



Enviro-Equipment Inc.  
10120 Industrial Drive  
Pineville NC 28134

Stock#: EEI-1292

Status: In Stock, Tested

Dimensions: 8' Wide, 6' Long Tongue, 18' Flat, 3' Dove Tail, Weight Approx. 12,000 Pounds (Dry)

Description: Mobile Dual Phase Extraction (MDPE), Aggressive Fluid Vapor Recovery (AFVR), Mobile Multiphase Extraction (MMPE) Unit.



- Refurbished Dekker Oil Sealed Liquid Ring Vmax Vacuum System
  - o System Information:
    - Model: VMX0302KA1-00
    - Serial: C16330
    - MFG. Date: 01/01
  - o Pump Information:
    - Pump was likely replaced at some point and not original to the system.
    - Pump Model: DV0300BKA3
    - SERIAL# 013904
  - o Reliance Electric Motor Information
    - 20 Horsepower
    - 230/460 Volt
    - 50.8/25.4 Amps
    - 1760 RPM
    - 256TC Frame



Enviro-Equipment Inc.  
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- ID No. Z25G5103-8
- HZ 60
- Phase 3
- Code G
- Insulation Class F
- TEFC
- Continuous Duty
- Service Factor 1.24
- Ambient 40 Degrees C
- Power Factor 80.6
- Motor Weight 283 Pounds
- Nema Nominal Efficiency 91%
- ASCO Solenoid Valves
  - Model 8030G043V (Oil Circulation Valve)
  - Model EF8215B80 (Oxidizer High Temp Safety Valve)
- 3" Galvanized Steel Exhaust Line with:
  - 3/8" Ball Valve for Sample Port / Anemometer Readings
  - Dwyer LPG3-D8442N Pressure Gauge
    - 0-55" WC Pressure
    - 2.5" Face, 1/4" NPT Back Connection
  - Dwyer BTB3257D Temperature Gauge
    - 3" Dial, 2.5" Stem
    - 50-550F Range
  - Tee with Midwest Control 3" Brass Ball Valves FBB-300 To Allow for Exhaust to Atmosphere Through Rain Cap or Connection to Oxidizer via 3" Aluminum Male Camlock Fitting
- Solberg Vacuum Inlet Filter
  - Model CSL-235P-300
  - Replacement Element 235P
  - Connections 3" MNPT
- Vacuum Gauges – Total of 9 – 1x LRP, 1x Air filter, 1x KO Tank, 6x Manifold
  - Midwest Control Model VFSB25-030
    - 0-30" HG Vacuum Range
    - 2.5" Face, Liquid Filled, 1/4" NPT Back Connection
- EEI Fabricated Knockout Tank
  - Model HVKO-120-500
    - 2 Coats of Epoxy Paint Inside Tank, 1 Coat Epoxy 1 Coat UV Paint on Exterior
    - Amistco Stainless Steel Demister Pad 12" Thick
    - 6" Flanged Cleanout Port
    - 4" MNPT Inlet Connection, 4" FNPT Outlet Connection
    - 2" Transfer Pump Connection with:
      - 2" Brass Ball Valve Midwest Control FBB-200
      - 2" x 1.5" Reducer Coupling
      - 1.5" Brass Wye Strainer Midwest Control YBS-150 with 20 Mesh Screen
      - 1.5" Brass Check Valve Midwest Control SCY-150
      - 1.5" Galvanized Union
    - 3/4" Drain Line with Midwest Control FBB-075 3/4" Brass Ball Valve
    - 2" Clear PVC Sight Glass



Enviro-Equipment Inc.  
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- FPI Sensors Level Float Tree
  - 45 OAL, SS, 2 POLY DUST CAP, THREE LEVEL, 1010.6 FLOAT, SET COLLARS, CENTER DISK
  - L1-43 NO, L2-20 NO, L3-17 NC
  - Fitting: 2" QD Poly Dust Cap, with ½" conduit connection
  - Stem: 5/16" SS, 45 OAL
  - Float: 1" x 1", SS, .60 SG
  - Float Stops: SS set collars
  - L3: 17" NC blue
  - L2: 20" NO yellow
  - L1: 43" NO red
  - Switch: 50 watt, SPST
  - Wiring: 24" leads 22 ga,
  - Centering Disk-1.5" PVC
- Moyno Progressive Cavity Transfer Pump
  - Pump Information:
    - Pump Model Number 35651
    - Order No. 3149777
    - MFG Date 01/15
    - Cast Iron Housing, SS Rotor, Viton Stator
  - Baldor Motor Information:
    - SPEC 35F606W206
    - HP 1.5
    - Volts 208-230/460
    - Amps 5.3-5/2.5
    - RPM 1725
    - Frame 145TCZ
    - HZ 60
    - Phase 3
    - Service Factor 1.15
    - Code K
    - Des B
    - Class B
    - TEFC
  - Outlet has 1.5" Brass Gate Valve Midwest Control BGV-150 and 1.5" Stainless Steel Male Camlock
  - 1.5" Tanker Truck Camlock Hose connects to Flow Meter Assembly
    - Blancett B2600 Monitor
    - Blancett B111-115, 1.5" Turbine Meter
    - 0-100 PSI Pressure Gauge
    - 2" Male Camlock End
- Dilution Air Valve and Filter Assembly
  - Midwest Control 2" Brass Gate Valve BGV-200
  - Solberg Filter Silencer
    - Model FS-30P-250
    - Replacement Element 30P
    - 2.5" MNPT Connection with 2.5 x 2" Reducer Coupling
- Vacuum Manifold



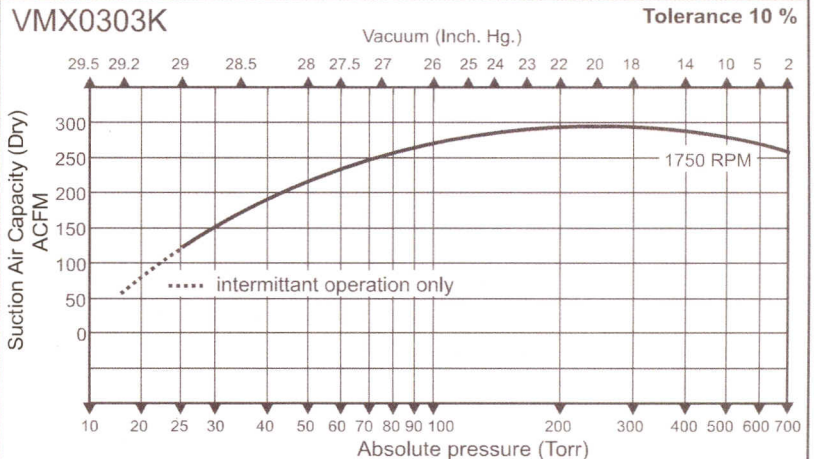
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- 3" Galvanized Steel Header with 6 Manifold Legs
- 6x 2" Manifold Legs Each with:
  - 2" Union
  - Midwest Control 2" Brass Ball Valve FBB-200
  - Midwest control Vacuum Gauge Model VFSB25-030
  - 2" Male Aluminum Camlock Ends
- Diesel Generator
  - Multiquip Information:
    - Model DCA-70USJ
    - Serial No. 8300015
  - AC Generator Information:
    - Model DB-831J2
    - Armature Connection Star with Neutral, Zigzag
    - Three Phase, 60HZ, 70KVA, 240/480V, 168/84.2 Amp, 0.8 PF
    - Single Phase, 60HZ, 40KW, 240/120V, 168 Amp, 1.0 PF
  - Engine Information:
    - John Deere Model 4045TF275
    - Type 4 cylinder 4 cycle
    - Rated Output 102HP, 1800 RPM
    - Displacement 4.5L
    - Fuel Tank 126 Gallons
  - Outlet Information
    - 4x 120V 20 Amp Outlets with Breakers
    - 3x 240/120V 50 Amp Outlets with Breakers
- Control Panel
  - 36x36x12 Nema 4 Enclosure
  - Hour Meters for Vacuum Blower and Transfer Pump
  - HOA Switches for Vacuum Blower and Transfer Pump
  - Alarm Lights Include:
    - Vacuum Blower High Temp – "Hi Temp"
    - Vacuum Blower High Oil Level – "Oil High Level"
    - Vacuum Blower Low Oil Level – "Oil Low Level"
    - Knockout Tank High Level – "KO High Level"
    - Product Storage Tank High Level – "PST High Level"
  - White Control Power Light
  - Black Alarm Reset Push Button
  - Red Emergency Stop Button
  - 100 Amp Non Fused Disconnect
  - Relay Logic with Intrinsically Safe Relays for Float Switches
  - Contactor/Overload/Circuit Breakers or Fuses for Vacuum Blower and Transfer Pump
  - Control Transformer
  - Sensaphone Cell 682 Telemetry Unit With Power Supply and Power Out Alert
- Hudson Deckover Trailer
  - Model HTMBH
  - VIN# 10HHTMBH5F2000017
  - Tandem 7,000lb Axles
  - 8' Wide, 6' Tongue, 18' Flat, 3' Dove Tail, Wood Deck
- Interconnecting Hoses are 3" Tanker Truck Hoses with Aluminum Camlock Fittings



