N ₂ , O ₂ , Ar	CO ₂		LNG	Surface Area
	SCFH 8hr	lbs/hour 8hr	SCFH 8hr	SCFH 8hr	
A2A-10	1,420	70	610	930	100
A4A-10	2,850	140	1,220	1,860	200
A6A-10	4,280	210	1,830	2,790	300
A8A-10	5,710	280	2,450	3,720	400
A10A-10	7,140	350	3,060	4,650	500
A12A-10	8,560	420	3,670	5,580	600
A14A-10	10,000	490	4,280	6,510	700
A16A-10	11,420	560	4,900	7,440	800
A20A-10	14,280	700	6,120	9,300	1,000
A24A-10	17,130	840	7,340	11,160	1,200
A30A-10	21,420	1,050	9,180	13,950	1,500
A36A-10	25,700	1,260	11,010	16,740	1,800
A42A-10	29,980	1,470	12,850	19,530	2,100
A48A-10	34,270	1,680	14,690	22,320	2,400
A56A-10	39,980	1,960	17,130	26,040	2,800
A64A-10	45,690	2,240	19,580	29,760	3,200
A72A-10	51,400	2,520	22,030	33,480	3,600
A80A-10	57,120	2,800	24,480	37,665	4,000
A90A-10	64,260	3,150	27,530	41,850	4,500
A100A-10	71,400	3,500	30,590	46,500	5,000

Standard Gap Vaporizer

Standard Gap Aluminum 20' Ambient Vaporizer - 9.25" Gap - 279" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8hr	SCFH 8 hr	SCFH 8 hr	
A16A-20	22,840	1,120	9,790	14,880	1,600
A20A-20	28,560	1,400	12,240	18,600	2,000
A24A-20	34,270	1,680	14,680	22,320	2,400
A30A-20	42,840	2,100	18,360	27,900	3,000
A36A-20	51,400	2,520	22,030	33,480	3,600
A42A-20	59,970	2,940	25,700	39,060	4,200
A48A-20	68,540	3,360	29,370	44,640	4,800
A56A-20	79,960	3,920	34,260	52,080	5,600
A64A-20	91,390	4,480	39,160	59,520	6,400
A72A-20	102,810	5,040	44,050	66,960	7,200
A80A-20	114,240	5,600	48,950	75,330	8,000
A90A-20	128,520	6,300	55,070	83,700	9,000
A100A-20	142,800	7,000	61,190	93,000	10,000
Standard Gap Aluminum 30' Ambient Vaporizer - 9.25" Gap - 384" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8hr	SCFH 8 hr	SCFH 8 hr	
A36A-30	77,110	3,780	33,040	50,220	5,400
A42A-30	89,960	4,410	38,550	58,590	6,300
A48A-30	102,810	5,040	44,050	66,960	7,200
A56A-30	119,950	5,880	51,390	78,120	8,400
A64A-30	137,080	6,720	58,740	89,280	9,600
A72A-30	154,220	7,560	66,080	100,440	10,800
A80A-30	171,360	8,400	73,420	112,995	12,000
A90A-30	192,780	9,450	82,600	125,550	13,500
A100A-30	214,200	10,500	91,780	139,500	15,000

Standard Gap Stainless Steel 3.5' Ambient Vaporizer - 9.25" Gap - 66" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8hr	SCFH 8 hr	SCFH 8 hr	
A2SS-3.5	500	25	220	325	35
A4SS-3.5	1,000	50	440	650	70
A6SS-3.5	1,500	75	660	975	105
A8SS-3.5	2,000	100	870	1,300	140
A10SS-3.5	2,500	125	1,090	1,625	175
A12SS-3.5	3,000	150	1,310	1,950	210
A16SS-3.5	4,000	200	1,750	2,600	280

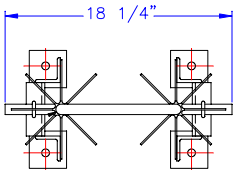
Standard Gap Stainless-Steel 7' Ambient Vaporizer - 9.25" Gap - 111" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8hr	SCFH 8 hr	SCFH 8 hr	
A2SS-7	1,000	50	440	650	70
A4SS-7	2,000	100	870	1,300	140
A6SS-7	3,000	150	1,310	1,950	210
A8SS-7	4,000	200	1,750	2,600	280
A10SS-7	5,000	250	2,190	3,250	350
A12SS-7	6,000	300	2,620	3,900	420
A16SS-7	8,000	400	3,490	5,200	560
A20SS-7	10,000	500	4,370	6,500	700
A24SS-7	12,000	600	5,240	7,800	840
A30SS-7	15,000	750	6,560	9,750	1,050
A36SS-7	18,000	900	7,870	11,700	1,260
A42SS-7	21,000	1,050	9,180	13,650	1,470
A48SS-7	24,000	1,200	10,490	15,600	1,680
A56SS-7	28,000	1,400	12,240	18,200	1,960
A64SS-7	32,000	1,600	13,990	20,800	2,240
A72SS-7	36,000	1,800	15,730	23,400	2,520
A80SS-7	39,900	2,000	17,400	26,300	2,800
A90SS-7	45,000	2,250	19,670	29,250	3,150
A100SS-7	50,000	2,500	21,850	32,500	3,500

Standard Gap Aluminum 3.5' Ambient Vaporizer - 9.25" Gap - 66" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8 hr	SCFH 8 hr	SCFH 8 hr	
A2A-3.5-tm	500	25	220	325	35
A4A-3.5-tm	1,000	50	440	650	70
A2A-3.5	500	25	220	325	35
A4A-3.5	1,000	50	440	650	70
A6A-3.5	1,500	75	650	975	105
A8A-3.5	2,000	100	870	1,300	140
A10A-3.5	2,500	125	1,090	1,625	175
A12A-3.5	3,000	150	1,310	1,950	210
A16A-3.5	4,000	200	1,750	2,600	280
Standard Gap Aluminum 5' Ambient Vaporizer - 9.25" Gap - 84" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8 hr	SCFH 8 hr	SCFH 8 hr	
A2A-5-tm	700	35	305	465	50
A4A-5-tm	1,400	70	610	930	100
A2A-5	700	35	305	465	50
A4A-5	1,400	70	610	930	100
A6A-5	2,100	105	920	1,395	150
A8A-5	2,800	140	1,220	1,860	200
A10A-5	3,500	175	1,530	2,325	250
A12A-5	4,200	210	1,830	2,790	300
A16A-5	5,700	280	2,450	3,720	400

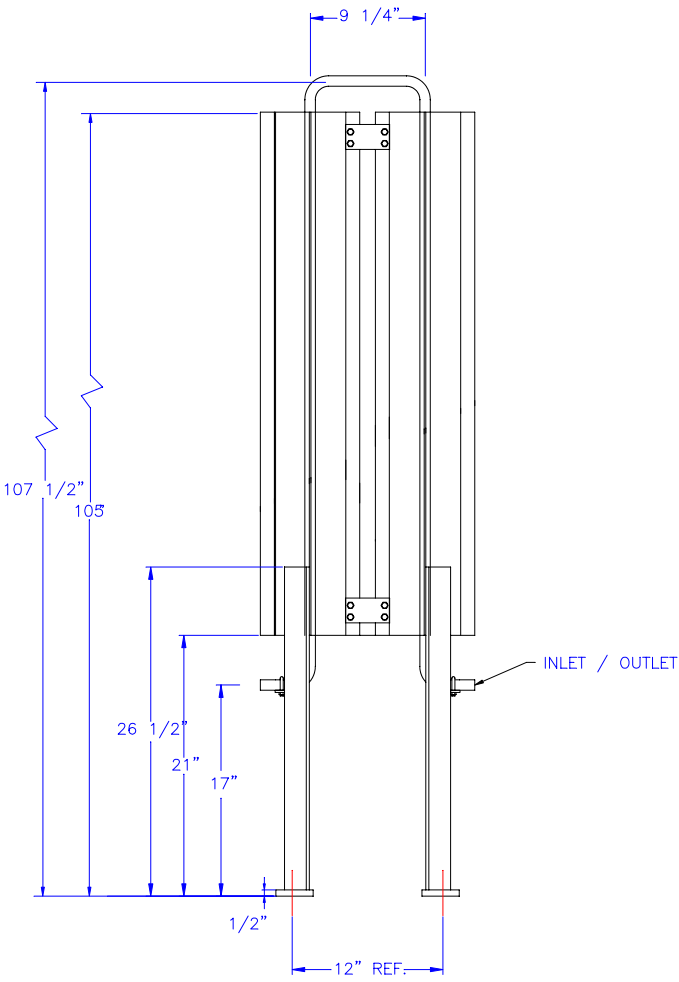
Standard Gap Stainless-Steel 18.6' Ambient Vaporizer - 9.25" Gap - 270" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8 hr	SCFH 8 hr	SCFH 8 hr	
A16SS-18.6	21,310	1,045	9,100	13,880	1,488
A20SS-18.6	26,640	1,305	11,380	17,350	1,860
A24SS-18.6	31,960	1,560	13,660	20,820	2,232
A30SS-18.6	39,960	1,955	17,070	26,025	2,790
A36SS-18.6	47,950	2,345	20,480	31,230	3,348
A42SS-18.6	55,940	2,735	23,900	36,435	3,906
A48SS-18.6	63,930	3,125	27,310	41,640	4,464
A56SS-18.6	74,590	3,645	31,870	48,580	5,208
A64SS-18.6	85,240	4,165	36,420	55,520	5,952
A72SS-18.6	95,900	4,690	40,970	62,460	6,696
A80SS-18.6	106,240	5,265	46,010	70,270	7,533
A90SS-18.6	119,880	5,860	51,210	78,070	8,370
A100SS-18.6	133,200	6,510	56,900	86,750	9,300

Standard Gap Stainless-Steel 9.3' Ambient Vaporizer - 9.25" Gap - 138" Tall					
Model No	N2, O2, Ar	CO2		LNG	Surface Area
	SCFH 8 hr	lbs/hour 8hr	SCFH 8 hr	SCFH 8 hr	
A2SS-9.3	1,330	65	570	865	93
A4SS-9.3	2,660	130	810	1,735	186
A6SS-9.3	3,990	195	1,710	2,600	279
A8SS-9.3	5,320	260	2,280	3,470	372
A10SS-9.3	6,660	325	2,850	4,340	465
A12SS-9.3	7,990	390	3,410	5,205	558
A14SS-9.3	9,300	490	4,280	6,070	651
A16SS-9.3	10,650	520	4,550	6,940	744
A20SS-9.3	13,320	650	5,690	8,675	930
A24SS-9.3	15,980	780	6,830	10,410	1,116
A30SS-9.3	19,980	980	8,540	13,010	1,395
A36SS-9.3	23,970	1,170	10,240	15,615	1,674
A42SS-9.3	27,970	1,370	11,950	18,220	1,953
A48SS-9.3	31,960	1,560	13,660	20,820	2,232
A56SS-9.3	37,290	1,820	15,930	24,290	2,604
A64SS-9.3	42,620	2,080	18,210	27,760	2,976
A72SS-9.3	47,950	2,345	20,490	31,230	3,348
A80SS-9.3	53,120	2,630	23,010	35,130	3,720
A90SS-9.3	59,940	2,930	25,610	39,040	4,185
A100SS-9.3	66,600	3,255	28,450	43,370	4,650

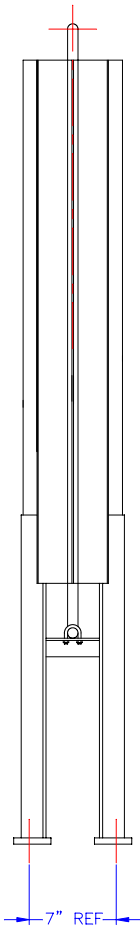
Standard Gap Vaporizer Drawings - A2



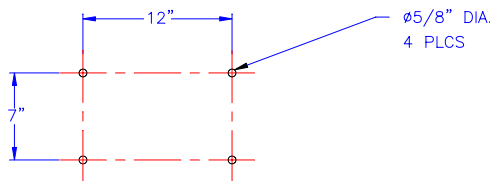
PLAN VIEW



ELEVATION VIEW

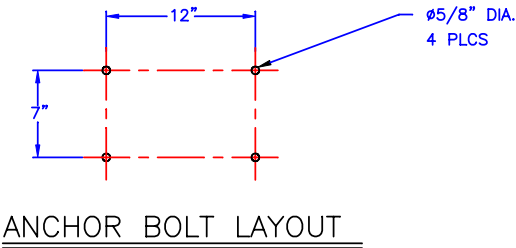
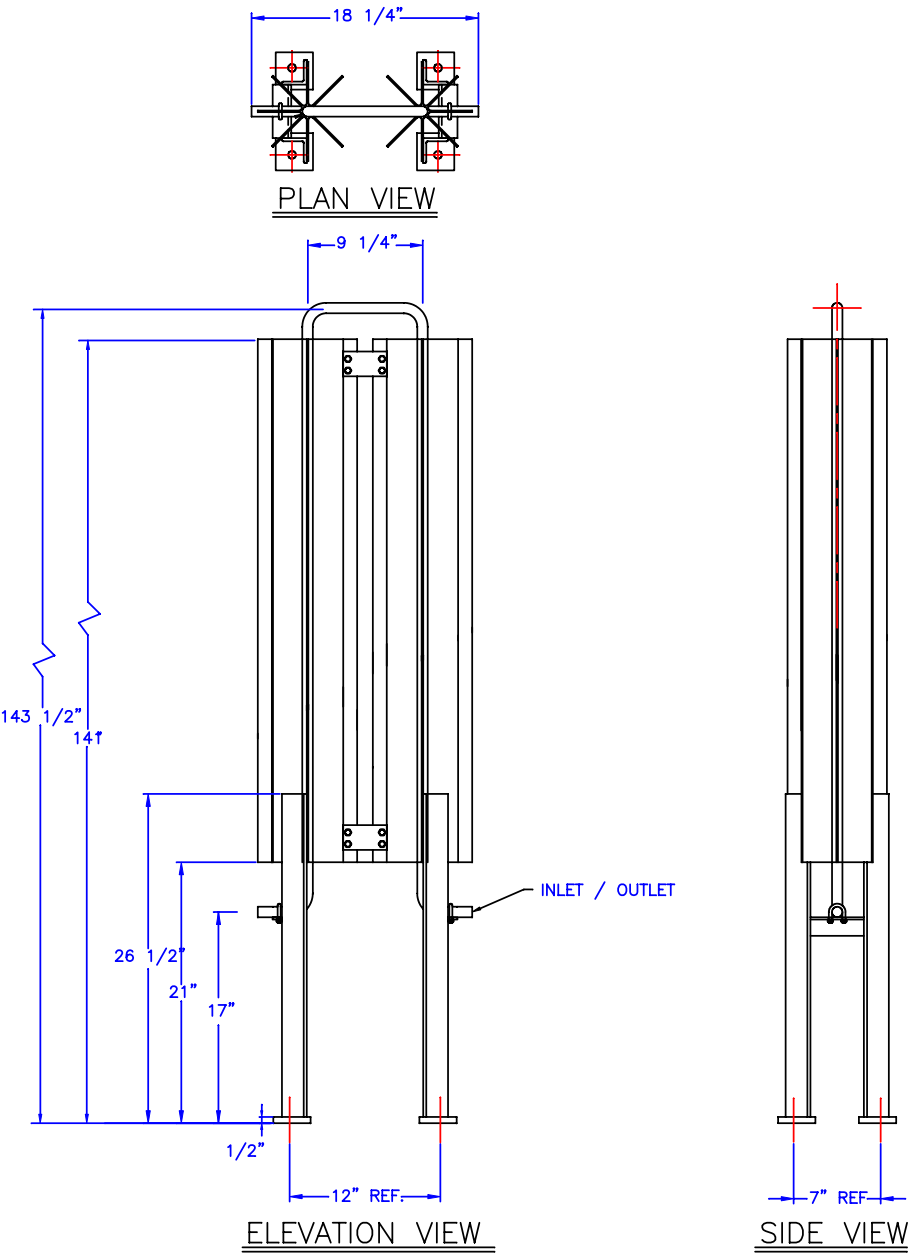


SIDE VIEW

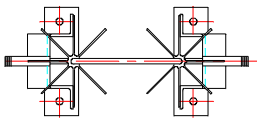


ANCHOR BOLT LAYOUT

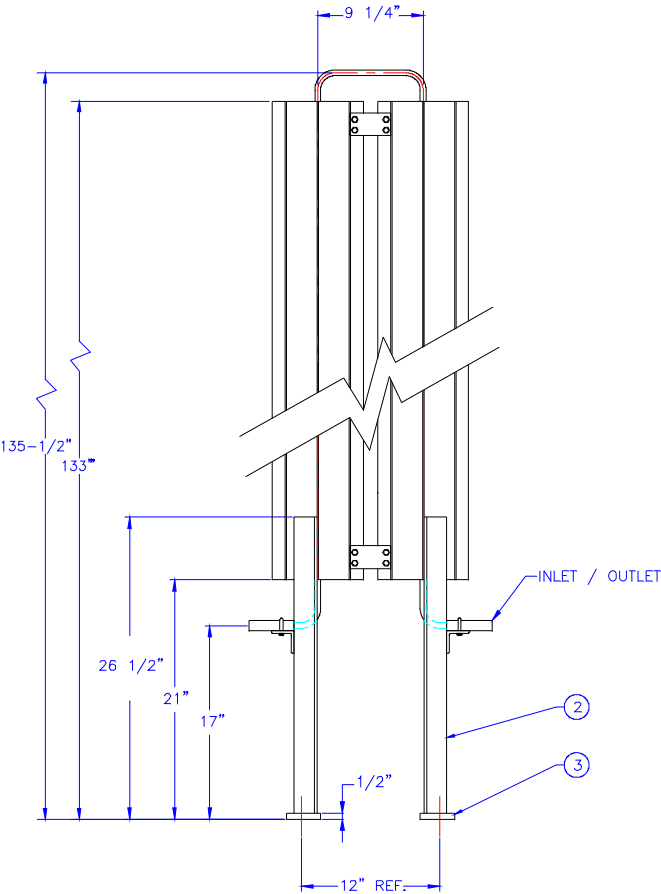
Standard Gap Vaporizer Drawings - A2-10



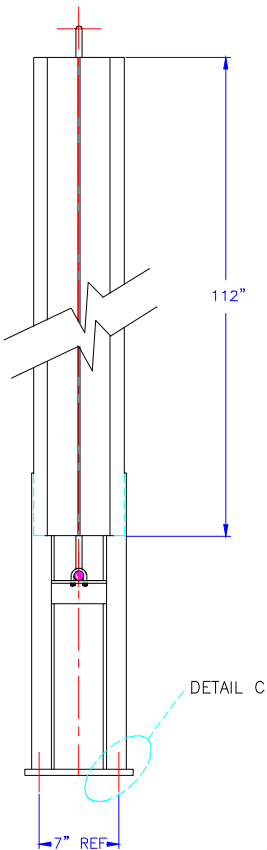
Standard Gap Vaporizer Drawings - A2SS-9.3



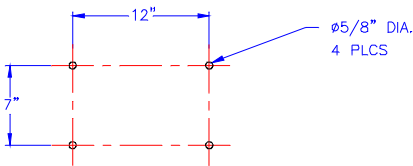
PLAN VIEW



ELEVATION VIEW

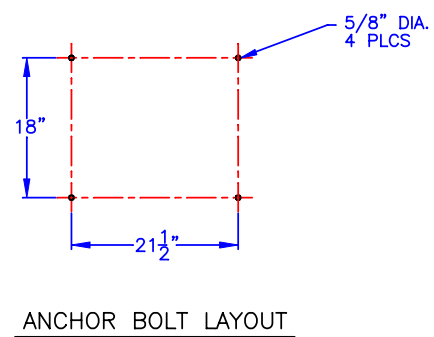
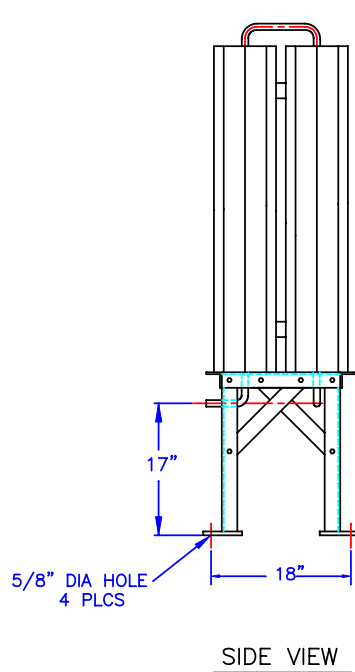
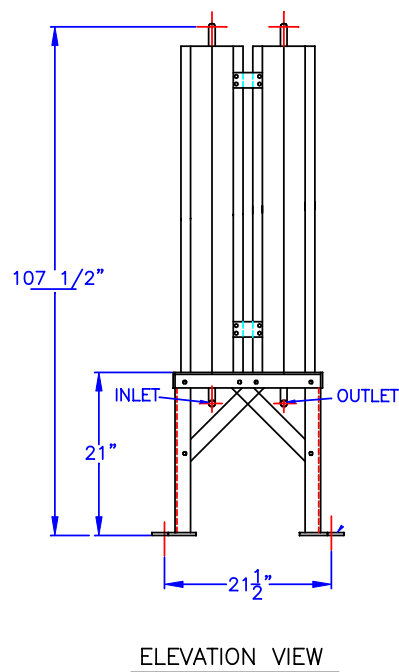
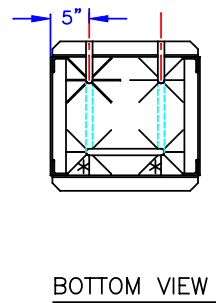
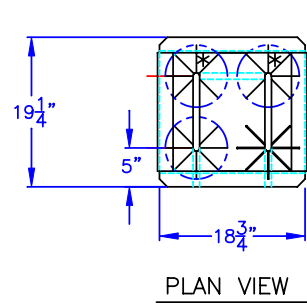


SIDE VIEW

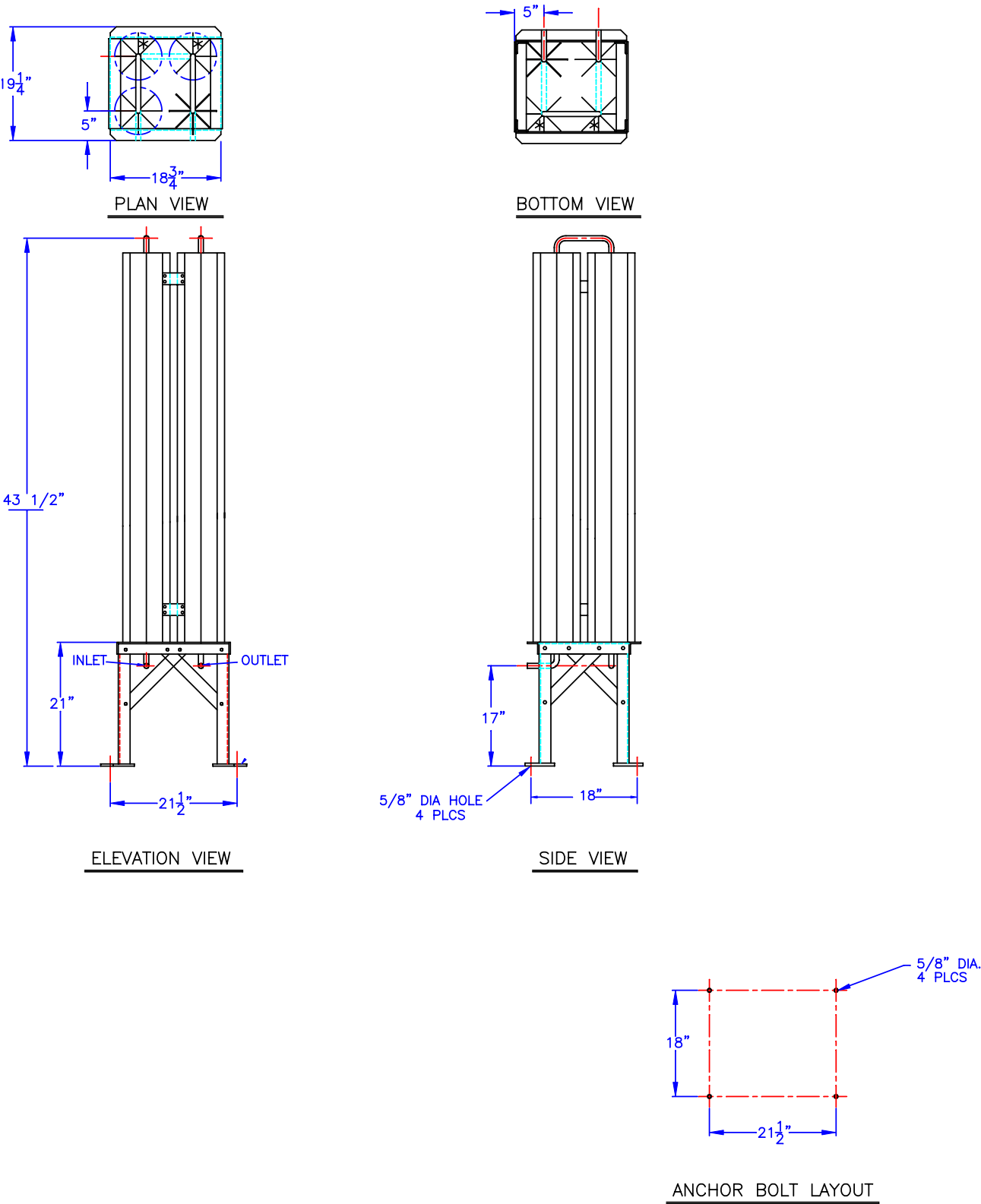


ANCHOR BOLT LAYOUT

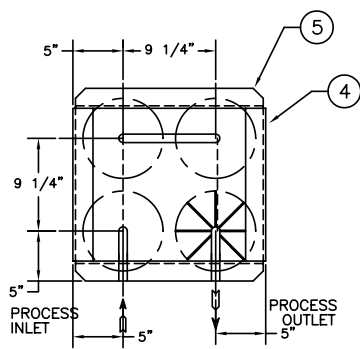
Standard Gap Vaporizer Drawings - A4



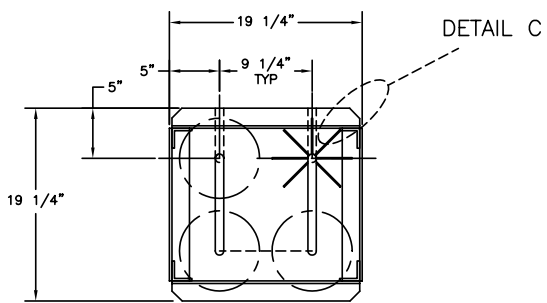
Standard Gap Vaporizer Drawings - A4-10



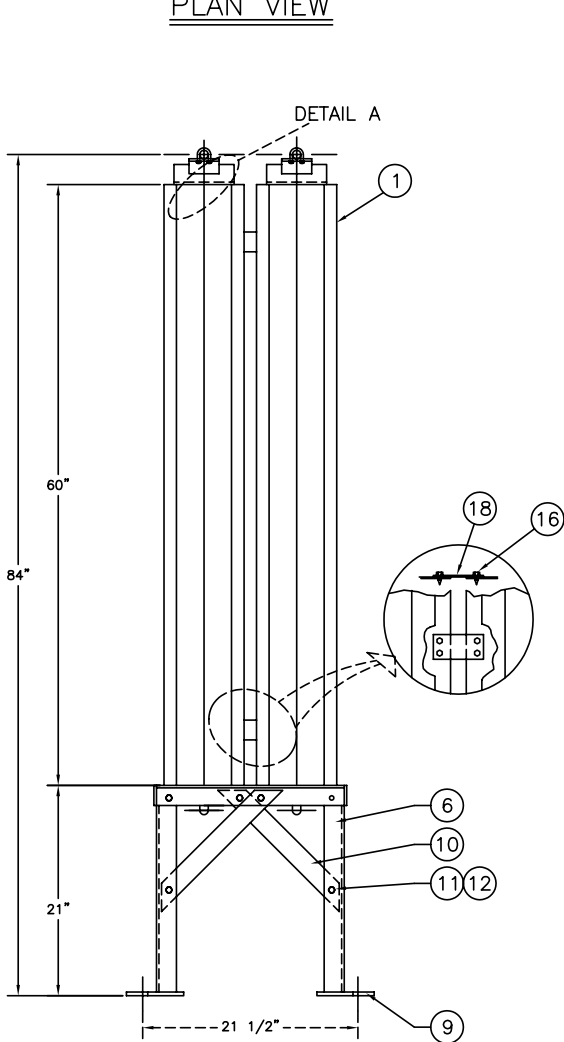
Standard Gap Vaporizer Drawings - A4ALB-5



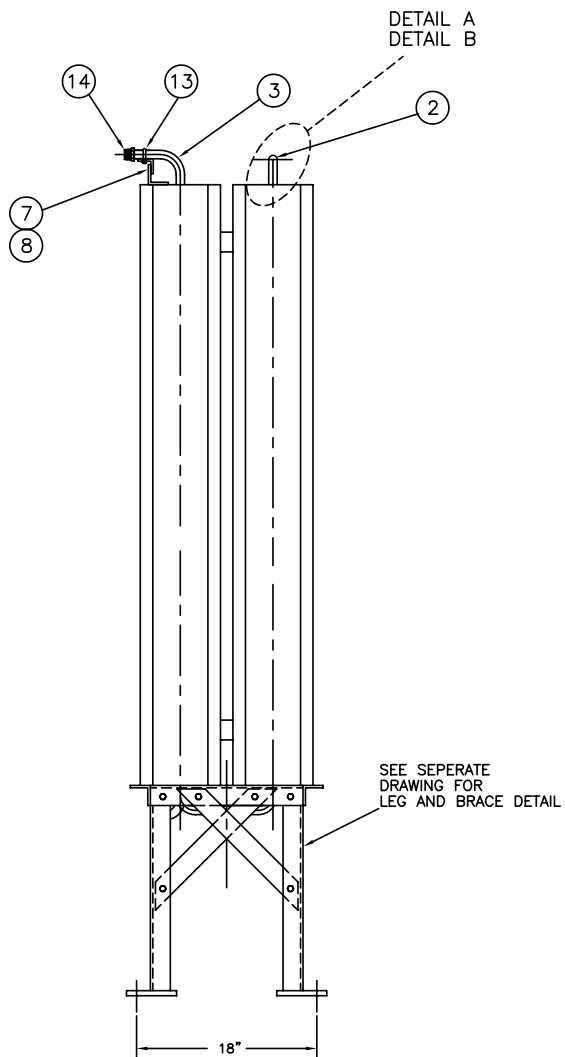
PLAN VIEW



BOTTOM VIEW

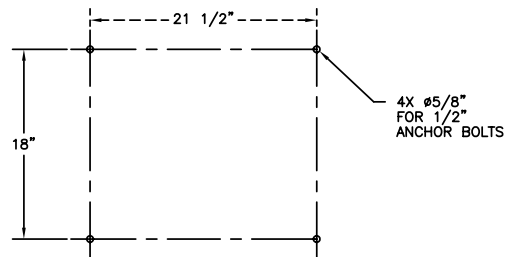


ELEVATION VIEW

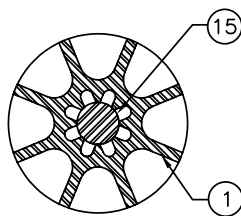


SIDE VIEW

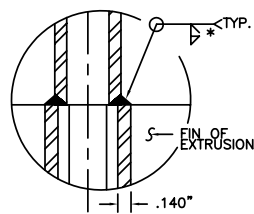
Standard Gap Vaporizer Drawings - A4ALB-5



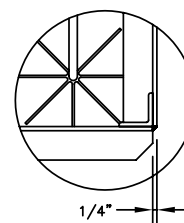
ANCHOR BOLT LAYOUT



DETAIL A

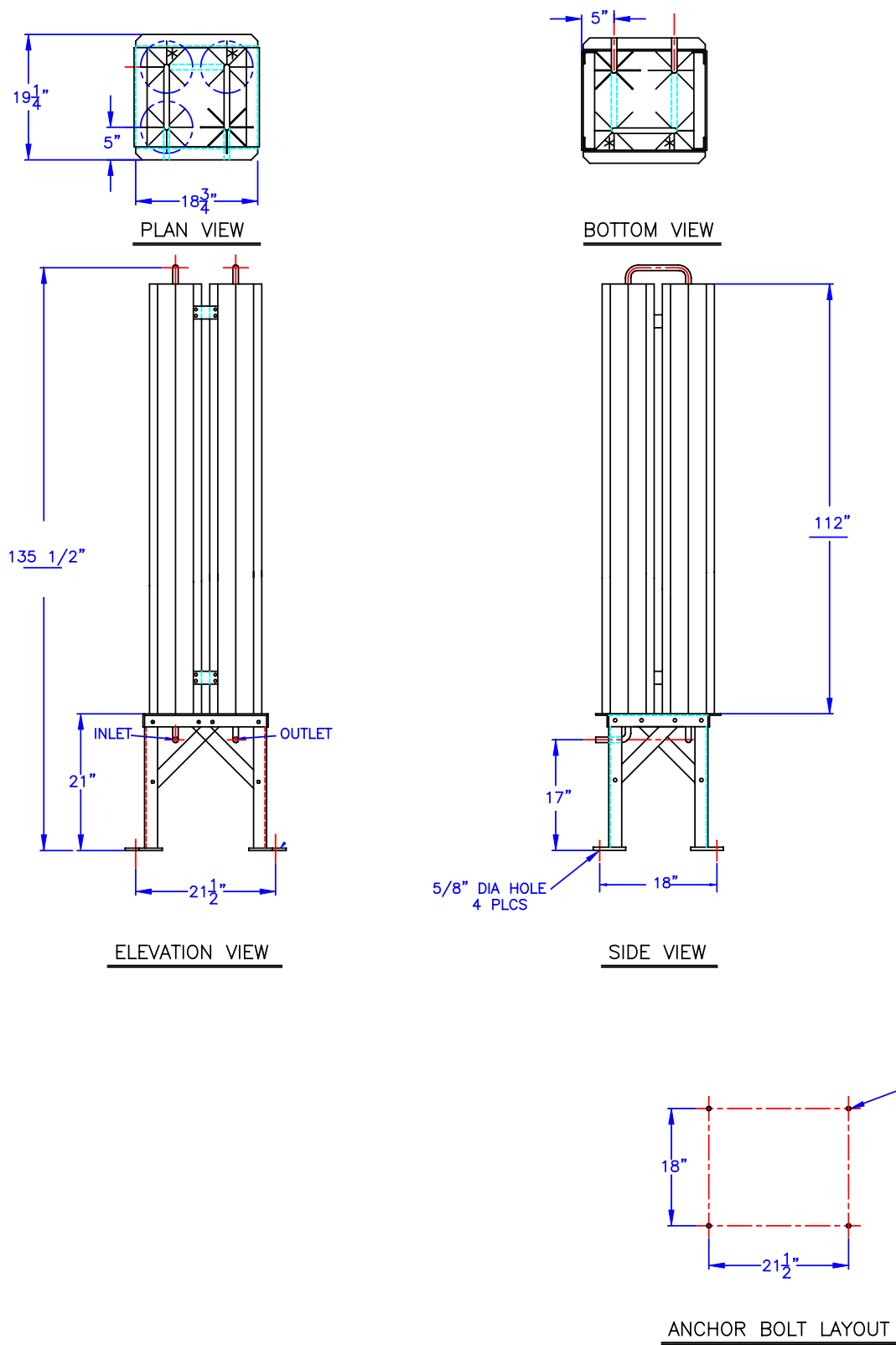


DETAIL B

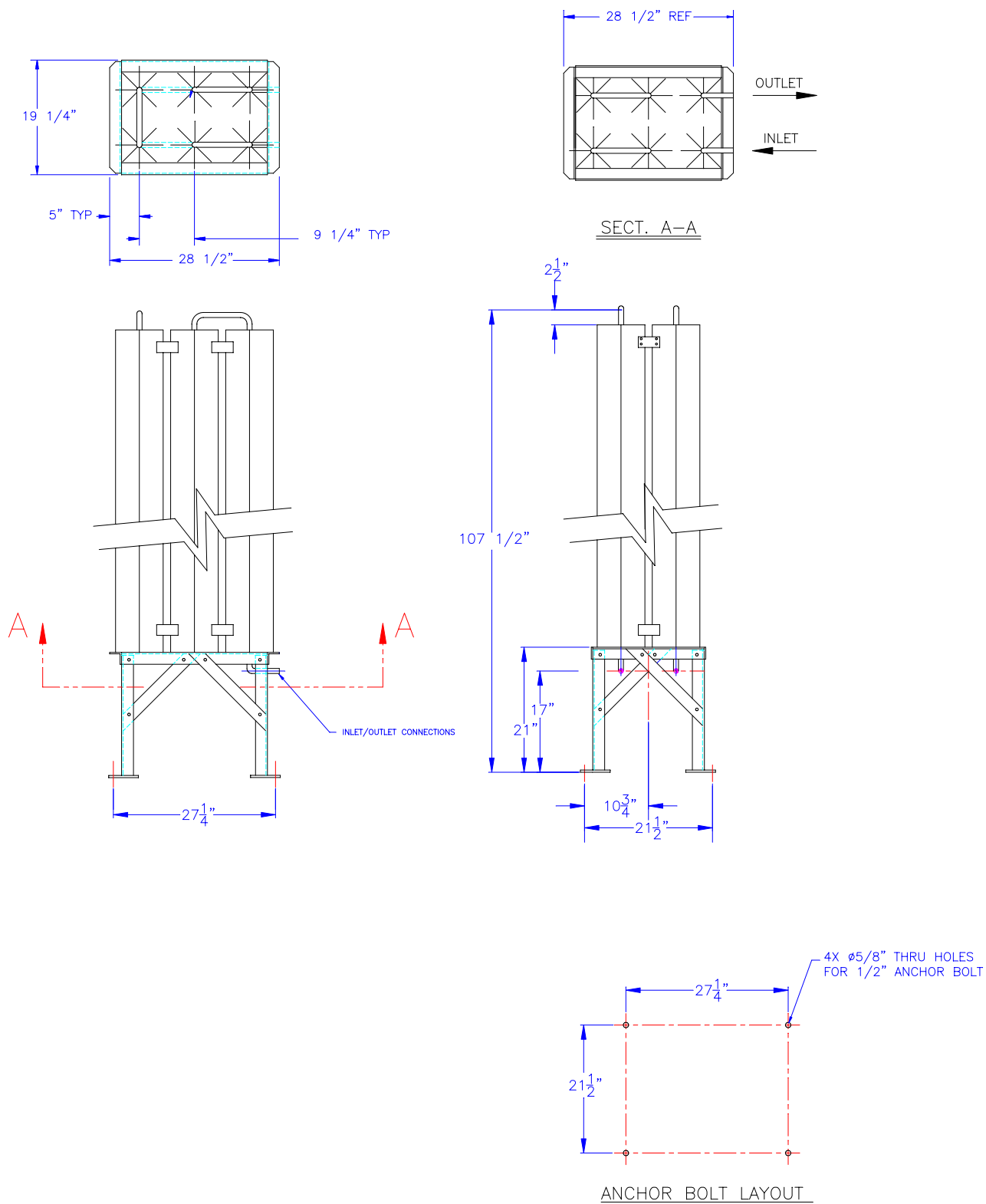


DETAIL C

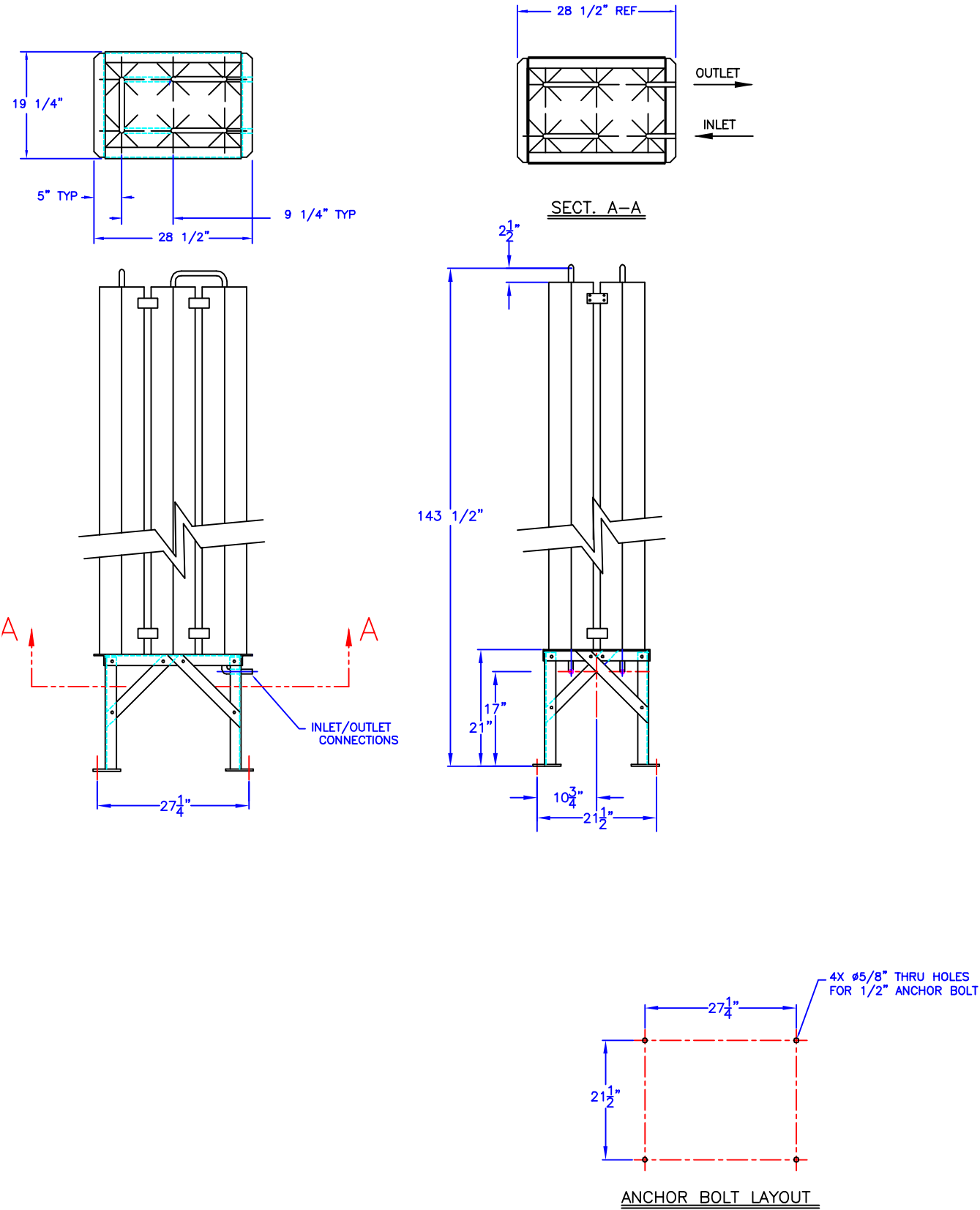
Standard Gap Vaporizer Drawings - A4SS-9.3



