

Section: R406.015-1
Date: 3-31-2020
Supersedes: 6-22-2018
Page 1

ELECTRODELYE FURNISHED WITH 30-INCH, HIGH-TEMPERATURE LEADS CONNECTED TO EACH ELECTRODE FITTING
USE 1B A.W.G. TEFLON INSULATED WIRE
EL-454 & EL-1000 USE TYPE E
MIL-W-16978B
EL-1840 USE MIL-W-25038

ITEM	PART NO.	QTY.	DESCRIPTION	MATERIAL	FIG. NO.
1	EL-1P	1	BODY, SEAMLESS STEEL PIPE	ASTM A106	
2	ELF-2	1	ELECTRODE FITTING HOUSING	SHEET STL B-9124	
3		2	SCREW, R. H. MACH. 10-24 X 3/8	BRASS	
4	W	20	ELECTRODE FITTING ASSEMBLY		
5	HW	20	GASKET		
6		1	SCREW, R. H. MACH. 10-24 X 1/2	BRASS	
7		2	NUT, HEX 10-24	BRASS	

NOTES

- 1) FOR PRESSURES OVER 1800 PSI SEE CLF 3849 ELECTROLYE ASSEMBLY PER DWG. NO. 3-0120
- 2) SHUTOFF VALVES SHOULD BE PLACED BETWEEN STEAM DRUM AND ELECTROLYE
- 3) MODEL NO.:
 - DEL450-10 W.S.P. 0-450 P.S.I. AT 450°F.
 - *TWO ELECTRODE ASSEMBLY
 - *HCH-13 GASKET
 - *HYDROTEST @ 700 P.S.I.
 - (DEL1000-10 W.S.P. 451-1000 P.S.I. AT 545°F.
 - *TWO ELECTRODE ASSEMBLY
 - *HCH-10 GASKET
 - *HYDROTEST @ 1500
 - (DEL1800-10 W.S.P. 1001-1800 P.S.I. AT 621°F.
 - *TWO ELECTRODE ASSEMBLY
 - *HCH-10S GASKET
 - *HYDROTEST @ 2700 P.S.I.
- 4) CUSTOMER TO SPECIFY:
 - (A) MODEL OF ELECTROLYE
 - (B) TYPE OF S & W CONN.
 - (C) STD. OR W/PROOF HOUSING
- 5) MINIMUM SPACING BETWEEN PROBES IS 1"
- 6) MINIMUM DISTANCE BETWEEN PROBE AND STEAM CONN. IS 1"
- 7) MINIMUM E DIMENSION IS 1"

THE CLARK-RELIANCE CORP.
STRONGSVILLE, OHIO U.S.A.
MODEL EL450, EL1000, & EL1800
20 PROBE ELECTROLYE ASSEMBLY

SCALE: NONE DATE
DRAWN BY _____
CHECKED BY _____
NO. _____

Reliance®
A PRODUCT OF CLARK-RELIANCE

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Must accompany P.O with all
fields completed

Customer: _____ Contact Name: _____
Project Name: _____ E-mail: _____
Project Location: _____ Phone Number: _____
Date: _____ RFQ/P.O. Number: _____

ELECTROLEV COLUMN REQUIRED INFORMATION

STEAM & WATER CONNS.

(3/4", 1", or 1 1/2" MSW Pipe Projection are standard)

Steam & Water Connections (other than standard –
specify size & type Req'd.): _____

Design Pressure: _____

Design Temperature: _____

Model No.: _____

Male Socket Weld
(Pipe Projection): _____

Female Socket Weld: _____

Flange Size: _____

Flange Class: _____

Flange Face: _____

Other (please
specify): _____

Model Number	Probe Model	Max. System WSP			Max. Temp.	
		PSIG	BarG	Kg/cm ²	° F	° C
EL450-20	T020	450	31	31.6	456	236
EL1000-20	V020	1000	69	70.3	545	285
EL1800-20	ZG020	1800	124.1	126.5	621	327
ELF3000-20	FG031	3000	206.9	210.8	695	368
ESB3000-20	FSB030	3000	206.9	210.8	695	368

Brazed probe option:: ZB Probe ☐ FB Probe ☐

DRAIN CONN.

(1/2" FSW is standard with Electrolev Column)