### Why more and more customers are switching to the *Vmax* system:

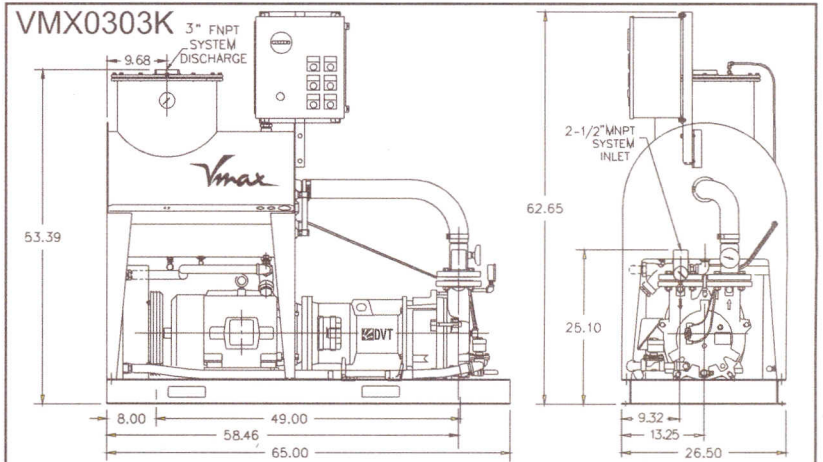
- ✓ The only system on the market with a **full 3-year warranty!**
- ✓ Patented, **high-efficiency DX-5 separator** eliminates oil carry-over concerns.
- ✓ **Sturdy bearing pedestal** mounts to standard **NEMA C-face motor**.
- ✓ Rugged, **high-quality, industrial system**, offering years of **trouble free operation**.
- ✓ **Extended-life seal-fluid** is not used as a lubricant. Change interval is not critical, resulting in a minimum of **10,000 hours of continuous operation**.
- ✓ **Direct drive at low speed (1750RPM)** eliminates the use of V-belts, resulting in very **low maintenance and zero downtime**.
- ✓ **Extremely low operating noise level** makes this system desirable in today's workplace.
- ✓ **Continuous operation over the full vacuum range** without overheating.
- ✓ **Carry-over** of soft solids and/or minimal amounts of liquid **does not cause damage** to the internal parts of the pump.
- ✓ **Air-cooled design** is **standard** with water-cooling available at no extra charge.
- ✓ Improved **compact design**.
- ✓ Now available with optional **Variable Frequency Drive**, resulting in lower power consumption.



#### Performance Characteristics

Nominal capacity:	300CFM
Motor:	20HP
Speed:	1750RPM
Maximum vacuum:	29"Hg
Weight (approximate):	1305Lbs
Maximum gas inlet temperature:	212°F/100°C
Maximum noise level (at 3 feet):	76dBA
Oil capacity (approximate):	12 GAL

*Performance based on atmospheric pressure equal to 29.92"Hg*



Information contained in this document is for reference only. Subject to change without notice.



# Inlet Vacuum Filters

## "CSL" Series 3" - 6" MPT

### APPLICATIONS & EQUIPMENT

- Vacuum Pumps & Systems – P.D., Side Channel, Rotary Vane, Screw, Piston
- Vacuum Packaging Equipment
- Vacuum Furnaces
- Blowers - Side Channel & P.D.
- Intake Suction Filters
- Pneumatic Conveying Systems
- Remote Install for Piston, Screw & Centrifugal Compressors
- Factory Automation Equip
- Ash Handling
- Food Industry
- Paper Processing
- Glass, Ceramic Processing
- Waste Water Treatment
- Woodworking
- Cement
- Bag House Systems
- Envelope Manufacturing
- Medical Industry
- Chemical Processing

### FEATURES & SPECIFICATIONS

- **Vacuum level:** Typically  $1 \times 10^{-3}$  mmHg ( $1.3 \times 10^{-3}$  mbar)
- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron
- Heavy duty T bolts for easy maintenance
- Hydrostatically tested to 0.5 bar pressure for vacuum tightness
- Low pressure drop
- Positive engagement O-ring seal system
- **Large** dirt holding capacity and **Easy** field cleaning, especially when mounted horizontally or inverted
- Inlet/outlet 1/4" gauge taps standard
- Rugged all steel construction w/baked enamel finish
- Temp (continuous): min -15°F (-26°C ) 220°F (max 104°C )
- Filter change out differential: 10" - 15" H<sub>2</sub>O over initial delta P
- Pressure drop graphs available upon request

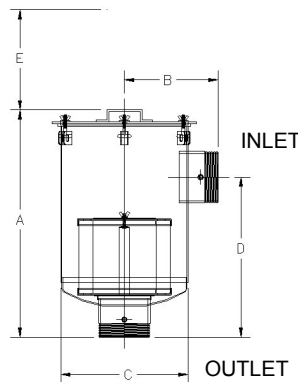
### OPTIONS (Inquiries Encouraged)

- Various media
- Larger sizes available
- Straight-Through Configurations
- Available in **Stainless Steel**
- Epoxy coated housings
- Support brackets
- Special connections
- Activated carbon prefilters to reduce order

### CONFIGURATION



### DRAWING



Dimension tolerance  $\pm 1/4"$

**I = Industrial Duty S = Severe Duty E = Extreme Duty**

	with Polyester Element	with Paper Element	MPT Inlet & Outlet	DIMENSIONS - inches					Rated Flow SCFM Nominal Rating	Element Rating	Approx. Wt. lbs
				A	B	C	D	E			
I	CSL-235P-300	CSL-234P-300	3"	27 1/8	9	14	18 1/2	10	300	570	47
S	CSL-335P-300	CSL-334P-300	3"	27 1/8	9	14	18 1/2	15	300	800	50
I	CSL-235P-400	CSL-234P-400	4"	27 1/8	9	14	18 1/2	10	520	570	52
S	CSL-335P-400	CSL-334P-400	4"	27 1/8	9	14	18 1/2	15	520	800	55
I	CSL-245P-500	CSL-244P-500	5"	28 1/8	11	18 1/2	19 1/2	10	800	880	82
S	CSL-345P-500	CSL-344P-500	5"	28 1/8	11	18 1/2	19 1/2	15	800	1100	88
I	CSL-275P-600	CSL-274P-600	6"	29 1/8	12	18 1/2	20 1/2	10	1100	1100	95
S	CSL-375P-600	CSL-374P-600	6"	29 1/8	12	18 1/2	20 1/2	15	1100	1500	97

Note: Model offerings and design parameters may change without notice.