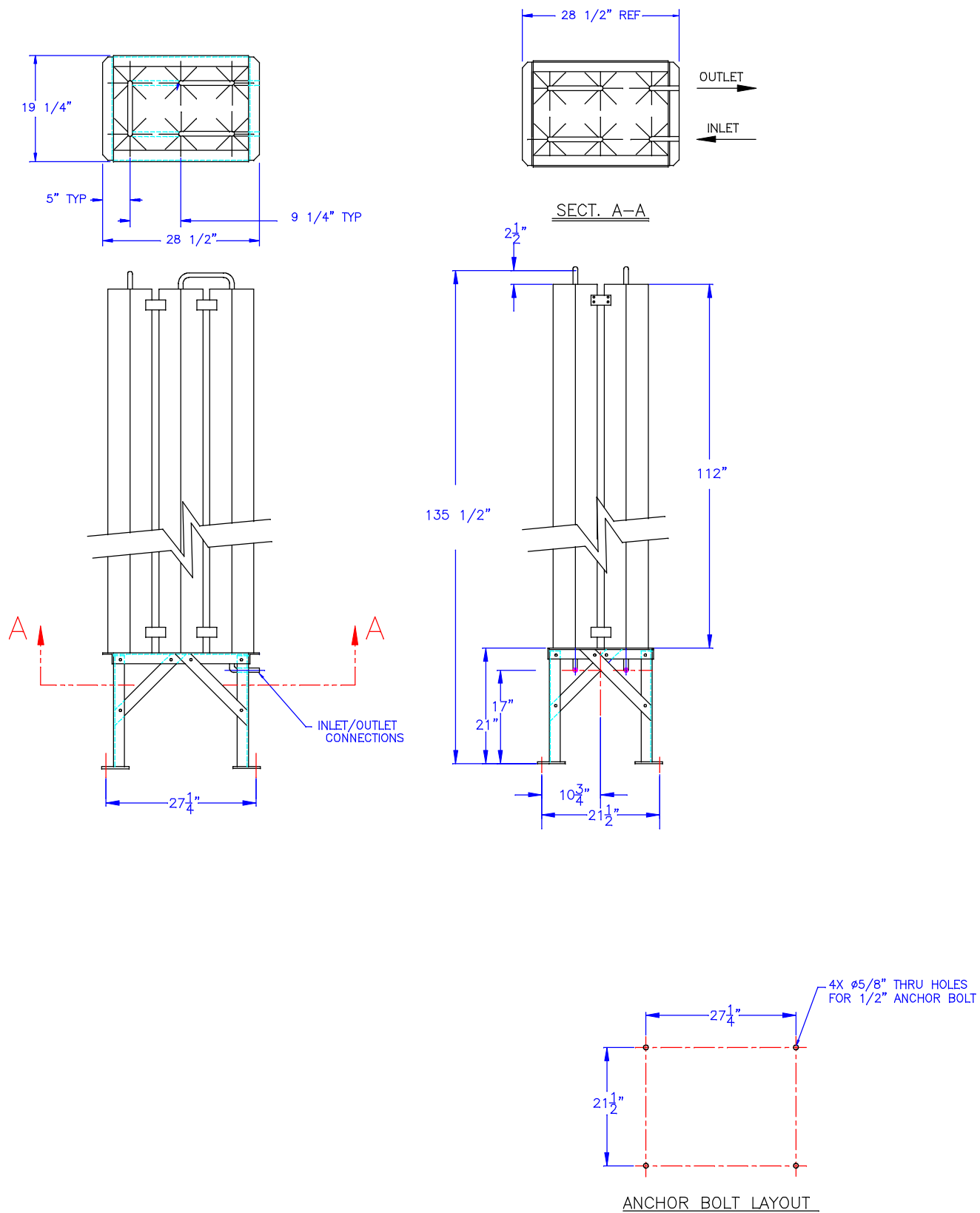
Standard Gap Vaporizer Drawings - A6



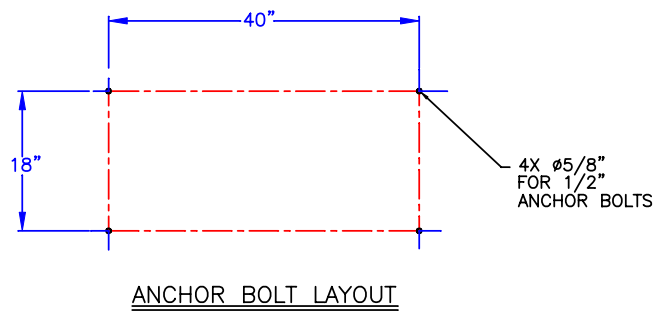
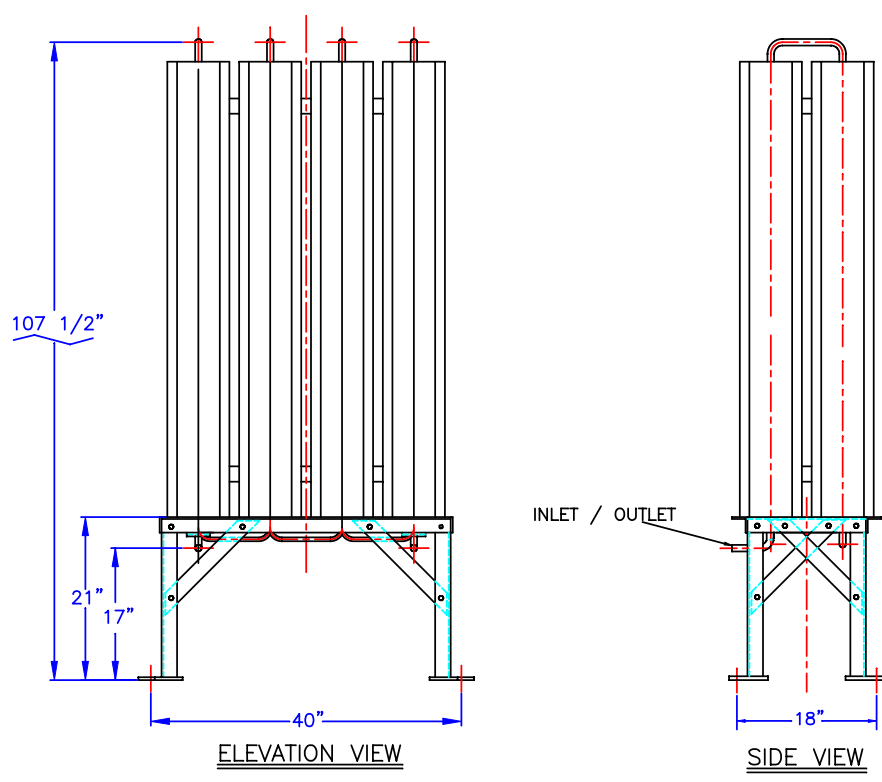
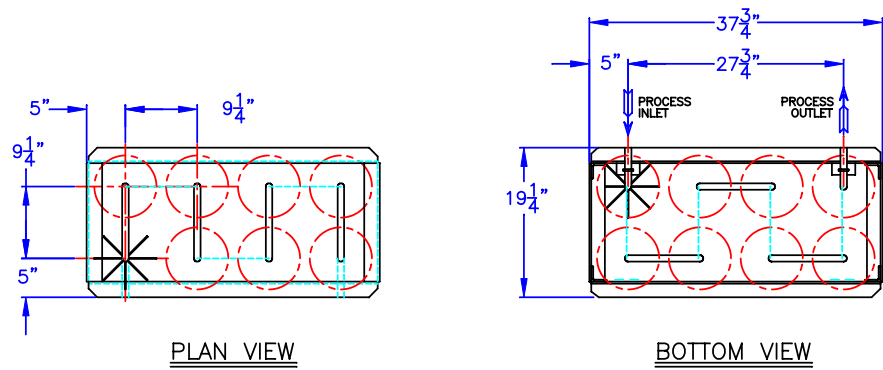
Standard Gap Vaporizer Drawings - A6-10



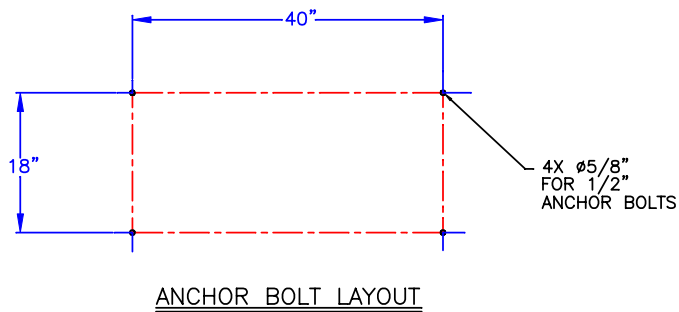
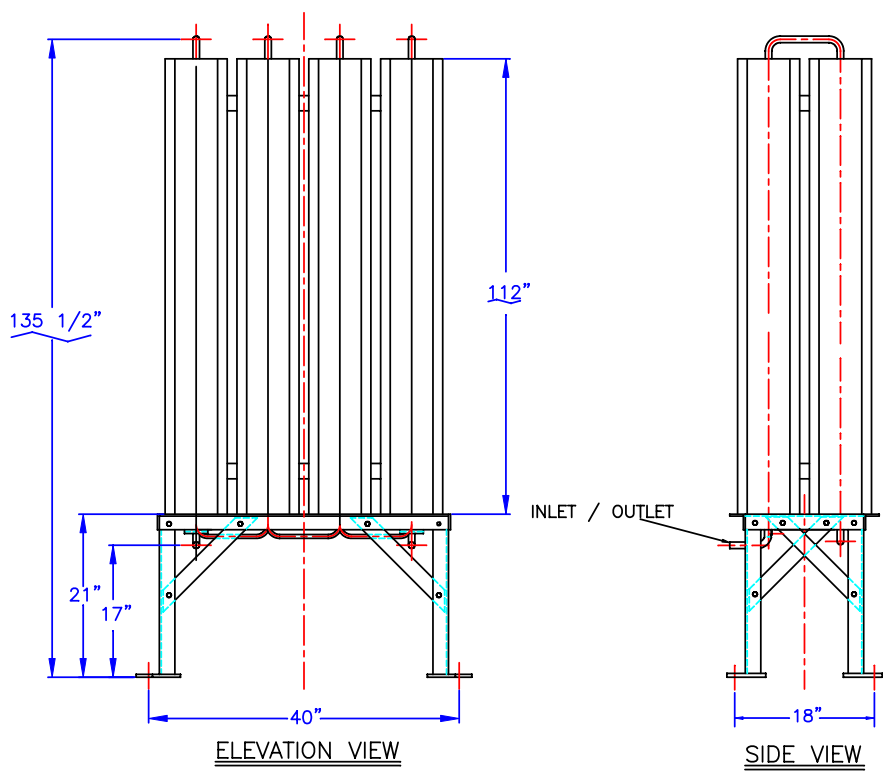
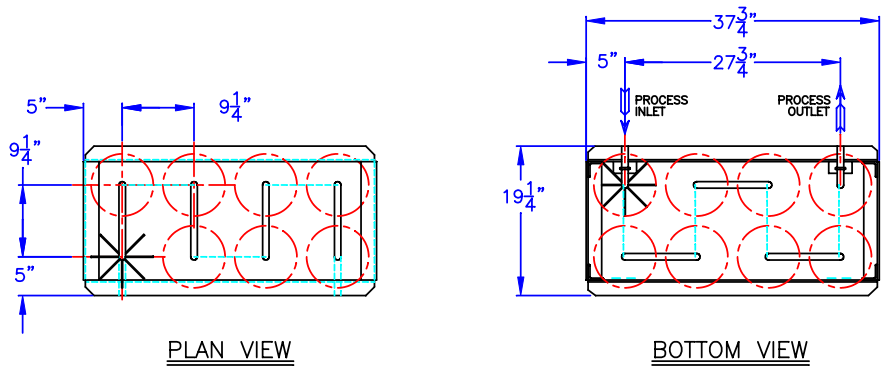
Standard Gap Vaporizer Drawings - A6SS-9.3



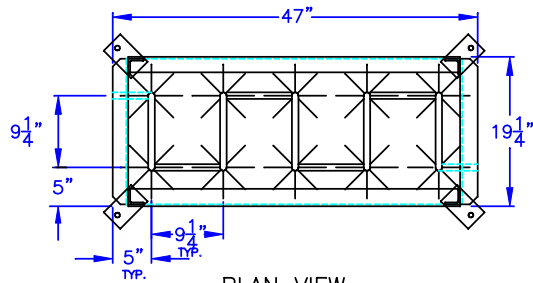
Standard Gap Vaporizer Drawings - A8



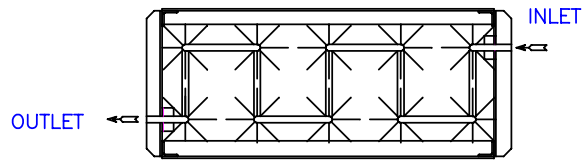
Standard Gap Vaporizer Drawings - A8SS-9.3



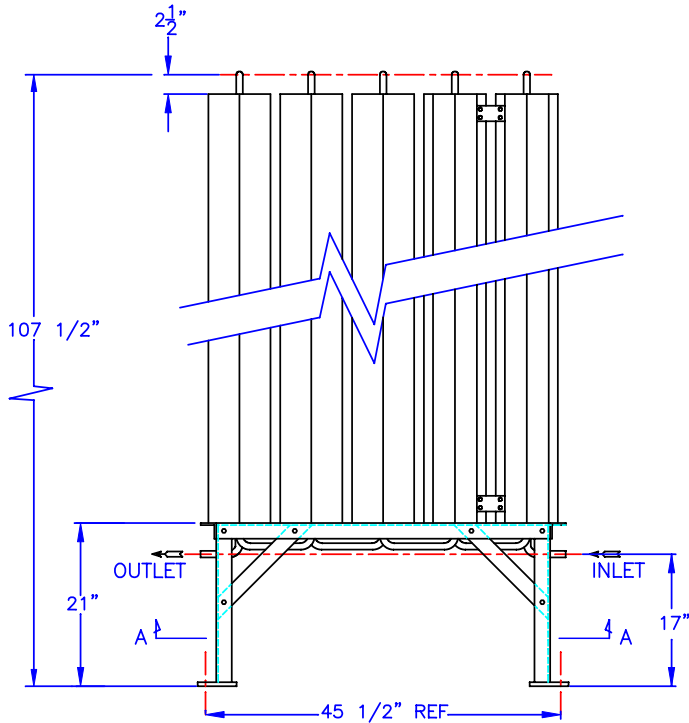
Standard Gap Vaporizer Drawings - A10



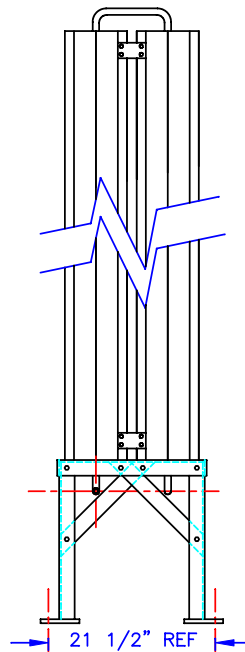
PLAN VIEW



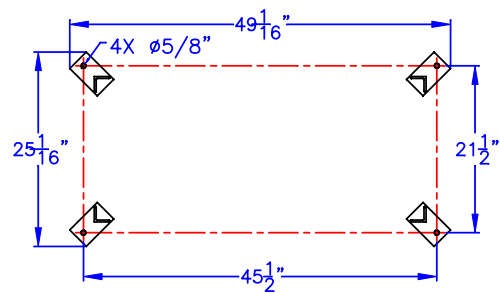
SECTION "A-A"



ELEVATION VIEW

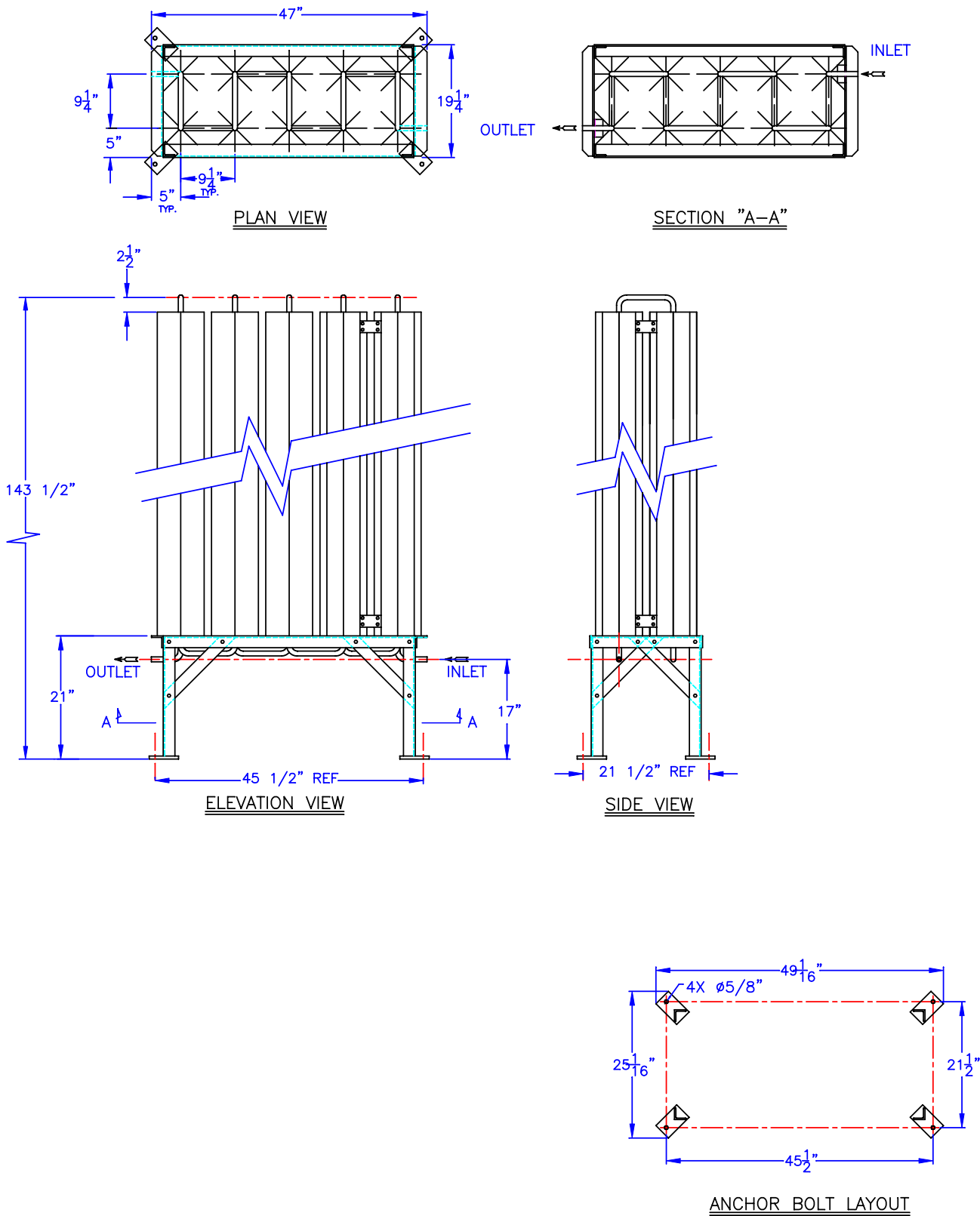


SIDE VIEW

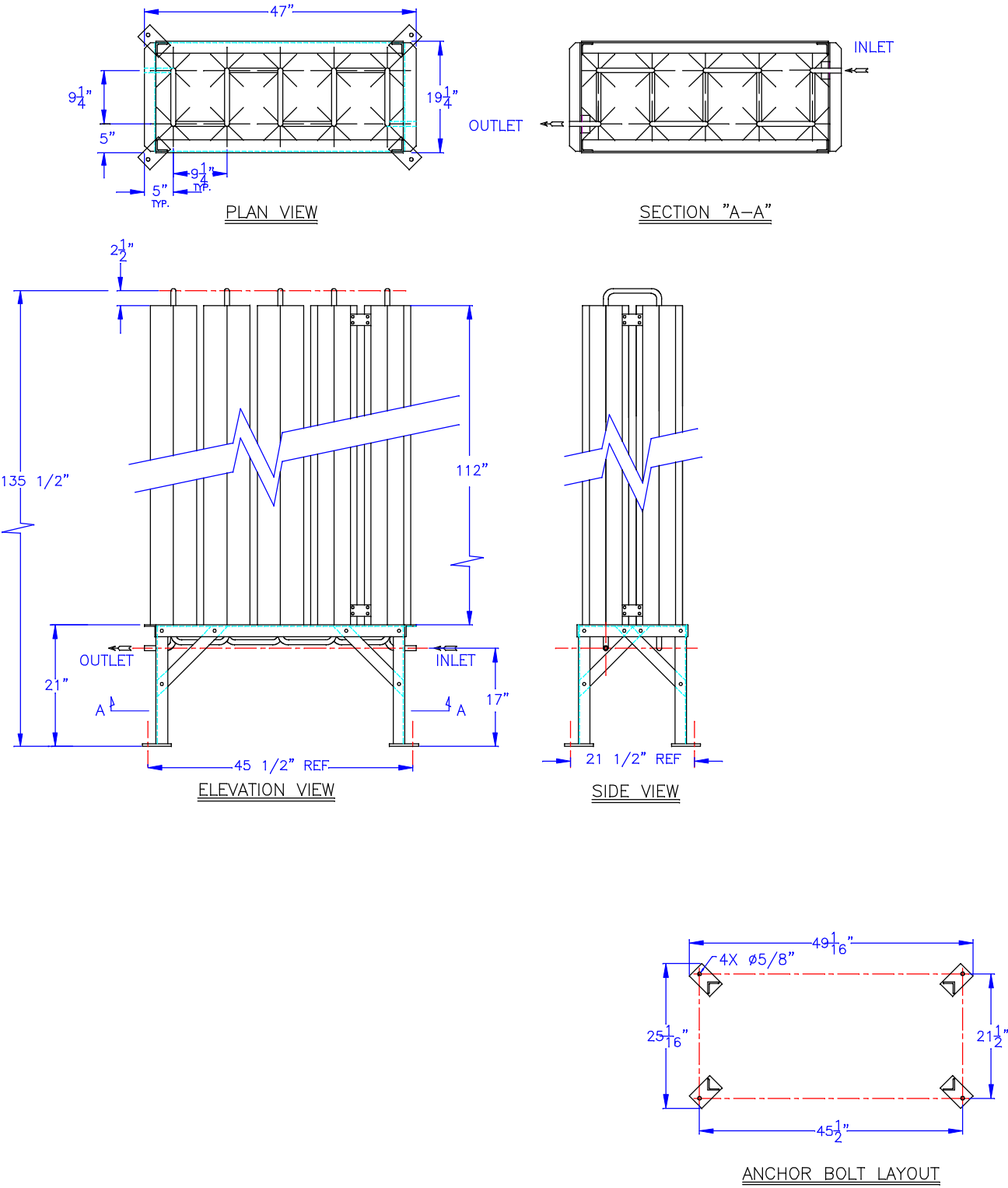


ANCHOR BOLT LAYOUT

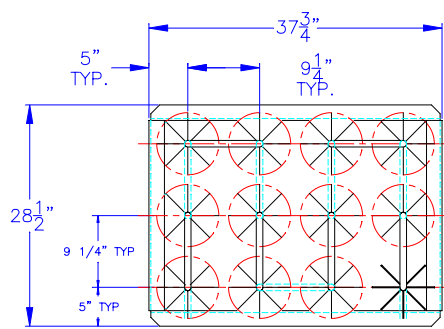
Standard Gap Vaporizer Drawings - A10-10



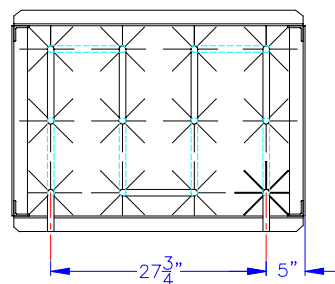
Standard Gap Vaporizer Drawings - A10SS-9.3



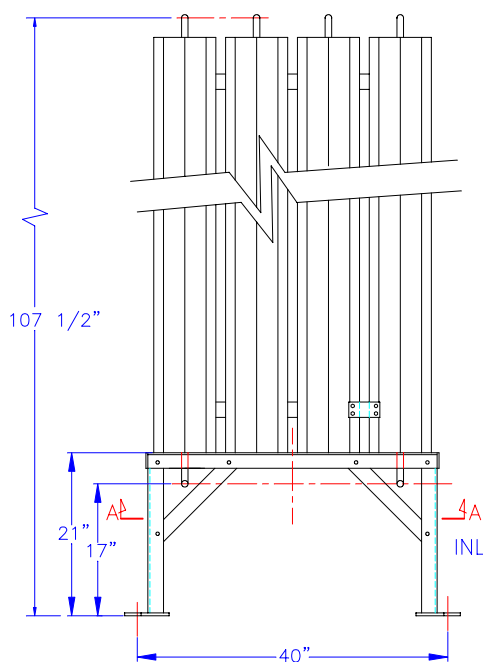
Standard Gap Vaporizer Drawings - A12



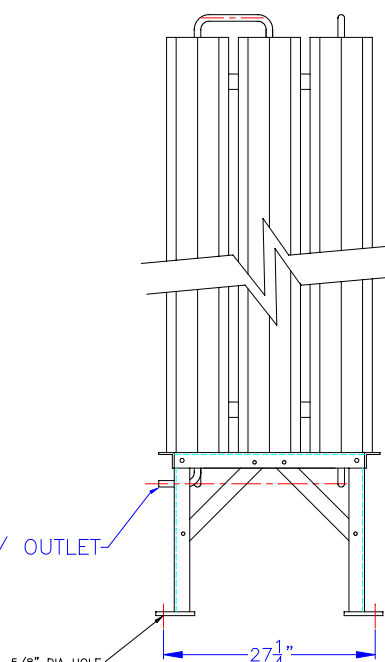
PLAN VIEW



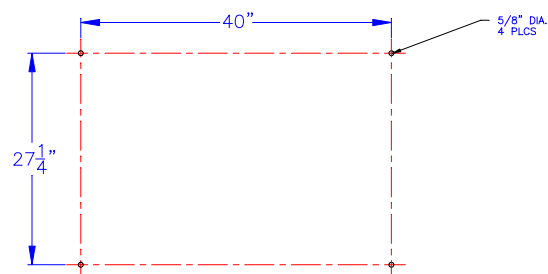
SECTION "A-A"



ELEVATION VIEW

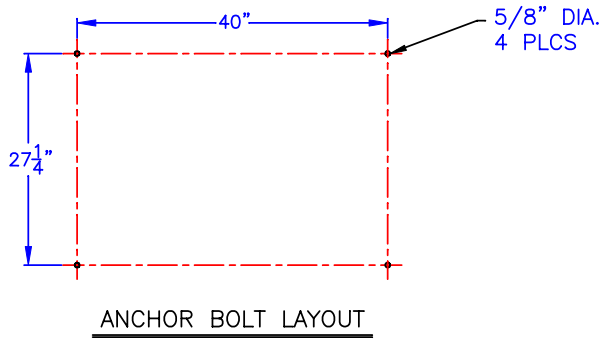
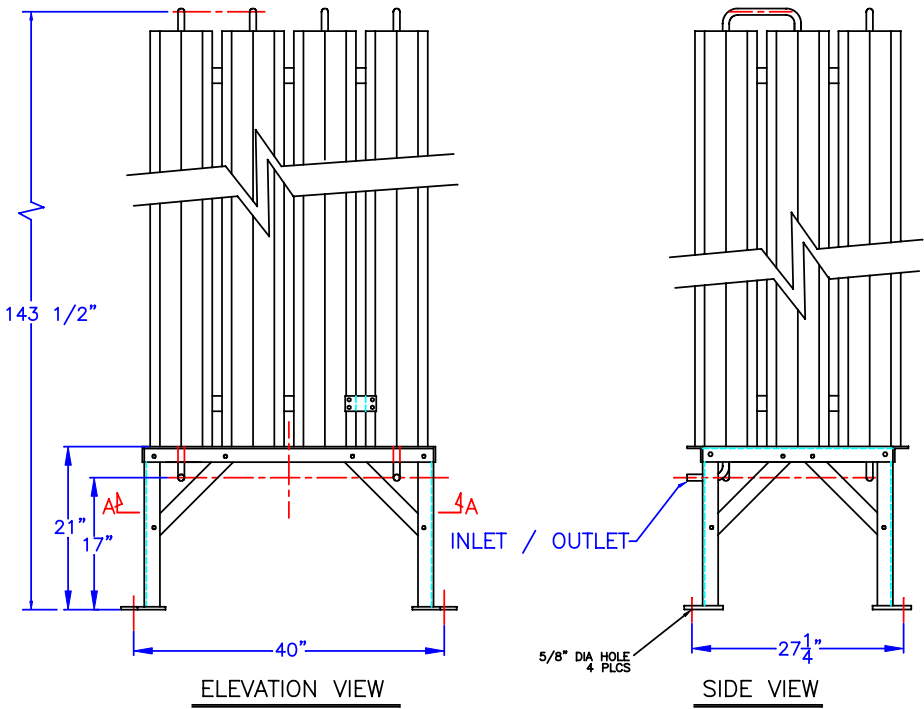
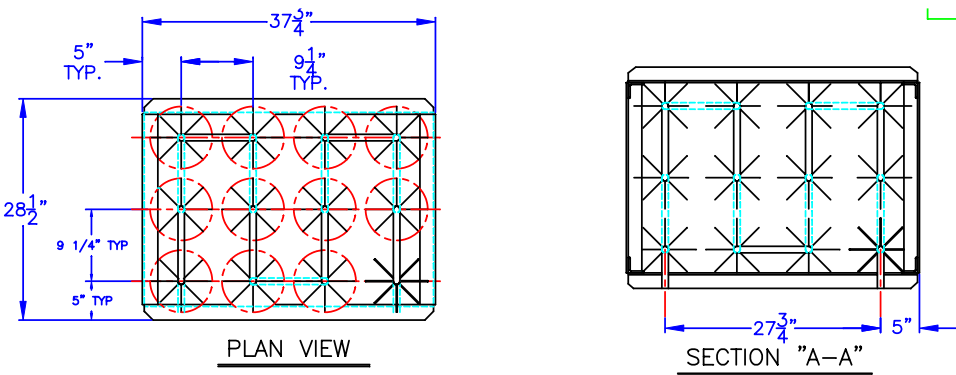


SIDE VIEW

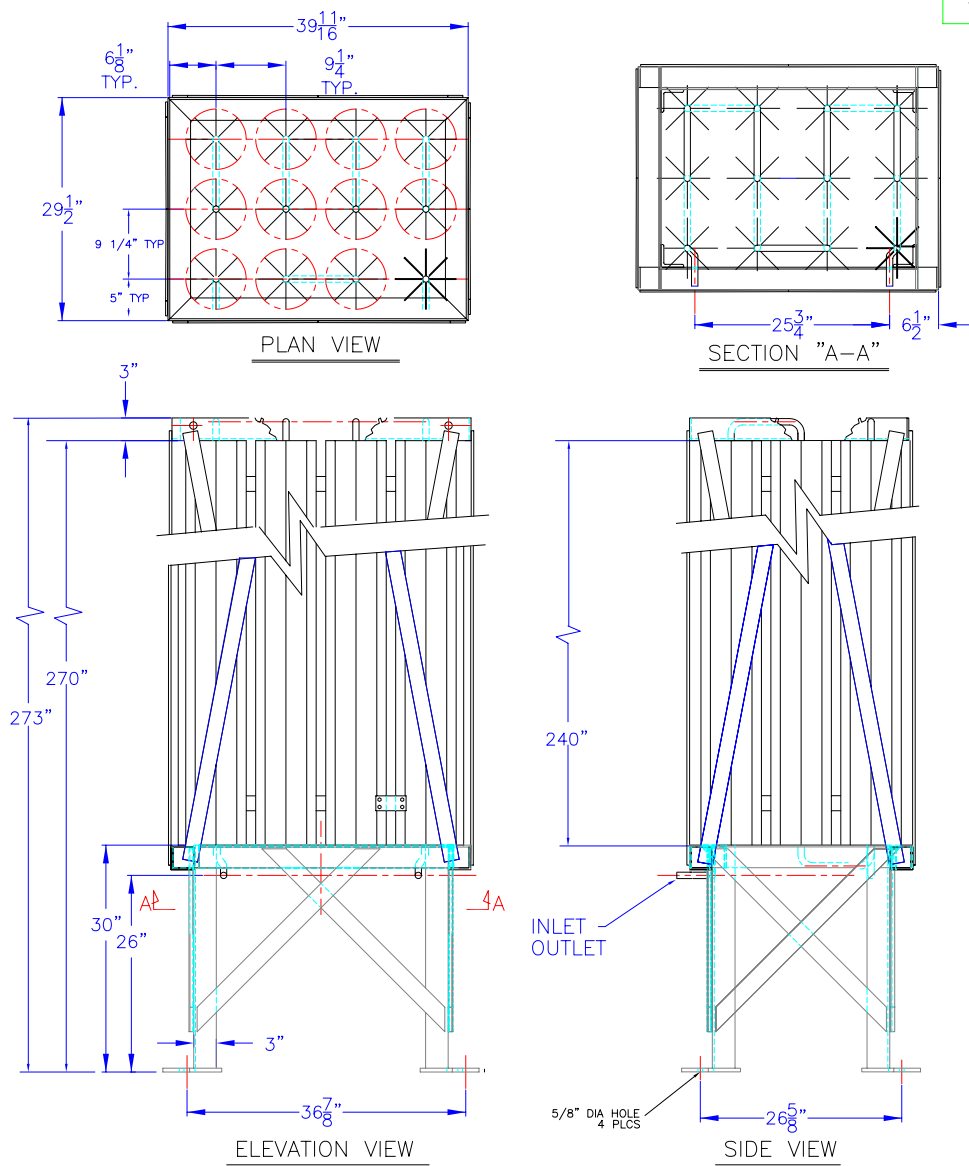


ANCHOR BOLT LAYOUT

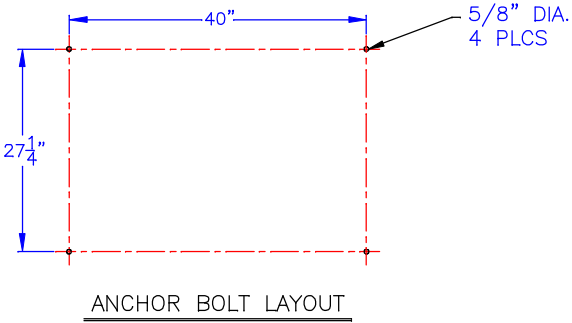
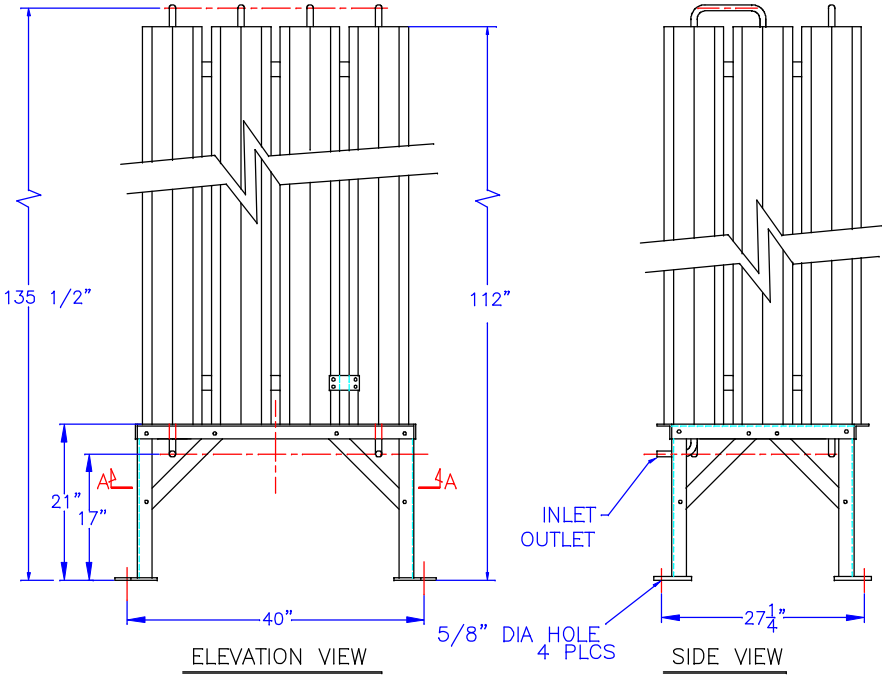
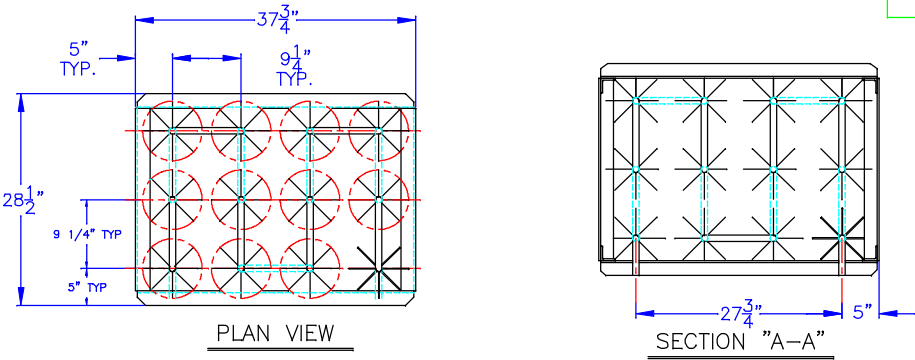
Standard Gap Vaporizer Drawings - A12-10



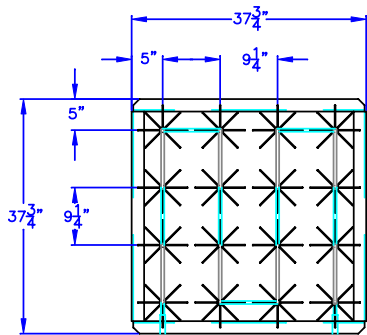
Standard Gap Vaporizer Drawings - A12-20



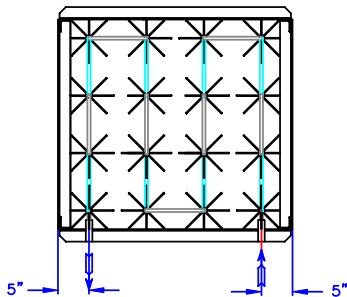
Standard Gap Vaporizer Drawings - A12SS-9.3



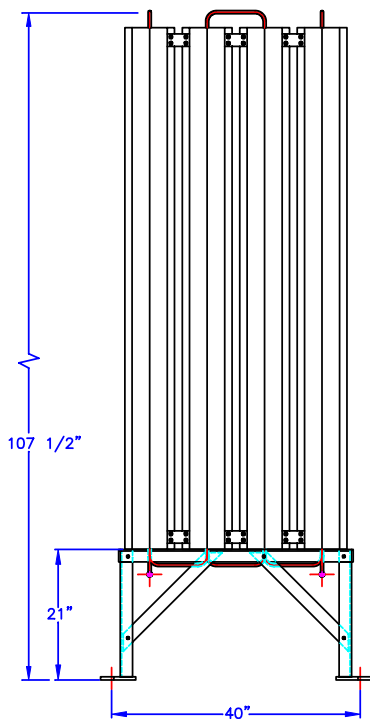
Standard Gap Vaporizer Drawings - A16



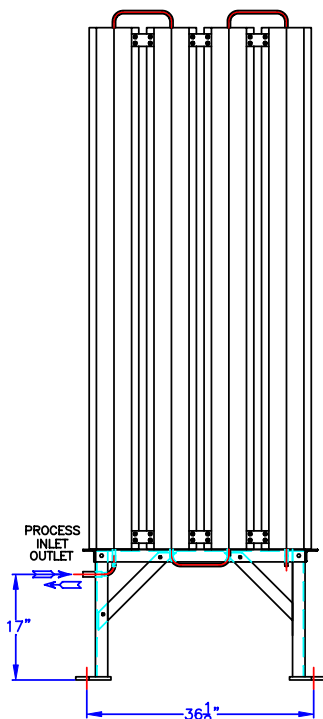
PLAN VIEW



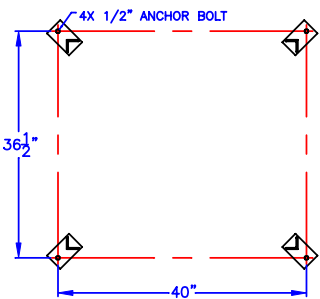
BOTTOM VIEW



ELEVATION VIEW

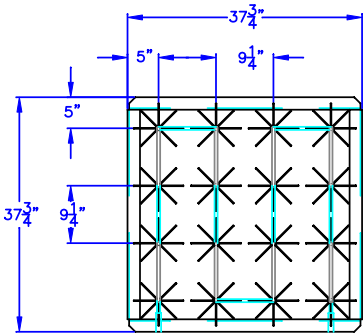


SIDE VIEW

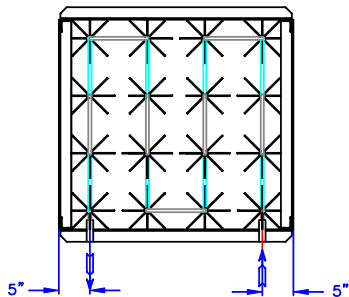


ANCHOR BOLT LAYOUT

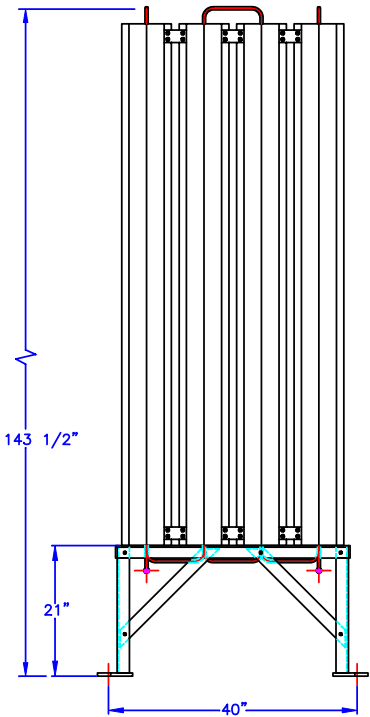
Standard Gap Vaporizer Drawings - A16-10



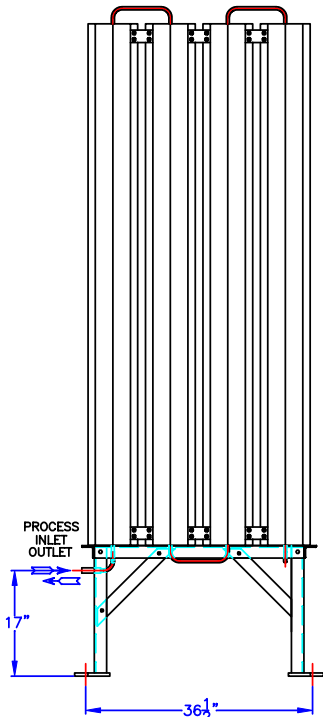
PLAN VIEW



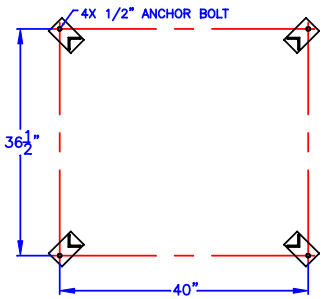
BOTTOM VIEW



ELEVATION VIEW

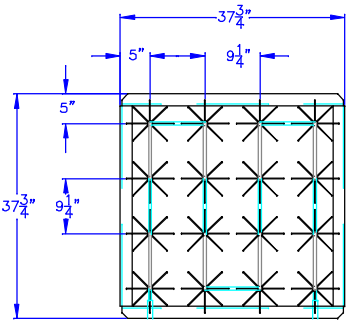


SIDE VIEW

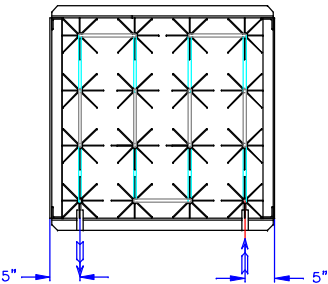


ANCHOR BOLT LAYOUT

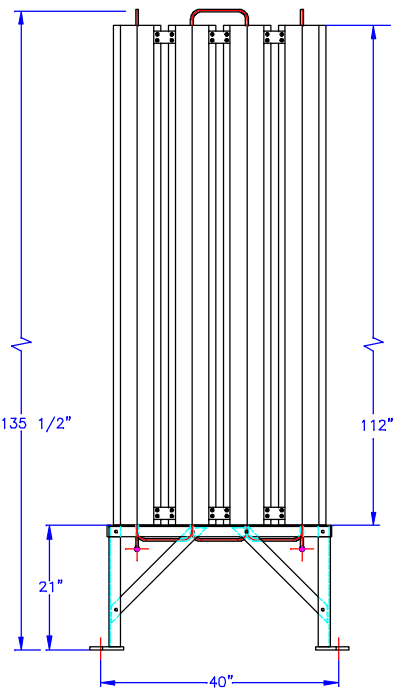
Standard Gap Vaporizer Drawings - A16SS-9.3



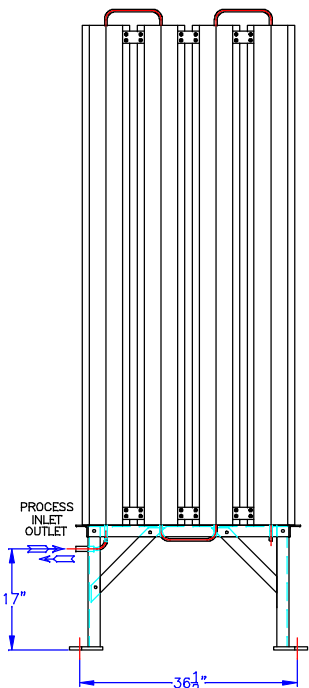
PLAN VIEW



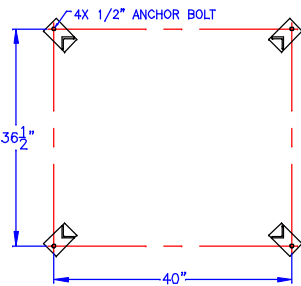
BOTTOM VIEW



ELEVATION VIEW

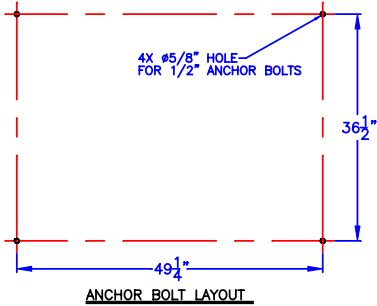
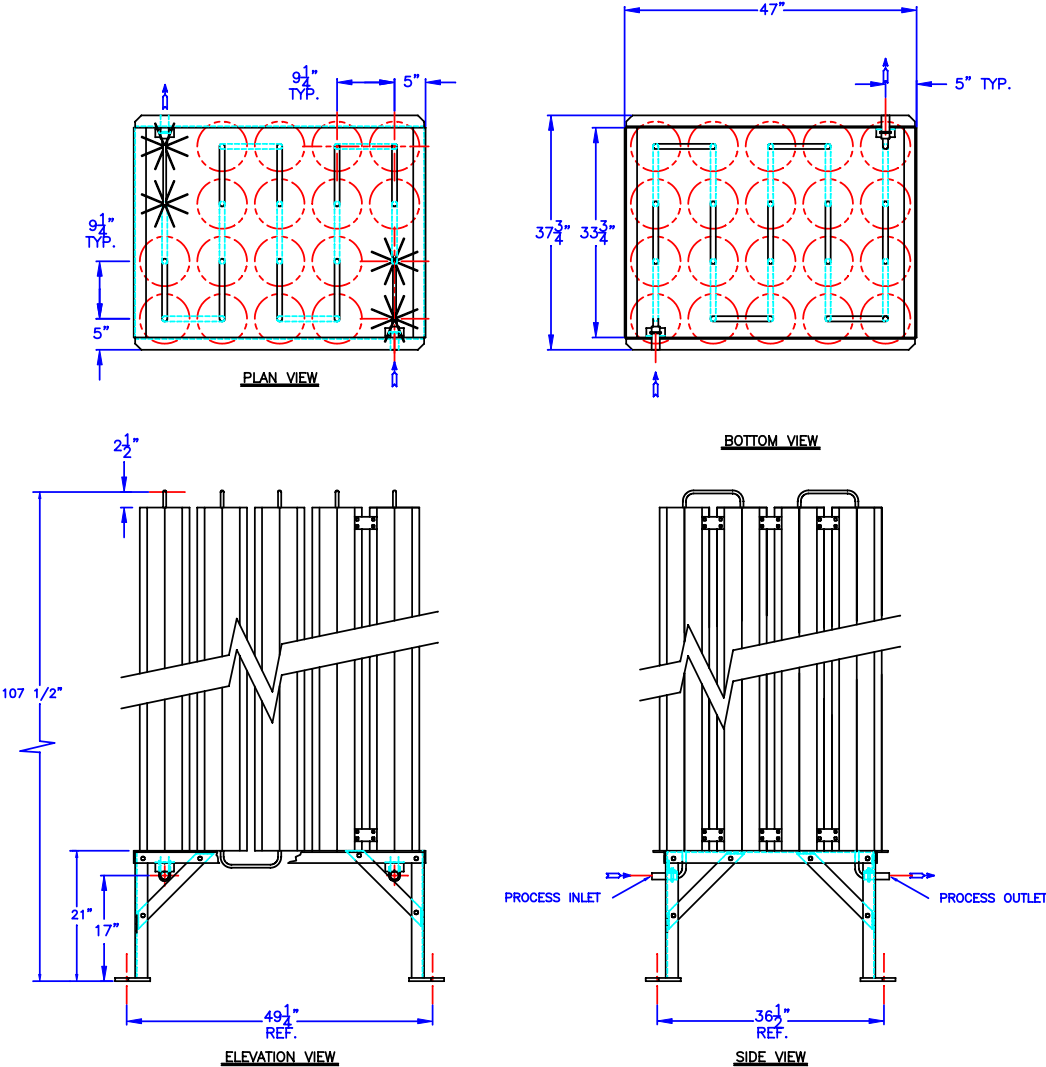


