



Q2272B

ECD 48"D x 12'L

Walsh Engineering

5/8/2015

APPRECIATION

Cimarron appreciates the opportunity to provide you with a proposal for an ECD.

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1.0 CODES, STANDARDS AND SPECIFICATIONS

The following Codes, Standards and Specifications shall be considered part of this specification. All documents shall be the latest editions, with addenda or supplements in effect at the time of purchase. Exceptions shall be expressly stated on the drawing, data sheet or purchase sheets.

- 1.1 The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section VIII, Division 1, Pressure Vessels.
- 1.2 ASME Boiler and Pressure Vessel Code, Section V, Non-destructive Examination.
- 1.3 American Petroleum Institute (API) – 12j, Specification for Oil and Gas Separators.
- 1.4 American Petroleum Institute (API) – 12k, Specification for Indirect Type Oil-Field Heaters.
- 1.5 The American Society of Mechanical Engineers (ASME) – B16.5, Flanges and Flanged Fittings.
- 1.6 The American Society of Mechanical Engineers (ASME) – B31, Standards of Pressure Piping.
- 1.7 American Welding Society (AWS) – D1.1, Structural Welding Code.
- 1.8 Gas Processors Suppliers Association (GPSA).
- 1.9 Occupational, Safety and Health Administration (OSHA)

2.0 Scope

This specification covers the basic requirements for the design and fabrication for an ECD.

3.0 (1) ECD- 48"D x 12'L- Vertical, 30 MCF/D max.

- | | | |
|------|------------------|--------------------------|
| 3.1 | Dimensions | 48"D x 12's/s |
| 3.2 | MAWP | Atmospheric |
| 3.3 | MMBTU/HR | 3.2 MMBTU/HR |
| 3.4 | Jets | 210 Stainless Steel Jets |
| 3.5 | Flamecell | 48" |
| 3.6 | Burner | 26"Lx27"W |
| 3.7 | Back draft cell | 3" |
| 3.8 | Concrete pad | 72"x72"x6" |
| 3.9 | Inlet Connection | 3" NPT |
| 3.10 | Pilot Regulator | ¼" Fisher 67CR-206 |

<u>Description</u>	<u>Qty.</u>	<u>Price</u>
ECD 48"D x 12'L	(1-25)	\$11,600 each
ECD 48"D x 12'L	(26+)	\$11,020 each

Options

Cimarron ARC Ignition	(1)	\$1,750 each
Cimarron ARC Hybrid Ignition	(1)	\$3,120 each
Cimarron ARC SAU Ignition	(1)	\$3,320 each
Cimarron Actuator Valve	(1)	\$760 each
Sentry Datalogger	(1)	\$750 each
Safety float (3x6)	(1)	\$425 each
Drip Pot (20"D x 36"L)	(1)	\$1,025 each
Drip Pot (24"D x 48"L)	(1)	\$1,595 each

**Cimarron ECDs are enclosed flares designed to burn VOC tank vapors from atmospheric production tanks only.

**Cimarron Ignition product descriptions: (Have alarm output for automation)
 ARC – Is our basic Ignition system to light and relight pilot. This system is flexible and is easy to upgrade if needed in the field.

ARC Hybrid – Upgrade to the basic ARC system to control the flow of gas to the ECD in the event of pilot failure. This system requires an inlet valve to operate. We recommend the Cimarron Actuator noted in options.

ARC SAU – Upgrade to the basic ARC system to control an inlet control valve (Cimarron Actuator) to open and close based on oz. of pressure of the waste gas stream coming from the tanks. Standard setup is to open at 5 oz. and close at 2 oz. These ranges are adjustable and can be modified in the field.

**Cimarron Actuator valve: 2 ½" Valve with plunger assembly (See attached spec sheet)

**Sentry Datalogger: See attached spec sheet

**Safety float: 3"x6" is a ball check that is plumbed on the outlet of the drip pot to prevent any slugs of liquid entering the ECD burner. (See ECD user manual)

**Drip pot: is a liquid KO that is plumbed inline from the production tanks to the ECD to KO heavy liquids that may carry over from the tanks. (See ECD user manual)

Delivery: 3-4 weeks ARO on first 1-10 units

Terms: Net 30