Solberg – Discover the Possibilities

CSL24-7365



# Small Compact Filter Silencers w/ Standard Filter Design

"FS" Series 1/2" - 3" MPT

FILTER SILENCERS  
FS, 2G, LQB, BBF, SLCR Series

## APPLICATIONS & EQUIPMENT

- ♦ Industrial & Severe Duty
- ♦ Piston Compressors
- ♦ Screw Compressors
- ♦ Blowers - Side Channel & P.D.
- ♦ Hydraulic Breathers – fine filtration
- ♦ Engines
- ♦ Construction\Contractor Industry
- ♦ Workshop
- ♦ Medical\Dental Industry
- ♦ Pneumatic Conveying
- ♦ Waste Water Aeration
- ♦ Nailers and Staplers
- ♦ Vacuum Vent Breathers

## FEATURES & SPECIFICATIONS

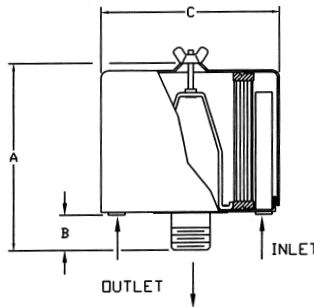
- ♦ Polyester: 99%+ removal efficiency standard to 5 micron
- ♦ Paper: 99%+ removal efficiency standard to 2 micron
- ♦ Fully drawn weatherhood - no welds to rust or vibrate apart
- ♦ Tubular silencing design - tube is positioned to maximize attenuation and air flow while minimizing pressure drop
- ♦ Durable carbon steel construction with baked enamel finish and powder coated weatherhood
- ♦ Interchangeable media: Polyester, Paper, HEPA
- ♦ Several element sizes available per given connection (safety factor)
- ♦ Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- ♦ Filter change out differential: 10"-15" H<sub>2</sub>O over initial delta P
- ♦ Pressure drop graphs available upon request

## OPTIONS (Inquiries Encouraged)

- ♦ 1/8" tap holes
- ♦ Pressure Drop Indicator
- ♦ Available in **Stainless Steel**
- ♦ Epoxy coated housings
- ♦ Various media available
- ♦ Special connections, BSPT

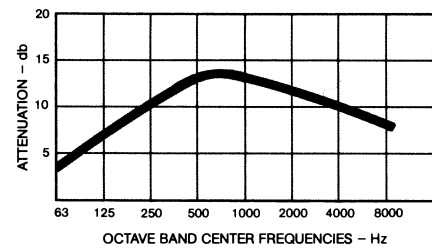
## CONFIGURATION

## DRAWING



Dimension tolerance  $\pm 1/4"$

TYPICAL NOISE ATTENUATION – FS SERIES



♦ Noise attenuation may vary due to the wide range of applications and machines

**I = Industrial Duty S = Severe Duty**

	with Polyester Element	with Paper Element	MPT Outlet	DIMENSIONS - inches			Rated Flow SCFM			No. of Silencing Tubes	Approx. Wt. lbs
				A	B	C	Piston	Screw, Blower, Fan	Element Rating		
I	FS-15-050	FS-14-050	1/2"	4	1 1/2	6	10	10	35	1	2
I	FS-15-075	FS-14-075	3/4"	4	1 1/2	6	20	25	35	2	2
I	FS-15-100	FS-14-100	1"	4	1 1/2	6	25	35	35	3	2
S	FS-19P-100	FS-18P-100	1"	6 5/8	1 5/8	6	35	55	100	3	3
I	FS-19P-125	FS-18P-125	1 1/4"	6 5/8	1 5/8	6	55	70	100	5	3
I	FS-19P-150	FS-18P-150	1 1/2"	6 5/8	1 5/8	6	70	85	100	5	4
I	FS-31P-200	FS-30P-200	2"	7 1/4	2 1/4	10	85	135	195	5	8
S	FS-231P-200	FS-230P-200	2"	12 1/4	2 1/4	10	135	135	300	5	14
S	FS-231P-250	FS-230P-250	2 1/2"	12 1/2	2 1/2	10	195	195	300	9	15
I	FS-231P-300	FS-230P-300	3"	13	3	10	200	300	300	9	15

Note: Model offerings and design parameters may change without notice.

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Solberg – Discover the Possibilities

FS25-406

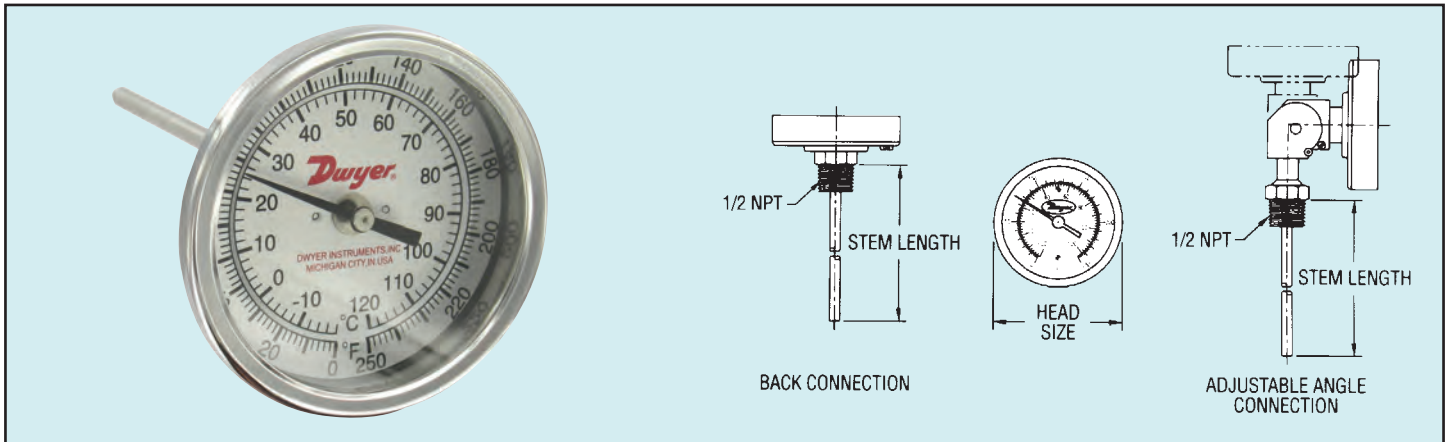




Series  
BT

# Bimetal Thermometers

2", 3" or 5" Dial, Dual Scale, ±1% FS Accuracy, External Reset



**Series BT Bimetal Thermometers** offer accurate, reliable service even in the toughest environments. These corrosion resistant units are constructed from stainless steel and are hermetically sealed to prevent crystal fogging. The bimetal element directly drives pointer, eliminating gears and linkage. An external reset screw allows field calibration and easy-to-read aluminum dial minimizes parallax error. Choose back connection, lower connection or adjustable angle for easy viewing and installation. Adjustable models can be rotated a full 360° and tilted over a 180° arc. NOTE: When using in pressurized applications, use a suitable thermowell. Bimetal thermometers are commonly used to measure water temperature on chillers and boilers.

## SPECIFICATIONS

**Wetted Materials:** 304 SS.

**Housing Material:** Series 300SS.

**Lens:** Glass.

**Accuracy:** ±1% full scale.

**Response Time:** ≤ 40 seconds.

**Temperature Limits:** Head: 200°F (93°C); Stem: Not to exceed 50% over-range or 1000°F (538°C) or 800°F (427°C) continuously.

**Process Connection:** 1/4" NPT on 2" dial size; 1/2" NPT on 3" or 5" dial size.

**Stem Diameter:** 1/4" O.D.

**Immersion Depth:** Minimum 2" in liquids, 4" in gas.

Model	Dial Size, Stem Length	Temperature Range, °F(°C)	Degree Div., °F(°C)	Model	Dial Size, Stem Length	Temperature Range, °F(°C)	Degree Div., °F(°C)
<b>Back Connection</b>				<b>Adjustable Angle Connection</b>			
BTB22551*	2", 2-1/2"	0/250	2	BTA54010D	5", 4"	0/200 (-20/100)	2 (2)
BTB2405D	2", 4"	0/250 (-20/120)	2 (2)	BTA5405D	5", 4"	0/250 (-20/120)	2 (2)
BTB2409D	2", 4"	200/1000 (100/550)	10 (5)	BTA5407D	5", 4"	50/550 (10/290)	5 (5)
BTB32510D	3", 2-1/2"	0/200 (-20/100)	2 (2)	BTA56010D	5", 6"	0/200 (-20/100)	2 (2)
BTB3255D	3", 2-1/2"	0/250 (-20/120)	2 (2)	BTA5605D	5", 6"	0/250 (-20/120)	2 (2)
BTB3257D	3", 2-1/2"	50/550 (10/290)	5 (5)	BTA5607D	5", 6"	50/550 (10/290)	5 (5)
BTB34010D	3", 4"	0/200 (-20/100)	2 (2)	<b>Lower Connection</b>			
BTB3405D	3", 4"	0/250 (-20/120)	2 (2)	BTC3255D	3", 2.5"	0/250(-20/120)	2 (2)
BTB3407D	3", 4"	50/550 (10/290)	5 (5)				
BTB3605D	3", 6"	0/250 (-20/120)	2 (2)				

\*Model offered in Fahrenheit scale only.