SIDE VIEW

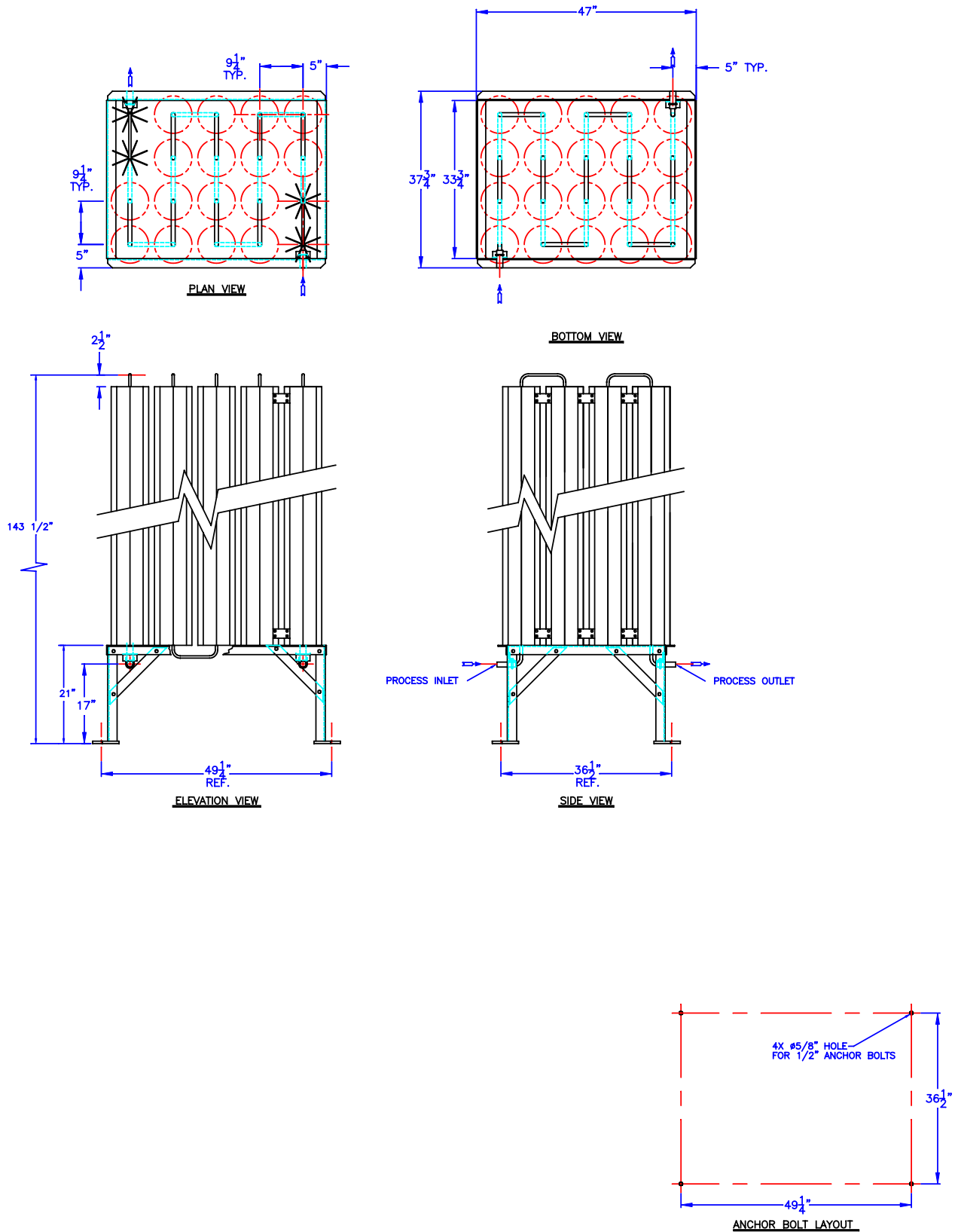


ANCHOR BOLT LAYOUT

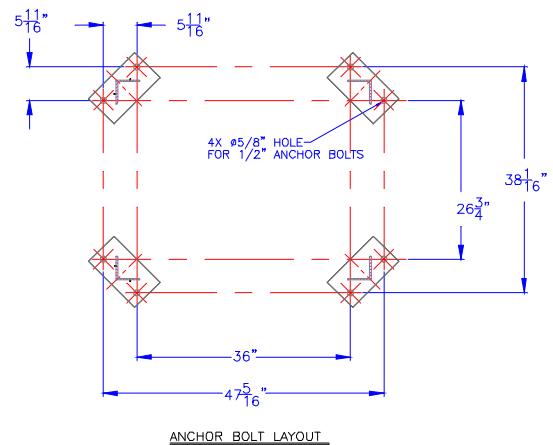
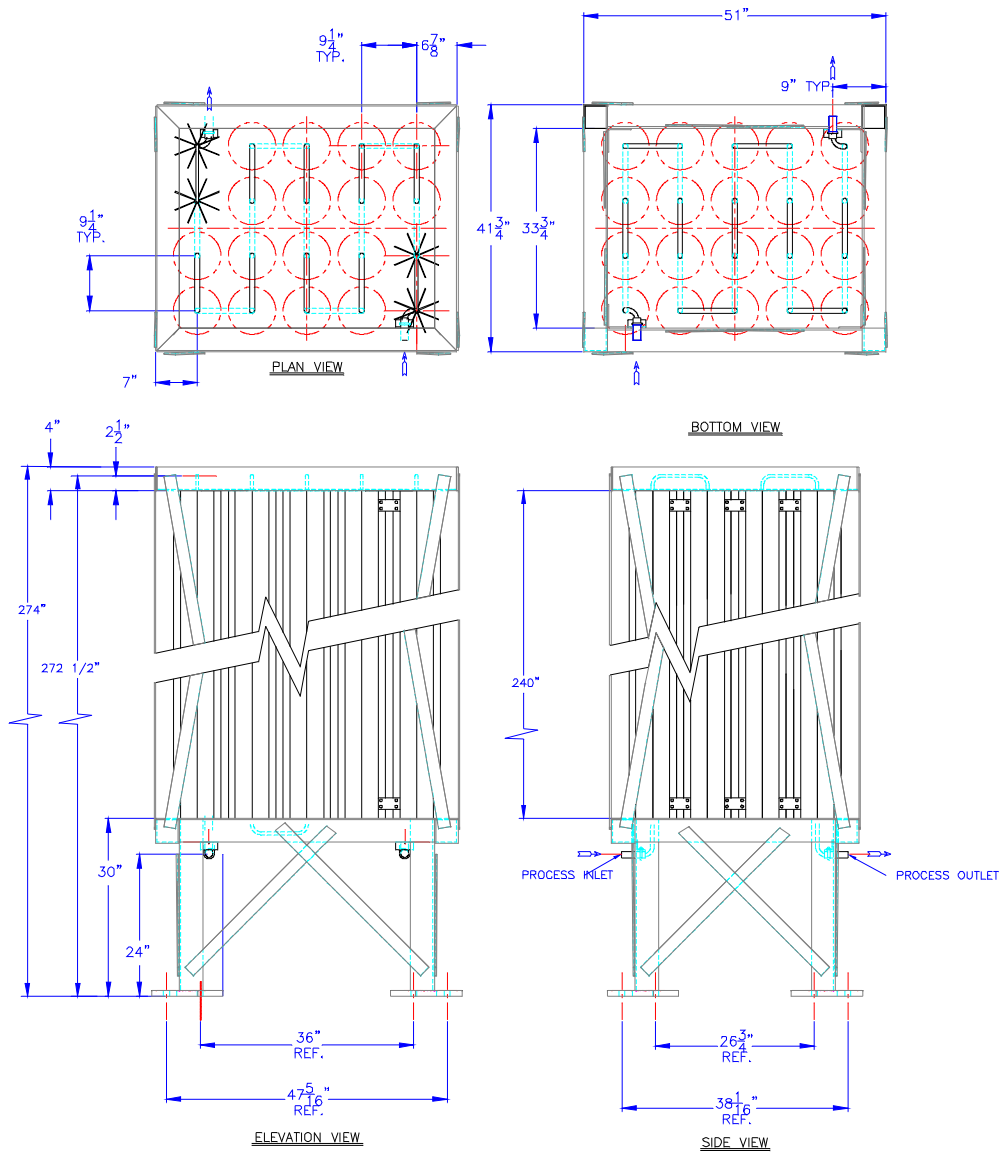
Standard Gap Vaporizer Drawings - A20



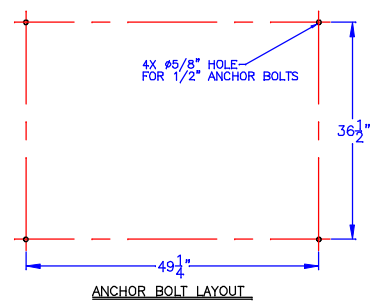
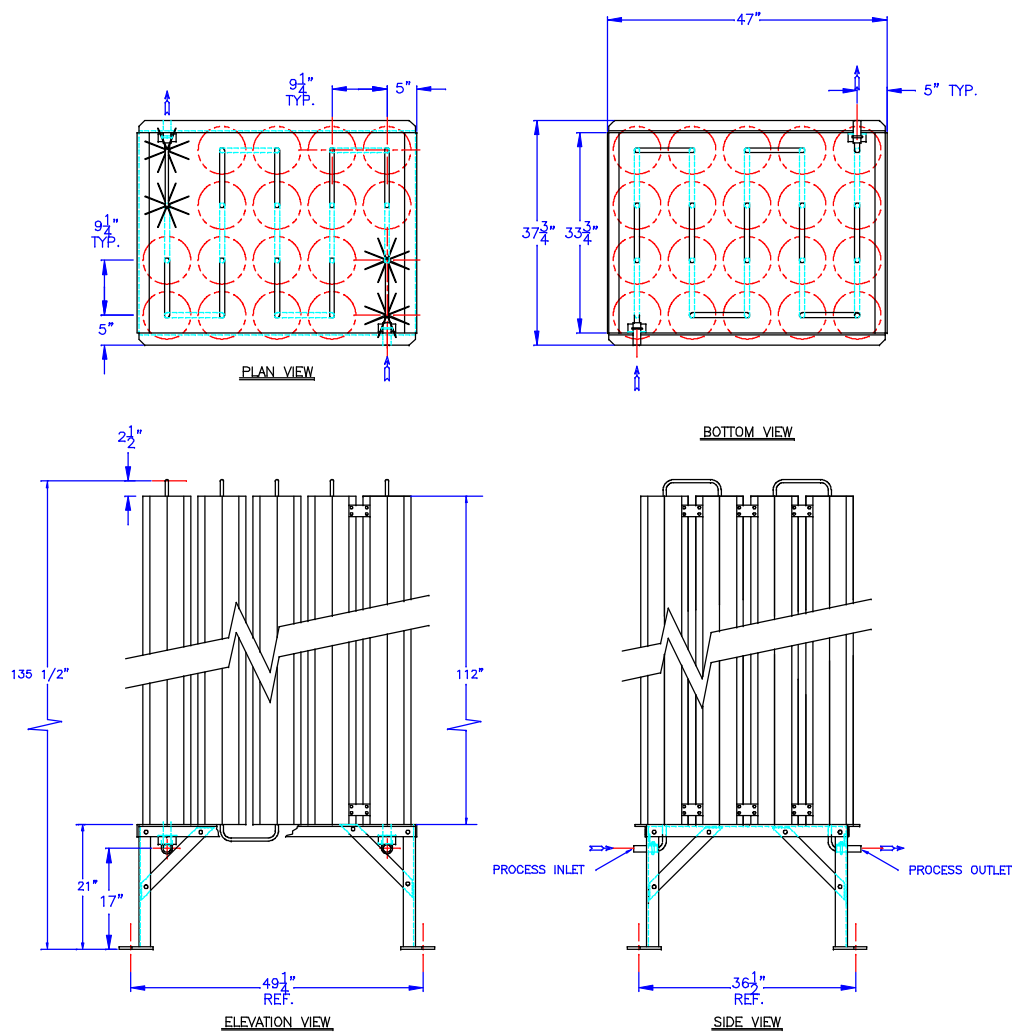
Standard Gap Vaporizer Drawings - A20-10



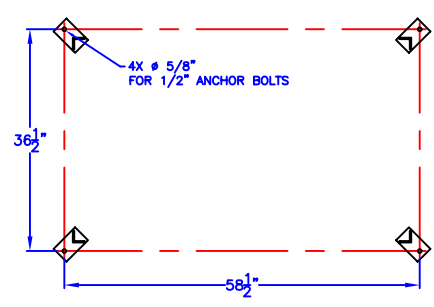
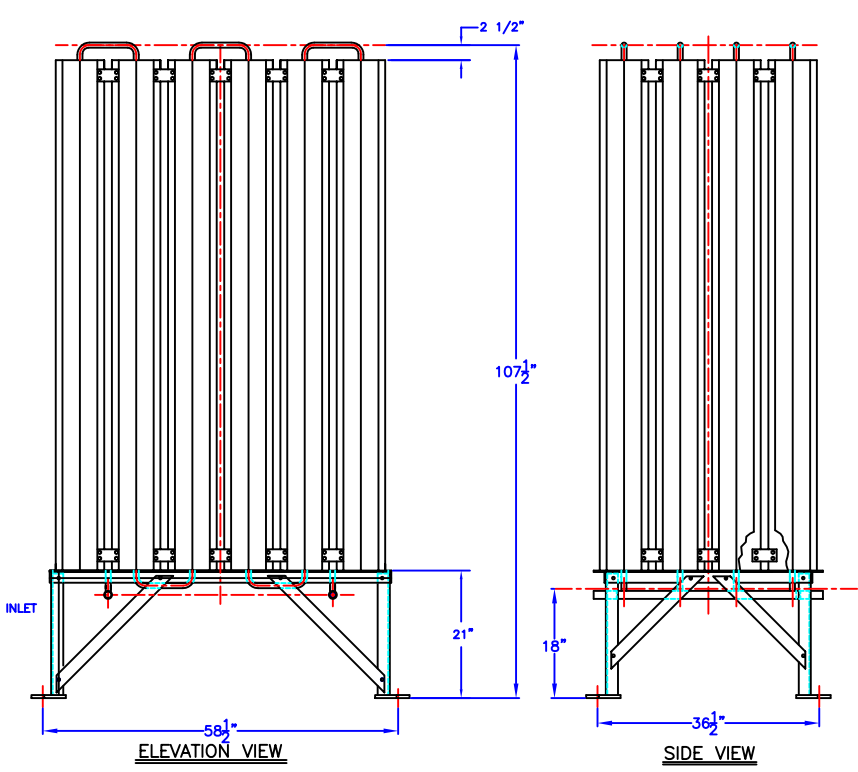
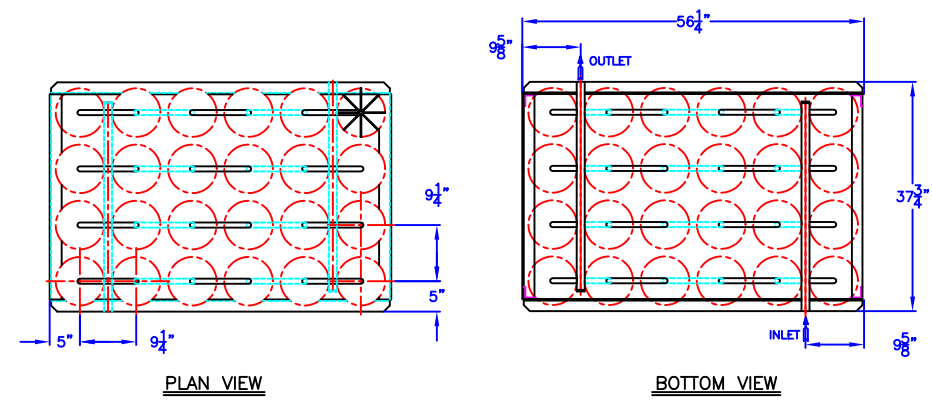
Standard Gap Vaporizer Drawings - A20-20



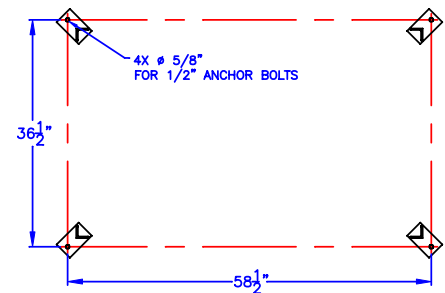
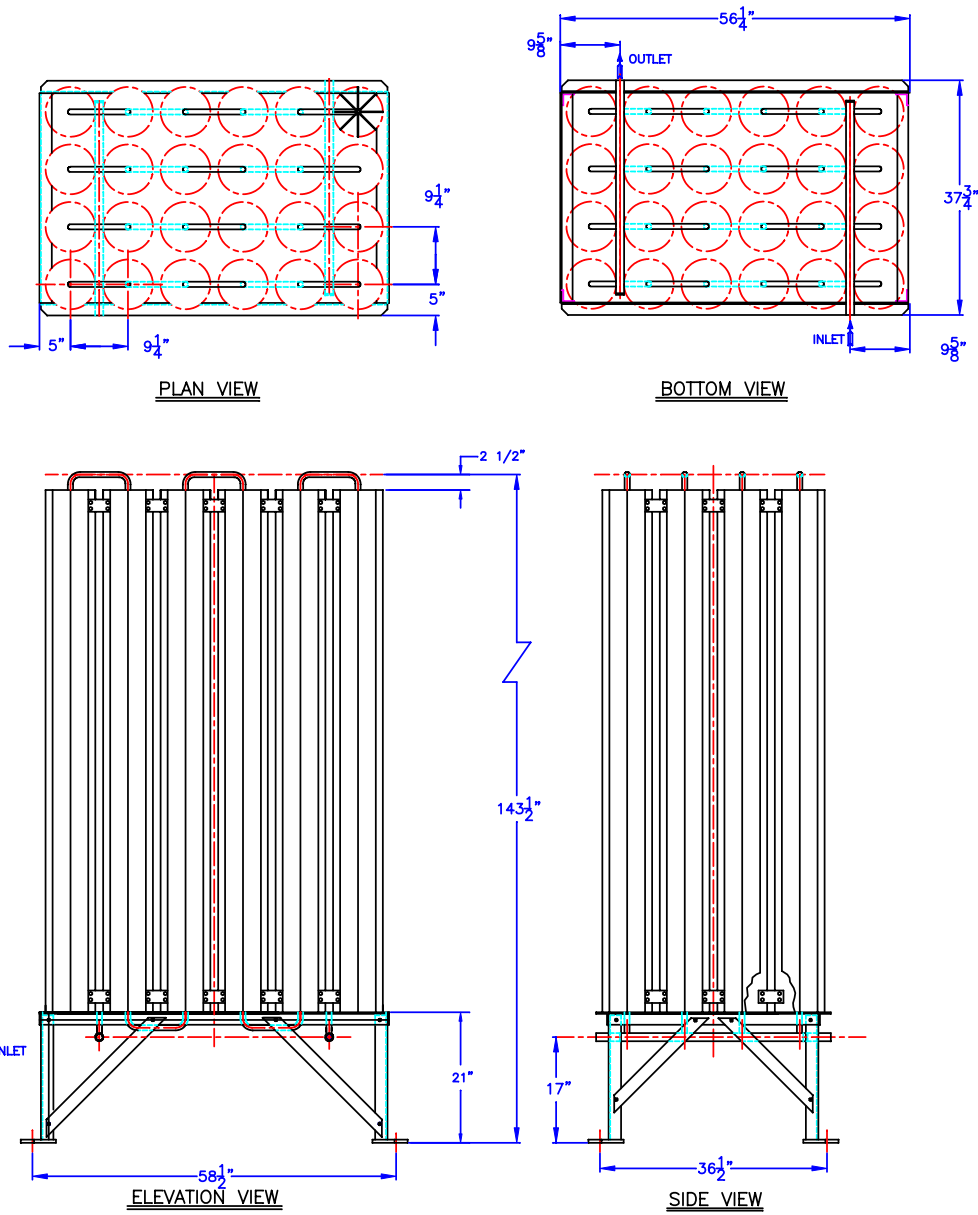
Standard Gap Vaporizer Drawings - A20SS-9.3



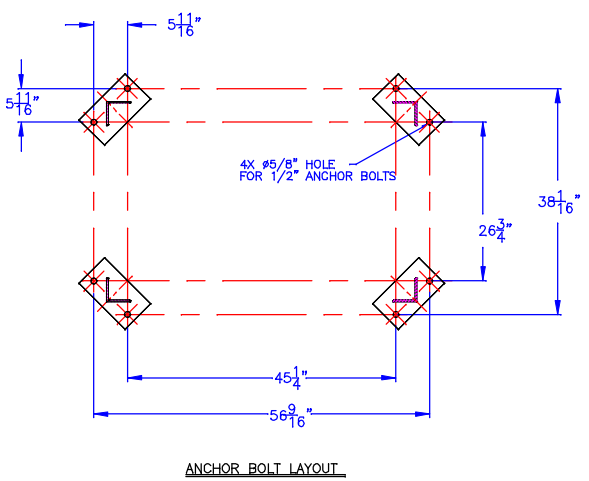
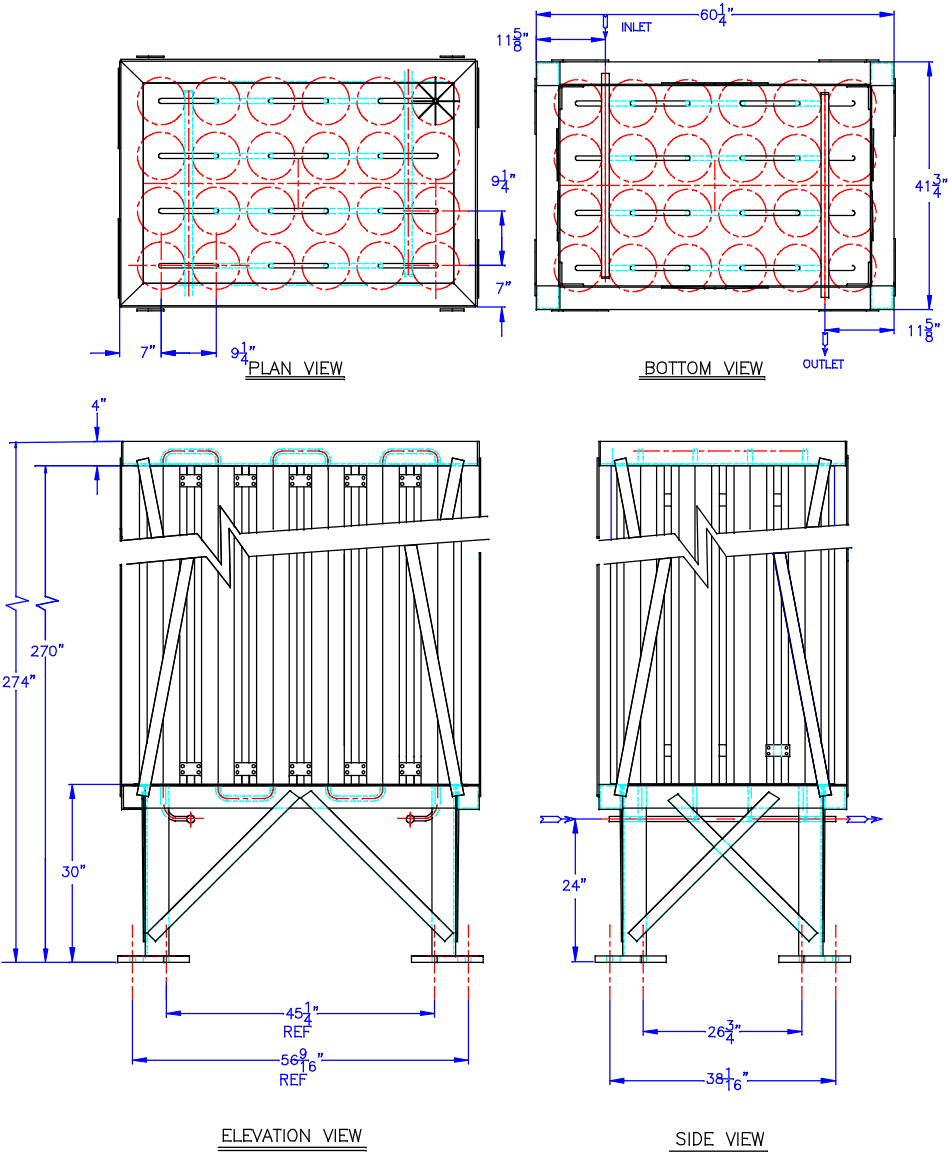
Standard Gap Vaporizer Drawings - A24



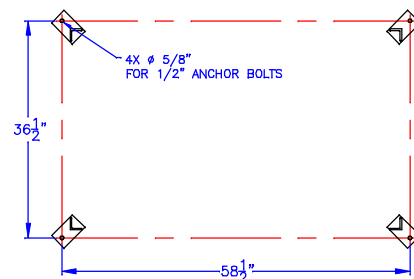
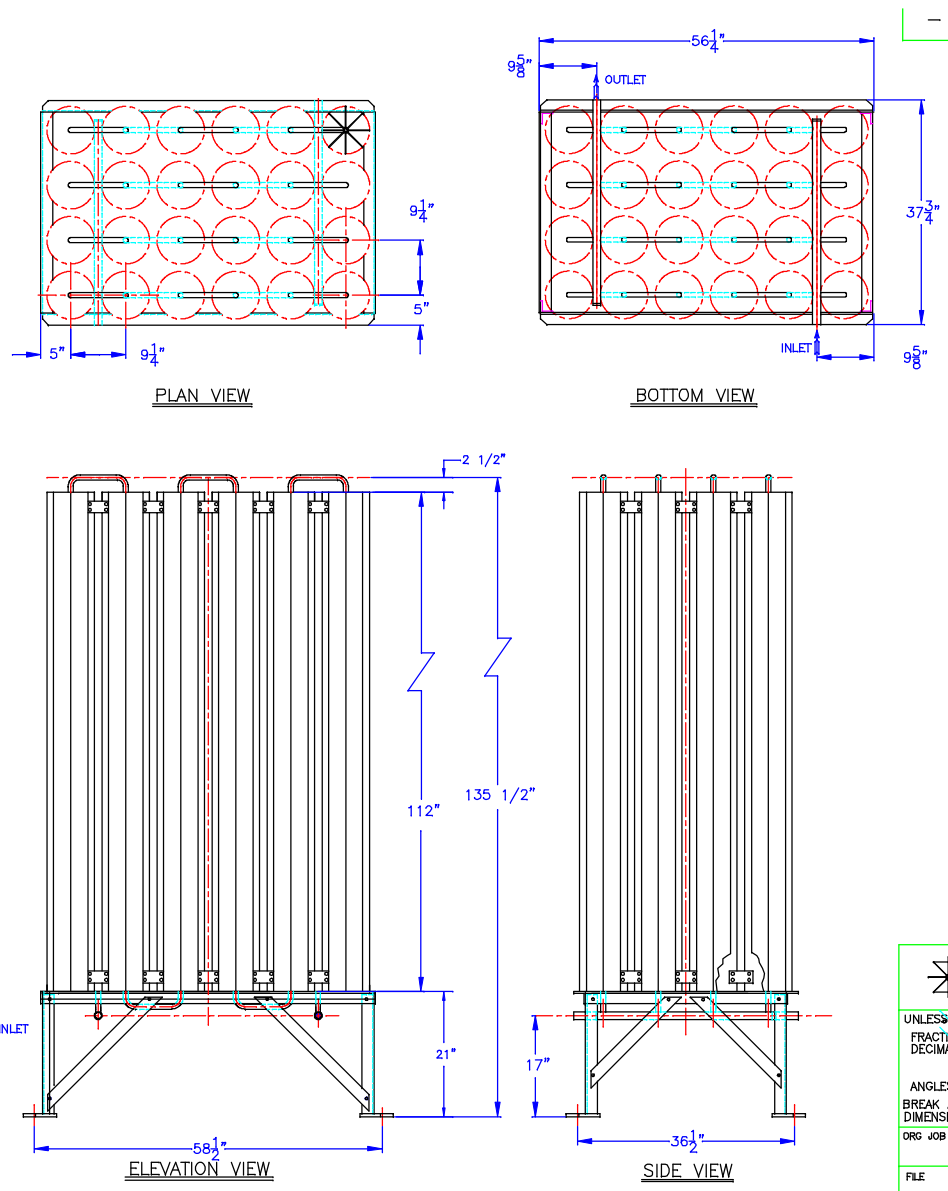
Standard Gap Vaporizer Drawings - A24-10



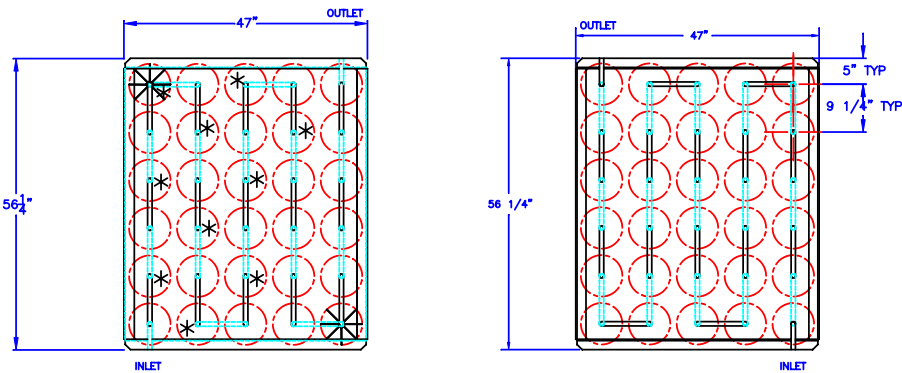
Standard Gap Vaporizer Drawings - A24-20



Standard Gap Vaporizer Drawings - A24SS-9.3

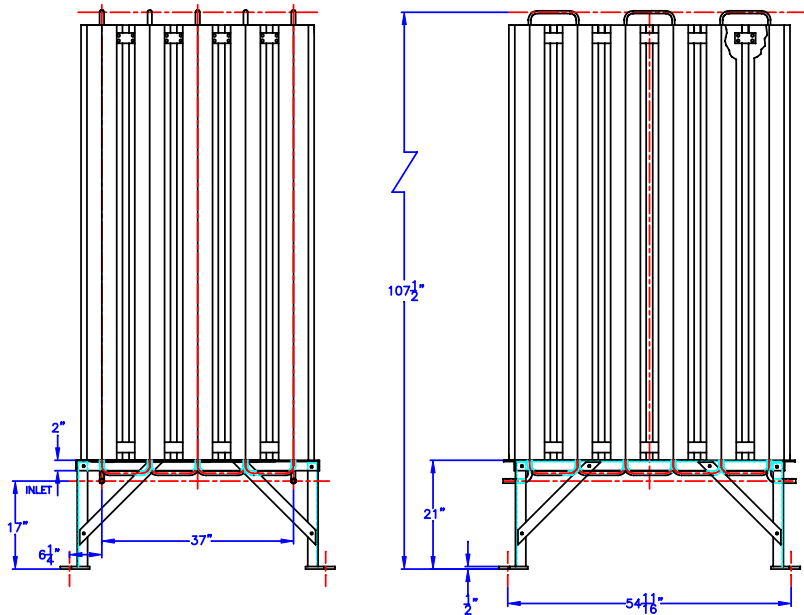


Standard Gap Vaporizer Drawings - A30



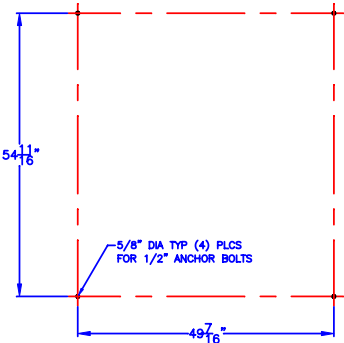
PLAN VIEW

BOTTOM VIEW



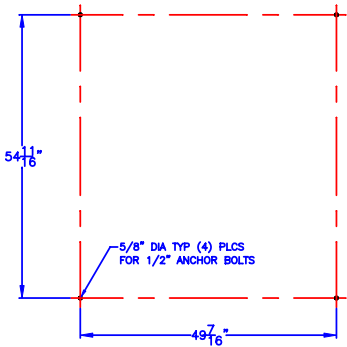
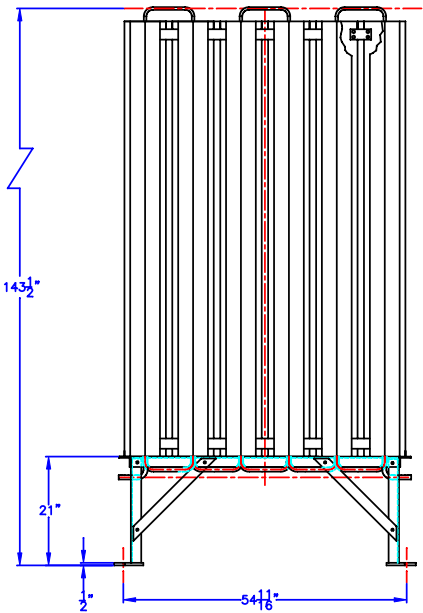
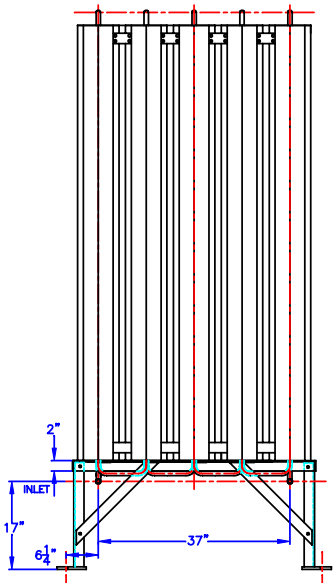
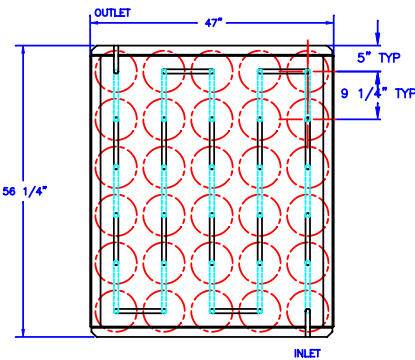
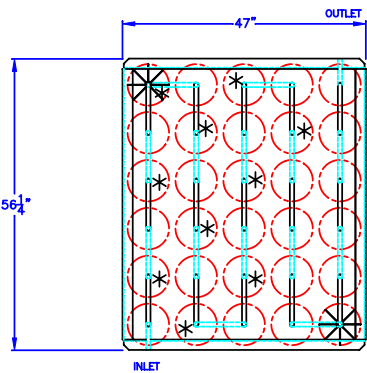
ELEVATION VIEW

SIDE VIEW

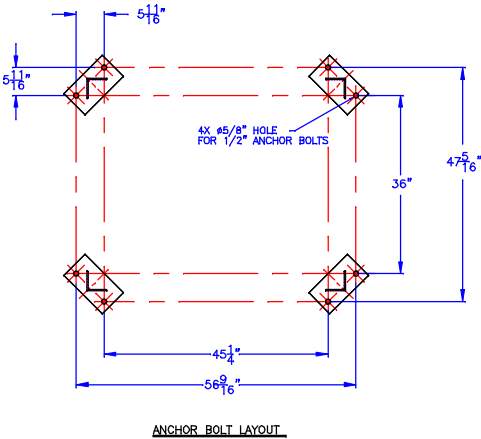
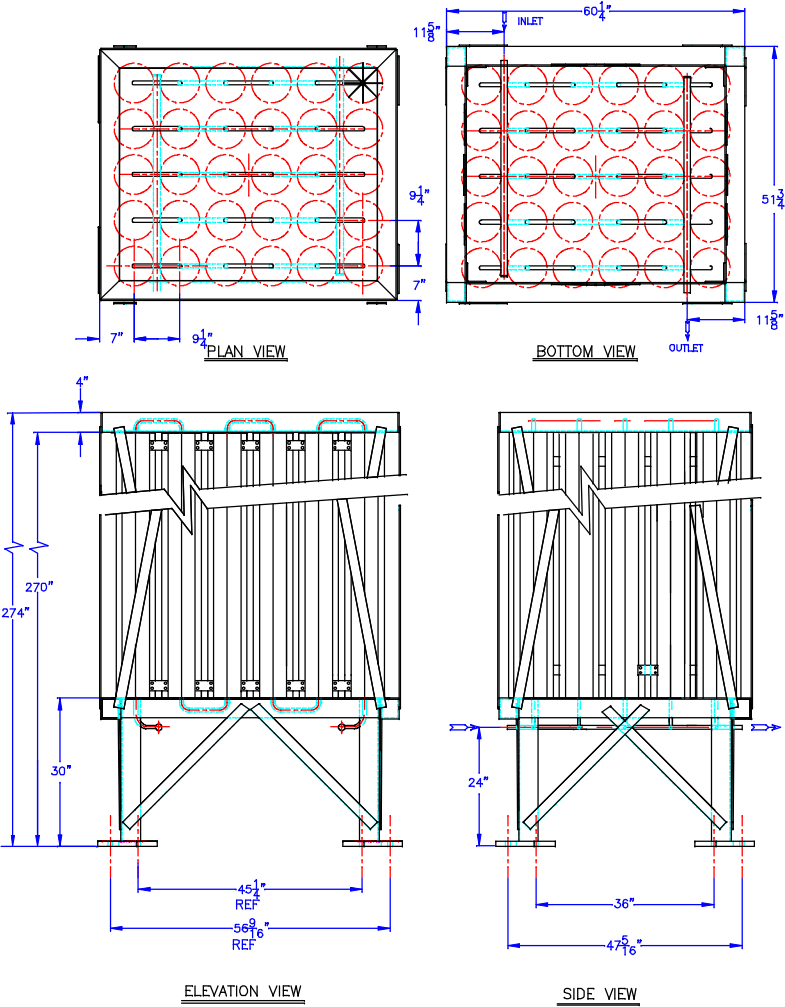


ANCHOR BOLT LAYOUT

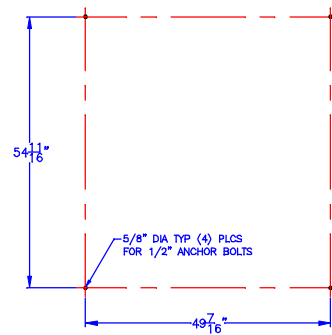
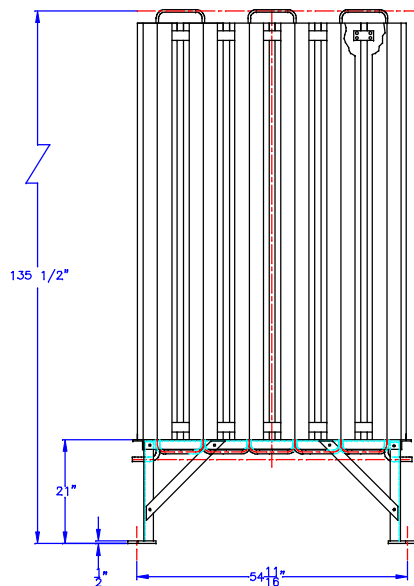
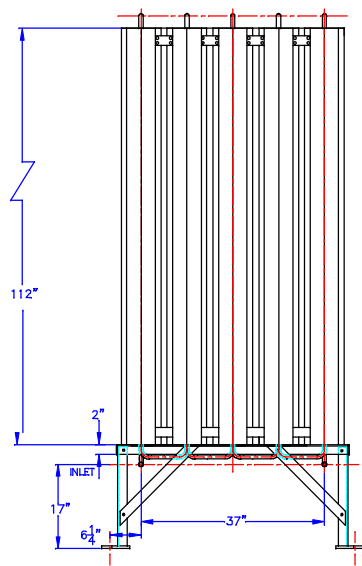
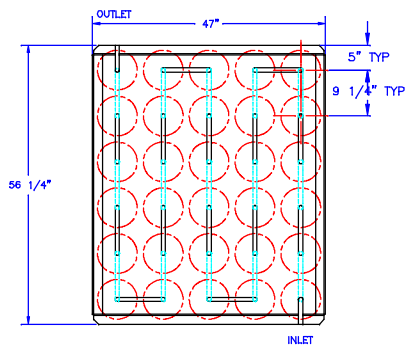
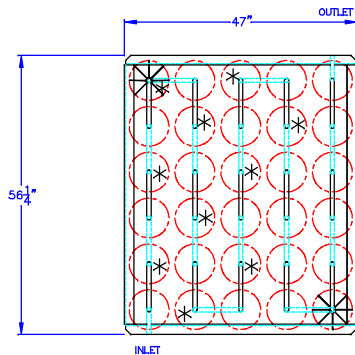
Standard Gap Vaporizer Drawings - A30-10



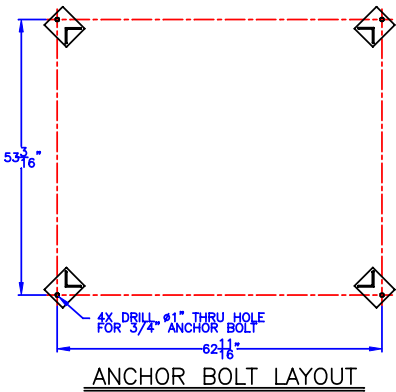
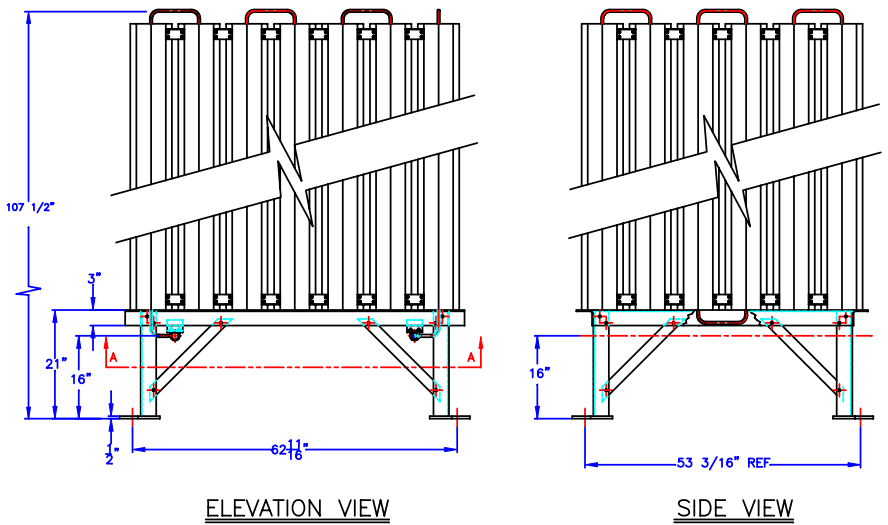
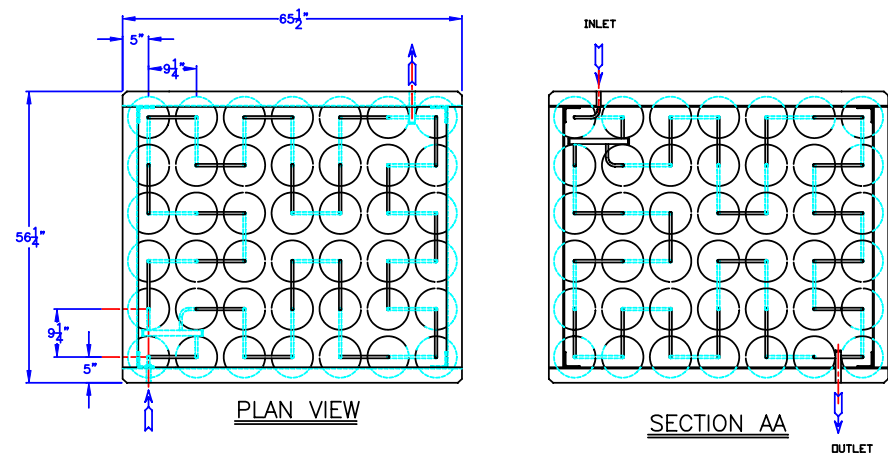
Standard Gap Vaporizer Drawings - A30-20



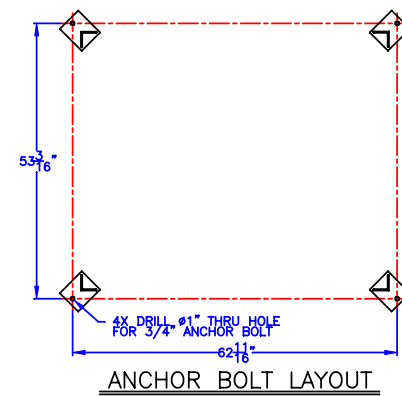
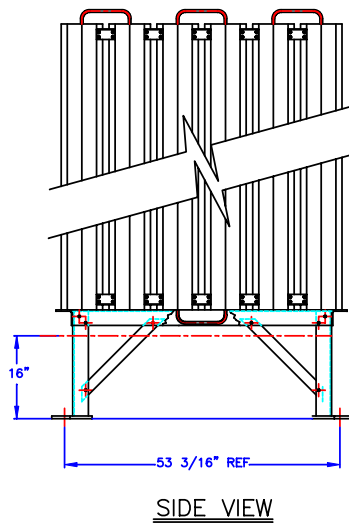
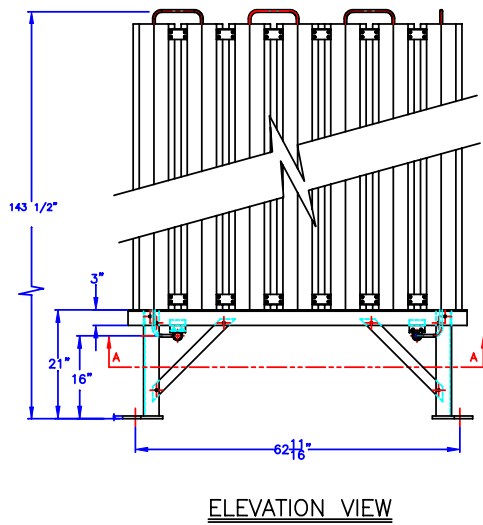
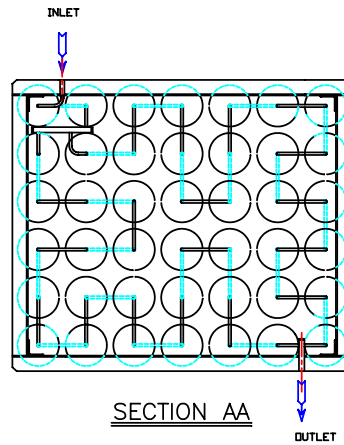
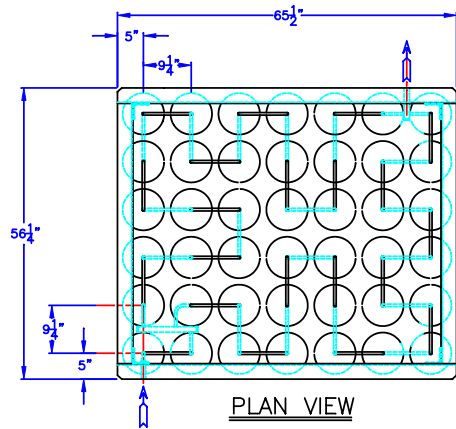
Standard Gap Vaporizer Drawings - A30SS-9.3