Drain Connection (other than standard – specify
size & type Req'd.): _____

Female Socket Weld: _____

Male Socket Weld
(Pipe Projection): _____

Flange Size: _____

Flange Class: _____

Flange Face: _____

Other (please specify): _____

OPTIONS REQUIRED

Vent connection (Specify
size & type): _____

Integral junction box: NEMA 4 ☐ NEMA 4X ☐

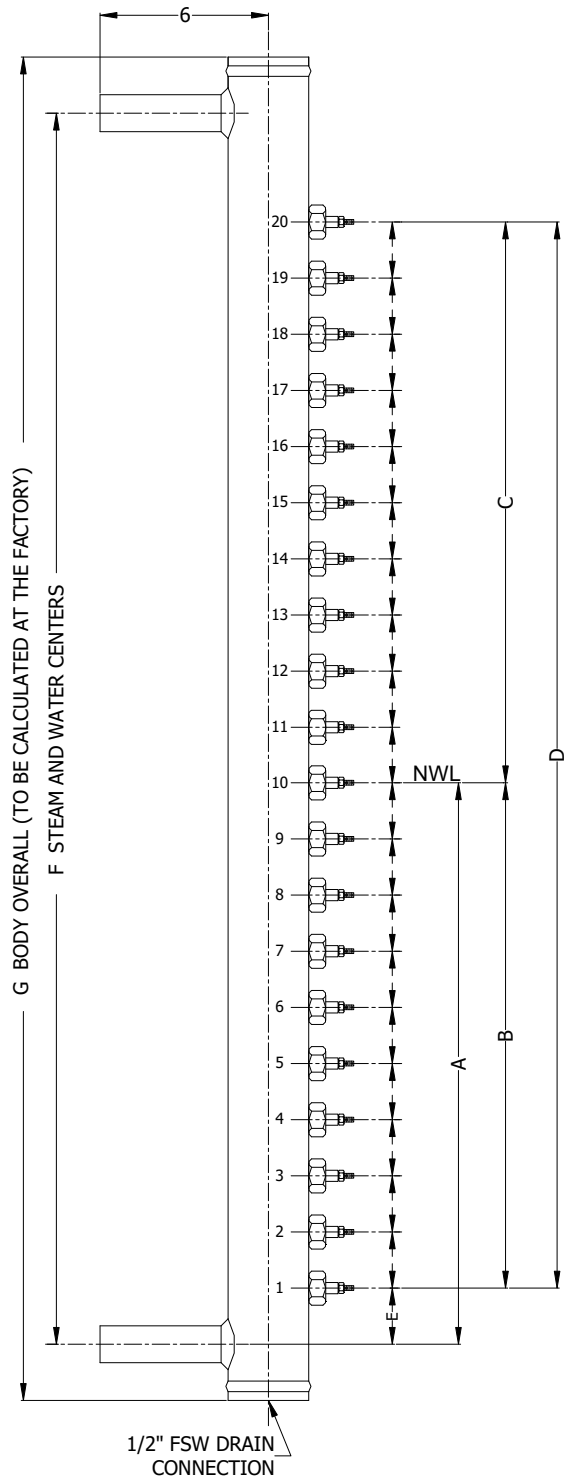
Additional probe wire
(specify length required): _____

FlexPak Insulation
Jacket: ☐

Other (please specify): _____

REQUIRED DIMENSIONAL INFORMATION

Section: R406.015-1
Date:3-31-2020
Supersedes: 6-22-2018
Page 3



A	
B	
C	
D	
E	
F	
G	----

PROBE DISTANCE FROM NWL			
10		20	
9		19	
8		18	
7		17	
6		16	
5		15	
4		14	
3		13	
2		12	
1		11	

- DIMENSIONAL NOTES:
- 1) MINIMUM DISTANCE BETWEEN PROBES IS 1"
 - 2) MINIMUM "E" DIMENSION IS 1"
 - 3) MINIMUM DISTANCE BETWEEN TOP PROBE AND STEAM CONNECTION (UPPER CONNECTION) IS 1"

Additional notes:

Note: This illustration shows Probe #10 as NWL. However, this location could vary depending on the application. Please signify NWL as "0" in the applicable box

CONTROL UNIT REQUIRED INFORMATION

Section: R406.015-1
Date: 3-31-2020
Supersedes: 6-22-2018
Page 4

Base Model Number:

ECIL-20R

Power Requirements:

120 VAC ☐

240 VAC ☐

Enclosure Required

NEMA 1 (Std.) ☐

NEMA 4 (W'proof) ☐

NEMA 4X (W'proof) ☐

Stn. Stl.)

NEMA 7 (Ex'proof) ☐

No Enclosure Req'd. ☐

Conduit hubs ☐

Quantity _____ Size _____

Environment:

Indoor ☐

Outdoor ☐

Hazardous
Area ☐



ECIL-12R
Control Unit
shown

Options Required:

☐ ECID-69 Fault Detector 120 VAC

☐ ECID-70 Fault Detector 240 VAC

☐ ECID-71 System Exerciser Switch

☐ PC-27 4-20 mA Output signal Package

☐ Dead Band Relays

☐ Slave Relays for additional Aux. contacts

☐ Voting Logic Package

☐ ECTSLR Test Switch

☐ ECID-66 Intrinsically Safe Barrier for probe circuit

☐ ECID-67 Intrinsically Safe Barrier for indicator circuit

☐ PSD Power Supply Diverter 120 VAC ☐ 240 VAC ☐

Relay Requirements:

Direct Mode (Std.)

Inverse Mode (Specify Probe Location) _____

Water Conductivity (Normal is 10 – 50 mho) _____

Time Delay (Specify Probe Location) _____

Other Requirements: _____

INDICATOR REQUIRED INFORMATION

Type of Indicator Required

- ☐ Miniature LED Indicator (Red Lights only)
- ☐ MTI Miniature LED Bi-color Indicator (Red/Green Lights)
- ☐ SMI Sub-miniature LED Bi-color Indicator (Panel Mount)
- ☐ SMI Sub-miniature LED Bi-color Indicator (Encl. Door Mount)

Environment

- ☐ Indoor
- ☐ Outdoor
- ☐ Hazardous Area

Indicator Options

- ☐ Wall Mounting Bracket
- ☐ Weatherproof Enclosure
- ☐ Weatherproof Enclosure – NEMA 4X Stainless Steel
- ☐ Conduit hubs
Quantity _____ Size _____
- ☐ NEMA 7/4 Enclosure for SMI Indicators only



MTI-20 Indicator
shown

CABLE REQUIREMENTS

Amount Required (only available in lengths of 100, 500, or 1000 feet)

- _____ X174882 18 AWG Cable 15 Conductor
- _____ X174883 18 AWG Cable 25 Conductor
- _____ X174808 18 AWG Shielded Cable 4 Conductor
- _____ X174886 16 AWG Cable 19 Conductor (High Temp.)
- _____ X174887 16 AWG Cable 4 Conductor (High Temp.)
- _____ X174895 16 AWG Cable 9 Conductor (High Temp.)