TEMPERATURE

Thermometers,  
Dial

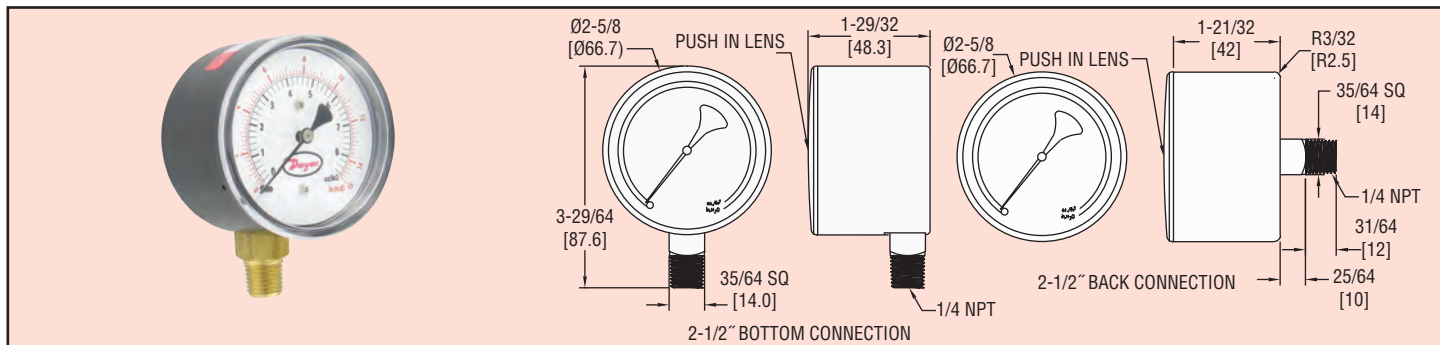




Series  
LPG3

# Low Pressure Gage

1% Full Scale Accuracy in a 2-1/2" Gage



**Series LPG3 Low Pressure Gages** are designed to be especially sensitive with an elastic element that expands and contracts with very small changes in pressure for ASME Grade 1A accuracy. This series is meant for the measurement of low pressures of gases and liquids and is ideal for air flow indicators, liquid level indicators and draft gages. Our new low pressure gages are available in 2-1/2" dial with either a bottom or back connection option.

## SPECIFICATIONS

**Service:** Compatible gases and liquids.

**Wetted Materials:** Brass.

**Housing Materials:** Steel with black finish.

**Lens:** Polycarbonate.

**Accuracy:** 1% full scale; ANSI B40.1 Grade 1A.

**Pressure Limit:** 110%.

**Temperature Limits:** -40 to 150°F (-40 to 65°C).

**Size:** 2-1/2" (63 mm).

**Process Connections:** 1/4" NPT, bottom or back.

**Weight:** 6.5 oz (184 g).

Model Bottom	Range in w.c./oz/in <sup>2</sup>	Model Back	Range in w.c./oz/in <sup>2</sup>
LPG3-D8122N	0-15 (0-8.6 oz/in <sup>2</sup> )	LPG3-D8142N	0-15 (0-8.6 oz/in <sup>2</sup> )
LPG3-D8222N	0-32 (0-18.5 oz/in <sup>2</sup> )	LPG3-D8242N	0-32 (0-18.5 oz/in <sup>2</sup> )
LPG3-D8422N	0-55 (0-32.0 oz/in <sup>2</sup> )	LPG3-D8442N	0-55 (0-32.0 oz/in <sup>2</sup> )
LPG3-D8622N	0-100 (0-58.0 oz/in <sup>2</sup> )	LPG3-D8642N	0-100 (0-58.0 oz/in <sup>2</sup> )
LPG3-D8822N	0-200 (0-116 oz/in <sup>2</sup> )	LPG3-D8842N	0-200 (0-116 oz/in <sup>2</sup> )
	Range psi/kPa		Range psi/kPa
LPG3-D9922N	0-5 (0-35 kPa)	LPG3-D9942N	0-5 (0-35 kPa)
LPG3-D0022N	0-10 (0-70 kPa)	LPG3-D0042N	0-10 (0-70 kPa)

## VACUUM AND PRESSURE LIQUID FILLED GAUGES

### Back Mount



**U Clamp**



**Standard**



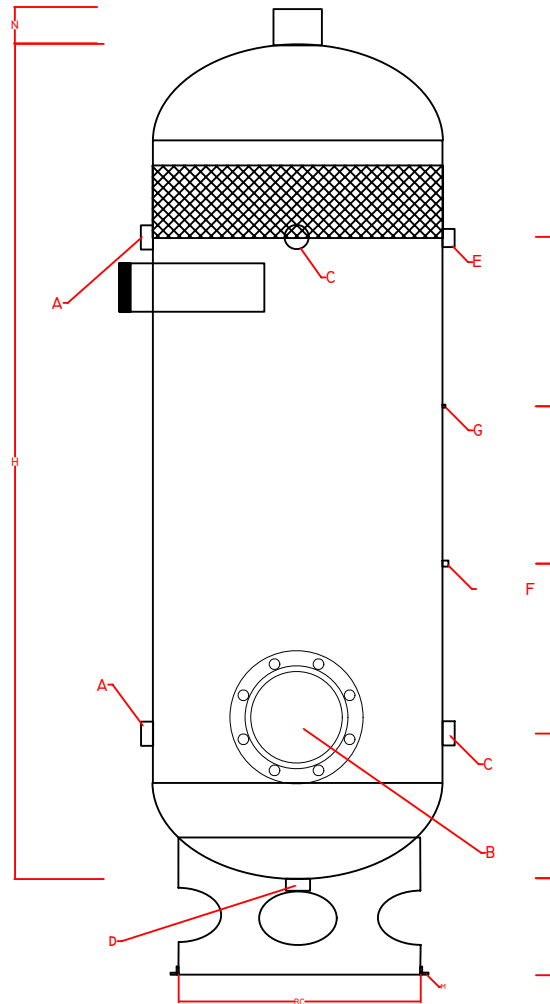
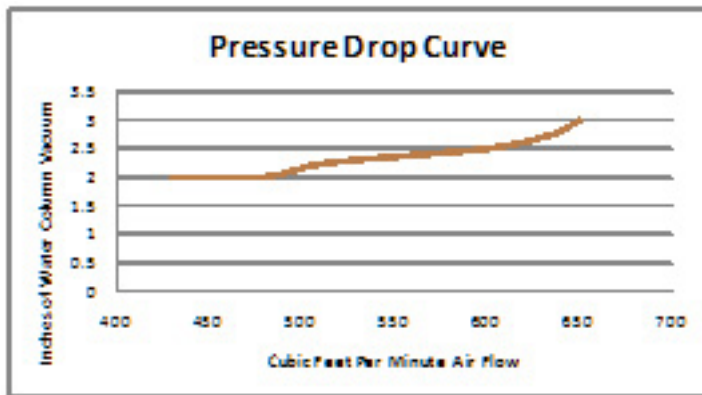
**Flange Mount**

- Suitable for Air, Water, Oil & Gas
- Dual Scale PSI/Kpa
- Stainless Steel Case & Bezel
- Brass Internals & NPT Connection
- Phosphor Bronze Bourdon Tube
- Accuracy 1-1/2" - 2-1/2": 3-2/3% 4":1%
- Ambient Temperature -30 F to 160°F
- Liquid Filled Helps Dampen Effects of Pulsation and Vibration
- Liquid Filled Lubricates the Gauge Movement Keeping the Contaminates (Dirt) Away, Extending the Life of the Gauge
- ANSE 40.1 Compliant
- Connection: 1/8" NPT 1-1/2" Dial  
1/4" NPT 2" & Above