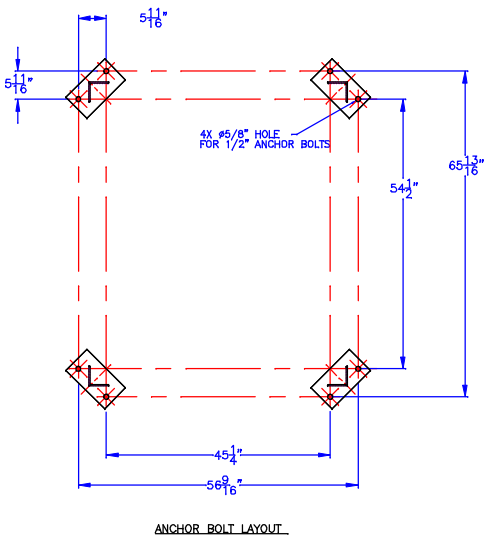
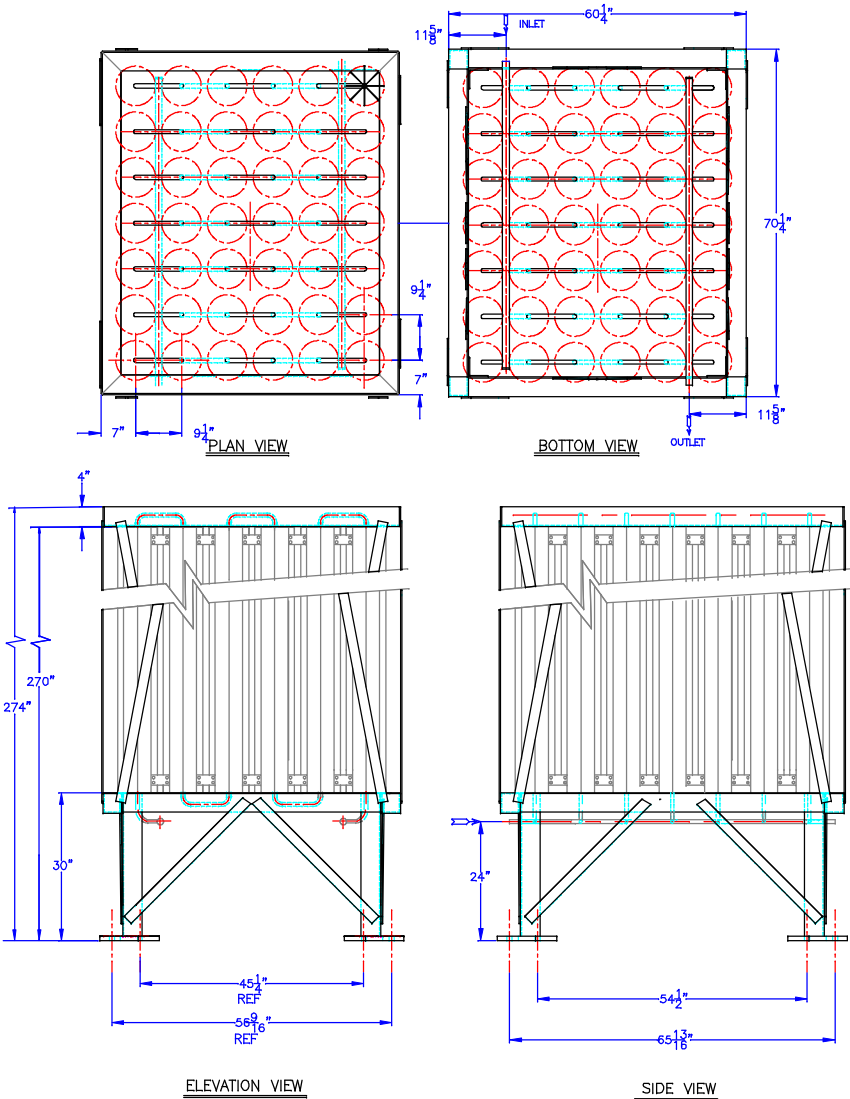
Standard Gap Vaporizer Drawings - A42



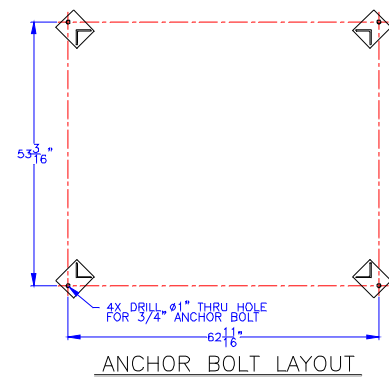
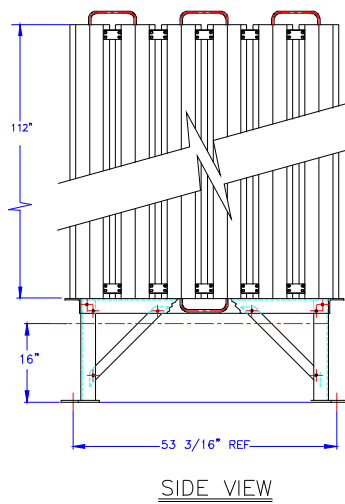
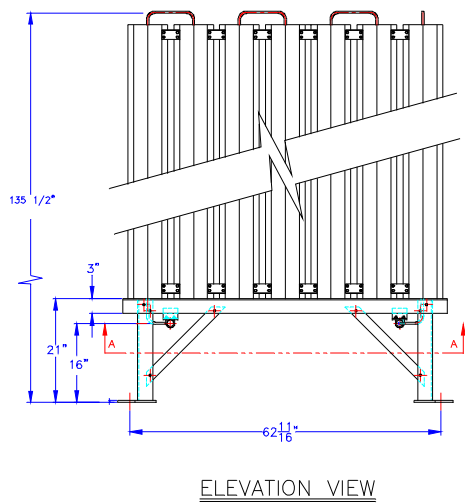
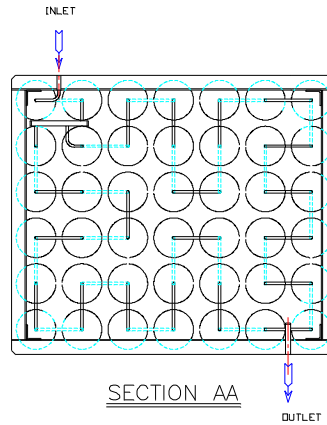
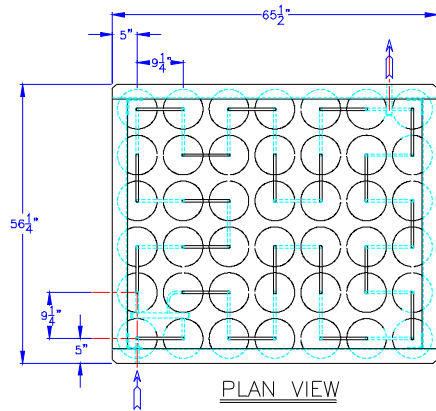
Standard Gap Vaporizer Drawings - A42-10



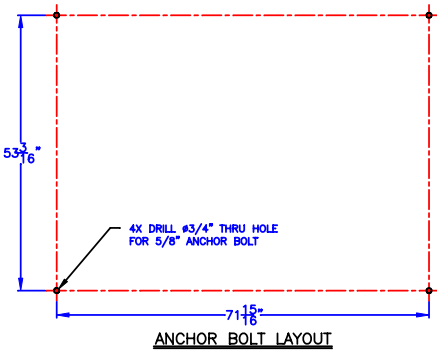
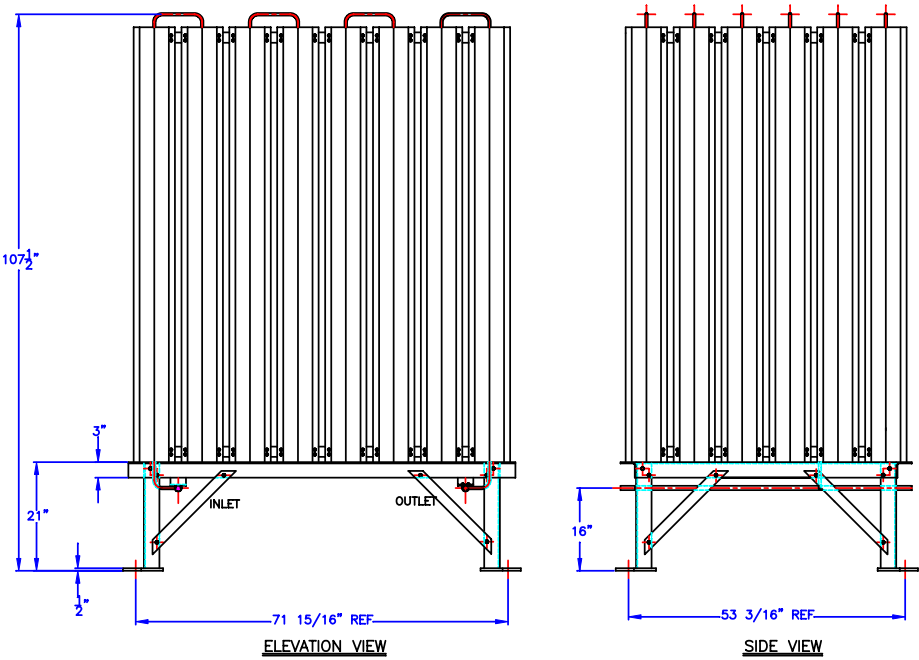
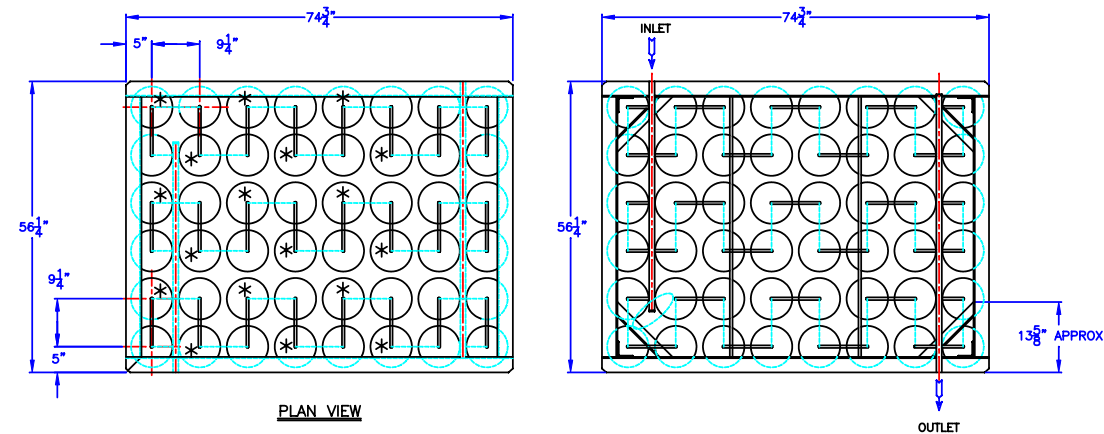
Standard Gap Vaporizer Drawings - A42-20



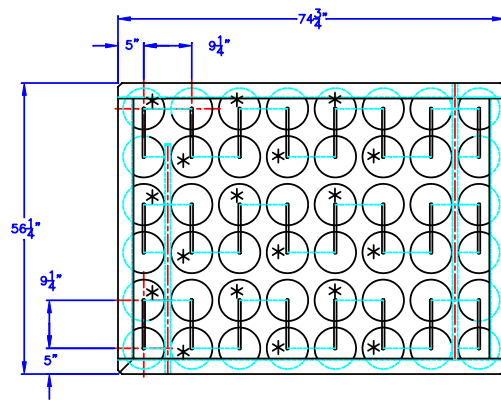
Standard Gap Vaporizer Drawings - A42SS-9.3



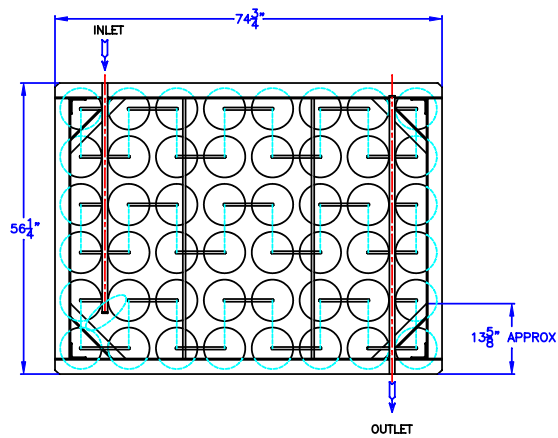
Standard Gap Vaporizer Drawings - A48



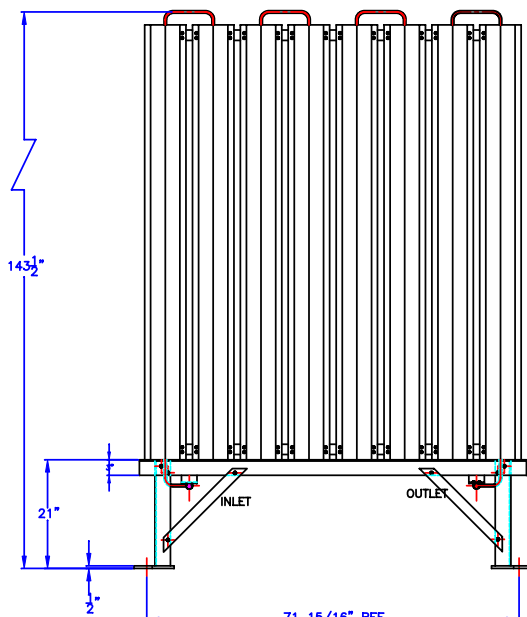
Standard Gap Vaporizer Drawings - A48-10



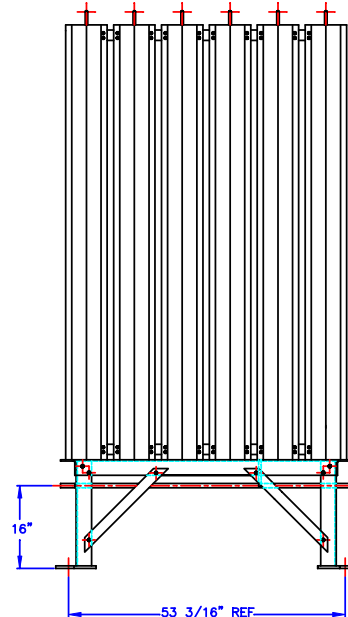
PLAN VIEW



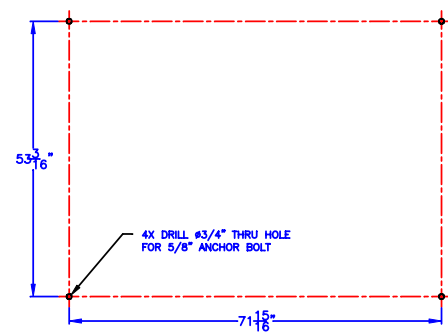
OUTLET



ELEVATION VIEW

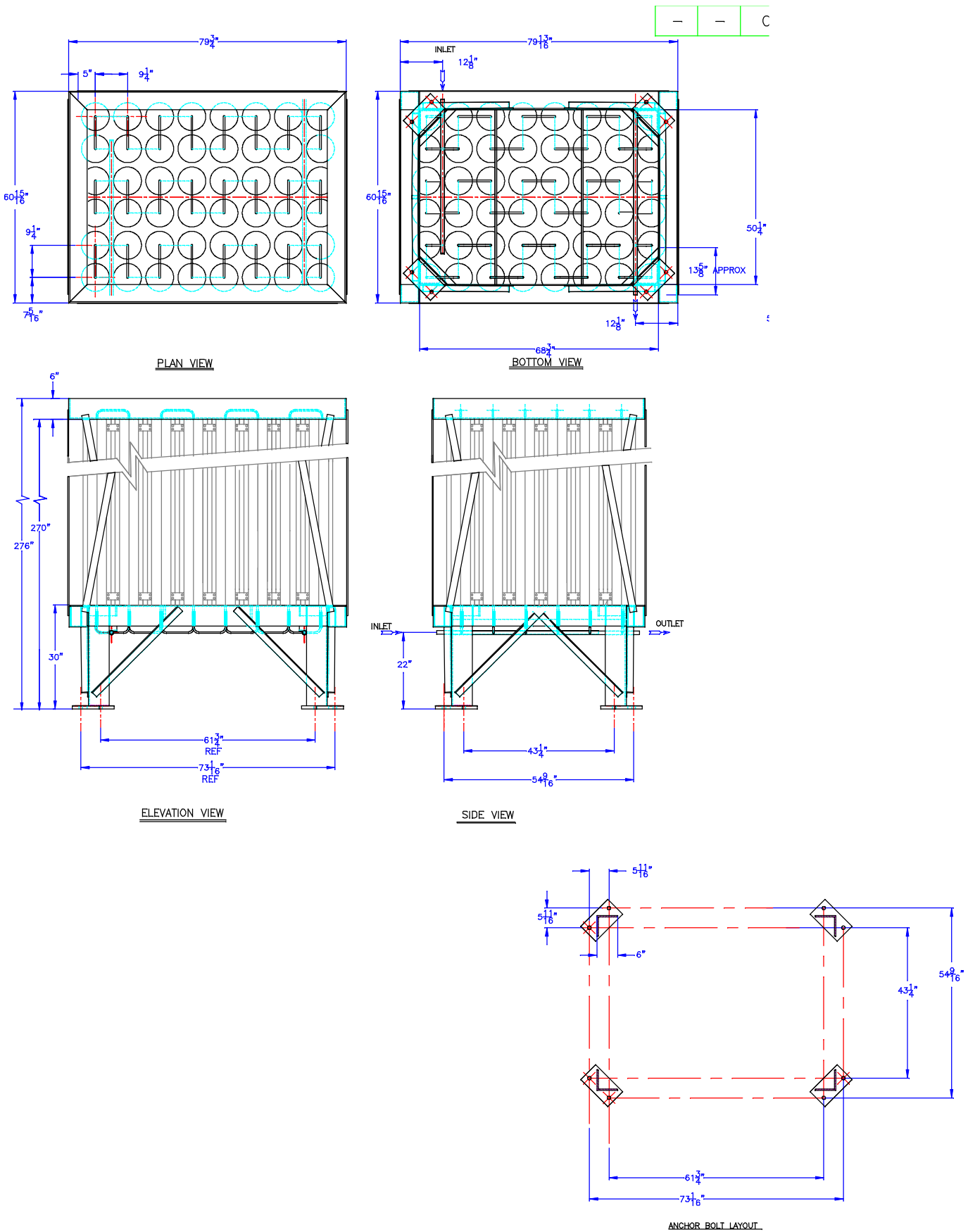


SIDE VIEW

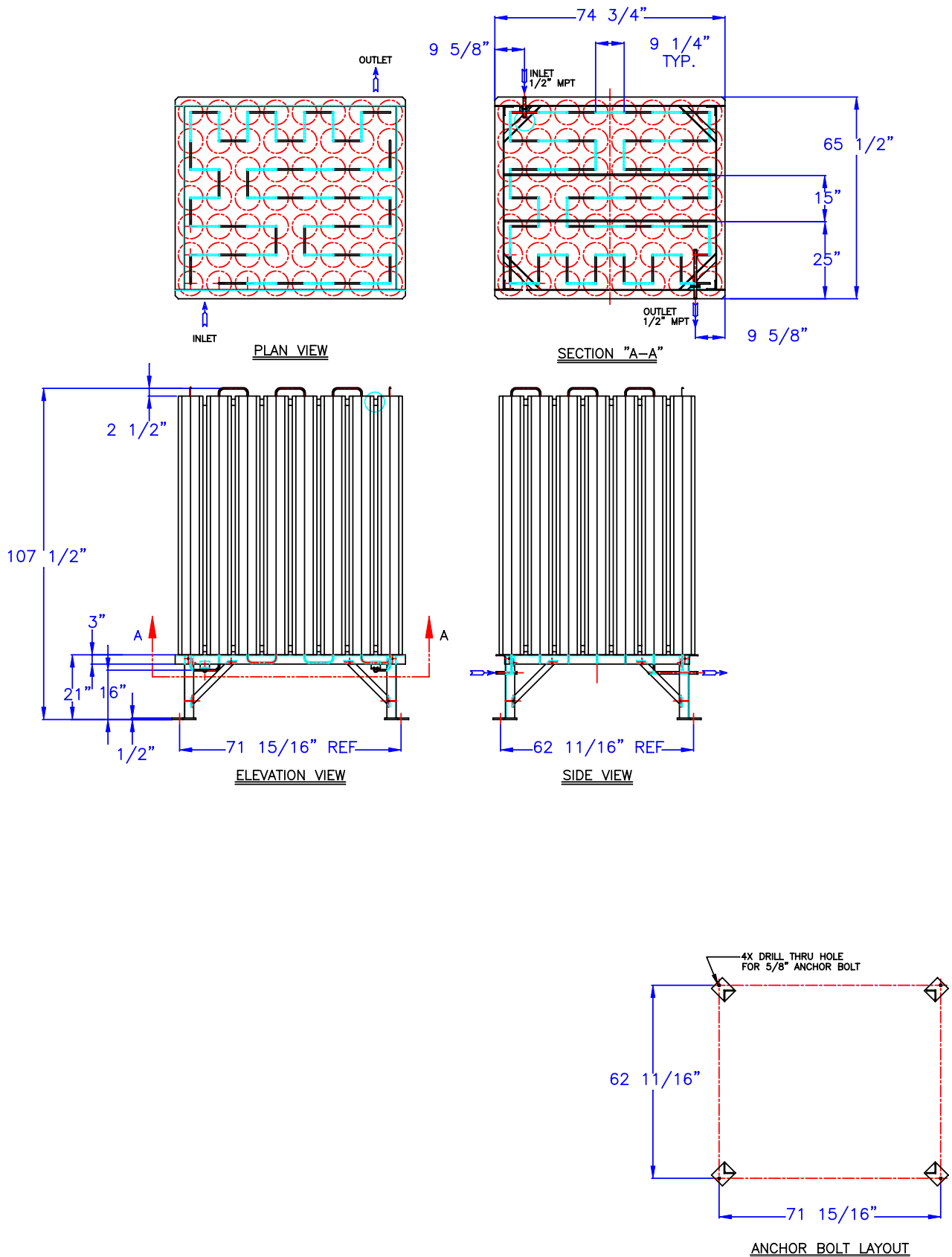


ANCHOR BOLT LAYOUT

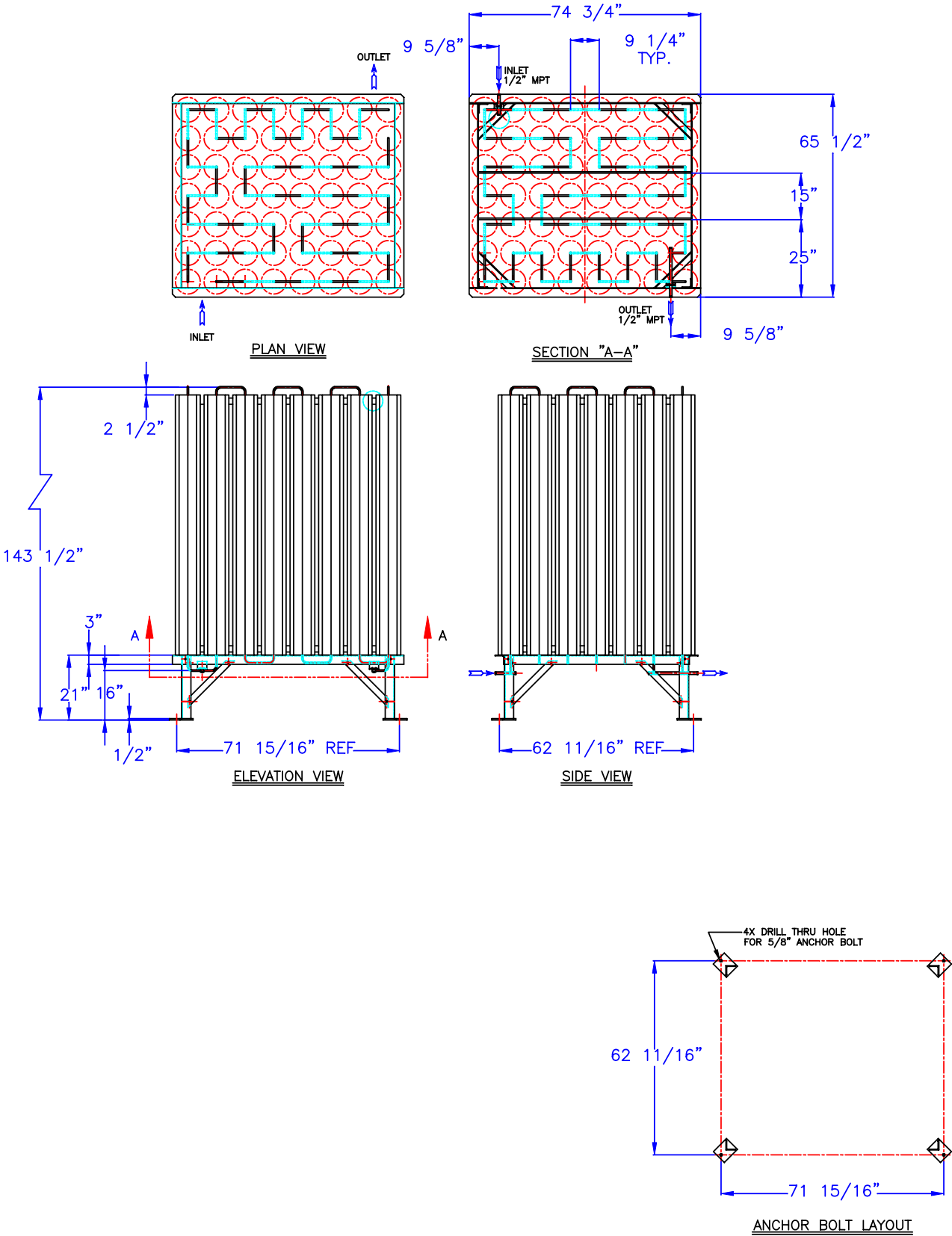
Standard Gap Vaporizer Drawings - A48-20



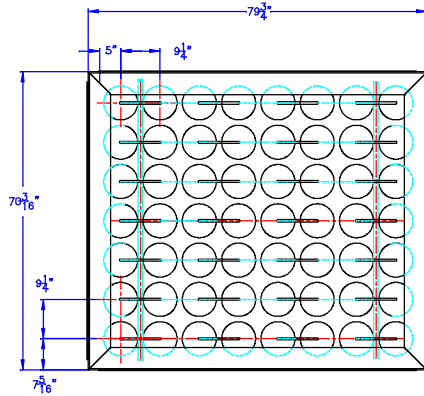
Standard Gap Vaporizer Drawings - A56



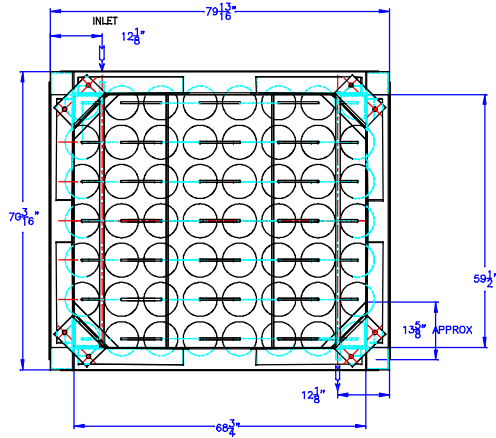
Standard Gap Vaporizer Drawings - A56-10



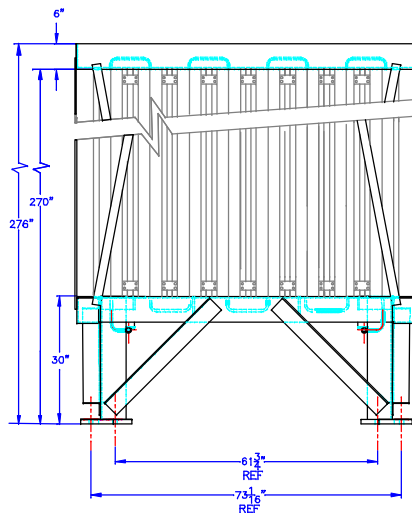
Standard Gap Vaporizer Drawings - A56-20



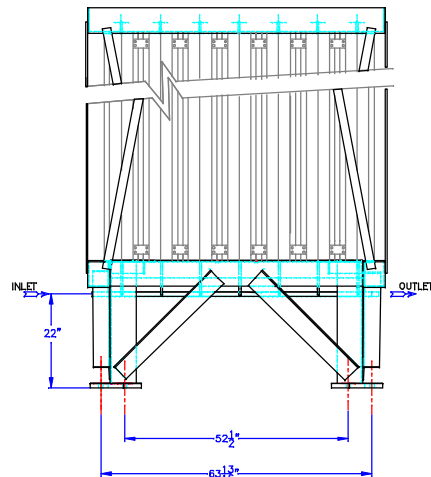
PLAN VIEW



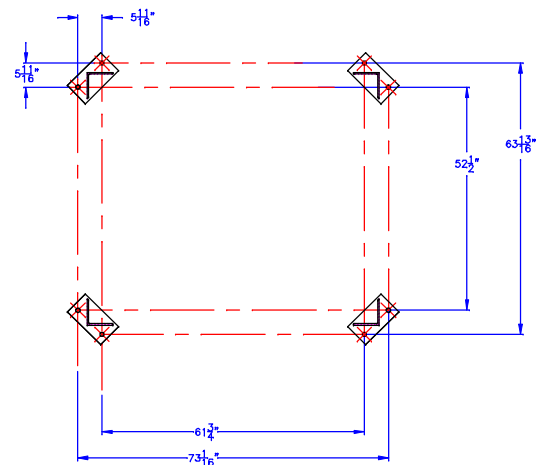
BOTTOM VIEW



ELEVATION VIEW

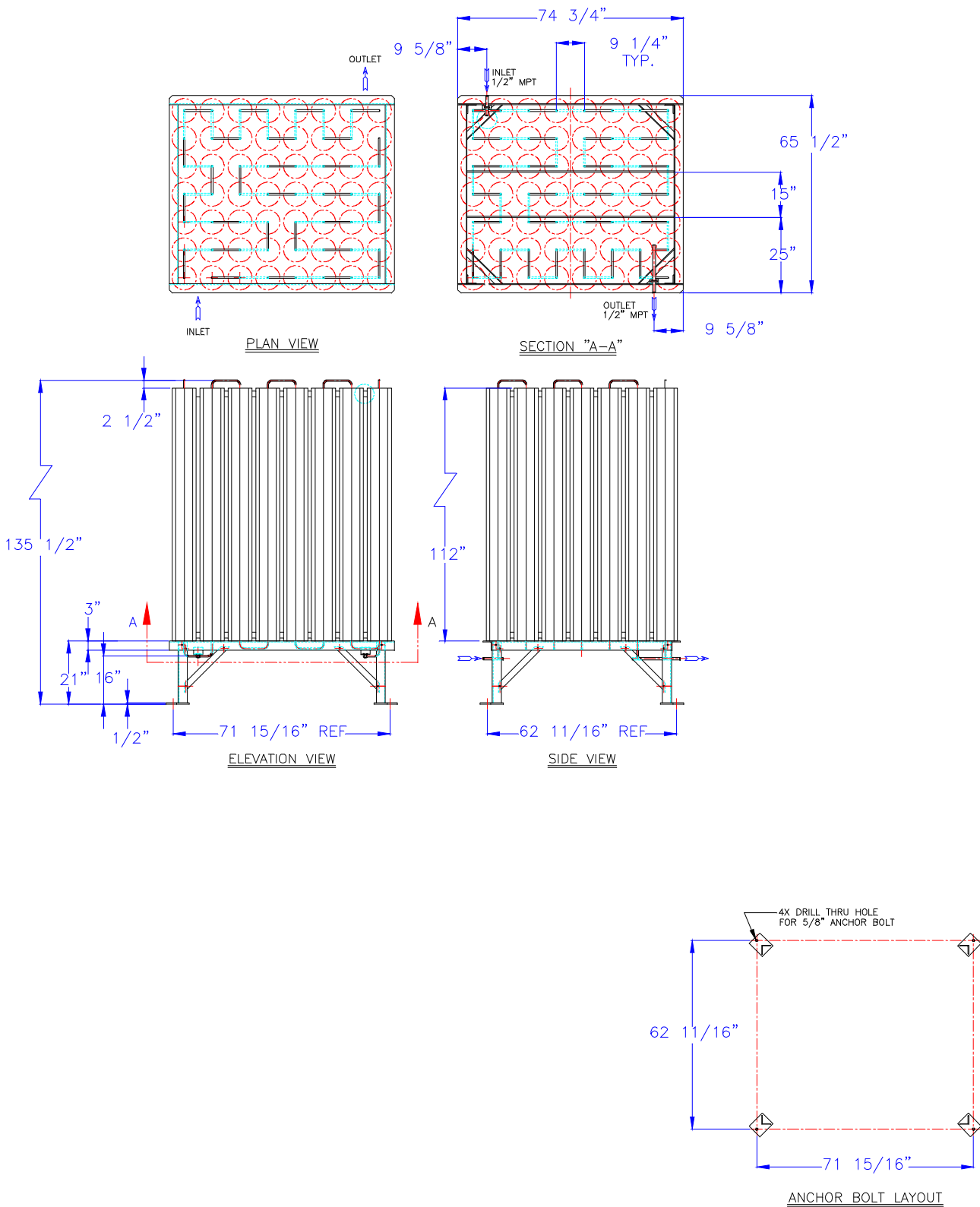


SIDE VIEW

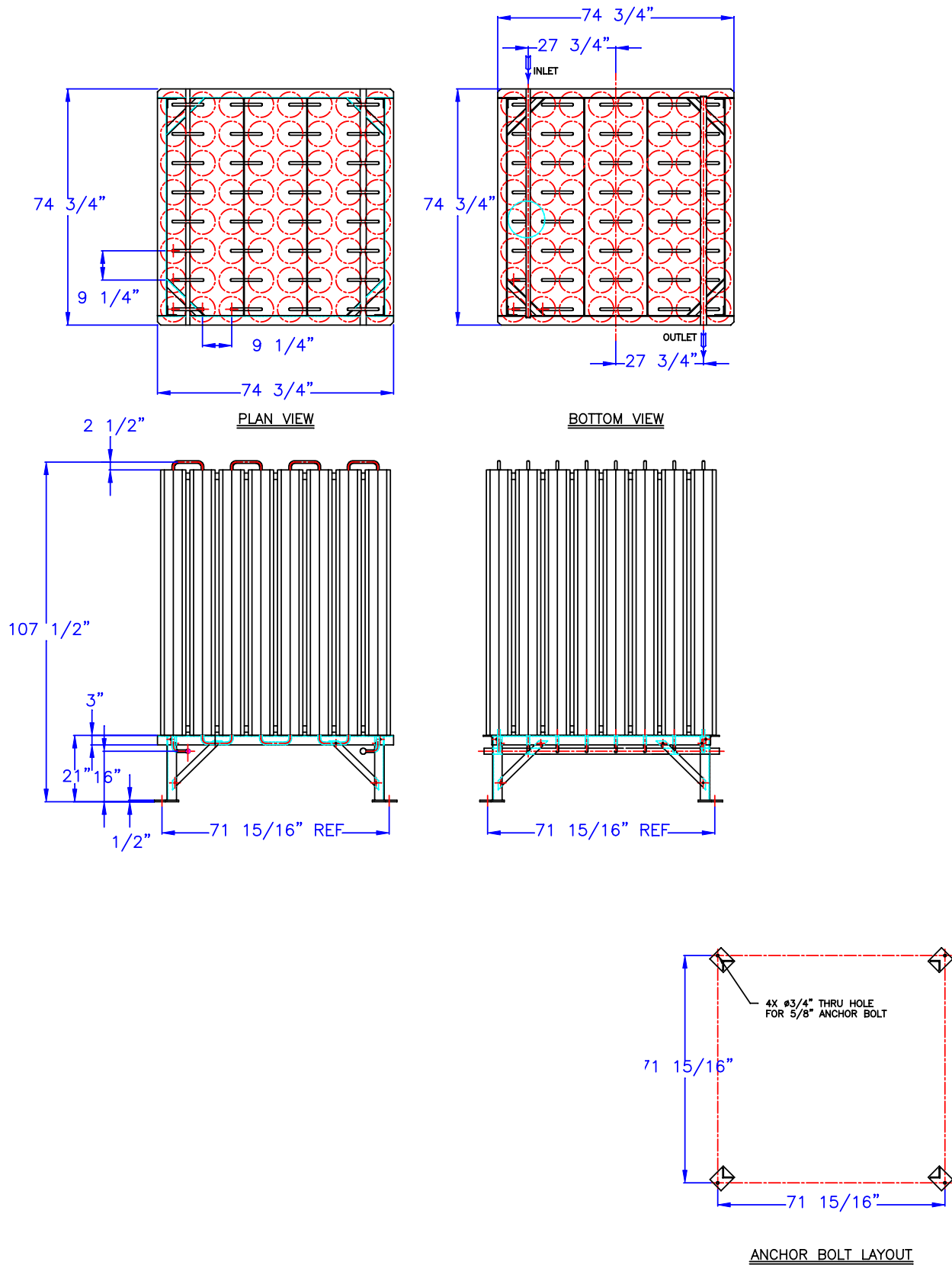


ANCHOR BOLT LAYOUT

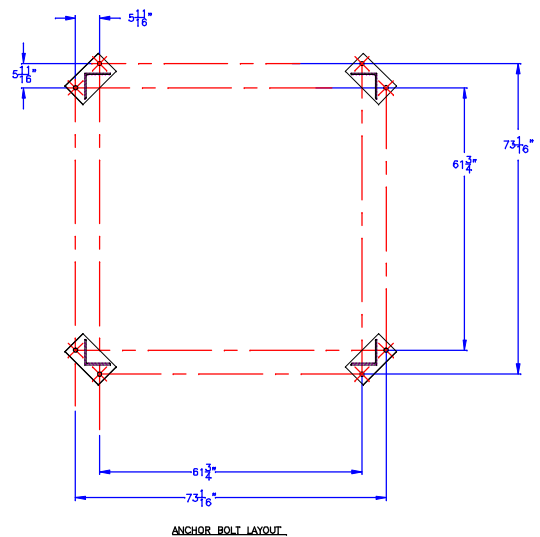
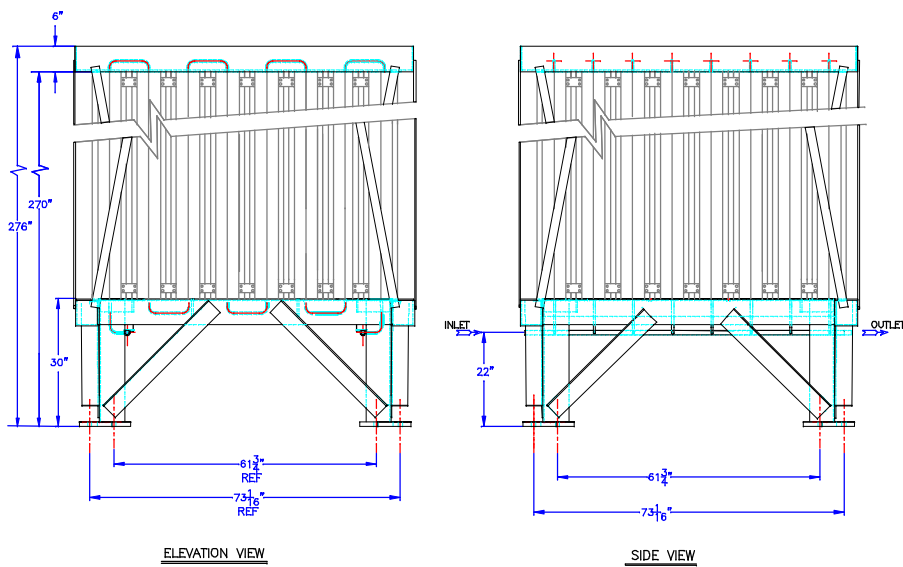
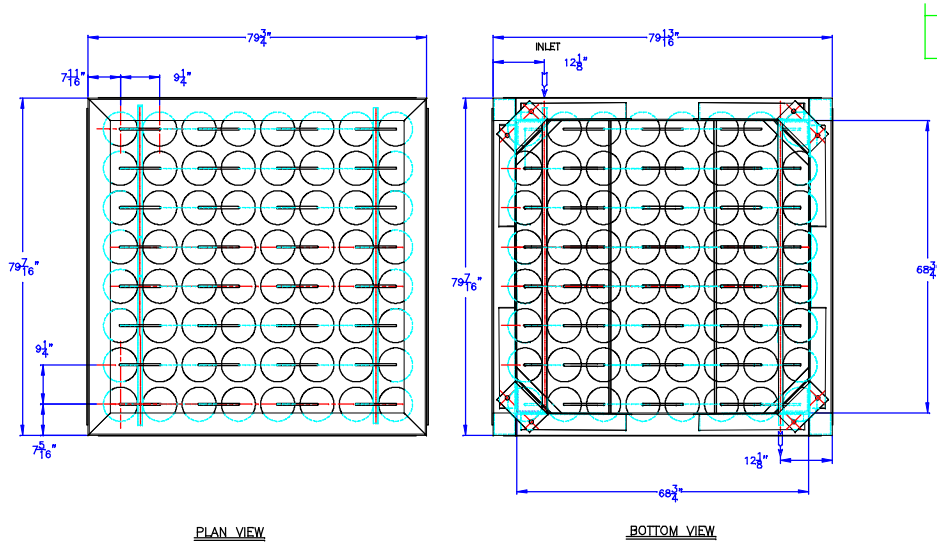
Standard Gap Vaporizer Drawings - A56SS-9.3



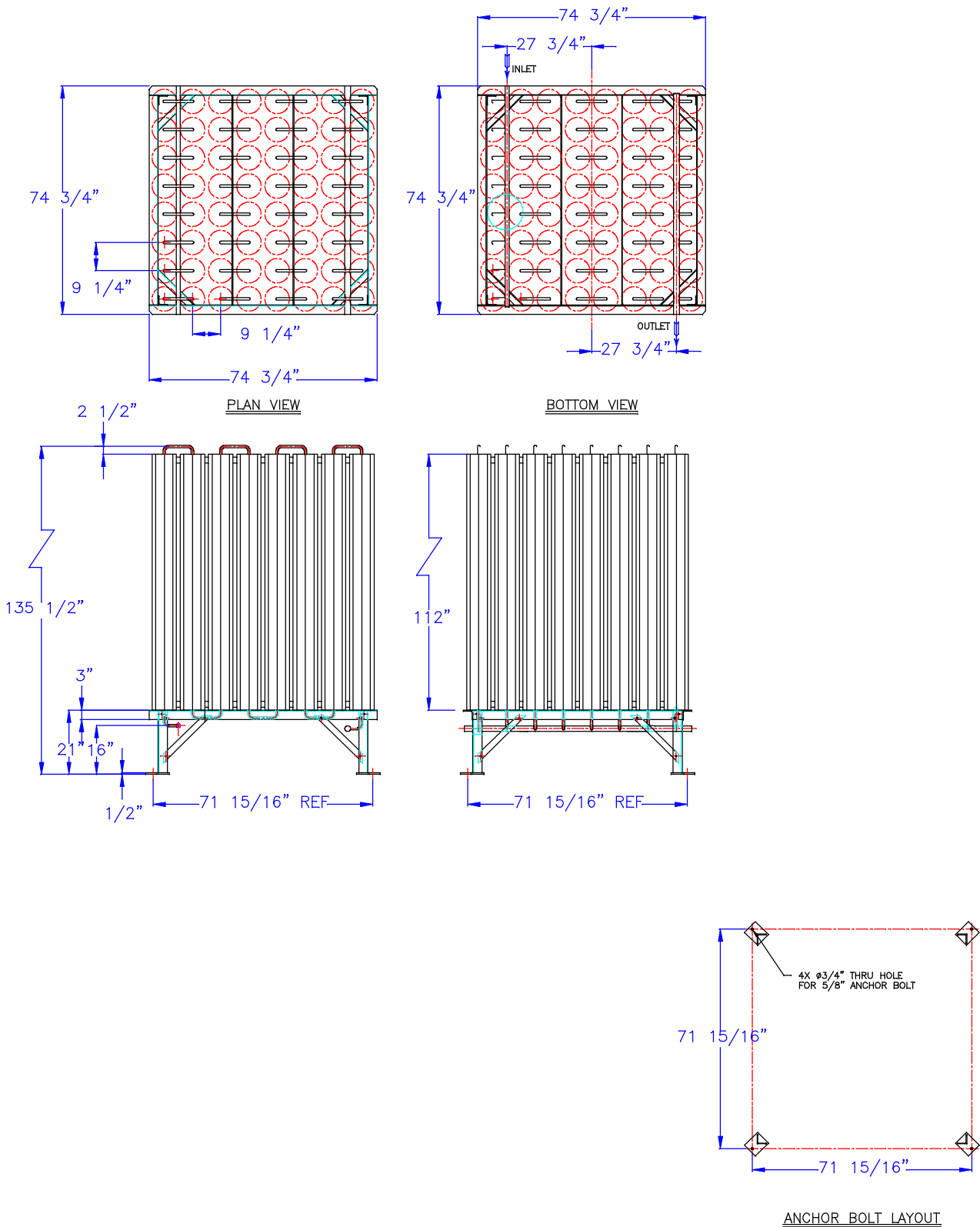
Standard Gap Vaporizer Drawings - A64



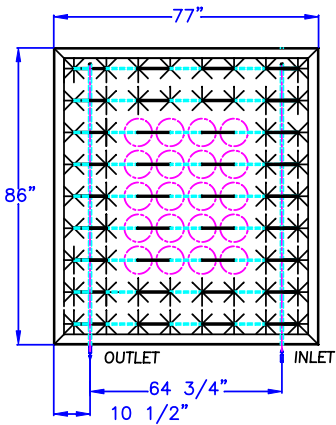
Standard Gap Vaporizer Drawings - A64-20



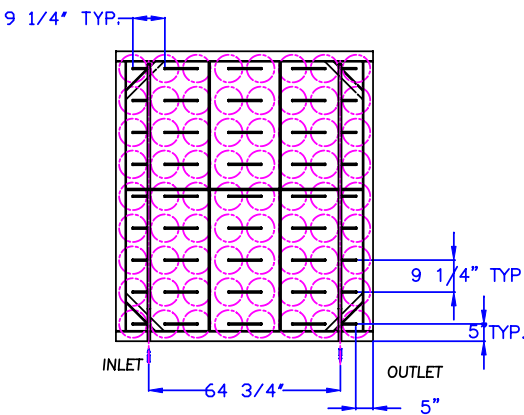
Standard Gap Vaporizer Drawings - A64SS-9.3



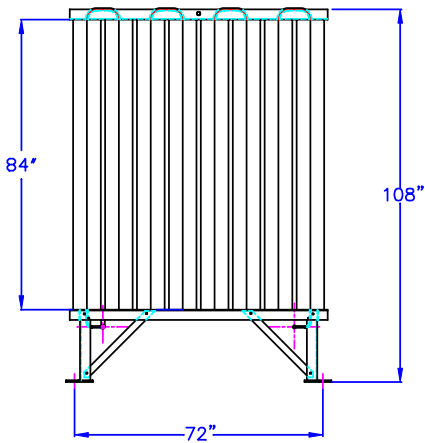
Standard Gap Vaporizer Drawings - A72



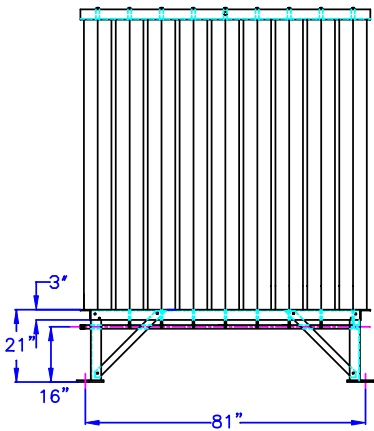
PLAN VIEW



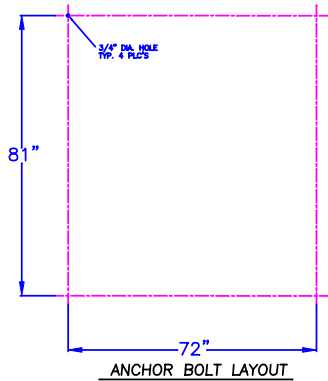
BOTTOM VIEW



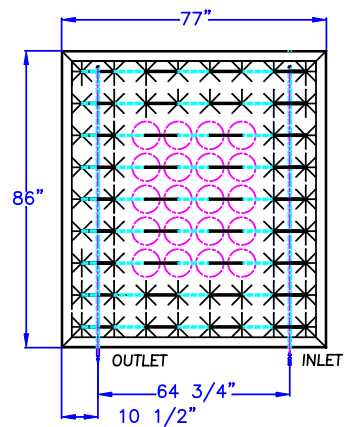
ELEVATION VIEW



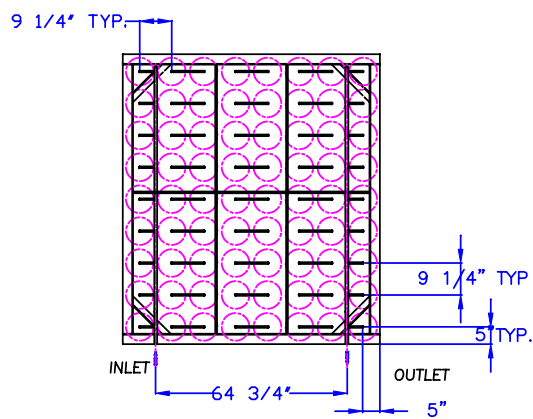
SIDE VIEW



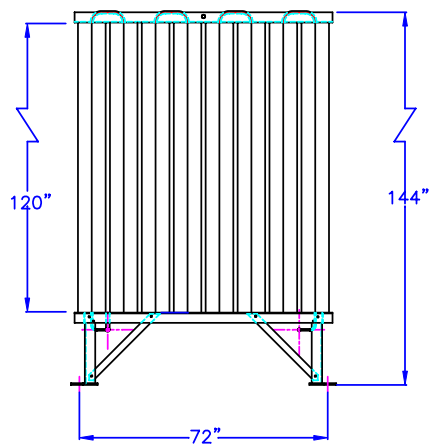
Standard Gap Vaporizer Drawings - A72-10



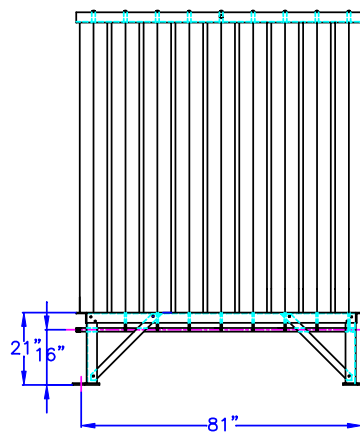
PLAN VIEW



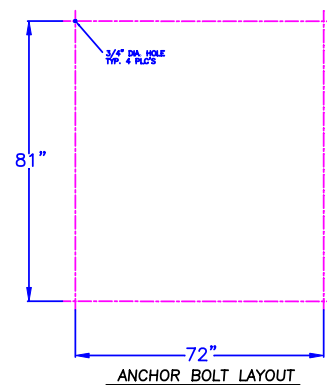
BOTTOM VIEW



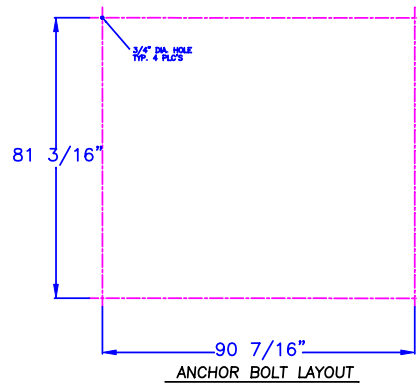
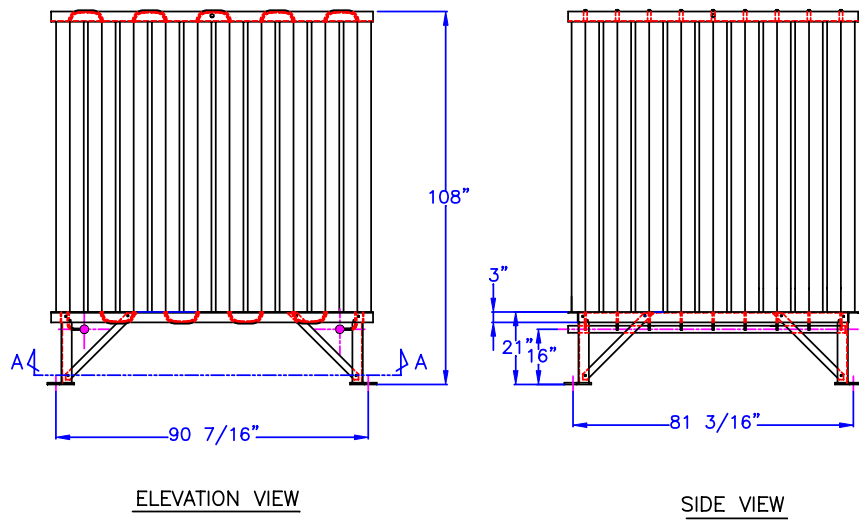
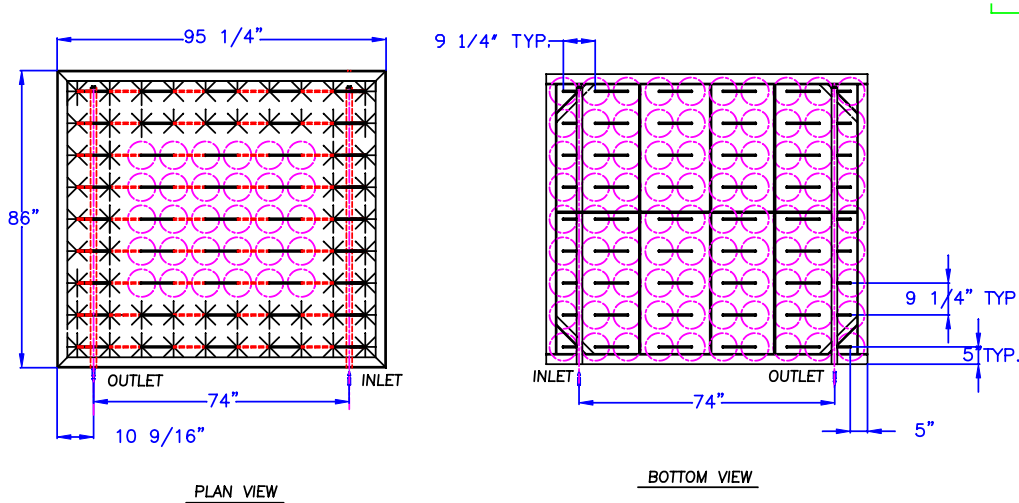
ELEVATION VIEW



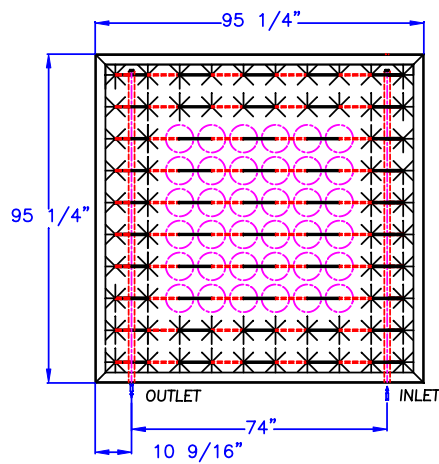
SIDE VIEW



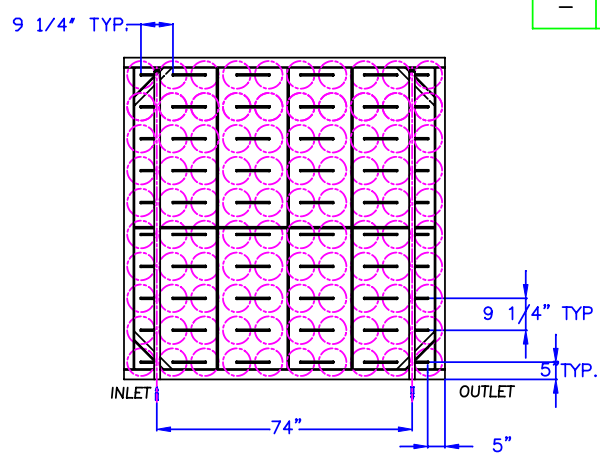
Standard Gap Vaporizer Drawings - A90



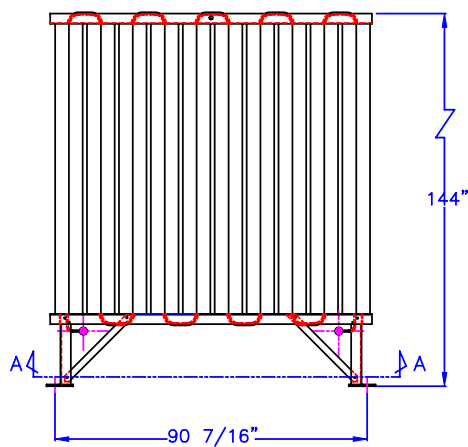
Standard Gap Vaporizer Drawings - A100-10



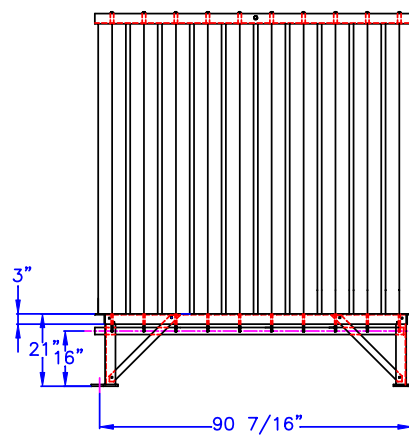
PLAN VIEW



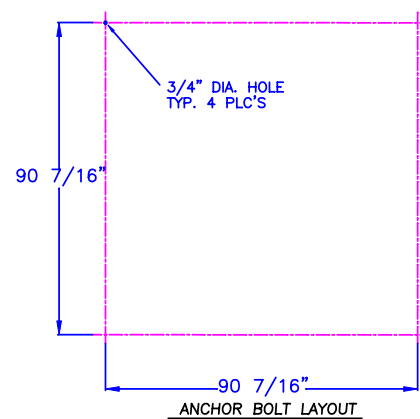
BOTTOM VIEW



ELEVATION VIEW



SIDE VIEW



ANCHOR BOLT LAYOUT

Electric Vaporizers

Application

With several styles of electrically heated systems. This includes pressure build vaporizers for maintaining tank pressure as liquid is withdrawn, process vaporizers, and trim heaters. Units can be built with aluminum as the heat transfer agent, water as the heat transfer agent, and directly heated designs.

Features

- Replaceable heating elements
- Weatherproof cabinets
- Complete separation of electrical and plumbing systems
- Accurate temperature control
- Silicone rubber-sealed heater terminals
- Circuit breaker with door interlock
- High-temperature limit protection on each heater segment
- Capacities to 200 KW in a single cabinet
- Pilot light indicators

Ordering Information

Model No (240 / 480 volts)	Kilowatts	He	N2, O2, Ar	CO2
		SCFH	SCFH	lbs./hr
MV-6	8-10	to 2,800	to 1,300	to 150
240/480C-15-.5-CO2	15	7,150	3,450	375
240/480C-30-.5-CO2	30	14,300	6,900	750
240/480C-45-.5-CO2	45	21,450	10,350	1,125
240/480C-60-.5-CO2	60	28,600	13,800	1,500
240/480C-75-.5-CO2	75	35,750	17,250	1,875
240/480C-90-.5-CO2	90	42,900	20,700	2,250
480C-105-.5-CO2	105	50,050	24,150	2,625
480C-120-.5-CO2	120	57,200	27,600	3,000
480C-135-.5-CO2	135	64,350	31,050	3,375
480C-150-.5-CO2	150	71,500	34,500	3,750
480C-165-.5-CO2	165	78,650	37,950	4,125
480C-180-.5-CO2	180	85,800	41,400	4,500

Options

- Low outlet gas temperature cut off systems – Electric Solenoid valves
- Custom inlet and outlet connections or fittings
- Temperature indicating controller
- Automatic Bypass
- Special temp controls from -305°F to +600°F
- Special non-standard voltages & frequencies



**Direct To Process
Cexiletric Vaporizer**

Electric Pressure Build Vaporizers

Features

- Complete separation of electrical and plumbing systems
- Accurate temperature control
- Silicone rubber-sealed heater terminals
- Circuit breaker disconnect with door interlock
- High-temperature limit protection on each heater segment
- Capacities to 90 KW in a single cabinet
- NEMA 4 electrical enclosure
- Pilot light indicators
- Pressure switch
- Solenoid valve or pneumatic actuated ball valve

Ordering Information

Specifications			
Model	Kilowatts	N2, O2, Ar	CO2
		SCFH	LBS / Hour
MPBU-6	8-10	2,000	to 170
PBU240/480C-15-.5	15	1,750	200
PBU240/480C-15-.5-XX-DC	15	3,500	400
PBU240/480C-30-.5	30	7,000	800
PBU240/480C-45-.5	45	10,500	1200
PBU240/480C-60-.5	60	14,000	1600
PBU240/480C-75-.8	75	17,500	2000
PBU240/480C-90-.5	90	21,000	2400

Advantages

- Extremely low-pressure drop
- Minimal heat input when unit non-operational
- Heater casting replaceable without breaking into fluid passages
- U.L. listed components
- No frost build-up around heater terminals

Options

- NEMA 3R electrical enclosure
- Inlet strainer
- Connection for blowdown valve
- Solid-state relay (SSR) heater drive with digital PID controller
- Dry contact terminals for indication and remote switching
- Custom inlet and outlet connections or fittings
- Temperature indicating controller
- Alarms to indicate low pressure or temperature
- Special temperature controls from -305°F to +600°F
- Special non-standard voltages & frequencies up to 575V
- UL-508 electrical cabinets, CL1, DIV 2 explosion proof purge systems
- International compliance capability



Dual Unit: Direct To Process And Pressure Build Vaporizer In One

Electric Pressure Build Vaporizers

Electric Pressure Build Vaporizer - Standard Ball Valve Flow Control		
Model No	N2, O2, Ar SCFH	CO2 / N2O lbs./hr
480VAC Units		
MPBU-6	1,600	170
PBU480C-10.5-1.0-N2-TRI	4,000	-
PBU480C-15-1.0-N2-TRI	4,500	-
PBU480C-15-.5-xxx	1,750	200
PBU480C-15-.5-xxx-DC	3,500	400
PBU480C-30-.5-xxx	7,000	800
PBU480C-45-.5-xxx	10,500	2,000
PBU480C-60-.5-xxx	14,000	2,400
PBU480C-75-.5-xxx	17,500	1,200
PBU480C-90-.5-xxx	21,000	1,600
PBU480C-105-.5-xxx	24,500	2,800
PBU480C-120-.5-xxx	28,000	3,200
240VAC Units		
MPBU-6	1,600	170
PBU240C-8-1.0-N2-TRI	3,500	200
PBU240C-11.3-1.0-N2-TRI	4,500	400
PBU240C-15-.5-xxx	1,750	800
PBU240C-15-.5-xxx-DC	3,500	1,200
PBU240C-30-.5-xxx	7,000	1,600
PBU240C-45-.5-xxx	10,500	100
PBU240C-60-.5-xxx	14,000	
PBU575C-5.0-1.5-N2-DuCo-CRN/CSA	-	

Dual Units - Pressure Build / Vaporizer				
Model No	N2, O2, Ar		CO2 / N2O	
	DtP SCFH	PB SCFH	DtP lbs./hr.	PB lbs./ hr.
480VAC Units				
480C-15-.5-xxx-LTCO/PBU	1,300	3,500	170	200
480C-30-.5-xxx-LTCO/PBU	3,450		375	
480C-45-.5-xxx-LTCO/PBU	6,900		750	
480C-60-.5-xxx-LTCO/PBU	10,350		1,125	
480C-75-.5-xxx-LTCO/PBU	13,800		1,500	
480C-90-.5-xxx-LTCO/PBU	17,250		1,875	
480C-105-.5-xxx-LTCO/PBU	20,700		2,250	
480C-120-.5-xxx-LTCO/PBU	24,150		2,625	
480C-135-.5-xxx-LTCO/PBU	27,600		3,000	
480C-150-.5-xxx-LTCO/PBU-DC	31,050	7,000	3,375	400
480C-165-.5-xxx-LTCO/PBU-DC	34,500		3,750	
240VAC				
Units240C-15-.5-xxx-LTCO/PBU	1,300	3,500	170	200
240C-30-.5-xxx-LTCO/PBU	3,450		375	
240C-45-.5-xxx-LTCO/PBU	6,900		750	
240C-60-.5-xxx-LTCO/PBU	10,350		1,125	
240C-75-.5-xxx-LTCO/PBU	13,800		1,500	

Electric Pressure Build Vaporizer - Extended Stem Ball Valve Flow Control		
Model No	N2, O2, Ar SCFH	CO2 / N2O lbs./hr
480VAC Units		
MPBU-6-ESBV	1,600	170
PBU480C-15-.5-xxx-ESBV	-	200
PBU480C-15-.5-xxx-DC-ESBV	3,500	400
PBU480C-30-.5-xxx-ESBV	7,000	800
PBU480C-45-.5-xxx-ESBV	10,500	1,200
PBU480C-60-.5-xxx-ESBV	14,000	1,600
PBU480C-75-.5-xxx-ESBV	17,500	2,000
PBU480C-90-.5-xxx-ESBV	21,000	2,400
PBU480C-105-.5-xxx	24,500	2,800
PBU480C-120-.5-xxx	28,000	3,200
240VAC Units		
MPBU-6-ESBV	1,600	170
PBU240C-15-.5-xxx-ESBV	-	200
PBU240C-15-.5-xxx-DC-ESBV	3,500	400
PBU240C-30-.5-xxx-ESBV	7,000	800
PBU240C-45-.5-xxx-ESBV	10,500	1,200
PBU240C-60-.5-xxx-ESBV	14,000	1,600

Triple Units - Pressure Build / Vaporizer / Gas Heater						
Model No	N2, O2, Ar			CO2 / N2O		
	DtP SCFH	PB SCFH	GH SCFH	DtP lbs./hr.	PB lbs./hr.	GH lbs./hr
480VAC Units						
480C-15-.5-xxx-LTCO/PBU/GH	1,300	3,500	1,300	170	200	170
480C-30-.5-xxx-LTCO/PBU/GH	3,450			375		
480C-45-.5-xxx-LTCO/PBU/GH	6,900			750		
480C-60-.5-xxx-LTCO/PBU/GH	10,350			1,125		375
480C-75-.5-xxx-LTCO/PBU/GH	13,800			1,500		
480C-90-.5-xxx-LTCO/PBU/GH	17,250			1,875		
480C-105-.5-xxx-LTCO/PBU/GH	20,700			2,250		

Electric Miniature Series Vaporizers

Features

- Standard design pressure 500 PSIG
- Complete separation of electrical and plumbing systems
- Accurate temperature control
- Silicone rubber-sealed heater terminals
- High-temperature limit protection on each heater segment
- Pilot light indicators
- Fluid path type 304 stainless steel
- NEMA 4 electrical enclosure
- Adjustable temperature ranges from 0°F to +110°F (higher temperature ranges available up to 400°F)

Ordering Information

Specifications			
Model	Kilowatts	CO2	Connections
		lbs/hr	NPT
MV-6	2-15	to 150 lbs/hr	1/2"
MPBU-6	2-15	to 170 lbs/hr	1/2" x 3/4"
MGH-6	2-15	to 750 lbs/hr	1"
MGH-6-DT	2-15	to 1500 lbs / hr	1"

Advantages

- Minimal heat input when unit non-operational
- Designed for cryogenic applications where minimal power is required
- U.L. listed components
- No frost build-up around heater terminals
- Compatible with all cryogenic fluids
- Three types — Pressure Builder, Vaporizer, Gas Heater
- Ideal for small flow applications
- Available in 120V to 575V configurations with power ratings from 2kW to 15 kW

Options

- NEMA 3R electrical enclosure
- Explosion-proof housings
- Low outlet gas temperature cut-off/bypass systems with electric solenoid valves
- Low-pressure cut-off system with electric solenoid valves
- Solid-state relay (SSR) heater drive with digital PID controller
- Temperature indicating controllers
- High-pressure applications to 10,000 PSI
- High purity applications



Miniature Series

Electric Direct to Process Vaporizers

Features

- Heater casting replaceable without breaking into fluid passages
- NEMA 4 electrical enclosure
- Complete separation of electrical and plumbing systems
- Accurate temperature control
- Silicone rubber-sealed heater terminals
- Circuit breaker disconnect with door interlock
- High-temperature limit protection on each heater segment
- Capacities to 180 KW in a single cabinet

Ordering Information

	He	N ₂ , O ₂ , Ar	CO ₂	CO ₂
Model No	SCFH	SCFH	lbs./hour	SCFH
480VAC Units				
MV-6	2,800	1,300	150	3,500
480C-15-.5-xxx	7,150	3,450	375	5,500
480C-30-.5-xxx	14,300	6,900	750	11,000
480C-45-.5-xxx	21,450	10,350	1,125	16,500
480C-60-.5-xxx	28,600	13,800	1,500	22,000
480C-75-.5-xxx	35,750	17,250	1,875	27,500
480C-90-.5-xxx	42,900	20,700	2,250	33,000
480C-105-.5-xxx	50,050	24,150	2,625	38,500
480C-120-.5-xxx	57,200	27,600	3,000	44,000
480C-135-.5-xxx	64,350	31,050	3,375	49,500
480C-150-.5-xxx	71,500	34,500	3,750	55,000
480C-165-.5-xxx	78,650	37,950	4,125	60,500
480C-180-.5-xxx	85,800	41,400	4,500	66,000
240VAC Units				
MV-6	2,800	1,300	150	3,500
240C-15-.5-xxx	7,150	3,450	375	5,500
240C-30-.5-xxx	14,300	6,900	750	11,000
240C-45-.5-xxx	21,450	10,350	1,125	16,500
240C-60-.5-xxx	28,600	13,800	1,500	22,000
240C-75-.5-xxx	35,750	17,250	1,875	27,500
240C-90-.5-xxx	42,900	20,700	2,250	33,000
240C-105-.5-xxx	50,050	24,150	2,625	38,500
240C-120-.5-xxx	57,200	27,600	3,000	44,000
240C-135-.5-xxx	64,350	31,050	3,375	49,500
240C-150-.5-xxx	71,500	34,500	3,750	55,000
240C-165-.5-xxx	78,650	37,950	4,125	60,500
240C-180-.5-xxx	85,800	41,400	4,500	66,000

Advantages

- Minimal heat input when unit non-operational
- Heater casting replaceable without breaking into fluid passages
- U.L. listed components
- No frost build-up around heater terminals

Options

- NEMA 3R electrical enclosure
- Low outlet gas temperature cut-off / bypass systems with electric solenoid valves
- Low pressure cut-off system with electric solenoid valves
- Solid state relay (SSR) heater drive with digital PID controller
- Dry contact terminals for indication and remote switching
- Custom inlet and outlet connections or fittings
- Temperature indicating controller
- Alarms to indicate low pressure or temperature
- Special temperature controls from -305°F to +600°F
- Special non-standard voltages & frequencies up to 575V
- UL-508 electrical cabinets, CL1, DIV 2 explosion proof purge systems
- International compliance capability



Cexiletric Vaporizer

Electric Direct to Process Pressure Build Vaporizers

Features

- Heater casting replaceable without breaking into fluid passages
- NEMA 4 electrical enclosure
- Complete separation of electrical and plumbing systems
- Accurate temperature control
- Silicone rubber-sealed heater terminals
- Circuit breaker disconnect with door interlock
- High-temperature limit protection on each heater segment
- Capacities to 180 KW in a single cabinet
- Pilot light indicators
- Pressure Switch
- Solenoid valve or pneumatic actuated ball valve

Ordering Information

Specifications					
Model No	Kilowatts		N ₂ /O ₂ /Ar	CO ₂ PB	CO ₂ Process
		PB SCFH	SCFH	lbs./hr	lbs./hr
(240 / 480 volts)					
240/480C-15-.5-XX-LTCO/PBU	15	3,500	1,300	200	170
240/480C-30-.5-XX-LTCO/PBU	30	3,500	3450	200	375
240/480C-45-.5-XX-LTCO/PBU	45	3,500	6900	200	750
240/480C-60-.5-XX-LTCO/PBU	60	3,500	10,350	200	1,125
240/480C-75-.5-XX-LTCO/PBU	75	3,500	13800	200	1,500
240/480C-90-.5-XX-LTCO/PBU	90	3,500	17250	200	1,875
240/480C-105-.5-XX-LTCO/PBU	105	3,500	20700	200	2,250
240/480C-120-.5-XX-LTCO/PBU	120	3,500	24150	200	2,625
240/480C-135-.5-XX-LTCO/PBU	135	3,500	27600	200	3,000
240/480C-150-.5-XX-LTCO/PBU	150	7,000	31,050	400	3,375
240/480C-165-.5-XX-LTCO/PBU	165	7,000	34,500	400	3,750

Advantages

- Minimal heat input when unit non-operational
- Heater casting replaceable without breaking into fluid passages
- U.L. listed components
- No frost build-up around heater terminals
- One installation for two vaporizers
- Extremely low pressure drop for pressure build

Options

- NEMA 3R electrical enclosure
- Low outlet gas temperature cut-off / bypass systems with electric solenoid valves
- Inlet strainer
- Connection for blow down valve
- Low pressure cut-off system with electric solenoid valves
- Solid state relay (SSR) heater drive with digital PID controller
- Dry contact terminals for indication and remote switching
- Custom inlet and outlet connections or fittings
- Temperature indicating controller
- Alarms to indicate low pressure or temperature
- Special temperature controls from -305°F to +600°F
- Special non-standard voltages & frequencies up to 575V
- UL-508 electrical cabinets, CL1, DIV 2 explosion proof purge systems
- International compliance capability



Dual Unit: Direct To Process And Pressure Build Vaporizer In One

Electric Trim Heaters for Ambient & Forced Convection Vaporizers

Application

Cryogenic Experts trim heaters warm gas from equipment including Ambient and Forced Convection Vaporizers. These heaters offer more precise temperature control of the gas and limit pressure drop through the unit.

Features

- Spare heating elements with single pour castings
- NEMA 4 electrical enclosure
- Accurate temperature control
- Silicone rubber-sealed heater terminals
- Circuit breaker disconnect with door interlock
- High-temperature limit protection on each heater segment
- Fluid path type 304 stainless steel
- Adjustable temperature ranges from 0°F to +110°F (higher temperature ranges available up to 400°F)
- Pilot light indicators

Options

- NEMA 3R electrical enclosure
- UL-508 electrical cabinets, CL1, DIV 2 explosion proof purge systems
- Solid-state relay (SSR) heater drive with digital PID controller
- High-pressure applications to 10,000 PSI
- High purity applications
- Custom inlet and outlet connections or fittings
- Temperature indicating controller
- Special temp controls from -360°F to +600°F
- Replaceable heating elements
- Special non-standard voltages & frequencies up to 575V
- International compliance capability

Ordering Information

Model No	N2, O2, Ar	CO2		Casting
	SCFH	lbs/hour	SCFH	
HBA-ETH120C-0.5-3.0	1,200	85	745	Block
HBA-ETH120C-1.0-3.0	2,400	170	1,490	
HBA-ETH208C-3.0-3.0	5,000	400	3,500	
HBA-ETH240C-3.0-3.0	7,000	600	5,250	
MGH-6	2600- 5000	320 - 750	3,060 - 6,556	Single
MGH-6-DT	5,000 - 6,500	750 - 1,500	6,556 - 13,112	
ETH480C-5.2-.5-xxx	6,200	800	6,990	Stack
ETH480C-10.5-.5-xxx	9,500	1,600	13,900	
ETH480C-15.7-.5-xxx	18,000	2,500	28,850	
ETH480C-22-.5-xxx	25,000	3,500	30,600	
ETH480-15-.5-xxx	20,000	2,500	21,850	Single
ETH480-22-.5-xxx	33,000	3,600	31,460	
ETH480-30-.5-xxx	40,000	5,000	43,700	
ETH480-42-.5-xxx	60,000	7,000	61,190	



Electric Trim Heaters

Electric Immersion Trim Heaters

Application

Cryogenic Experts trim heaters warm gas from equipment including Ambient and Forced Convection Vaporizers. These heaters offer more precise temperature control of the gas and limit pressure drop through the unit.

Features

- Shell with Immersion Heater and controls
- NEMA 4 electrical enclosure
- Accurate temperature control
- Heater terminal enclosure
- Circuit breaker disconnect with door interlock
- Fluid path type 304 stainless steel or carbon steel
- Adjustable temperature ranges from 0°F to +110°F (higher temperature ranges available up to 600°F)
- Pilot light indicators

Options

- NEMA 3R electrical enclosure
- UL-508 electrical cabinets, CL1, DIV 2 explosion proof purge systems
- Solid state relay (SSR) heater drive with digital PID controller
- High pressure applications to 500 PSI
- High purity applications
- Custom inlet and outlet connections or fittings
- Special temp controls from -360°F to +600°F
- Replaceable heating elements
- Special non-standard voltages & frequencies up to 575V

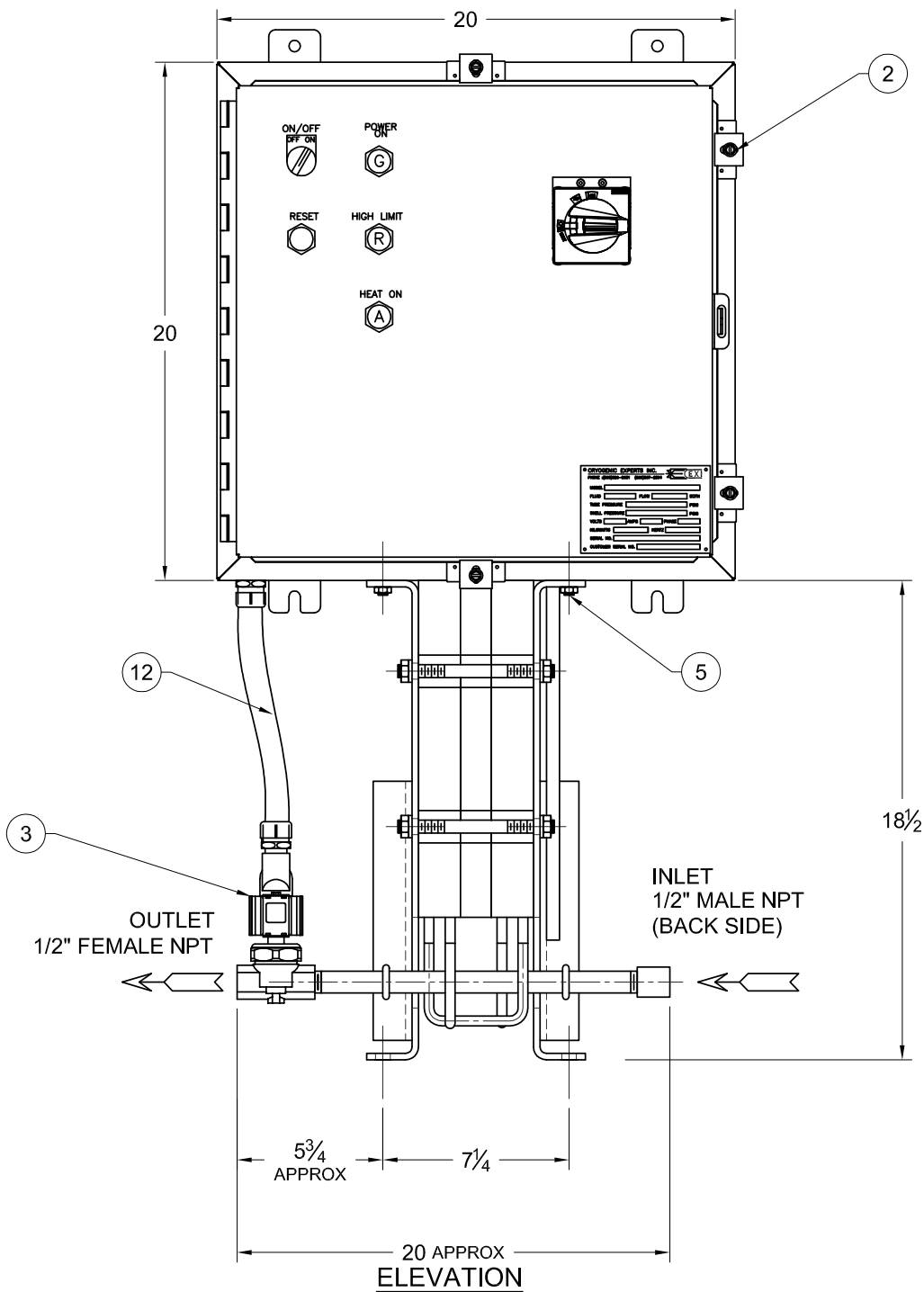
Contact Cryogenic Experts to get a quote for your specific application.



Electric Immersion Trim Heaters

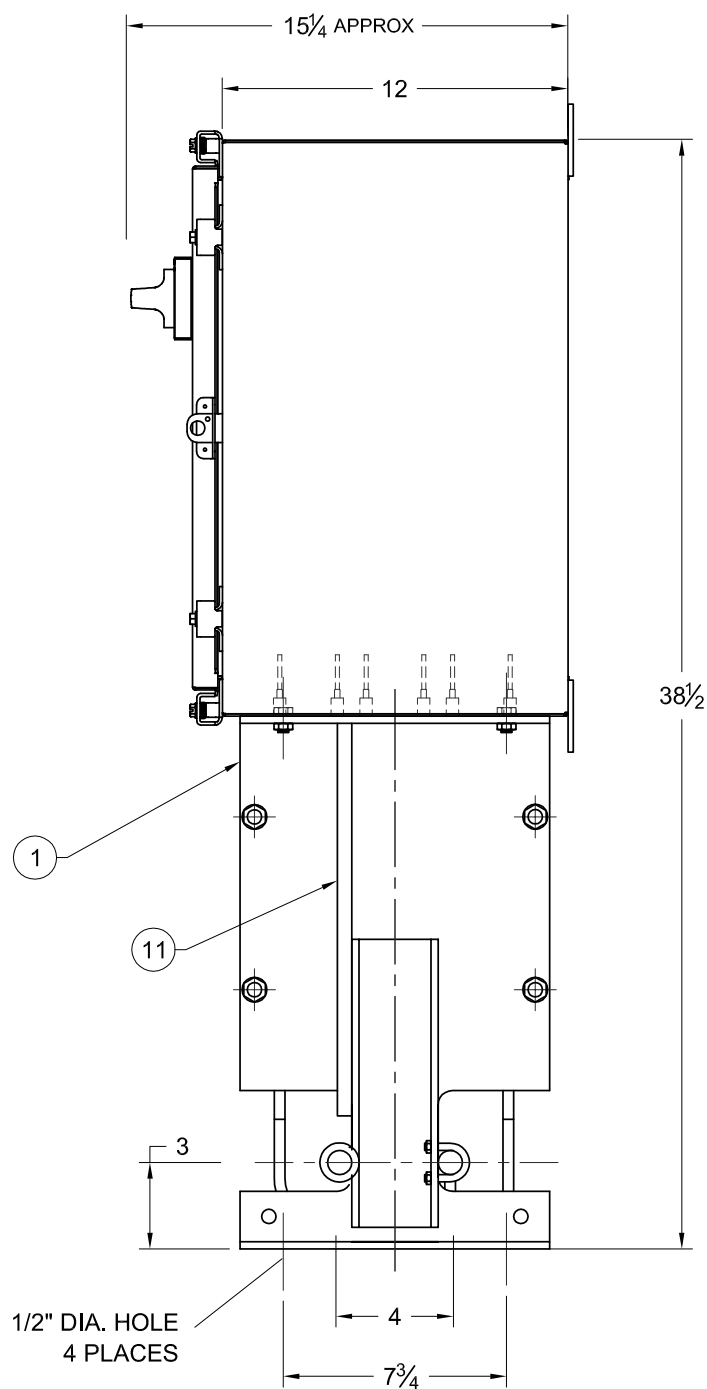
Electric Vaporizers And Electric Pressure Builder Drawings

15KW DTP Vaporizer with LTCO

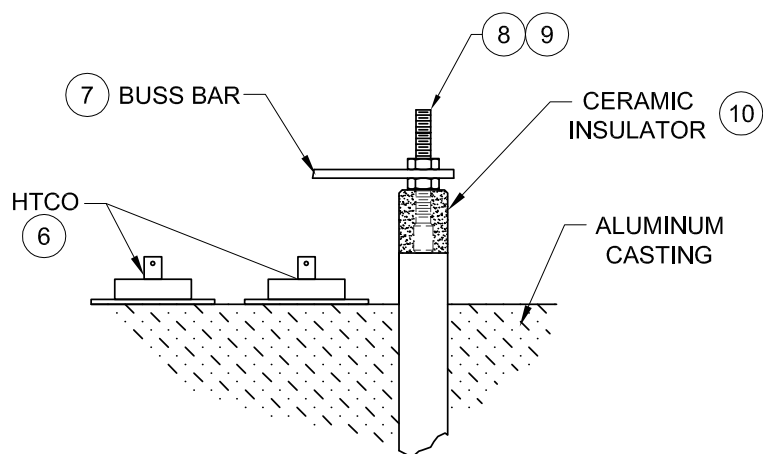


Electric Vaporizers And Electric Pressure Builder Drawings

15KW DTP Vaporizer with LTCO



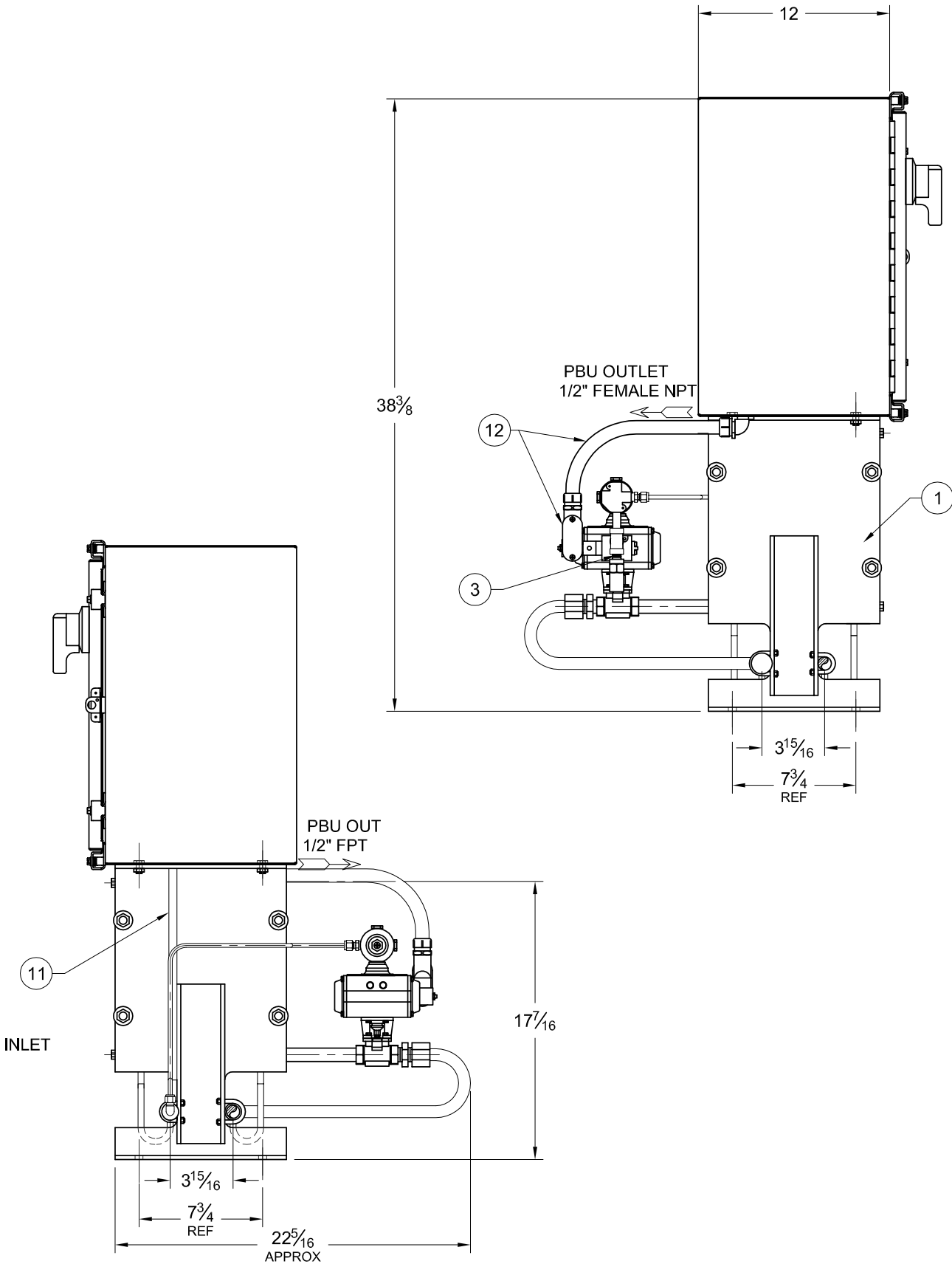
SIDE VIEW



DETAIL A

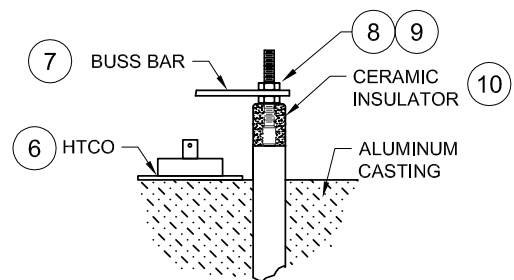
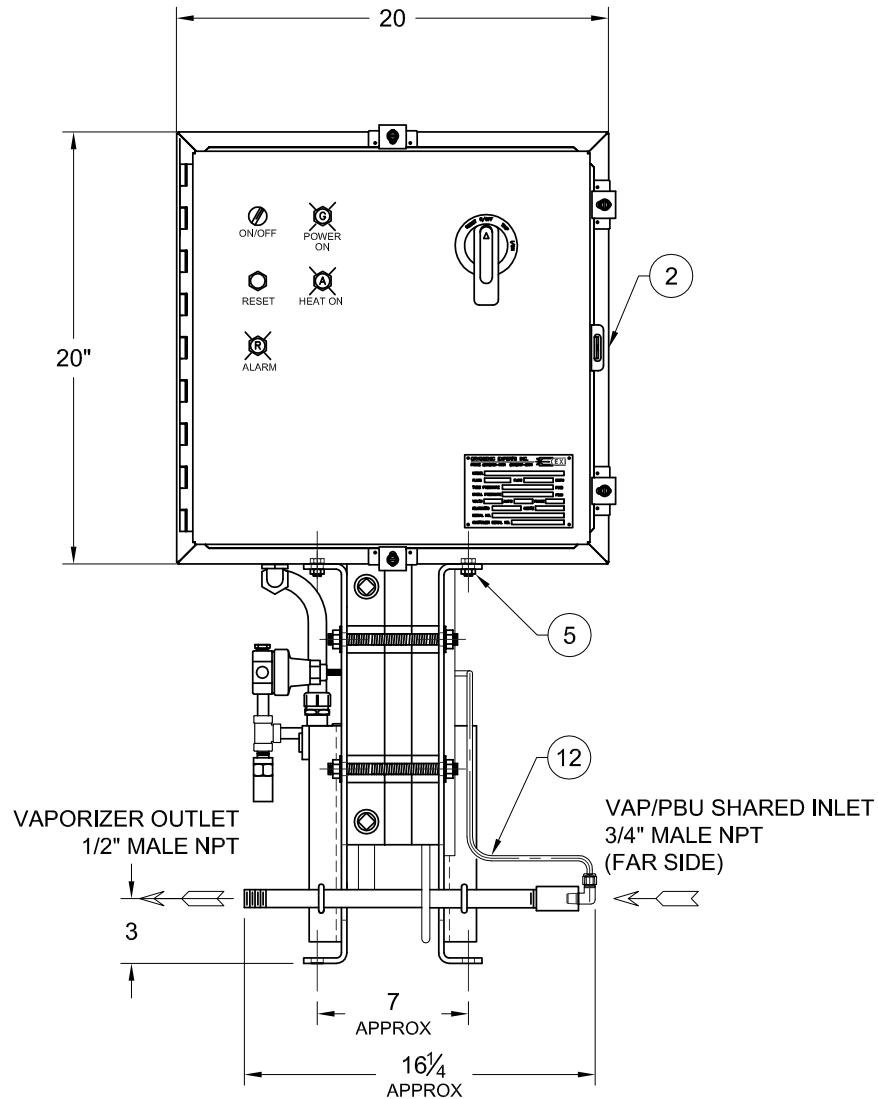
Electric Vaporizers And Electric Pressure Builder Drawings