Part No.	Dial Size (In)	Pressure Range Code
<b>Back Mount Pressure Gauges</b>		
LFSB15-PSI	1-1/2	2
LFSB20-PSI	2	3
LFSB25-PSI	2-1/2	4
LFSB25-PSI	2-1/2	6
LFSB40-PSI	4	5
LFSB40-PSI	4	6
<b>Back Mount U-Clamp Pressure Gauges</b>		
LFSB25-PSI-U	2-1/2	4
LFSB25-PSI-U	2-1/2	6
LFSB40-PSI-U	4	5
LFSB40-PSI-U	4	6
<b>Back Mount Flange Pressure Gauges</b>		
LFSB25-PSI-F	2-1/2	4
LFSB25-PSI-F	2-1/2	6
LFSB40-PSI-F	4	5

LFSB40-PSI-F	4	6
<b>Back Mounted Vacuum Gauges</b>		
VFSB15-030	1-1/2	7
VFSB20-030	2	7
VFSB25-030	2-1/2	7
VFSB40-030	4	7
<b>Back Mount U- Clamp Vacuum Gauges</b>		
VFSB25-030U	2-1/2	7
VFSB40-030U	4	7
<b>Pressure Code Range</b>	<b>PSI/Hg</b>	
1	15, 30, 60, 100, 160, 200, 300 PSI	
2	Same As Range 1 Plus 600, 1000, 2000, 3000, 5000 PSI	
3	Same As Range 1 Plus 600, 1000, 2000, 3000, 5000, 6000 PSI	
4	Same As Range 1 Plus 400, 600, 1000, 1500, 2000, 3000, 4000, 5000, 6000 PSI	
5	Same As Range 1 Plus 400, 600, 1000, 1500, 2000, 3000, 5000, 6000 psI	
6	10,000, 15000 PSI	
7	-30" to 0" Hg	

# ENVIRO-EQUIPMENT INC. HIGH VACUUM KO TANK MODEL HVKO-120-500



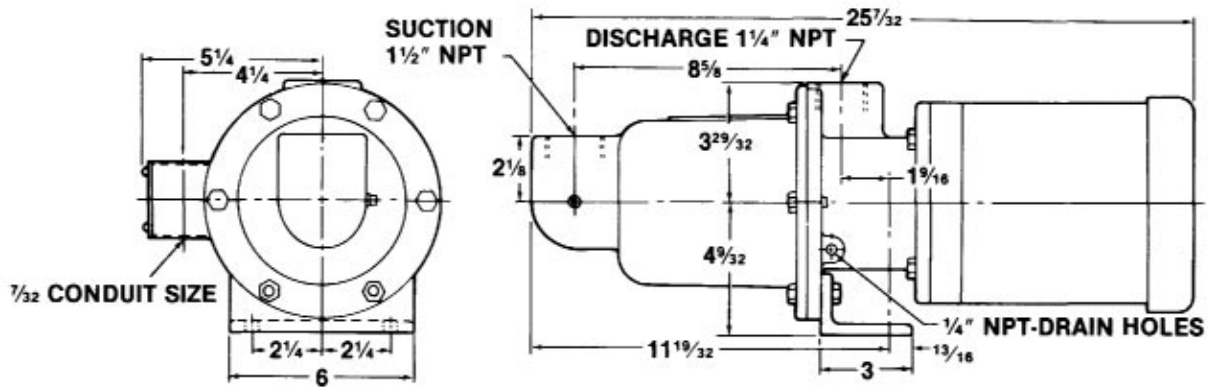
Inch		Openings in inches Diameter											Dimensions in inches									
Face	nom. HG	QAL	DA	HT	A	B	C	D	E	F	G	H	J	K	L	M	N	OC	W			
HVKO-120-500	20	220	24	30	2	6	2	2	1.5	1/2	1/4	8	12	14	12	11/16	2	20	69			

ENVIRO-EQUIPMENT, INC.				CUSTOMER: SALES DRAWING	
10120 Industrial Drive Pineville, N.C. 28134 PHONE 704-556-7723 FAX 704-556-7728				ITEM: HVKO-120-500 KO Tank	
				BY: [Signature] CHECK: [Signature] DATE: 2/11/2011	
				SALES	

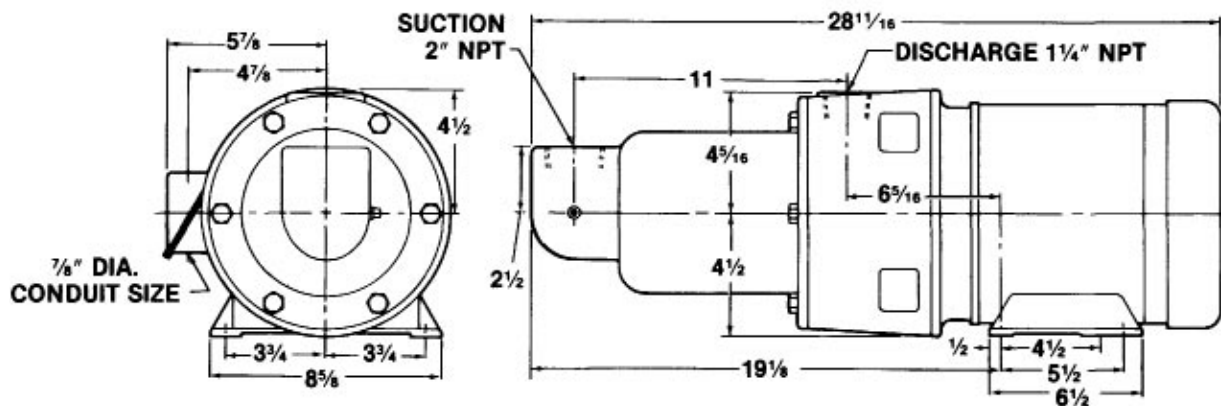


## 356 AND 367 MODELS DIMENSIONS

### Model 35651



### Model 36751



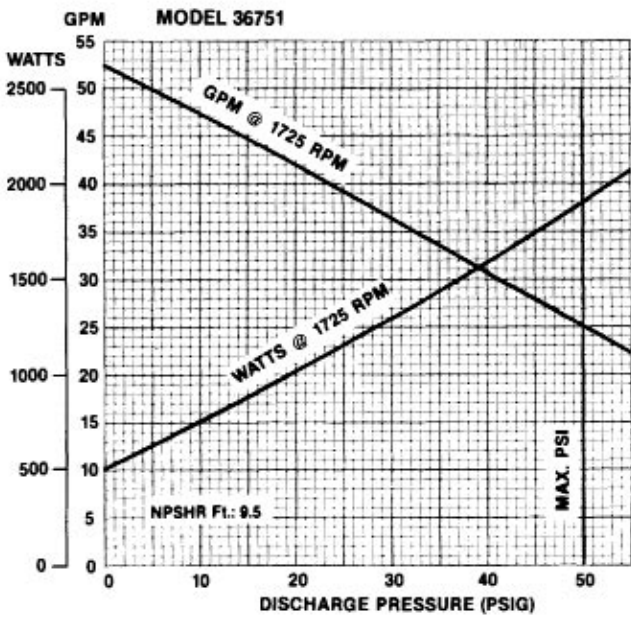
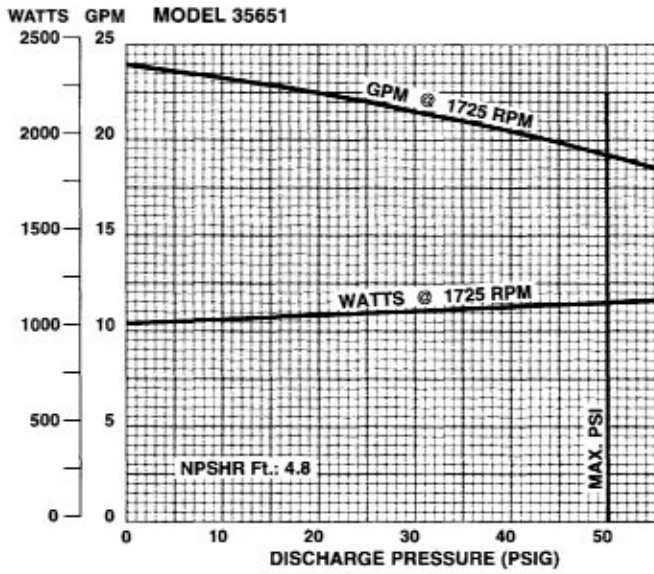
All dimensions are in inches.  
Specifications subject to change without notice.