15KW Dual Unit Vaporizer PBU



Electric Vaporizers And Electric Pressure Builder Drawings

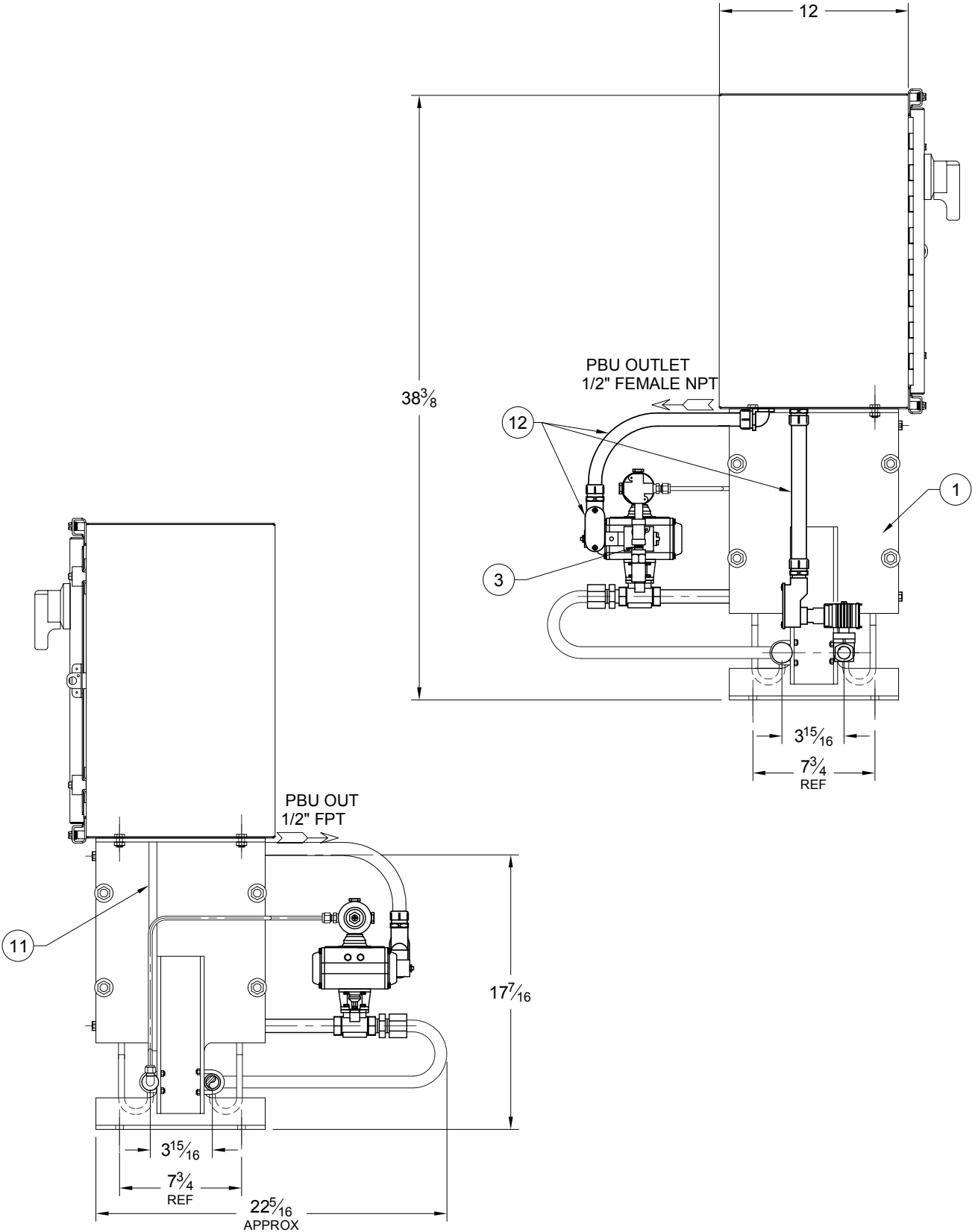
15KW Dual Unit Vaporizer PBU



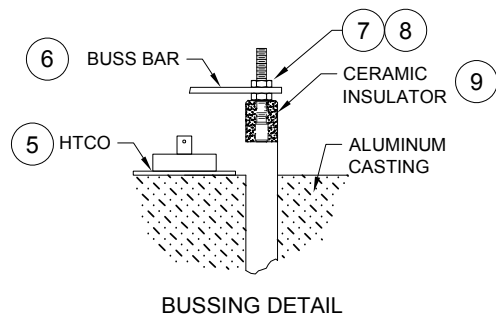
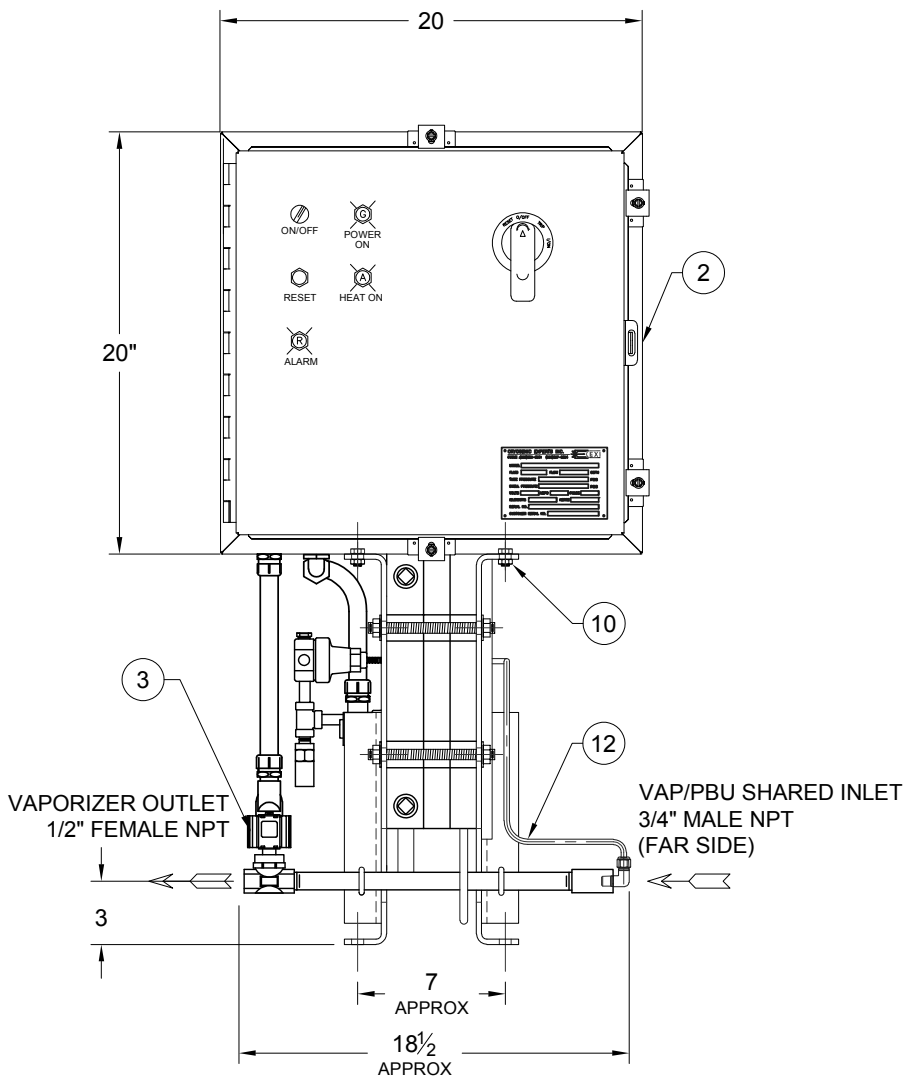
BUSSING DETAIL

Electric Vaporizers And Electric Pressure Builder Drawings

15KW Dual Unit Vaporizer PBU with LTCO

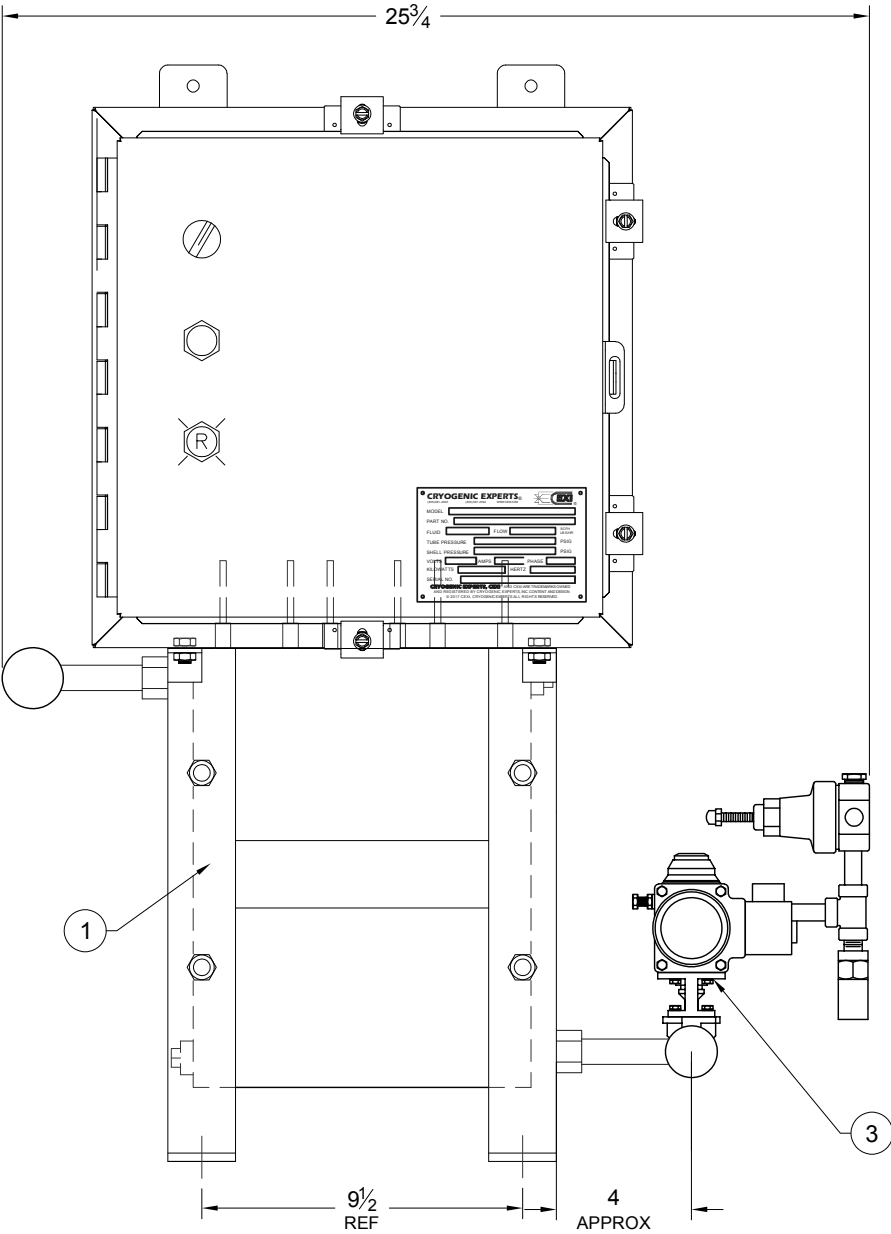


Electric Vaporizers And Electric Pressure Builder Drawings
15KW Dual Unit Vaporizer PBU with LTCO



Electric Vaporizers And Electric Pressure Builder Drawings

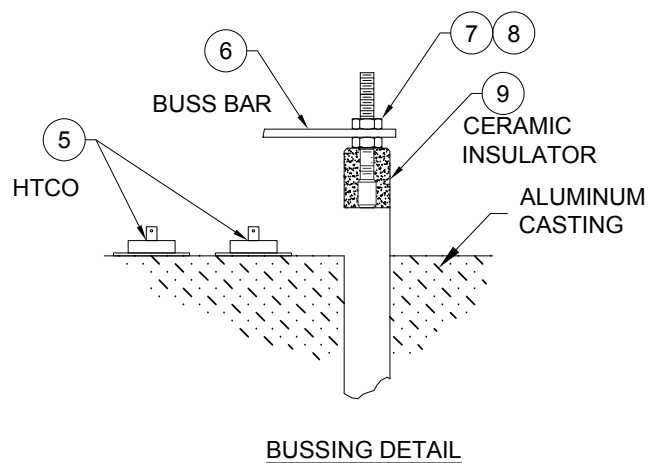
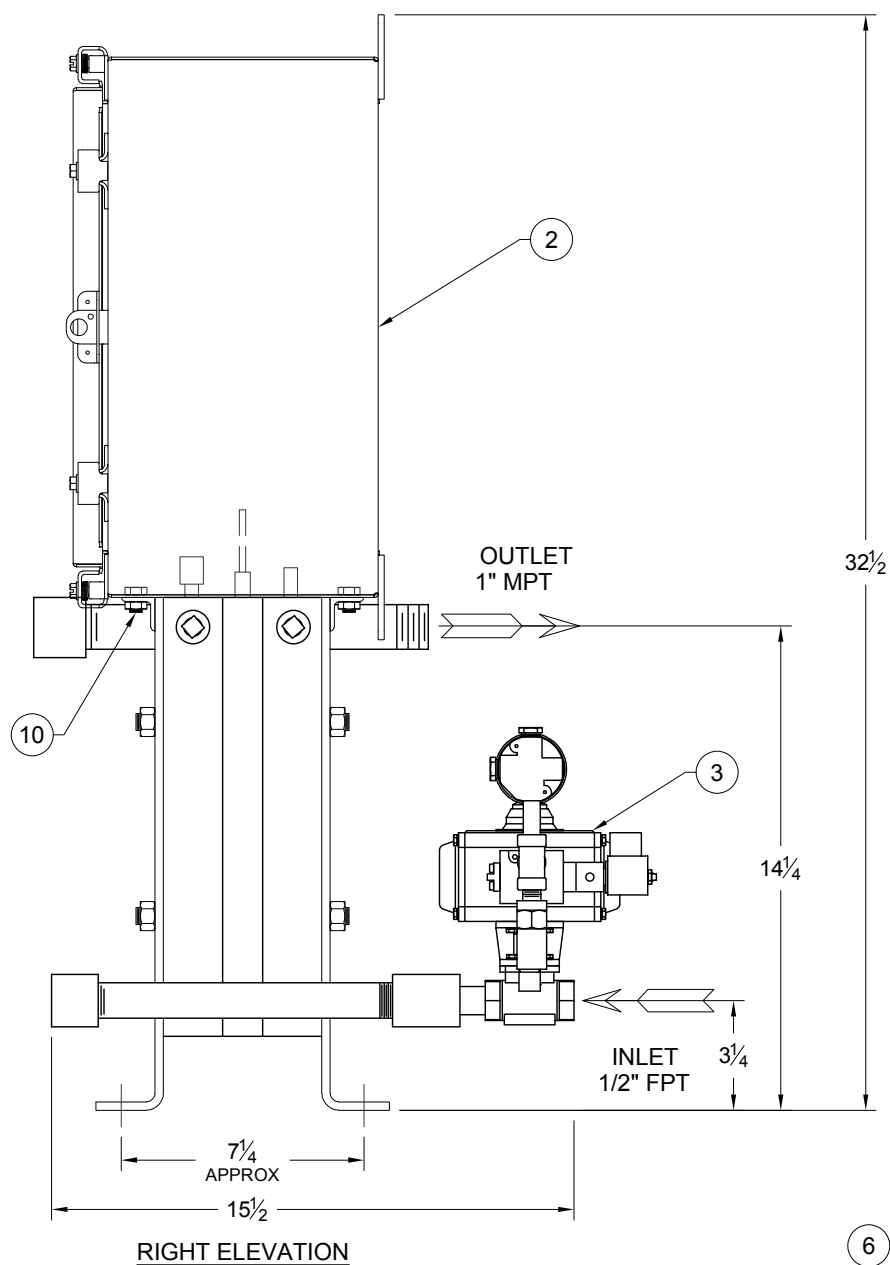
15KW Pressure Build Unit



FRONT ELEVATION

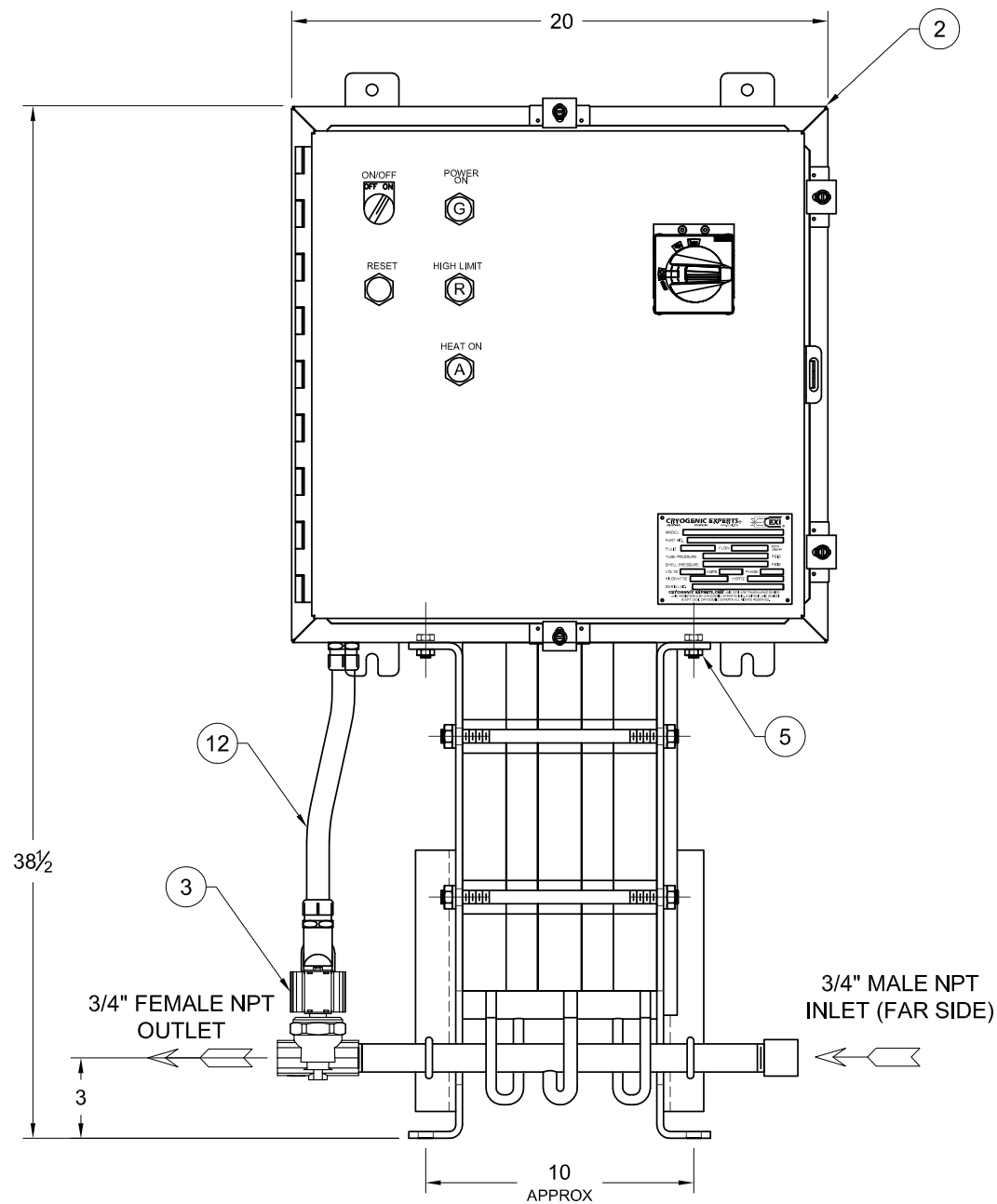
Electric Vaporizers And Electric Pressure Builder Drawings

15KW Pressure Build Unit

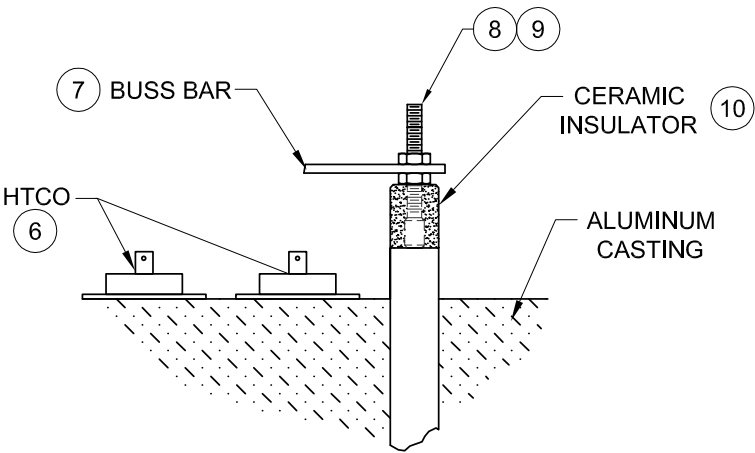
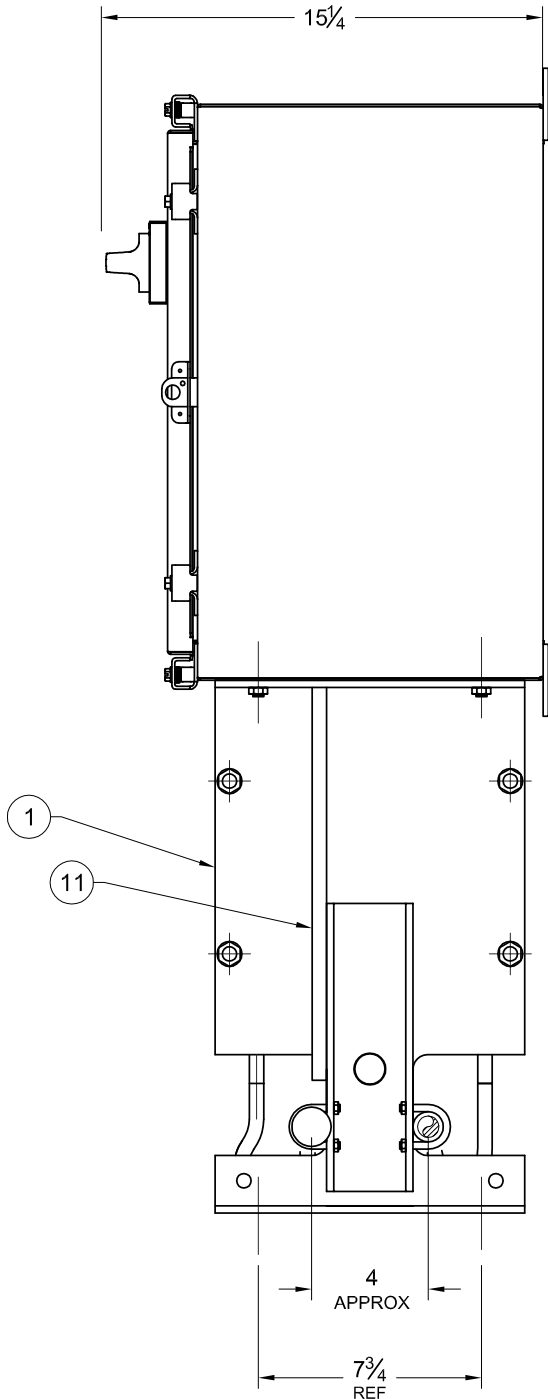


Electric Vaporizers And Electric Pressure Builder Drawings

30KW DTP Vaporizer with LTCO



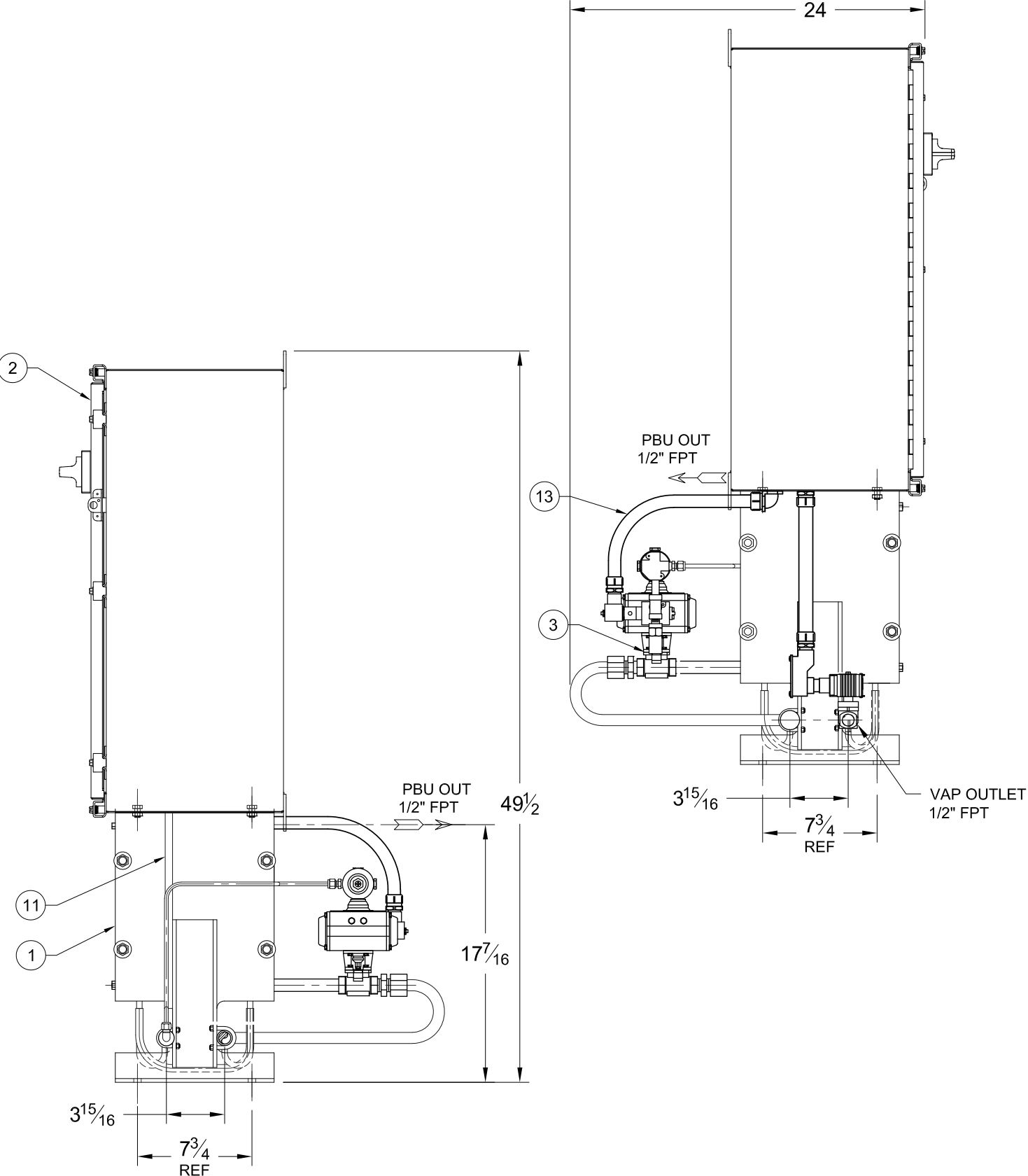
Electric Vaporizers And Electric Pressure Builder Drawings
30KW DTP Vaporizer with LTCO



DETAIL A

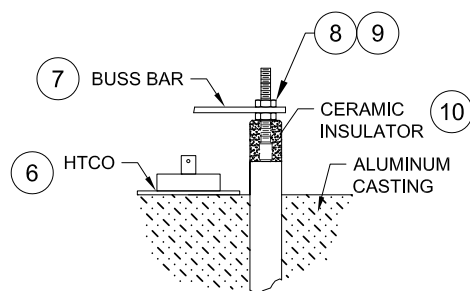
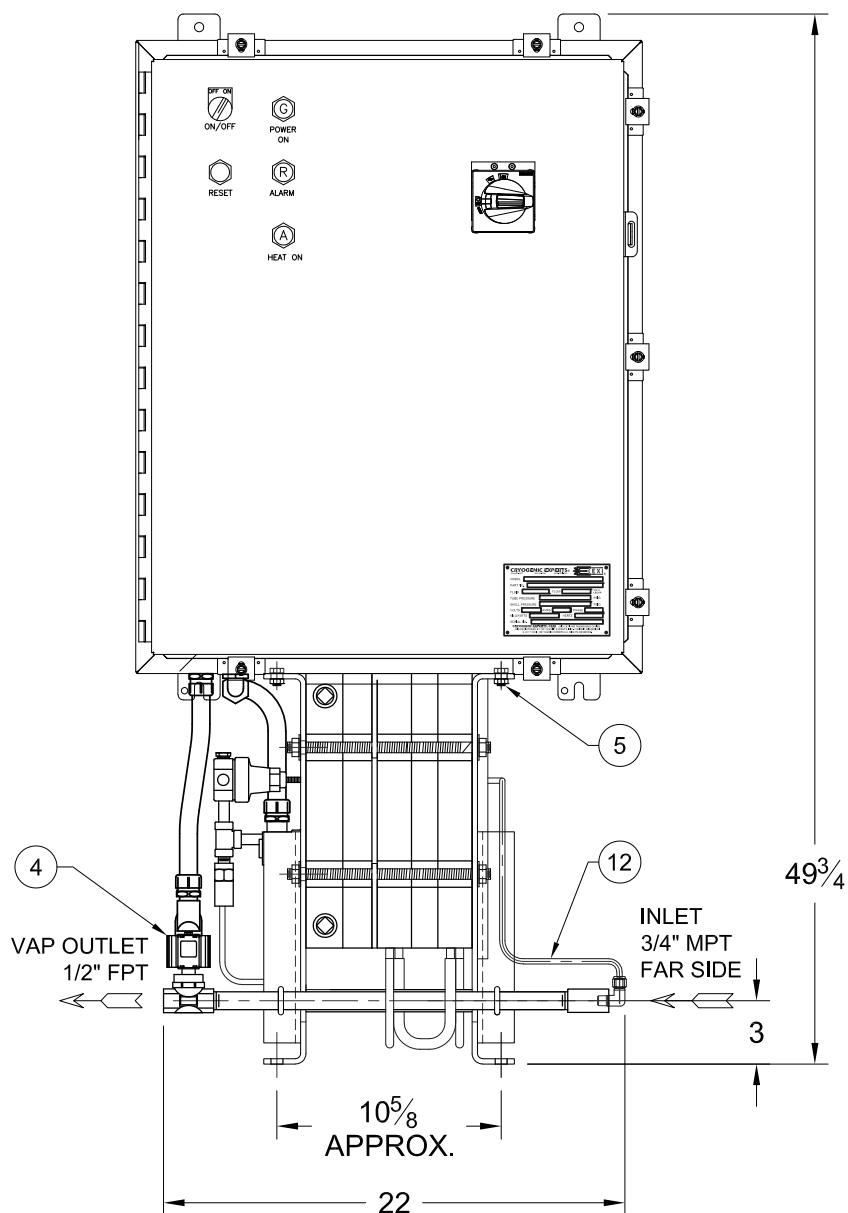
Electric Vaporizers And Electric Pressure Builder Drawings

30KW Dual Unit Vaporizer PBU with LTCO



Electric Vaporizers And Electric Pressure Builder Drawings

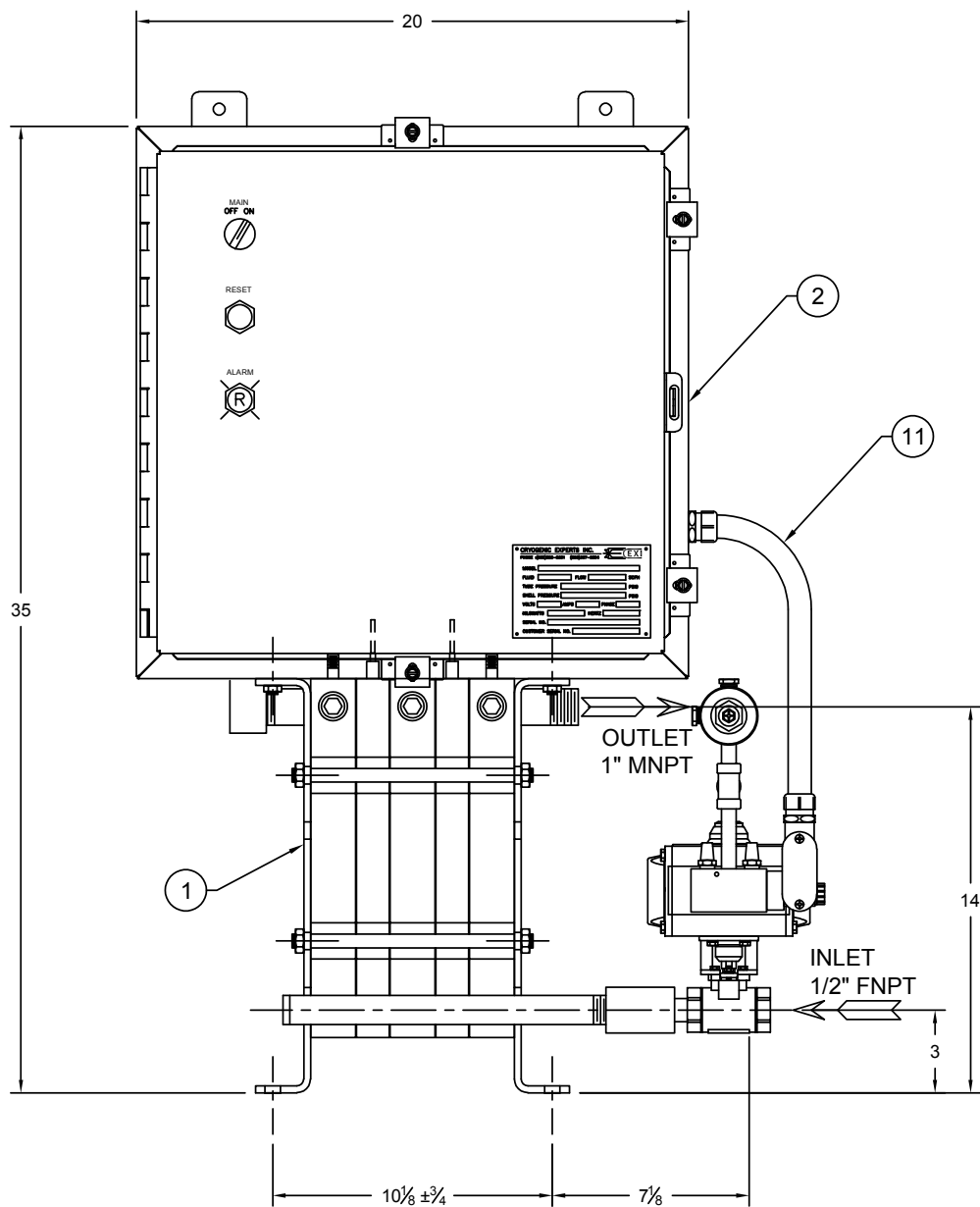
30KW Dual Unit Vaporizer PBU with LTCO



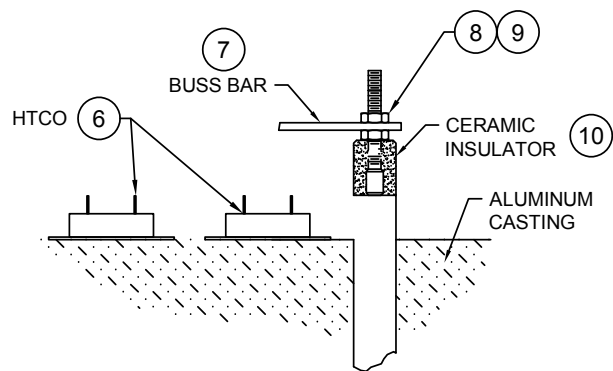
BUSSING DETAIL

Electric Vaporizers And Electric Pressure Builder Drawings

30KW Pressure Build Unit

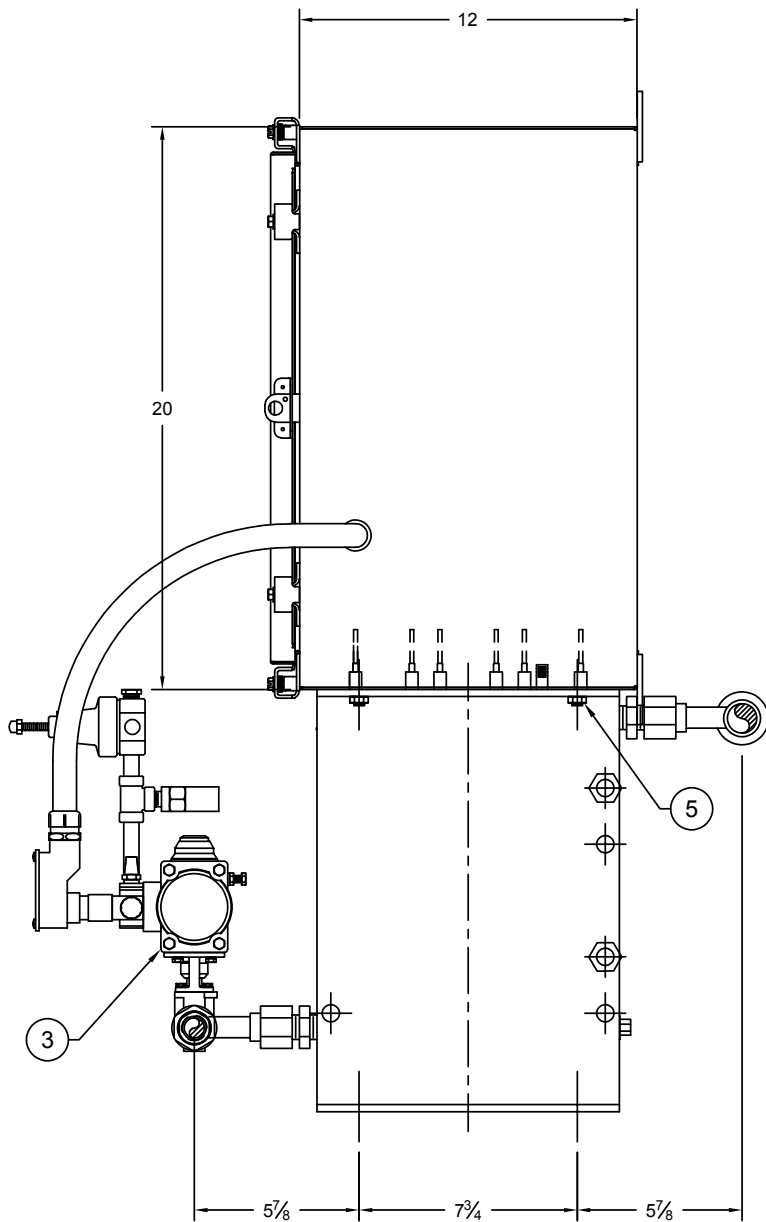


ELEVATION

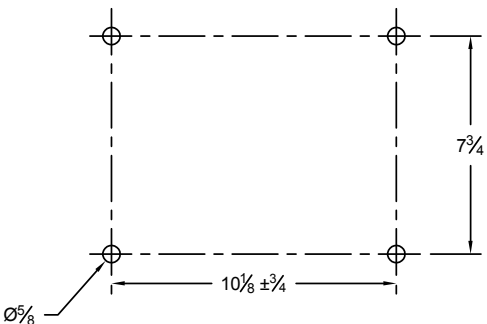


HEATER BUSSING

Electric Vaporizers And Electric Pressure Builder Drawings
30KW Pressure Build Unit

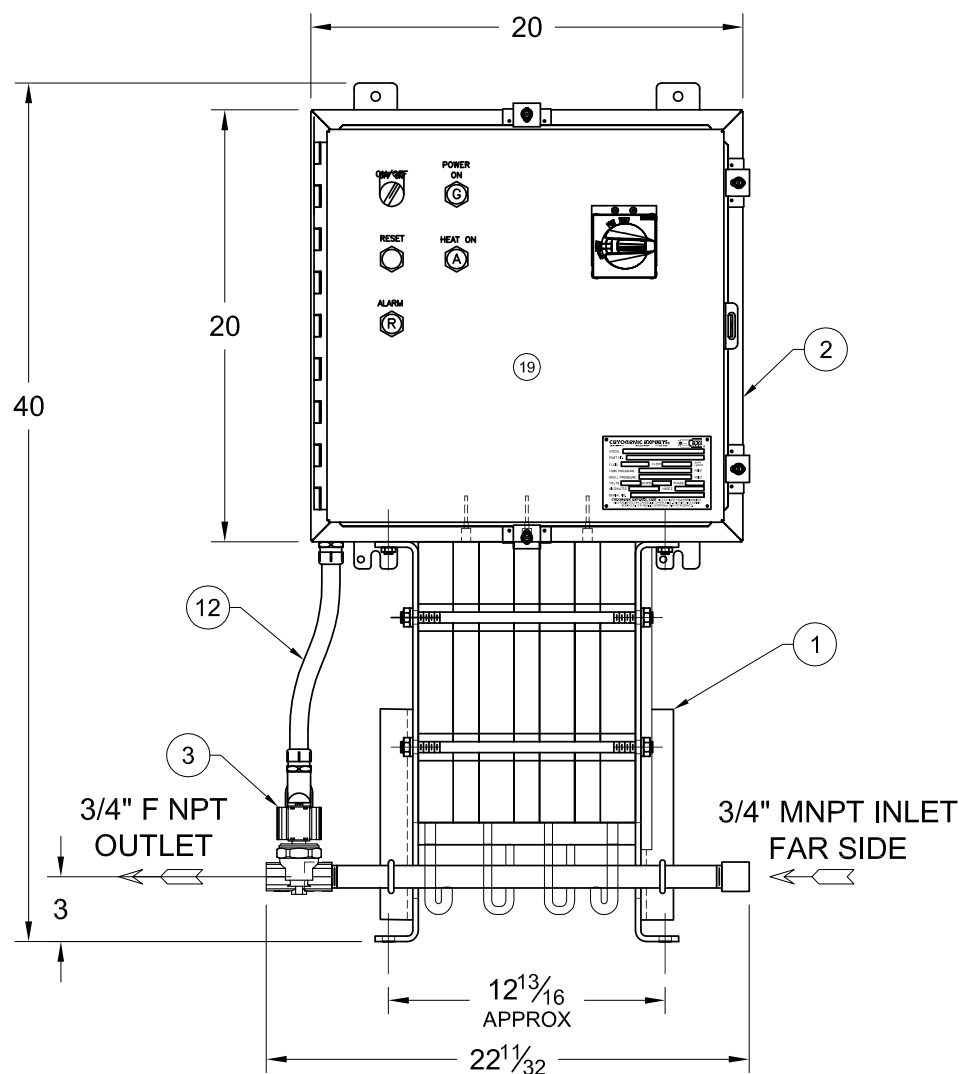


SIDE VIEW



ANCHOR BOLT LAYOUT

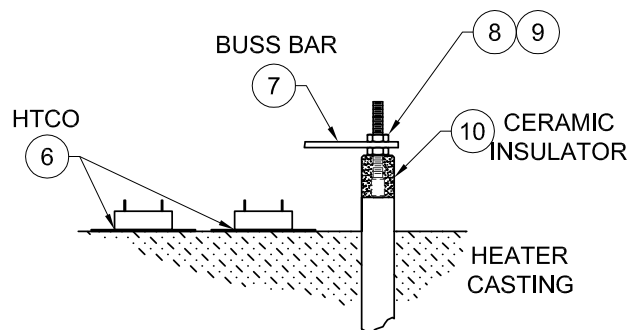
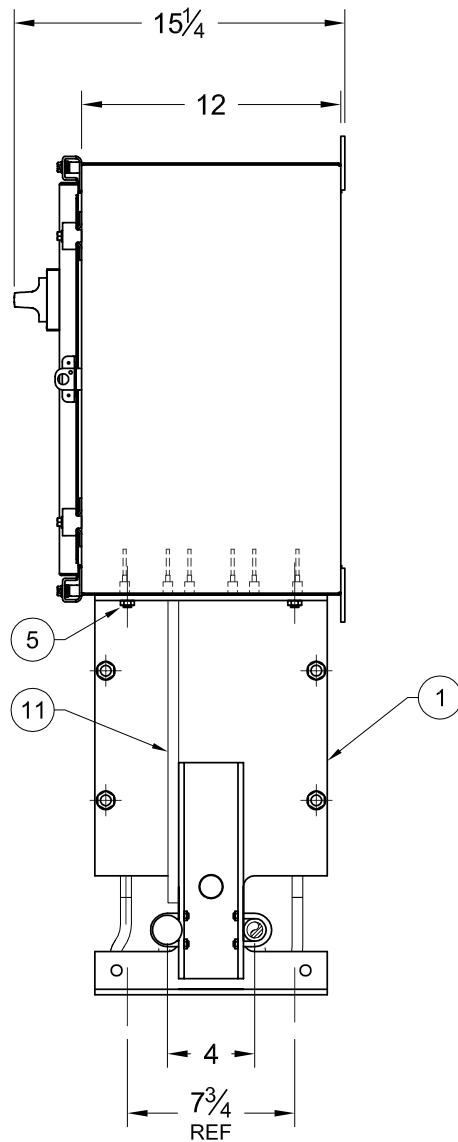
Electric Vaporizers And Electric Pressure Builder Drawings
45KW DTP Vaporizer with LTCO



FRONT ELEVATION

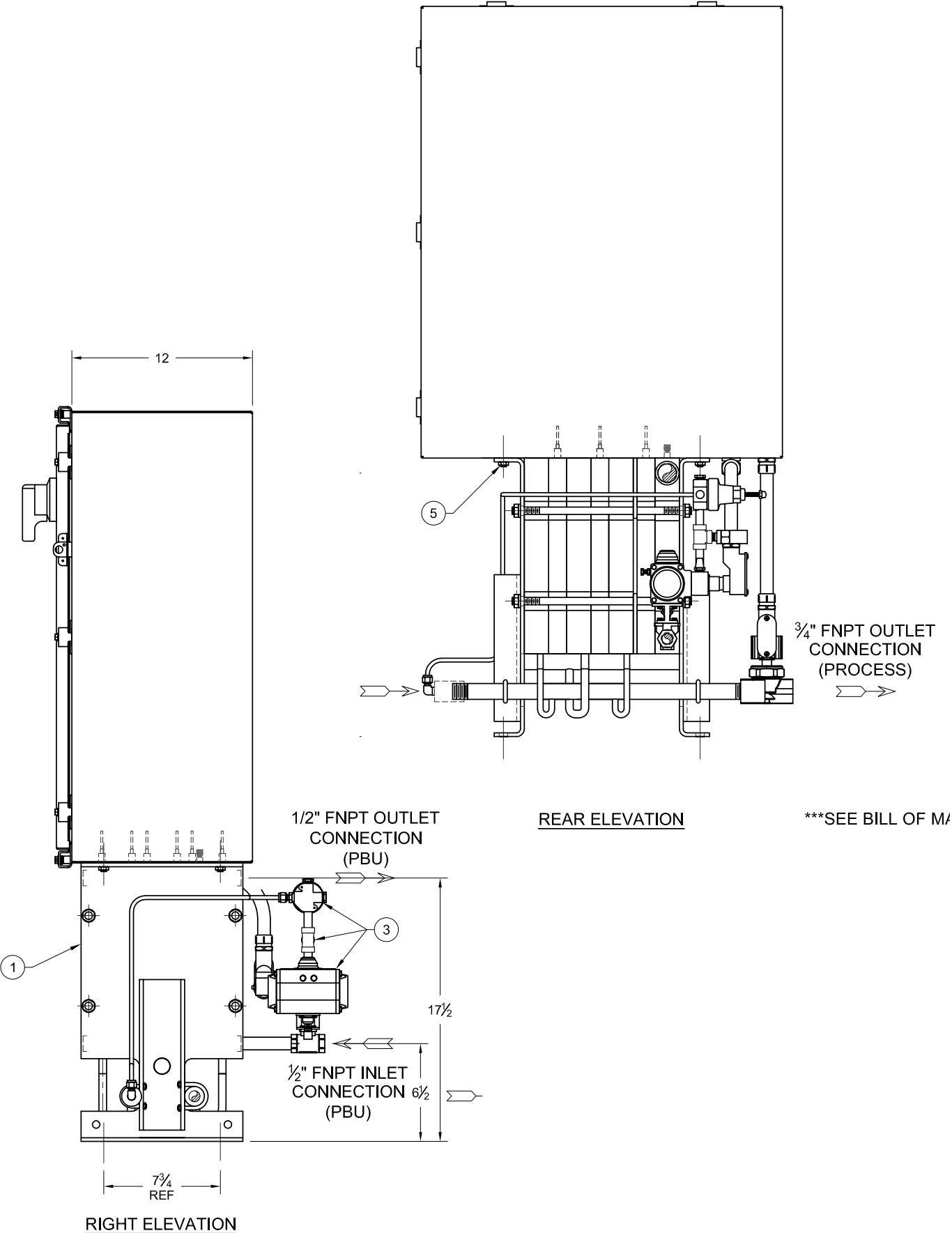
Electric Vaporizers And Electric Pressure Builder Drawings

45KW DTP Vaporizer with LTCO



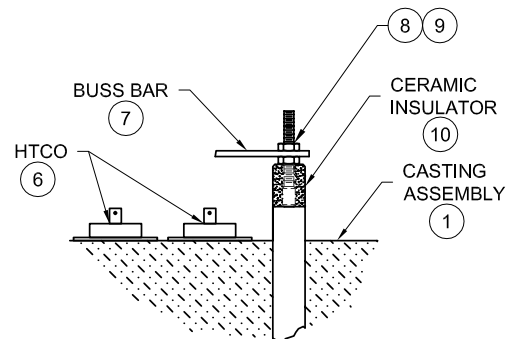
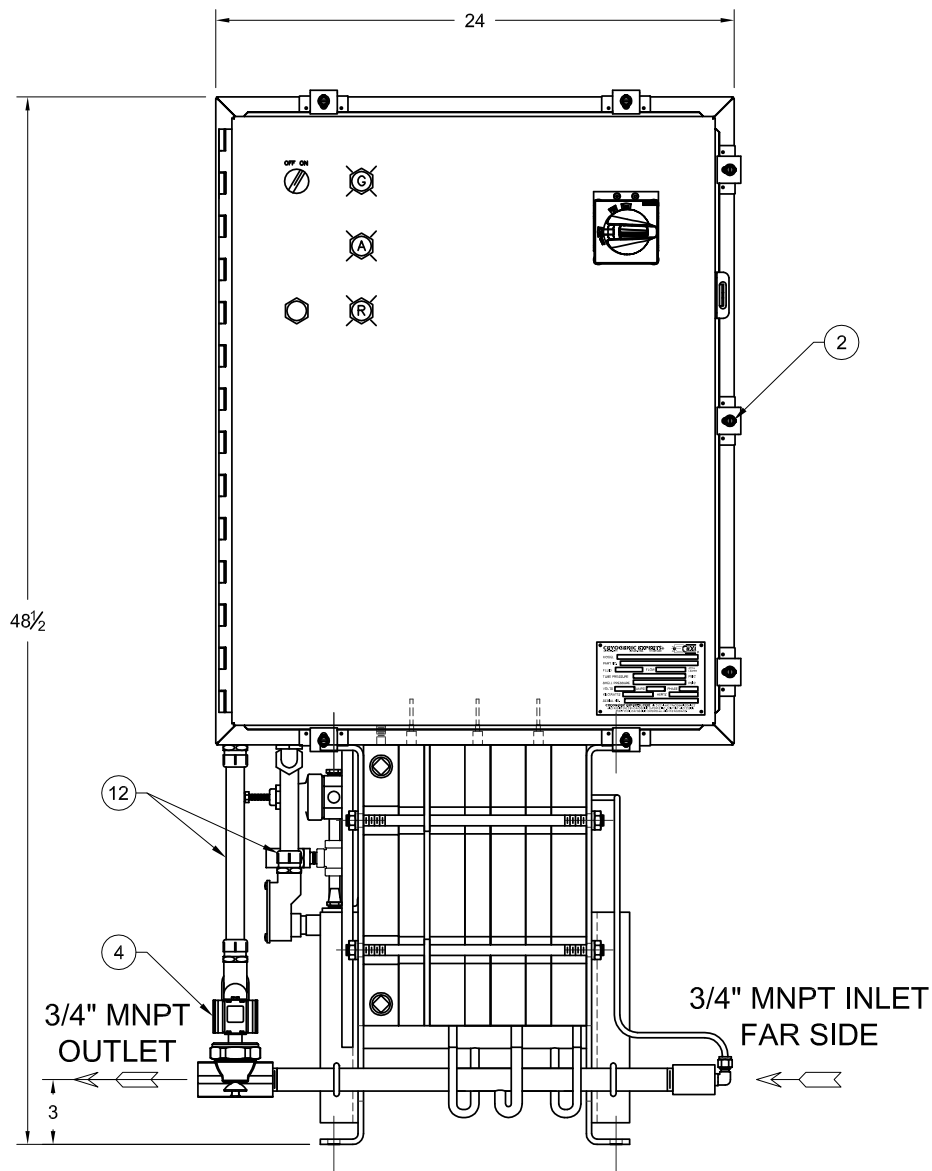
Electric Vaporizers And Electric Pressure Builder Drawings

45KW Dual Unit Vaporizer PBU with LTCO



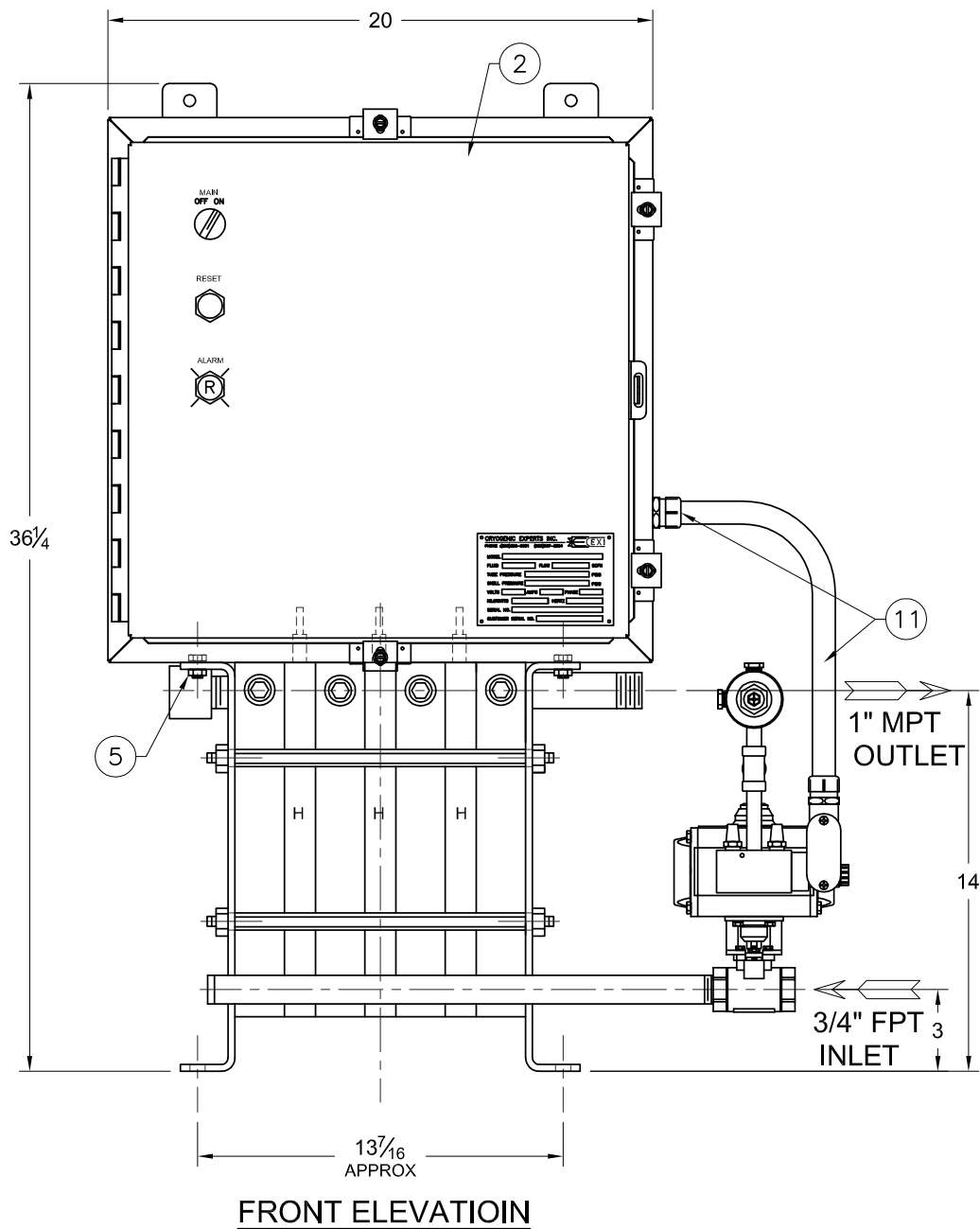
Electric Vaporizers And Electric Pressure Builder Drawings

45KW Dual Unit Vaporizer PBU with LTCO



BUSSING DETAIL

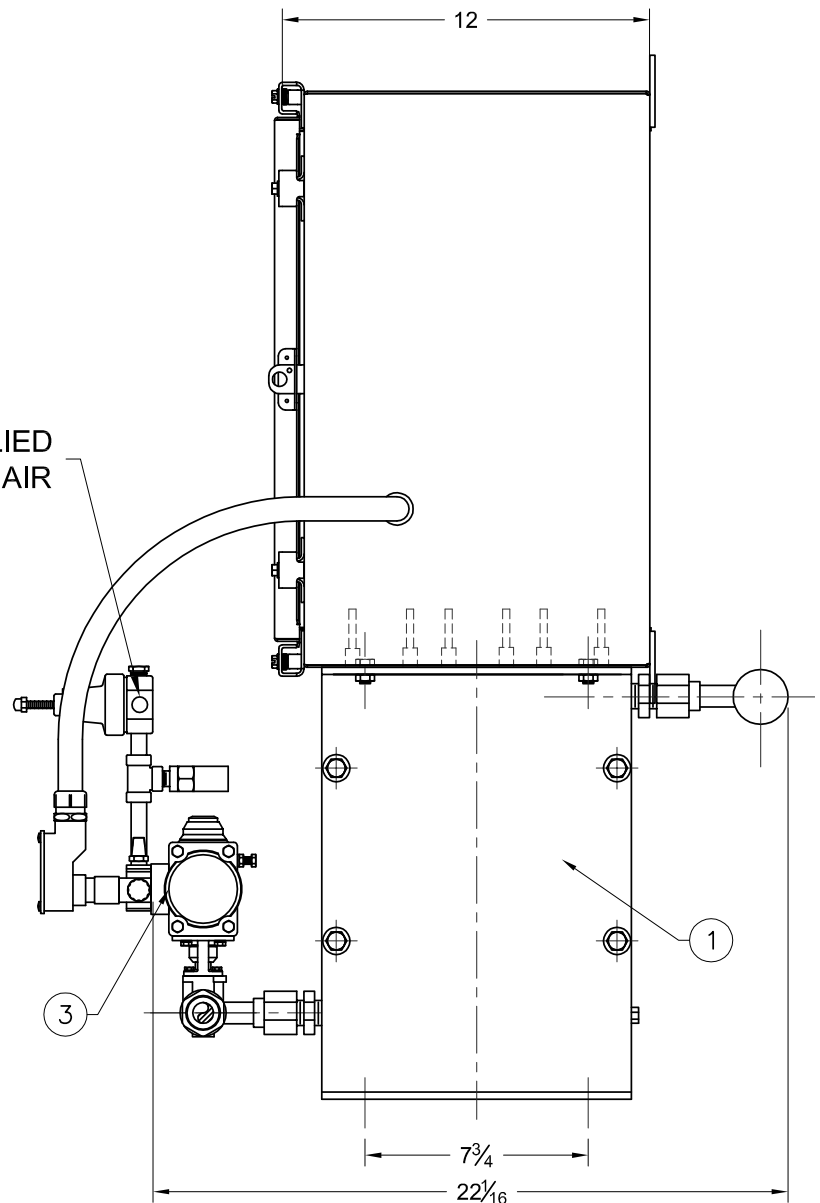
Electric Vaporizers And Electric Pressure Builder Drawings



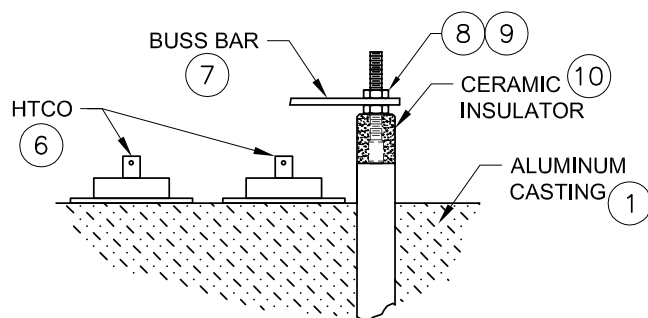
Electric Vaporizers And Electric Pressure Builder Drawings

45KW Pressure Build Unit

CUSTOMER SUPPLIED
INSTRUMNET AIR

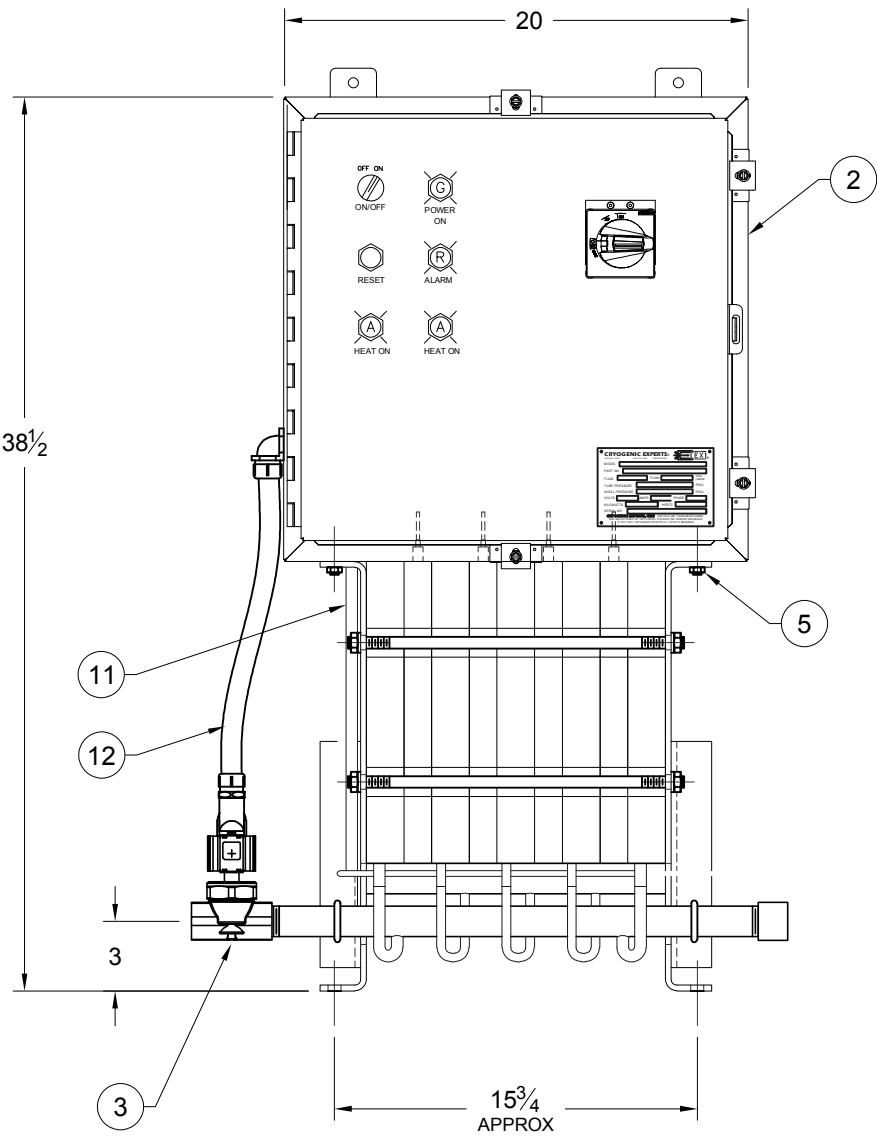


RIGHT ELEVATION

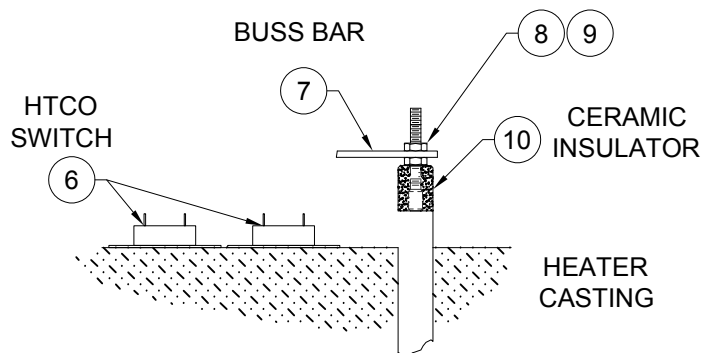
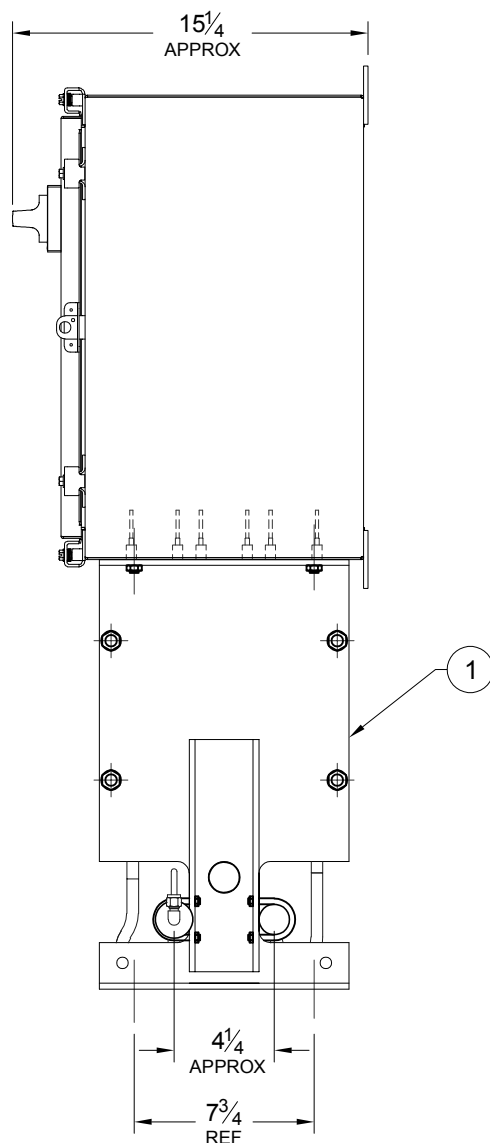


BUSSING DETAIL

Electric Vaporizers And Electric Pressure Builder Drawings
60KW DTP Vaporizer with LTCO

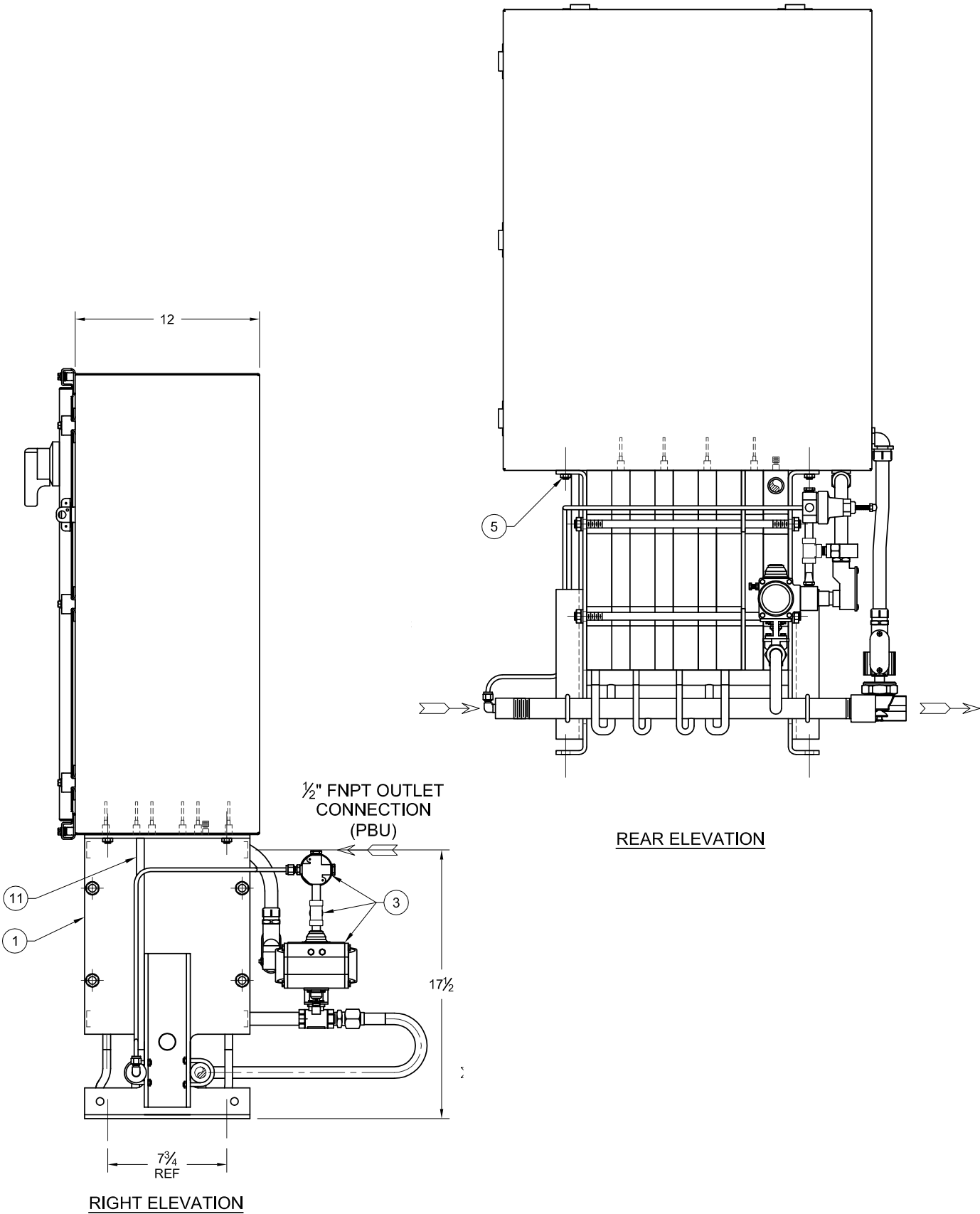


Electric Vaporizers And Electric Pressure Builder Drawings
60KW DTP Vaporizer with LTCO



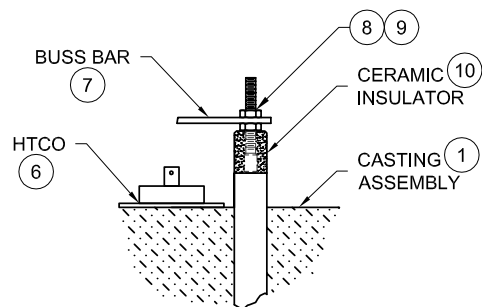
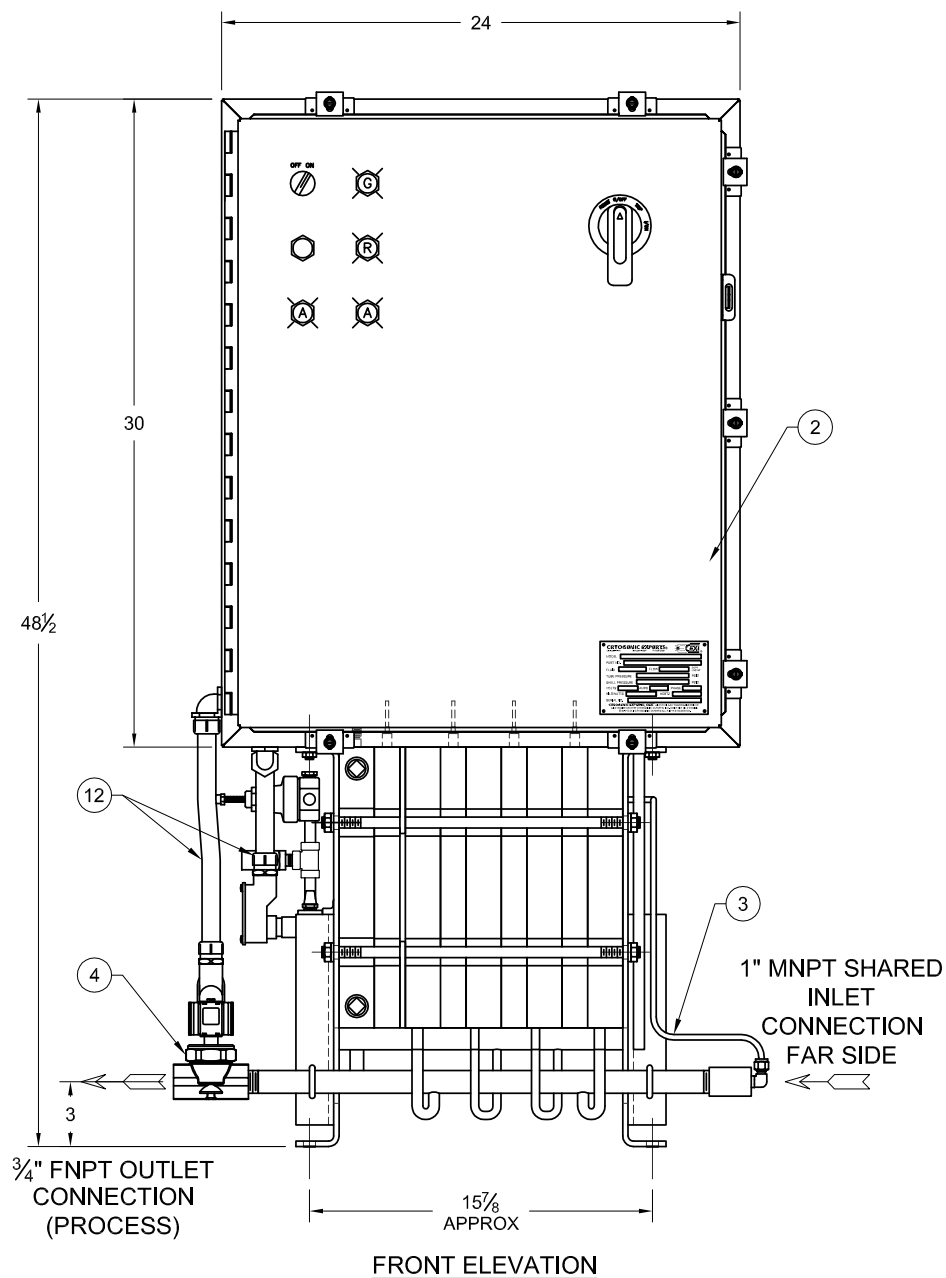
BUSSING DETAIL

Electric Vaporizers And Electric Pressure Builder Drawings
60KW Dual Unit Vaporizer PBU with LTCO



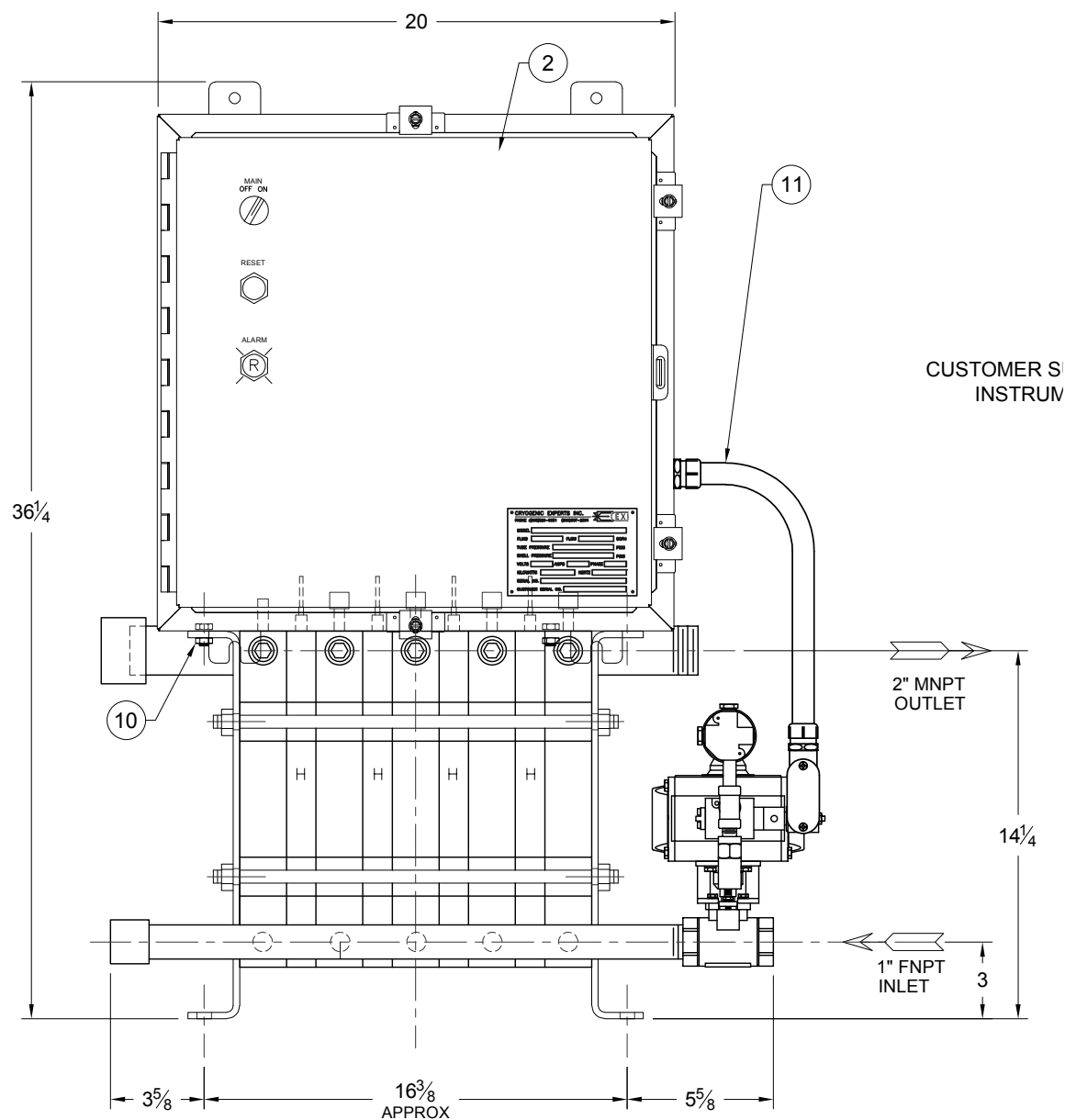
Electric Vaporizers And Electric Pressure Builder Drawings

60KW Dual Unit Vaporizer PBU with LTCO



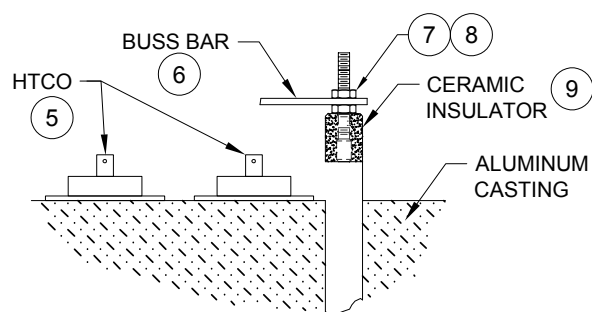
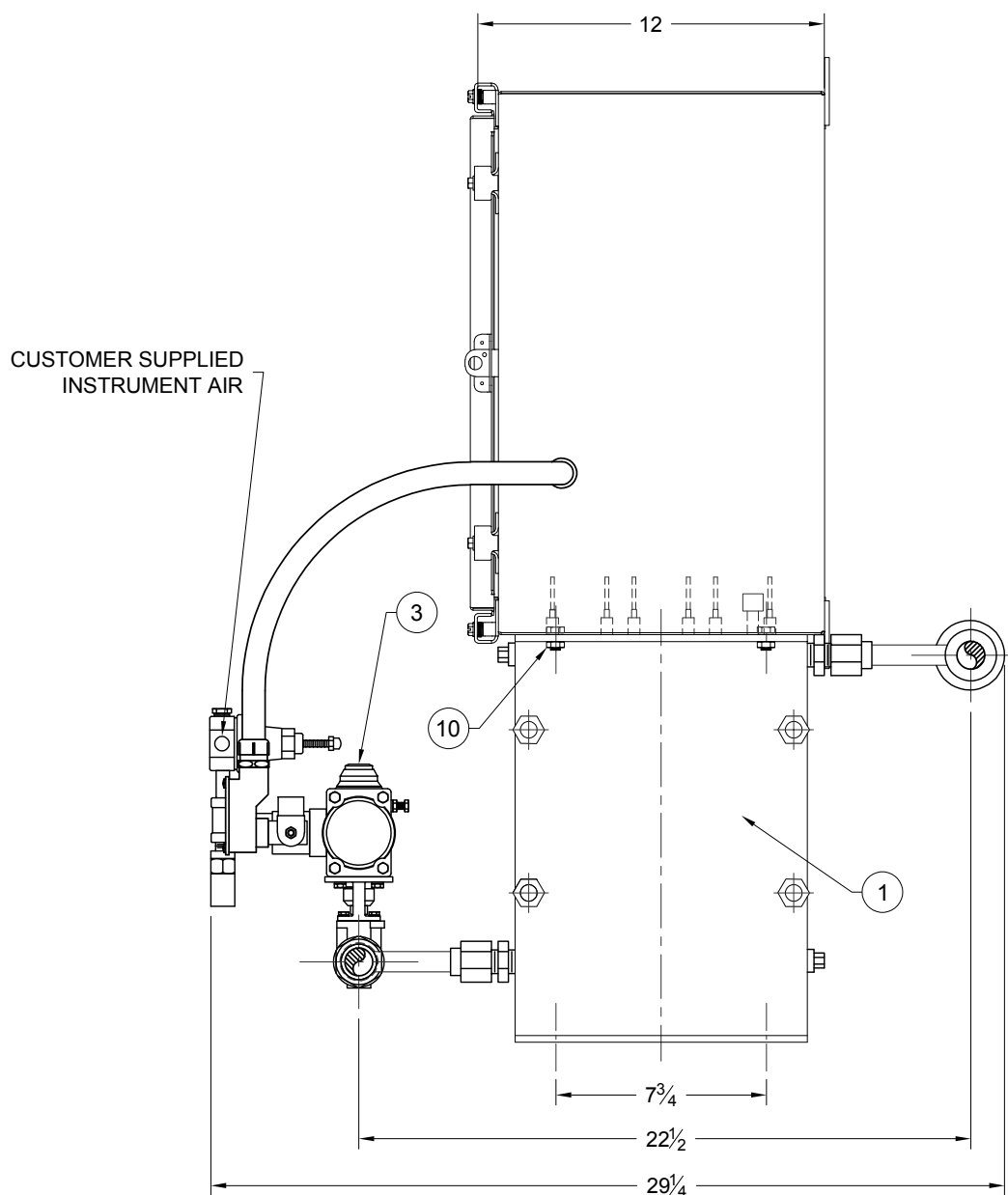
BUSSING DETAIL

Electric Vaporizers And Electric Pressure Builder Drawings
60KW Pressure Build Unit



Electric Vaporizers And Electric Pressure Builder Drawings

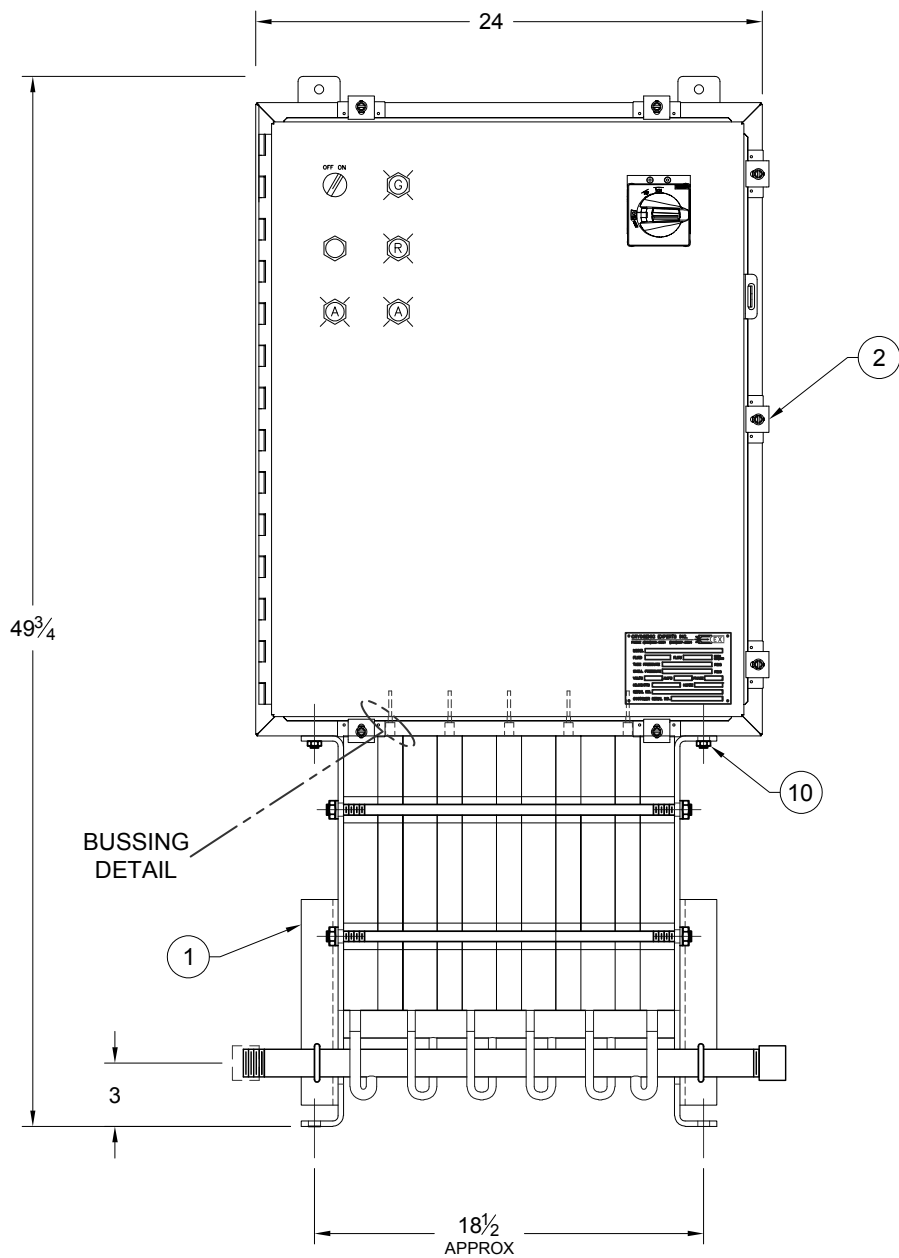
60KW Pressure Build Unit



BUSSING DETAIL

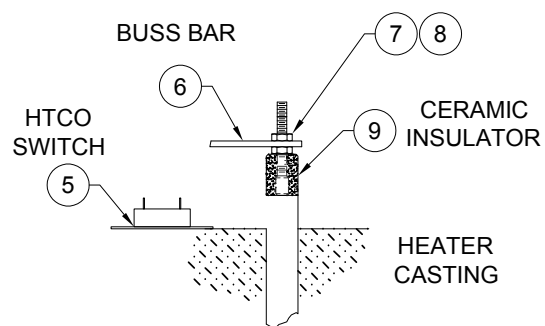
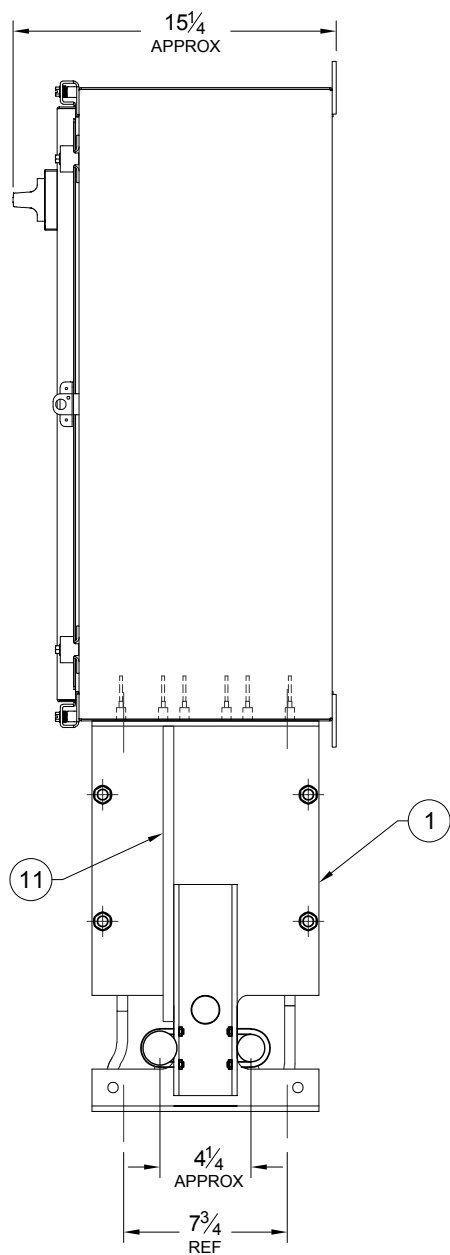
Electric Vaporizers And Electric Pressure Builder Drawings