## MATERIALS OF CONSTRUCTION

COMPONENT	MODELS					
	35651	36751	35650	35652	36750	36752
Housing	Cast iron	Cast iron	316 SS	316 SS	316 SS	316 SS
Rotor	416 SS/CP	416 SS/CP	316 SS/CP	316 SS/CP	316 SS/CP	316 SS/CP
Stator	NBR (Nitrile)	NBR (Nitrile)	NBR (Nitrile)	NBR (Nitrile)	NBR (Nitrile)	NBR (Nitrile)
Motor Data	1-1/2 HP, 3 PH	2 HP, 3 PH	1-1/2 HP, 3 PH	1-1/2 HP, 1 PH	2HP, 3 PH	2 HP, 1 PH
	208/230/440 VAC	230/440 VAC	230/460 VAC	115/230 VAC	230/460 VAC	115/230 VAC
	60 HZ TEFC	60 HZ TEFC	60 HZ TEFC	60 HZ TEFC	60 HZ TEFC	60 HZ TEFC
Weight (lbs)	68	115	68	68	115	115

CP = Chrome plated

# PERFORMANCE (Water at 70°F)



**NOTE:** With the standard  
1 1/2 HP (Model 35651)  
2 HP (Model 36751)  
motor, maximum fluid  
viscosity is 100 CP  
(500 SSU).



# DCA70USI

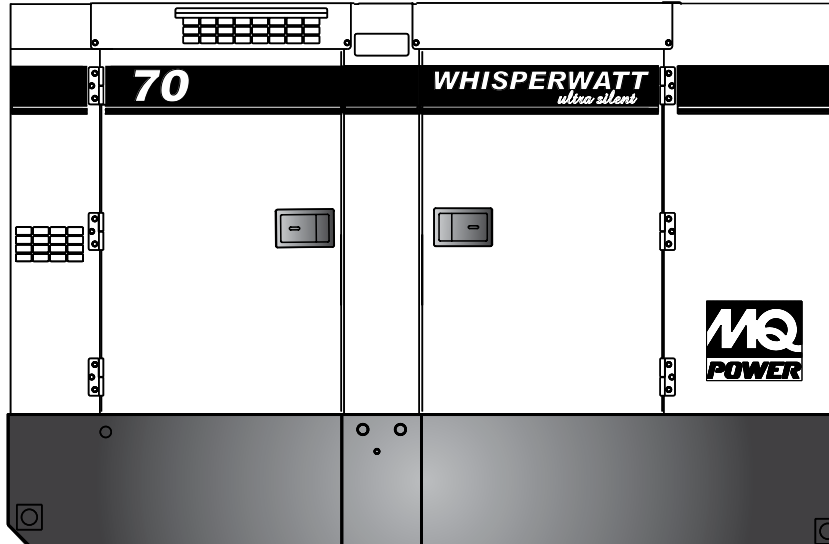
## MQ POWER Series Generator

### WhisperWatt™

Prime Rating — 56 kW (70 kVA)

Standby Rating — 62 kW (77 kVA)

Three-Phase, 60 Hertz, 0.8 PF



#### STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class H insulation systems.
- Open delta excitation design provides virtually unlimited excitation for maximum motor starting capability.
- Automatic voltage regulator (AVR) provides precise regulation.
- Electronic Governor Control — maintains frequency to within  $\pm 0.25\%$  from no load to full load.
- Full load acceptance of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).
- Sound attenuated, weather resistant, steel housing provides operation at 60 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- Internal fuel tank with direct reading of fuel gauge.
- Seven stage powder coat paint system provides durability and weather protection.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Complete engine analog instrumentation includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, preheat indicator, emergency shutdown monitors.
- Automatic start/stop control — automatically starts the generator set during a commercial power failure when used in conjunction with a transfer switch.
- Complete generator analog instrumentation includes voltage regulator control, ammeter phase selector switch, voltmeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, panel light, and circuit breaker.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, overspeed and overcrank. Warning lights indicate abnormal conditions.
- Complete power panel. Fully covered; three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. The GFCI receptacles are NEMA 5-20, and the auxiliary outputs use CS6369 twist-lock receptacles.
- Simultaneous single and three phase power.
- Voltage selector switch offers the operator a wide range of voltages that are manually selectable. Fine tuning of the output voltage can be accomplished by adjusting the voltage regulator control knob to obtain the desired voltage.
- EPA emissions certified - Interim Tier 3 emissions compliant.



# DCA70USI

## MQ POWER Series Generator

### SPECIFICATIONS

Generator Specifications		
Design	Revolving field, self-ventilated Drip-proof, single bearing	
Armature Connection	Star with Neutral	Zig Zag
Phase	3	Single
Standby Output	62 KW (77 KVA)	44 KW
Prime Output	56 KW (70 KVA)	40 KW
3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 240/139	208Y/120, 220Y/127, 240Y/139	N/A
3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 480/277	416Y/240, 440Y/254, 480Y/277	N/A
1Ø Voltage (L-L/L-N) (Voltage Selector Switch at 1Ø 240/120)	N/A	240/120
Power Factor	0.8	1.0
Voltage Regulation (No load to full load)	±0.5%	
Generator RPM	1800	
Frequency	60 Hz	
No. of Poles	4	
Excitation	Brushless with AVR	
Frequency	60 Hz	
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load	
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.	
Insulation	Class H	
Sound Level dB(A) Full load at 23 feet	68	

Engine Specifications	
Make / Model	Isuzu / BJ-4JJ1X
Emissions	EPA Interim Tier 3 Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged
Displacement	183.0 in <sup>3</sup> (2999 cc)
No. cylinders	4
Bore x Stroke (mm)	95.4 x 104.9
Gross Engine Power Output	97.9 bhp (50 kW)
BMEP	204 psi (1409 kPa)
Piston Speed	1237 ft./min. (6.29 m/s)
Compression Ratio	17.5:1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil Capacity	3.96 gallons (15 liters)
Battery	12V 72Ah x 1

Fuel System		
Recommended Fuel	ASTM-D975-No.1 & No.2-D	
Maximum Fuel Flow (per hour)	16 gallons (61 liters)	
Maximum Inlet Restriction (Hg)	5.9 in. (150 mm)	
Fuel Tank Capacity	103 gallons (390 liters)	
Fuel Consumption	gph	lph
At full load	4.1	15.4
At 3/4 load	3.1	11.9
At 1/2 load	2.1	8.1
At 1/4 load	1.3	4.8

Cooling System	
Fan Load	0.4 hp (0.3 kW)
Coolant Capacity (with radiator)	3.57 gallons (13.5 liters)
Coolant Flow Rate (per minute)	15.4 gallons (58.5 liters)
Heat Rejection to Coolant (per minute)	2260 Btu (2.38 MJ)
Heat Rejection to Room (per minute)	578 Btu (0.61 MJ)
Maximum Coolant Friction Head	6.1 psi (42 kPa)
Maximum Coolant Static Head	21 feet (6.4 meters)
Ambient Temperature Rating	104°F (40°C)

Air	
Combustion Air	138 cfm (3.9 m <sup>3</sup> /min)
Maximum Air Cleaner Restriction	25 in. H <sub>2</sub> O (6.25 kPa)
Alternator Cooling Air	526 cfm (14.9 m <sup>3</sup> /min)
Radiator Cooling Air	2009 cfm (56.9 m <sup>3</sup> /min)

Exhaust System	
Gas Flow (full load)	332 cfm (9.4 m <sup>3</sup> /min)
Gas Temperature	932°F (500°C)
Maximum Back Pressure	53.2 in. H <sub>2</sub> O (13.3 kPa)

Amperage	
Rated Voltage	Maximum Amps
1Ø 120 Volt	155.4 Amps (4 wire) 168A x 2 (Zigzag)
1Ø 240 Volt	77.8 Amps (4 wire) 168A (Zigzag)
3Ø 240 Volt	168 Amps
3Ø 480 Volt	84 Amps
Main Line Circuit Breaker Rating	175 Amps
Over Current Relay Trip Set Point 480V Mode Only	84 Amps

### WARRANTY\*

#### Isuzu Engine

12 months from date of purchase with unlimited hours or 24 months from date of purchase with 2000 hours (whichever comes first).