75KW DTP Vaporizer with LTCO



Electric Vaporizers And Electric Pressure Builder Drawings

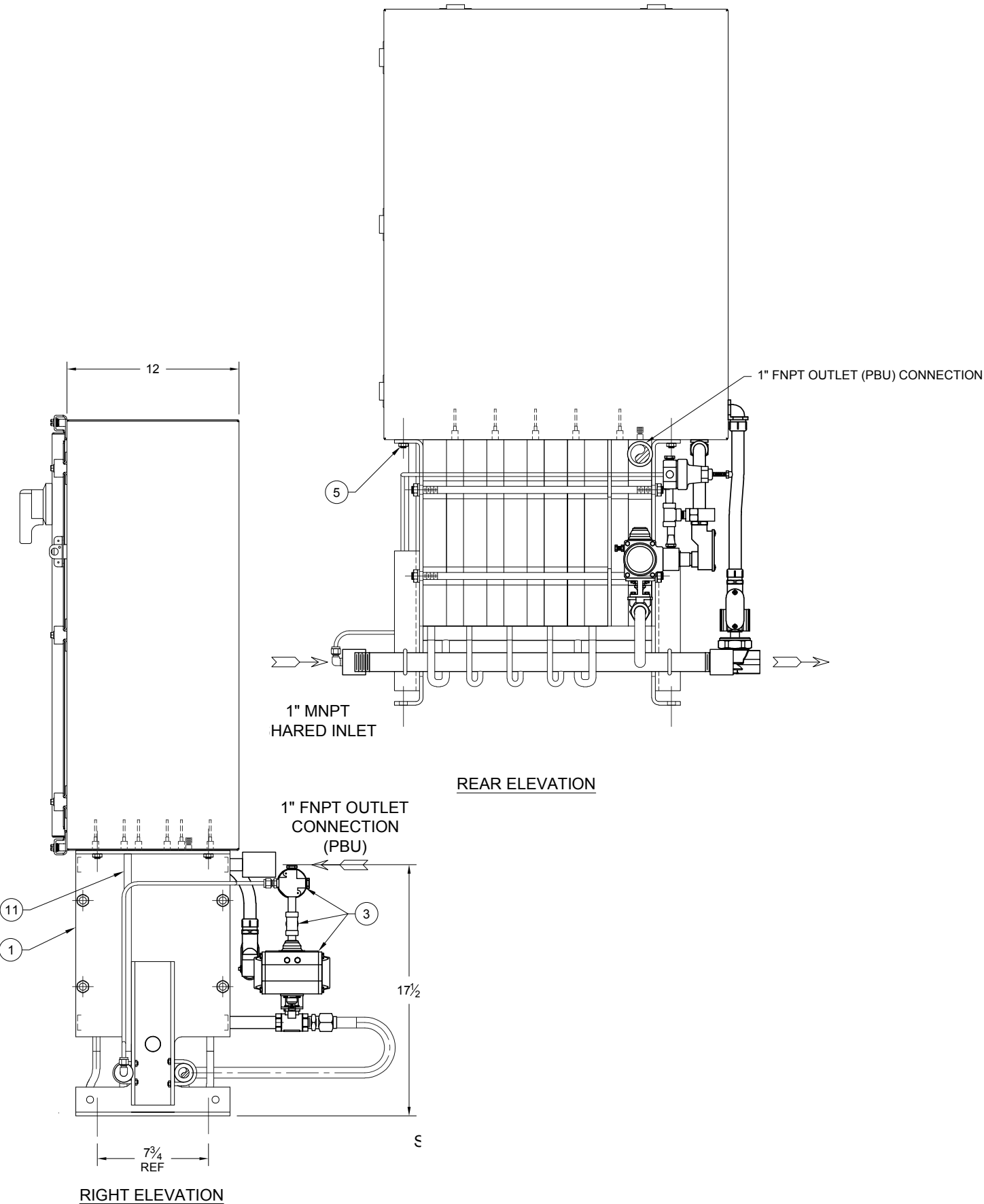
75KW DTP Vaporizer with LTCO



BUSSING DETAIL

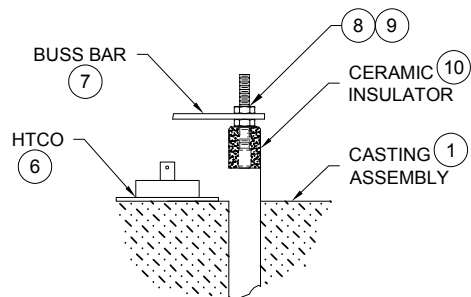
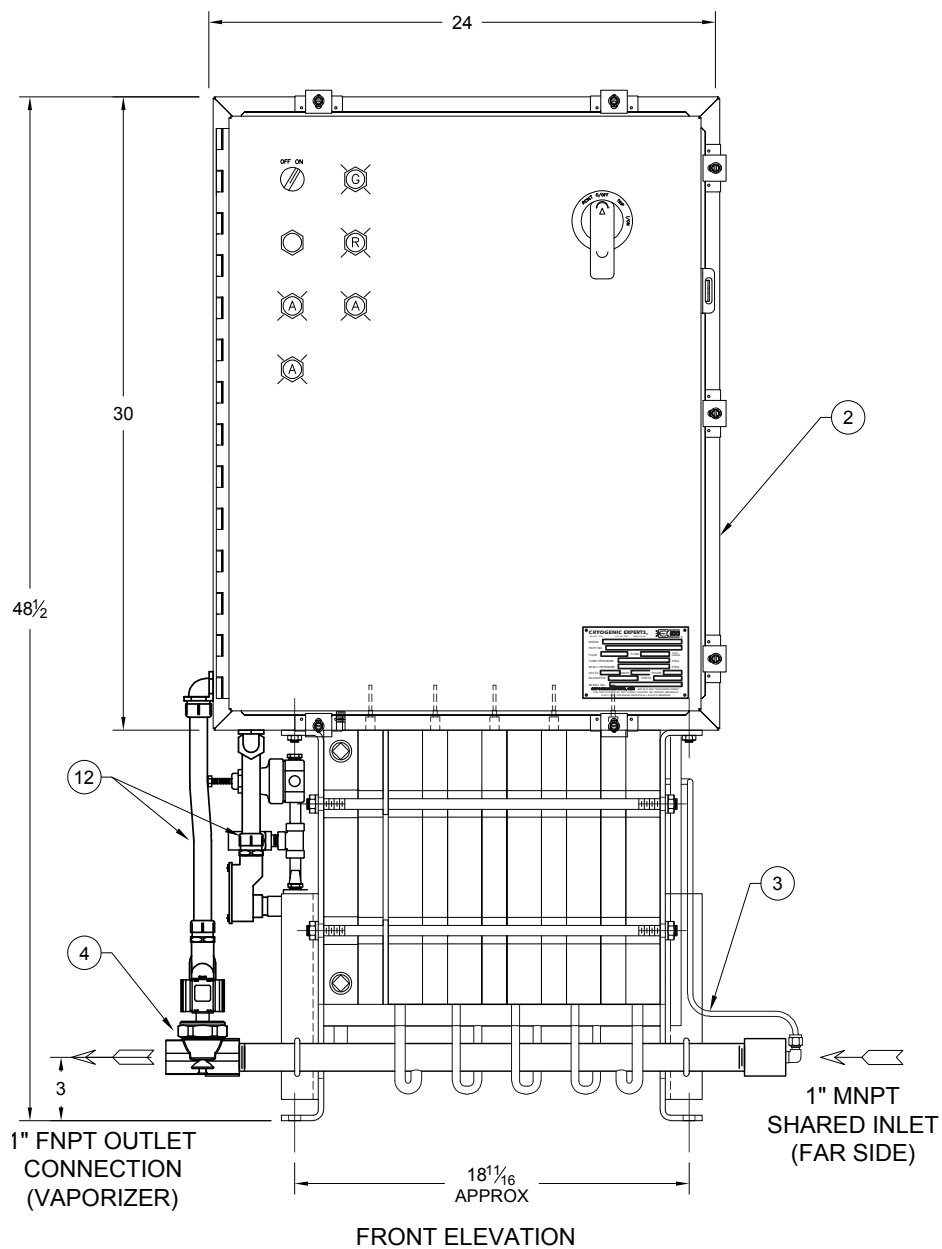
Electric Vaporizers And Electric Pressure Builder Drawings

75KW Dual Unit Vaporizer PBU with LTCO



Electric Vaporizers And Electric Pressure Builder Drawings

75KW Dual Unit Vaporizer PBU with LTCO

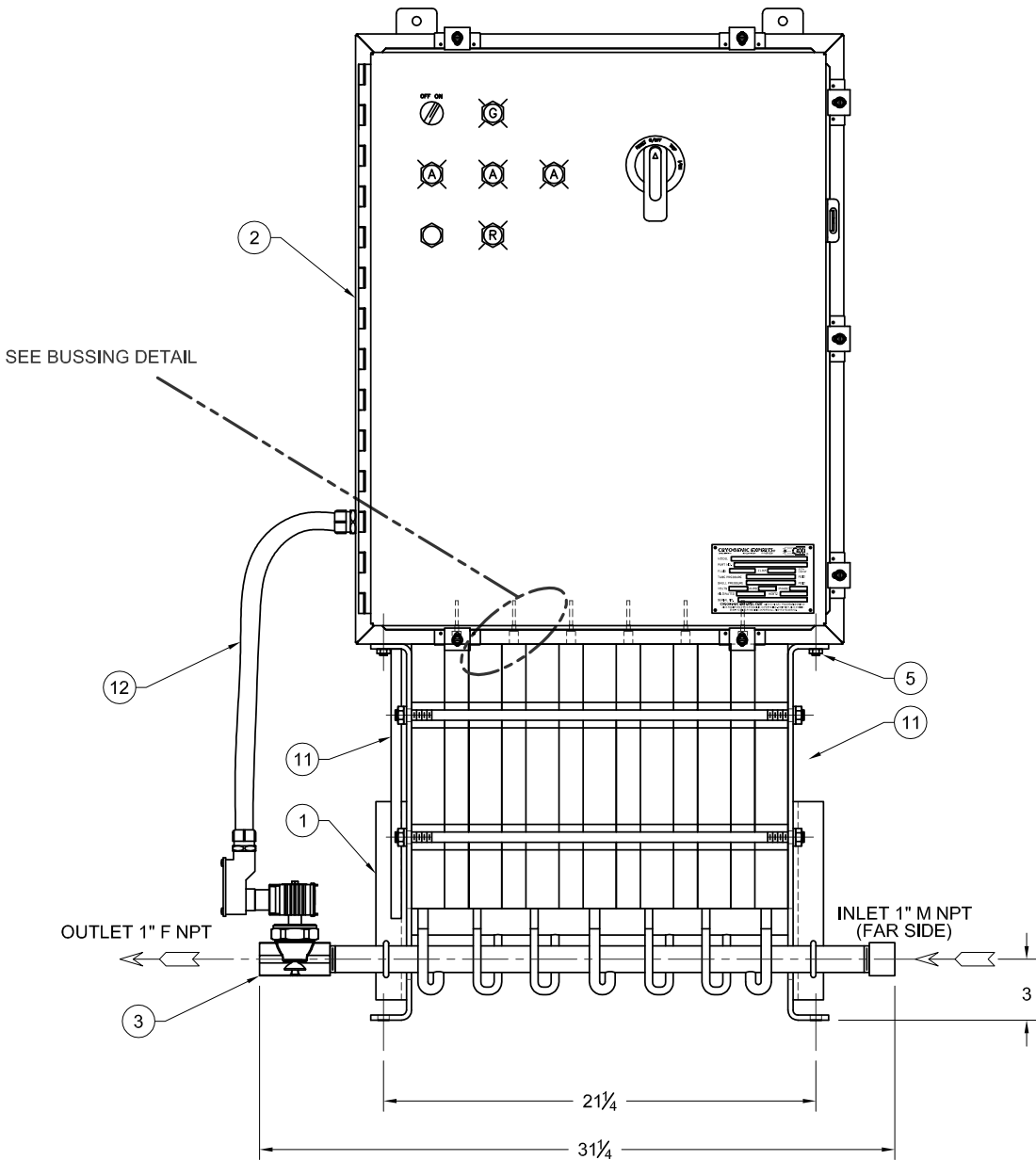


BUSSING DETAIL

— 1" FNPT OUTLET (PBU) CONNECTION

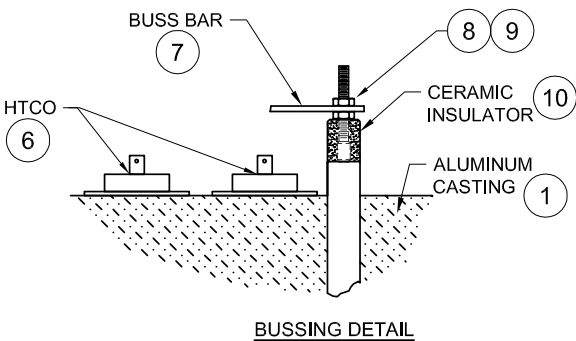
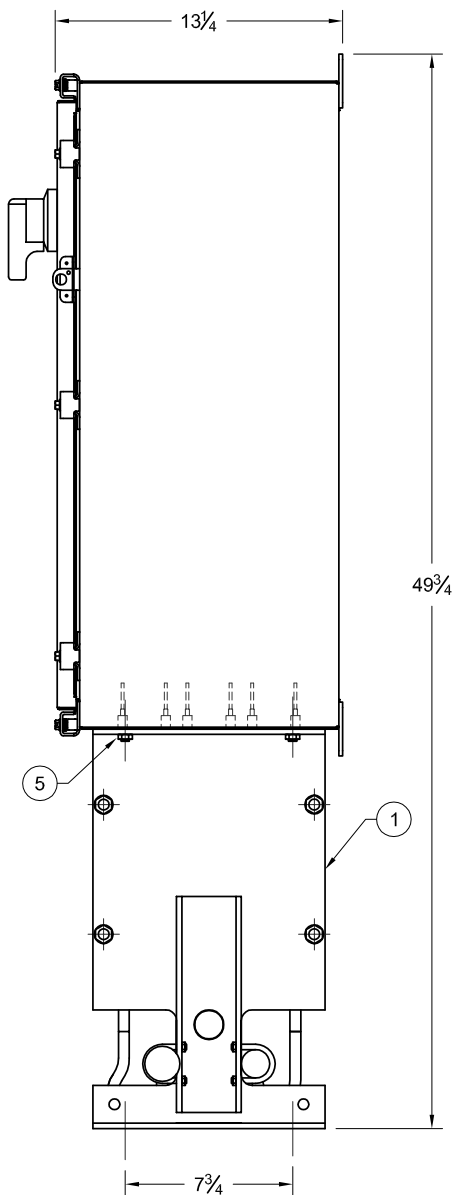
Electric Vaporizers And Electric Pressure Builder Drawings

90KW DTP Vaporizer with LTCO



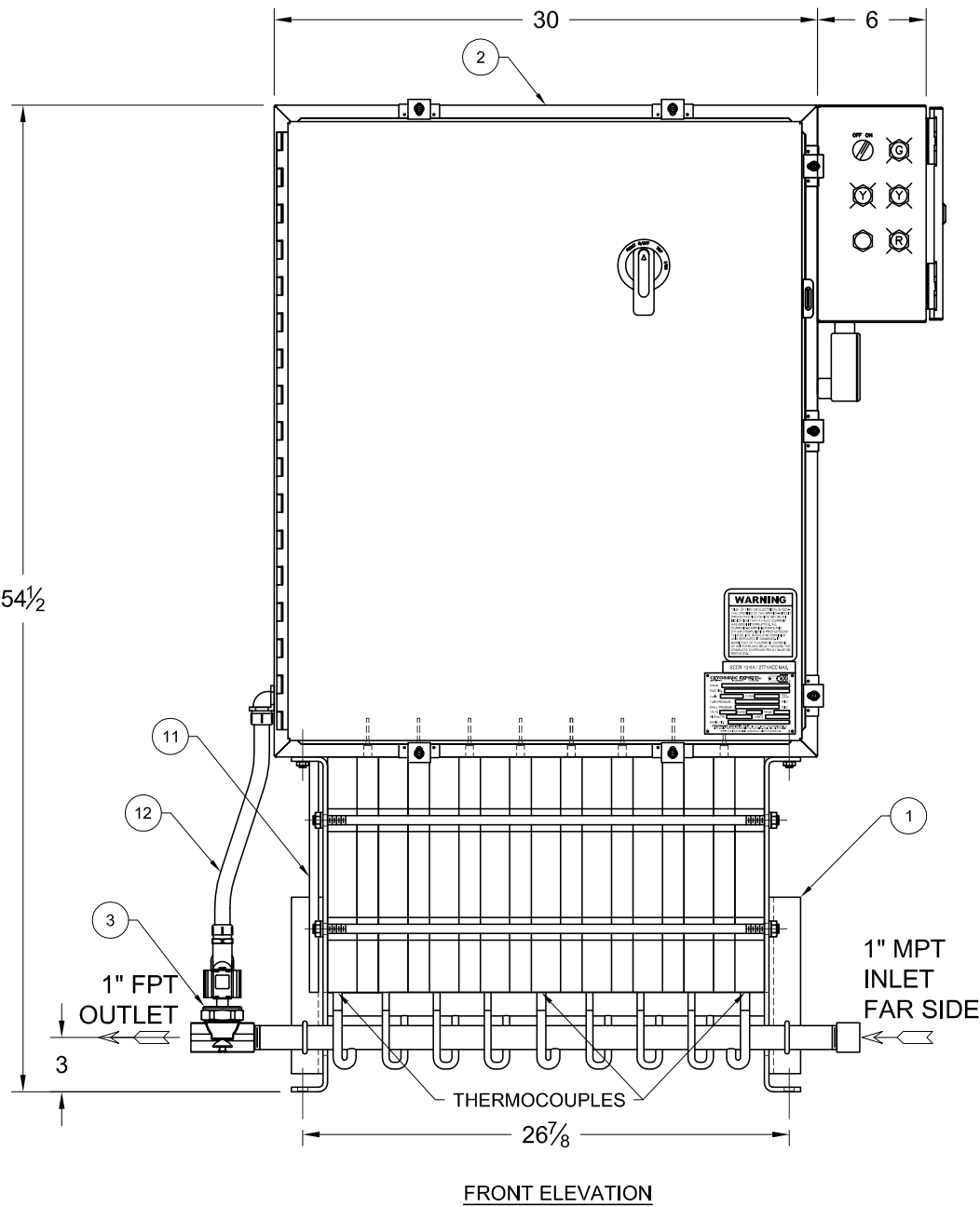
Electric Vaporizers And Electric Pressure Builder Drawings

90KW DTP Vaporizer with LTCO



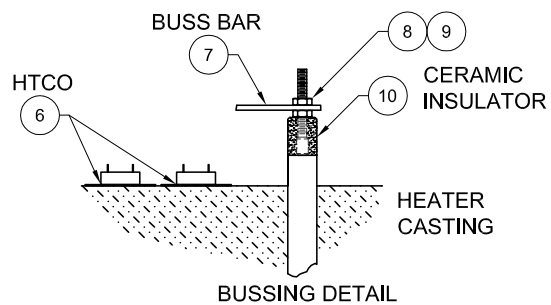
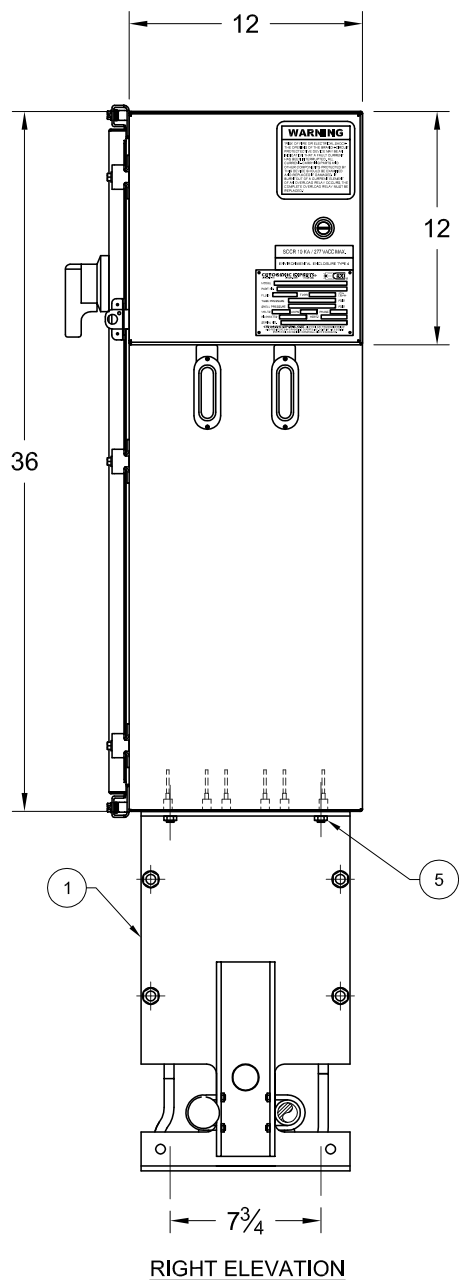
Electric Vaporizers And Electric Pressure Builder Drawings

120KW DTP Vaporizer with LTCO



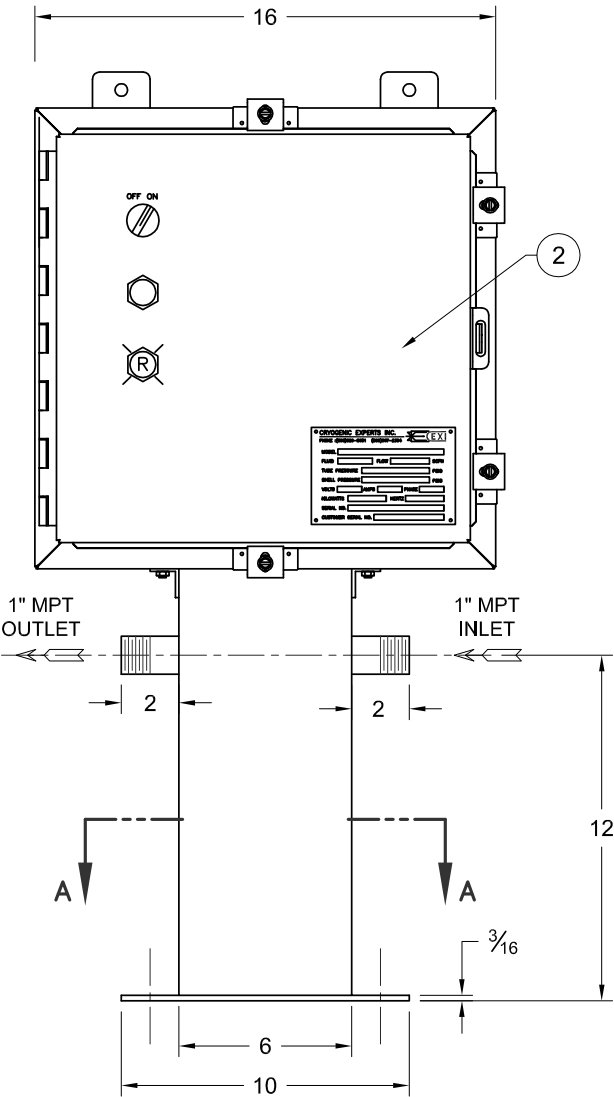
Electric Vaporizers And Electric Pressure Builder Drawings

120KW DTP Vaporizer with LTCO

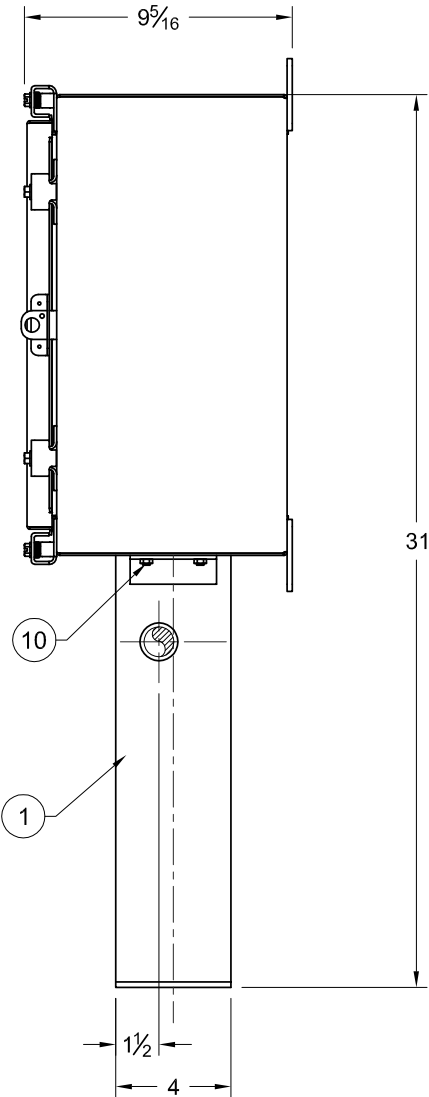


Electric Vaporizers And Electric Pressure Builder Drawings

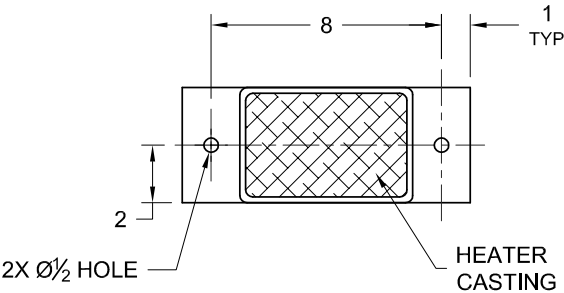
MGH 6-12KW Mini Gas Heater



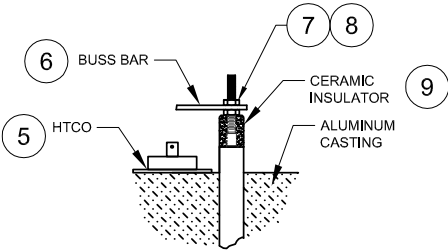
ELEVATION VIEW



SIDE ELEVATION



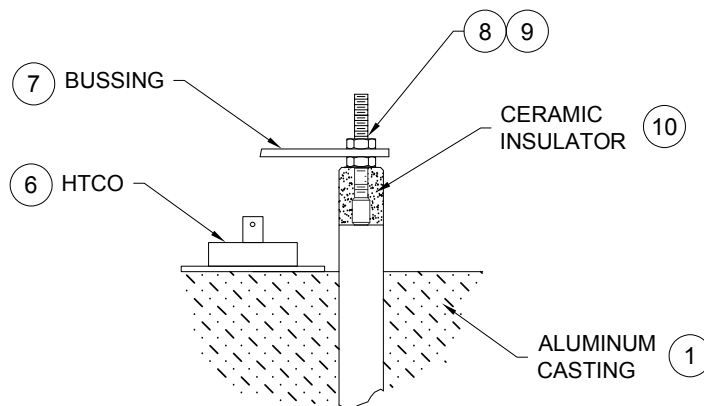
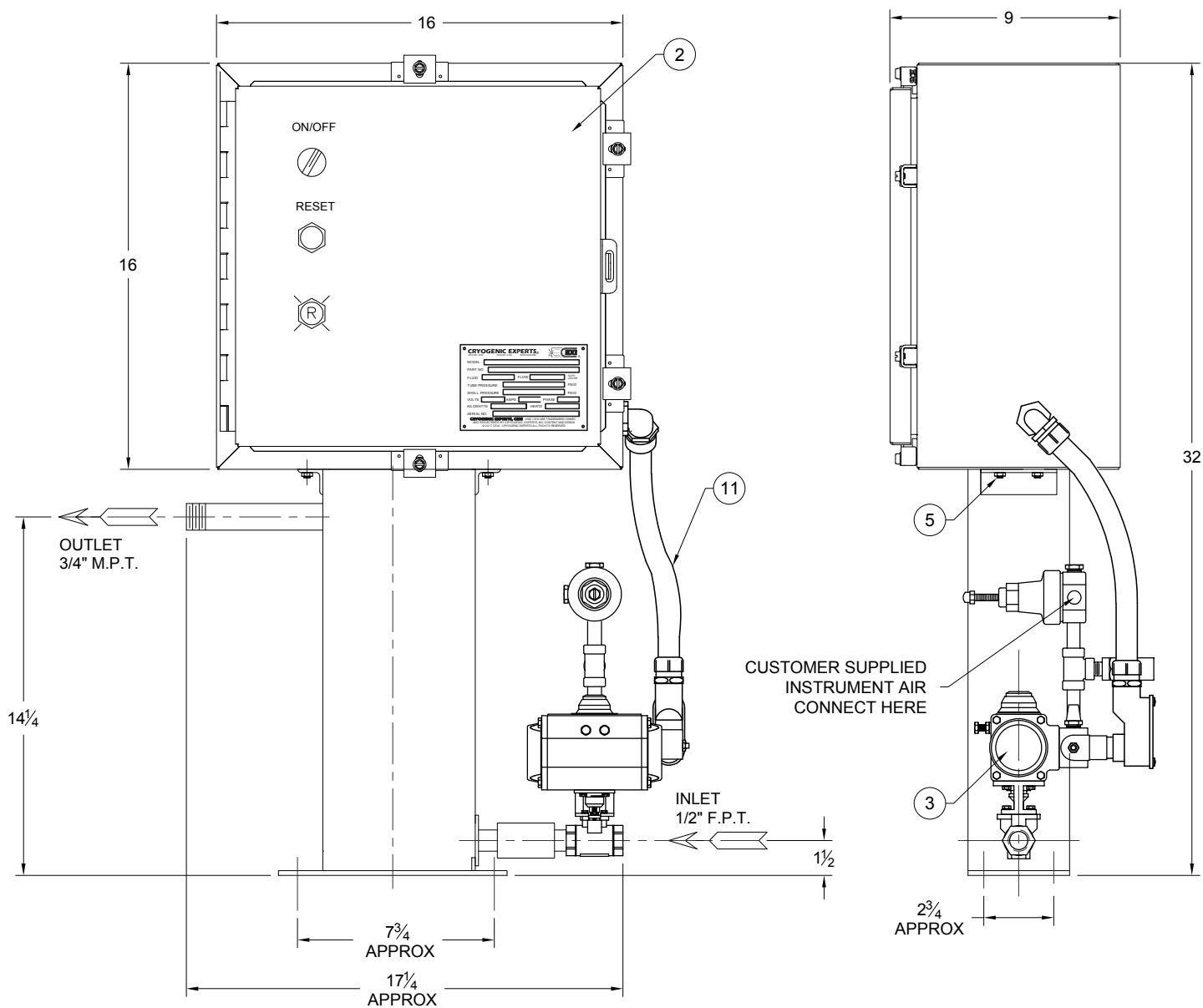
SECTION A-A



HEATER BUSSING

Electric Vaporizers And Electric Pressure Builder Drawings

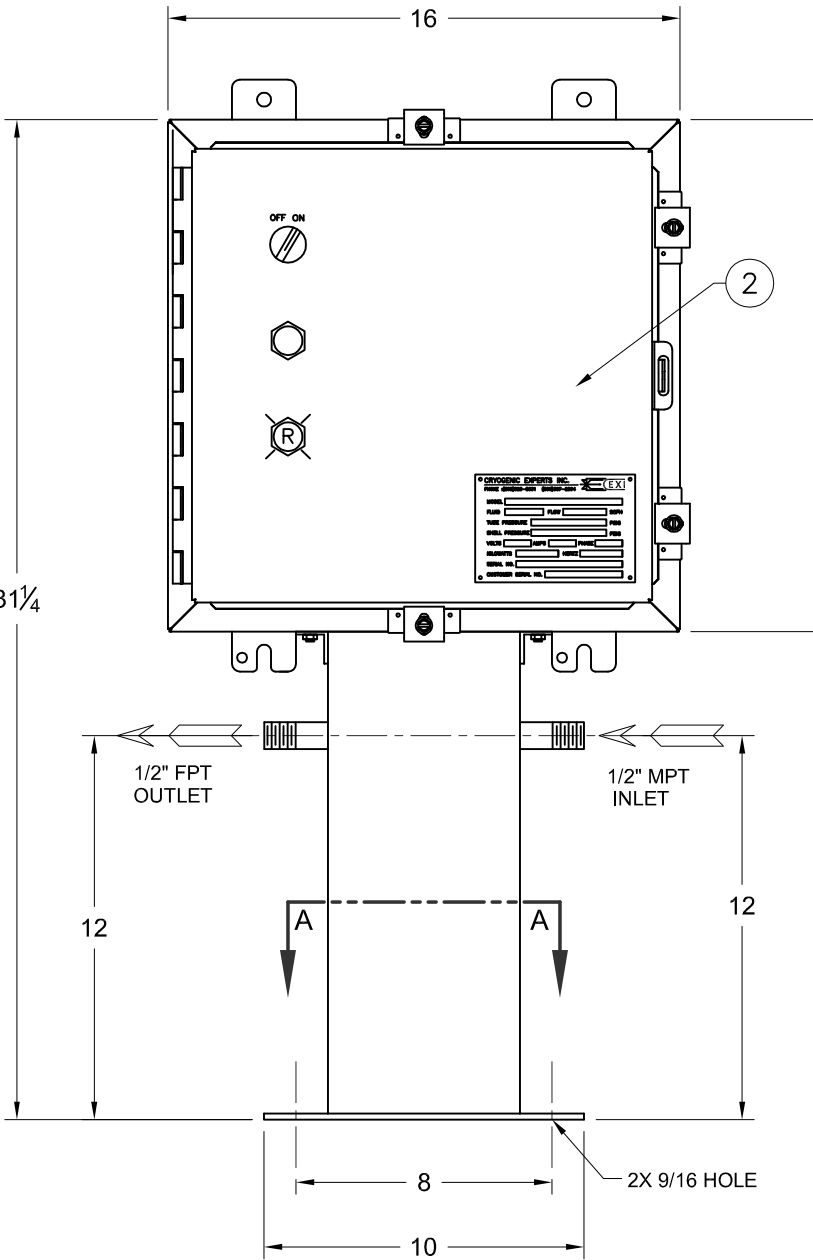
MPBU 6-12KW Mini Pressure Build Unit



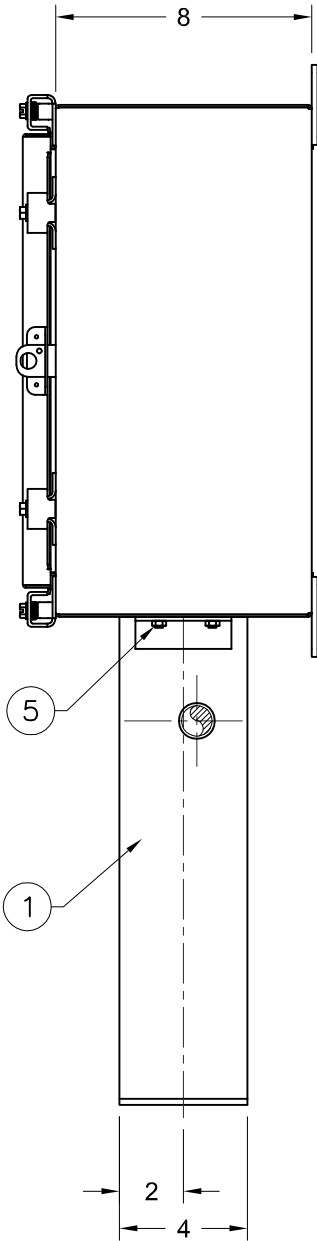
BUSSING DETAIL

Electric Vaporizers And Electric Pressure Builder Drawings

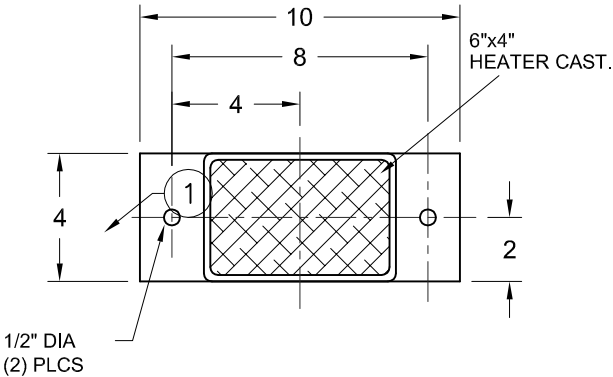
MV 6-12KW Mini DTP Vaporizer



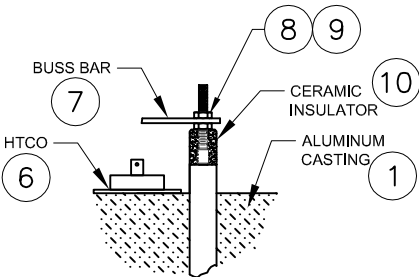
ELEVATION VIEW



SIDE VIEW



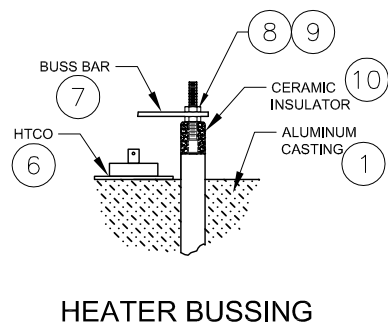
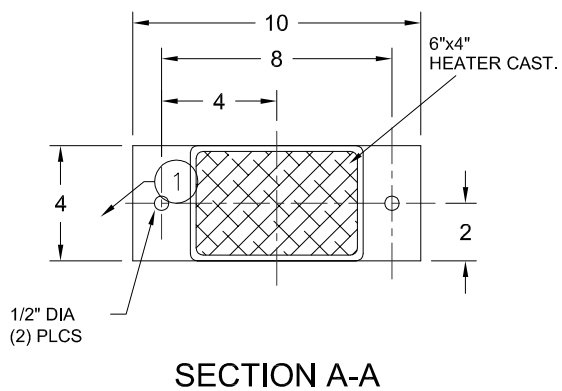
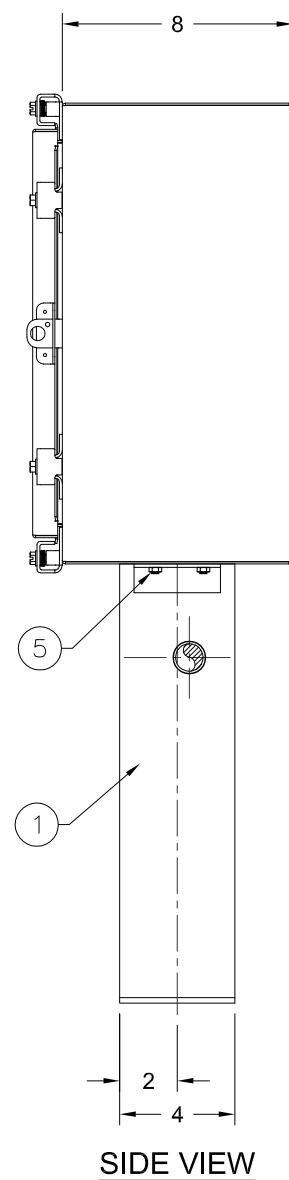
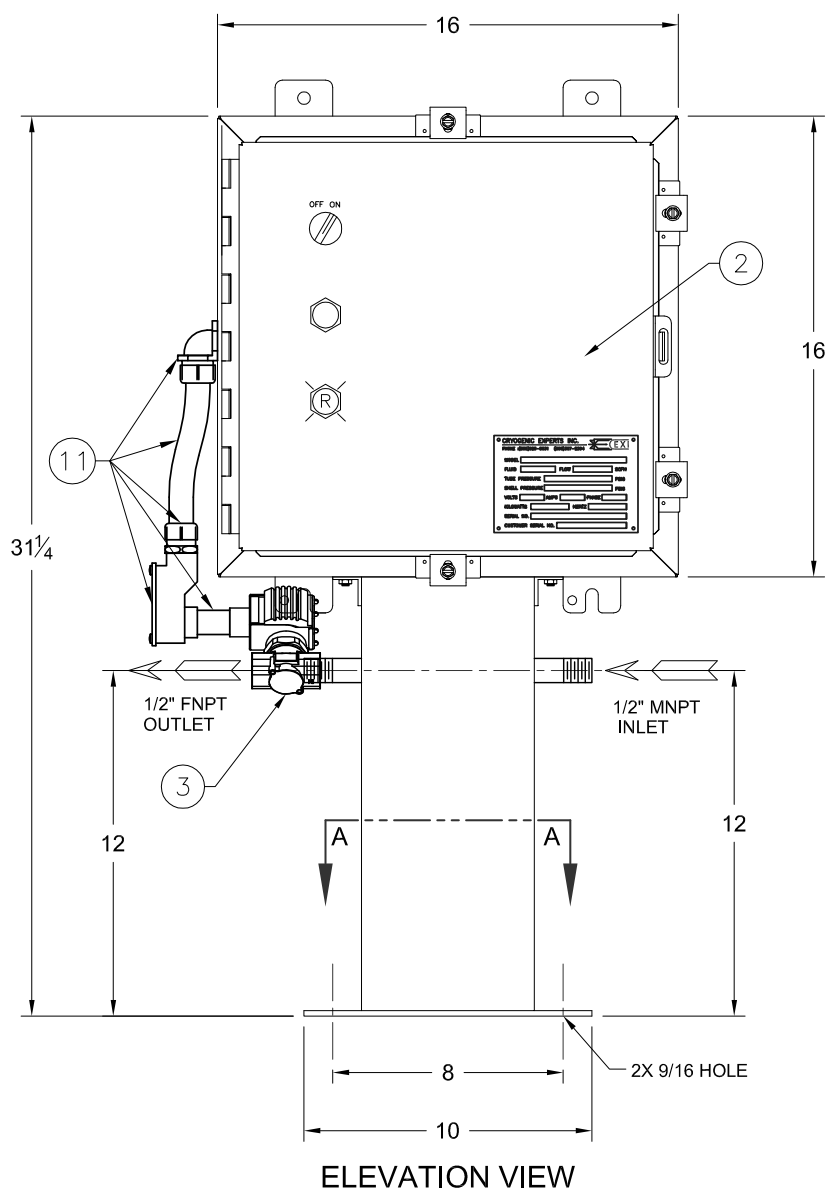
SECTION A-A



HEATER BUSSING

Electric Vaporizers And Electric Pressure Builder Drawings

MV 6 12KW Mini DTP Vaporizer with LTCO



Shell & Tube

Application

Cryogenic Experts offers both steam-heated and forced convection style shell and tube vaporizers for all kinds of fluids including CO2, nitrogen, oxygen, argon, helium, hydrogen, and LNG.

Features

- Simple to install
- Weatherproof
- Low pressure drop
- ASME compliance
- Low maintenance
- Design available for any gas at any pressure
- Flow rates to 933,000 SCFH available
- Fast response
- Compact size
- Complete package
- Minimum energy waste
- Easy tube bundle removal
- Modular shell and tube type heat exchanger



Shell And Tube Steam Vaporizer

Shell And Tube Steam Vaporizer

Features

- Continuous or intermittent duty
- NEMA 4 electrical enclosure
- Capacities to 460,000 SCFH
- High reliability factor
- Fully automatic controls
- 304 stainless-steel manifold and tube bundle
- Insulated to minimize heat loss
- Aluminum or stainless-steel weather jacket
- Protective coating inside and outside of tank
- Steam train with block / bypass valves
- Condensate trap
- PID temperature controller
- ASME flange connections
- Low temperature cut-off system (LTCO)
- Optional pressure build capability
- ASME Code stamp

Liquids Vaporized

- Oxygen
- Nitrogen
- Argon
- Carbon Dioxide
- Hydrogen
- Helium
- Propane
- LNG

Ordering Information

Description	CO2	N2,O2,Ar		Steam Flow @100 psi
	lbs./hr.	SCFH		
SV 3x8x4	1,000	8,500		200
SV 4x8x8	2,000	17,000		350
SV 5x8x12	3,000	26,000		500
SV 6x8x18	4,500	35,000		800
SV 6x8x24	6,000	52,000		1,000
SV 8x8x40	10,000	88,000		1,700
SV 10x8x70	17,500	152,000		3,000
SV 12x8x114	28,500	250,000		4,200
SV 14x8x140	35,000	400,000		5,000
SV 16x8x200	56,300	600,000		8,000
SV 18x8x230	64,700	690,000	Check	9,300
SV 20x8x311	87,500	933,000		12,300

Forced Convection Water Bath Vaporizer

Features

- Energy-free vaporization
- Automatic controls prevent freeze-up
- Stainless steel tube bundle
- Simple installation and low maintenance

Options

- Low temp safety shutdown
- Low outlet gas temp
- Low water temperature
- Inlet water temperatures as low as 40 degrees F
- Recirculation pump and controls
- ASME code stamp

Standard Connections are MNPT. ANSI or Mueller flanges optional

*Rating based on 24 hours of continuous service.

For 8 hour rating multiply model no. x 714.

Std units: 10' extrusion length. 159" overall height



**Forced Convection Water
Bath Vaporizer**

Ordering Information

Specifications			
Model No	GPM	CO ₂ LBS / Hour	Nitrogen / Oxygen SCFH
FCWB 3 x 8 x 4	30	1000	12000
FCWB 4 x 8 x 8	60	2000	24000
FCWB 6 x 8 x 28	210	7000	84000
FCWB 8 x 8 x 40	300	10,000	120000
FCWB 10 x 8 x 70	550	17,500	210000
FCWB 12 x 8 x 114	850	28,500	342000
FCWB 14 x 8 x 140	1050	35,000	420000
FCWB 16 x 8 x 200	1500	50,000	600000
FCWB 18 x 8 x 230	1700	57,500	690000
FCWB 20 x 8 x 311	2300	77,750	933000

Water Bath Vaporizer

Application

CEXI builds systems that are able to utilize the waste heat found in many industrial applications. By doing this, our team can often save our customers substantial money in energy costs. Our water bath vaporizer equipment can utilize water all the way down to 35°F for the heat source.

Features

- CO2 and all gases
- Hot water applications
- Special temperature control applications – water flow control and temperature control systems
- Systems with pump and fully automatic controls



Water Bath Vaporizer

Steam Heated Water Bath

Features

- Provides surge capacity
- Continuous or intermittent duty
- NEMA 4 electrical enclosure
- Capacities to 460,000 SCFH
- High-reliability factor
- Fully automatic controls
- Insulated to minimize heat loss
- Aluminum or stainless-steel weather jacket
- Protective coating inside and outside of tank
- Steam train with block/bypass valves
- PID temperature controller
- Low-temperature cut-off system (LTCO)

X & Y are footprint dimensions.

Liquids Vaporized

- Oxygen
- Nitrogen
- Argon
- Carbon Dioxide
- Hydrogen
- Helium
- Propane
- LNG



Steam Heated Water Bath

Ordering Information

Specifications		N ₂ / O ₂	CO ₂
Model	Steam Flow Required lbs / hr	SCFH	lbs./hr
SHWB 100	210	12,000	1500
SHWB 250	560	41760	4000
SHWB 350	910	67860	6500
SHWB 500	2,000	125,000	12000
SHWB 800	2380	178,000	17000
SHWB 1000	3080	230,000	22000
SHWB 1500	5180	386,000	37000
SHWB 2000	6160	460,000	44000

Electrically Heated Water Bath

Features

- Provides surge capacity
- NEMA 4 electrical enclosure
- Continuous or intermittent duty
- Full electrical controls
- Circuit breaker disconnect with door interlock
- Capacities to 450,000 SCFH
- Unit can be designed to provide up to 1 hour back-up with no utility
- Maintains minimum water level for tube bundle protection
- Protective coating inside and outside of tank
- Insulated to minimize heat loss
- PID temperature controller
- ASME flange connections
- Low temperature cut-off system (LTCO)
- Stainless-steel weather jacket

Ordering Information

Specifications			
Model	Kilowatts	N ₂ / O ₂	CO ₂
		SCFH	lbs./hr
EHWB 100	75	15000	1250
EHWB 250	150	33,000	3,200
EHWB 350	250	60,000	5625
EHWB 500	400	92,000	8,700
EHWB 800	670	152,000	14,500
EHWB 1000	930	200,000	18750
EHWB 1500	1200	360000	30000
EHWB 2000	1500	450000	37500

Liquids Vaporized

- Oxygen
- Nitrogen
- Argon
- Carbon Dioxide
- Hydrogen
- Helium
- Propane
- LNG



Electrically Heated Water Bath

Specialty Vaporizers

Application

Acme Cyogenics/ CEXI provide two types of Specialty Vaporizers, the J Disposal Vaporizer and the Phase Separator.



Specialty Vaporizers

Phase Separator

Features

- Removes gas from liquid streams
- NEMA 4 electrical enclosure
- Capacities to 400 lbs./minute
- High reliability factor
- 304 stainless-steel construction
- Differential pressure transmitter for monitoring process
- Process controller
- Vent valve
- Pressure relief valve
- Vacuum- and mylar wrap-insulated to minimize heat loss
- Pipe extensions for welding to existing piping

Liquids Processed

- Oxygen
- Nitrogen
- Argon
- Carbon Dioxide



Phase Separator

Ordering Information

Specifications			
Model No	Connection	lbs/hr	N2/O2
PS4-30-1/2-350	1"	Pipe, 1/2" Vent	125
PS6-48-1-350	2"	Pipe, 1" Vent	400

J Disposal Vaporizer

Features

- TEFC fan motor mounted outside air stream
- Full belt guard and external fan grease fittings
- Backward curved centrifugal fan
- Capacities to 196,000 SCFH
- High reliability factor
- Aluminum tank lining
- Aluminum vent stack – 16 feet tall
- Ring style fluid nozzle
- Sensors monitor fan vibration, tank bottom temperature and pressure
- NEMA 4 enclosure for sensors

Liquids Vaporized

- Oxygen
- Nitrogen



J Disposal Vaporizer

Ordering Information

Specifications			
Model No		N2 / O2	
	Connections	SCFH	Fan HP
JDV-28-16-15	2" ASME Flange	196,000	15

Notes

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