#### Generator

24 months from date of purchase or 2000 hours (whichever occurs first).

#### Trailer

12 months excluding normal wear items.

\*Refer to the express written, one-year limited warranty sheet for additional information.

### NOTICE

Generator is not intended for use in enclosed areas or where free flow of air is restricted.

Backfeed to a utility system can cause electrocution, shock and/or property damage. **DO NOT** connect to any building's electrical system except through an approved device.

Specifications are subject to change without notice.





# DCA70USI

## MQ POWER Series Generator

### MQ POWER DECIBEL LEVELS

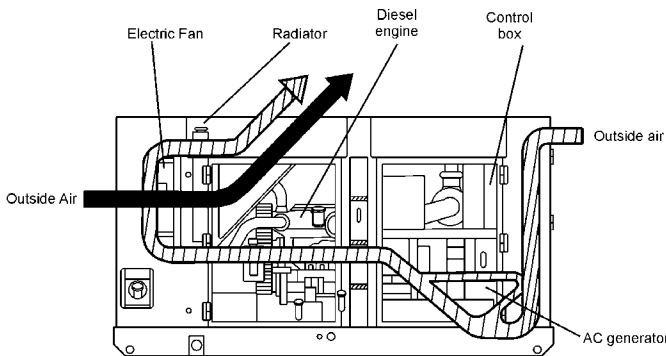
Our soundproof housing allows substantially lower operating noise levels than competitive designs. Ultra-Silent are at home on construction sites, in residential neighborhoods, and at hospitals — just about anywhere.

- 90 — Subway / truck traffic
- 80 — Average city traffic
- 70 — Inside car at 60 mph
- 60 — Air conditioner at 20 feet  
**Ultra-Silent at 23 feet**
- 50 — Normal conversation



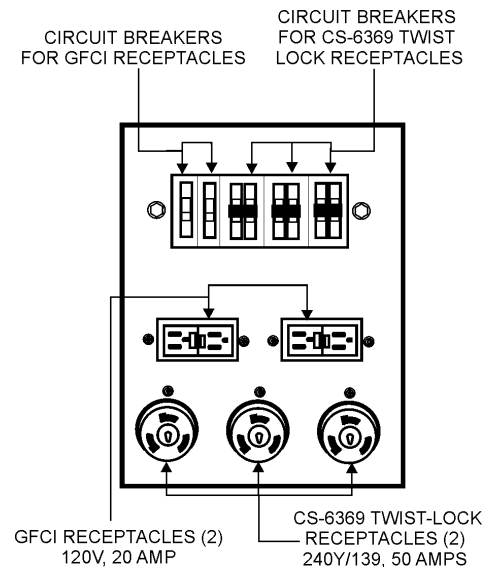
### ULTRA-SILENT FEATURES

- **Low Noise Muffler** — Large capacity low noise muffler minimizes exhaust sound.
- **Soundproof Casing** — The new design divides the cabinet into three sections, separating the engine, muffler and radiator for more efficient cooling and reduces noise from the engine and fans.
- **New Cooling System** — An advanced design uses two separate air intake systems to cool the generator. The engine fan draws air in to cool the engine and generator housing while a second electric fan directly cools the radiator. With less air being drawn into the generator through each fan, considerably less noise is produced through the top of the generator.
- **Environmental Design** — Constructed using an integrated environmental skid and fuel tank. This design fully contains fuel leakage and any liquid that might leak from the engine such as lube oil or radiator coolant. All potentially hazardous liquids are contained without contaminating the surrounding area.



Flow of Cooling Air

### GENERATOR OUTPUT PANEL



### OPTIONAL CONTROL FEATURES

- **Emergency Stop Switch** — when manually activated shuts down generator in the event of an emergency.
- **Audible alarm** — alerts operator of abnormal conditions.

### OPTIONAL GENERATOR FEATURES

- **Electronic Governor Control (Crystal Sync)** — maintains frequency to within  $\pm 0.25\%$  from no load to full load.
- **Battery Charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- **Jacket Water Heater** — for easy starting in cold weather climates.
- **Special Batteries** — long life batteries provide extra engine cranking power.
- **Spring Isolators** — provides extra vibration protection for standby applications.
- **Low Coolant Level Shutdown** — provides protection from critically low coolant levels. Includes control panel warning light.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electric or surge-hydraulic brakes with tandem axle configuration.

### OPTIONAL OUTPUT CONNECTIONS

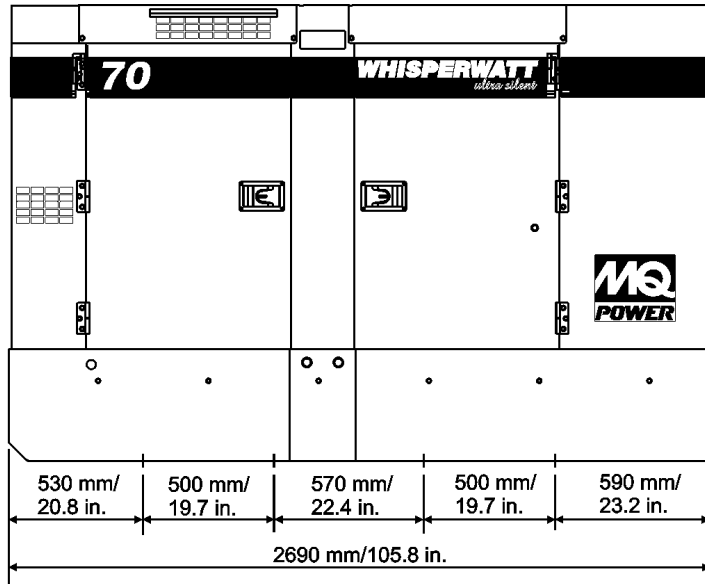
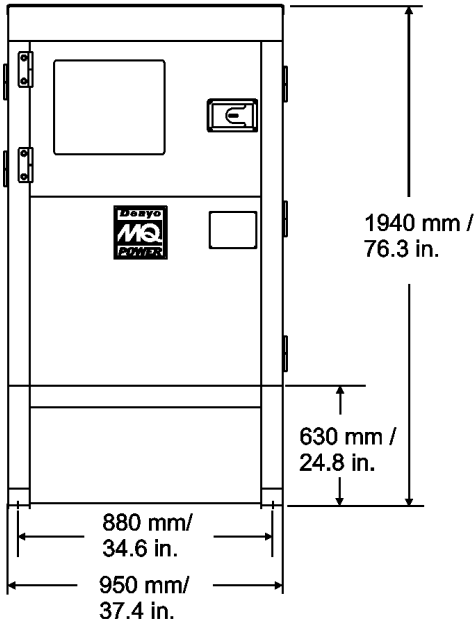
- **Cam-Lok Connectors** — provides quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.



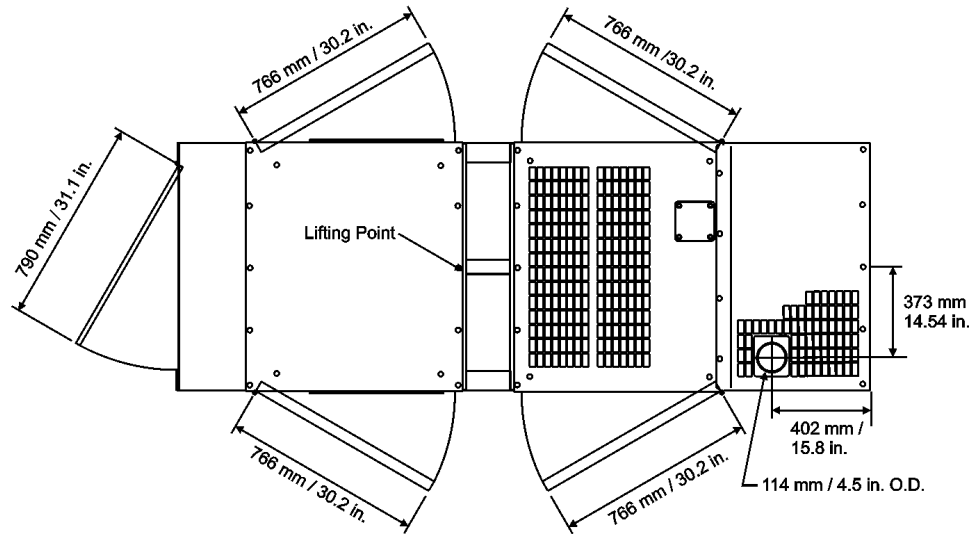
# DCA70USI

## MQ POWER Series Generator

### DIMENSIONS



Weight	
Dry Weight	3,771 lbs. (1,710 kg)
Wet Weight	4,553 lbs. (2,065 kg)
Max. Lifting Point Capacity	14,050 lbs. (6,370 kg)



Generator can be placed on a  
MQ Power Model TRLR70XF  
Tandem Axle Trailer

Manufactured by Denyo Co.

Your Multiquip dealer is:



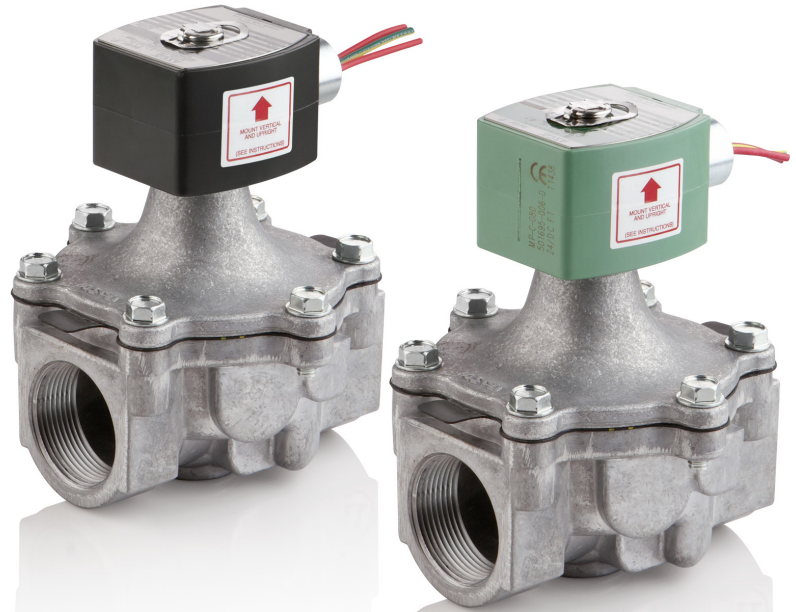


# Series 8215 | DC Valve Line Extension

2-Way Normally Closed Valves with New Molded Epoxy Watertight and Hazardous Location DC Operators

## Applications

- Gas Generators
- Boilers/Burners
- Ovens/Furnaces
- Kilns/Incinerators
- Heating Equipment



## Features & Benefits

- **New Watertight and Hazardous Location DC solenoid operators:**
  - Watertight - RedHat II molded epoxy Type 1, 2, 3S, 4, 4X enclosure with 1/2" conduit hub.
  - Hazardous Location - RedHat II molded epoxy Type 1, 2, 3S, 4, 4X, 6, 6P, 7 (Groups A,B,C,D), 9 (Groups E,F,G) enclosure and a T3C temperature rating code with 1/2" conduit hub.
- **High flow:**
  - Optimized internal valve geometry provides exceptionally high flow
- **Improved ambient temperature range:**
  - Broad ambient range of 32°F to 104°F is ideally suited for cold and warm environments
- **Agency Approvals:**
  - Meets UL 429 Electrically Operated Safety Valve
  - FM Approved Process Control Valve
  - CSA Certified to 22.2 No. 139 Electrically Operated Safety, Automatic Gas Valves ANSI Z21.21 6.5 C/I.
- **ASCO SameDay or ASCO 5Day shipping program**
  - Most constructions are covered
  - Keeps productions lines running smoothly

## Specifications

Product Family	Pipe Sizes (in)	Cv Flow (Air, Inert Gas)	Gas Capacity (Million BTU/hr)	Max. OPD (psi)	Ambient Temperature (°F)	Standard Voltages (Volts DC)
8215 Series Normally Closed Solenoid Valves	1"	21	1.1	25	32 to 104	12, 24, 120, 240
	1 1/4"	32	1.7			
	1 1/2"	35	1.9			
	2"	60	3.2	15		



# SENSAPHONE<sup>®</sup>

## REMOTE MONITORING SOLUTIONS



Sensaphone CELL682

Remote Monitoring via Cellular

# ASSURANCE

COUNTLESS INDUSTRIES DEPEND ON SENSAPHONE FOR THE MOST COMPREHENSIVE REMOTE MONITORING SOLUTIONS AVAILABLE. WHEN YOU NEED TO BE ABSOLUTELY SURE A REMOTE SITE IS STABLE, SECURE AND MONITORED AROUND THE CLOCK, THERE'S NO SUBSTITUTE FOR CERTAINTY.

## Easy to use – everyday

The Sensaphone CELL682 is so easy to use just about anyone can figure it out. If not, we offer free tech support to walk you through it.

## We've got a sensor for that

Sensaphone has a sensor for monitoring everything from climate conditions to security and more.

## Your business is our business

With over 350,000 systems installed worldwide, we've put Sensaphone to the test in just about every application imaginable.

## Suggested Applications



### Agriculture

Know that the temperature, humidity, or other critical conditions where plants or animals live are in check while you're away.



### Water & Wastewater

Use your Sensaphone SAT4D to monitor pumps, power failure and other conditions in water and wastewater applications.



### Oil & Gas

Don't find out about equipment failure until the morning. The Sensaphone SAT4D will call or e-mail as soon as an alarm condition exists.



# Sensaphone CELL682

## Features and Specifications

### Cellular

Use the CELL682 in locations where a traditional land line is not available. Receive alarms via a phone call, text, or e-mail.

### LEDs

LED lights give a quick visual status. Know everything is okay by simply looking at the CELL682.

### Power

Comes with a plug in power supply that also monitors for power failures.

### Battery Backup

Rest easy knowing that even if the power goes out, the CELL682 will keep monitoring.

### Output

Connect to an output such as a light or horn to alert anyone nearby there's a problem.

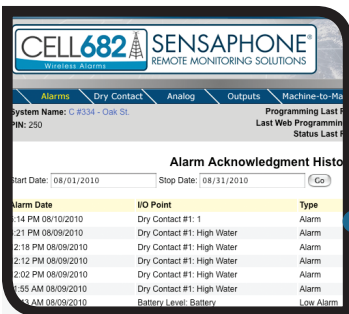
### Inputs

Accept fourteen different inputs – a wide range of sensors are available.



### Enclosure

The CELL682 comes sealed in a NEXA 4X enclosure which allows it to be placed in less than ideal environments.



### Web Services

Program, adjust and monitor the status of the sensors on a webpage the CELL682 creates.

## Popular Compatible Sensors & Accessories

2.8K Room Temperature Sensor . . . . . FGD-0100

2.8K Weatherproof Temperature Sensor . . . FGD-0101

2.8K Temperature Sensor in Glass Bead Vial. . . . . FGD-0107

Temp Alert Temperature Switch . . . . . FGD-0022

Humidistat Humidity Switch. . . . . FGD-0027

PowerOut Alert Power Failure Switch. . . . . FGD-0054

Magnetic Reed Door and Window Switch . . FGD-0006

Zone Water Detection Sensor . . . . . FGD-0056

Additional 10' of Water Rope . . . . . FGD-0063

Infrared Motion Detection Sensor . . . . . FGD-0007

Float Switch. . . . . FGD-0222

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