

## 2020 PRODUCT CATALOG

Featuring the  
**SAUCE EXTRACTOR**  
-- See Page 04



**Disclaimer** -- recovery tank rendered incorrectly, update coming soon!

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## BHOART

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## ICED.TECH

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## MASTER VAPOR

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# BHOGART -- HERE'S WHY

## BHOGART Company Overview:

BHOGART is the industry leader in the design and manufacturing of closed loop extraction systems. We pride ourselves on the quality and performance of our closed loop extractors, which ensure superior quality control, high yields (up to 15-20% for some materials), and high solvent recovery rates.

Our flagship **Sauce Extractor** incorporates the latest technology from **Master Vapor** pumps and **Iced.Tech** chillers. All mechanical parts are proudly made in the USA. MVP pumps have low maintenance cost and have become an industry standard. Iced.Tech chillers are powered by Copeland Scroll Compressors and are your industrial solution to the complex chilling process requirements for cannabis.

## BHOGART Locations:

**1 SAN JOSE**  
1919 Monterey Hwy. #80  
San Jose, CA 95112

**2 EUREKA**  
723 3rd St.  
Eureka, CA 95501

**3 GRANTS PASS**  
545 Northeast E St.  
Grants Pass, OR 97526



### CONSISTENCY

- ✓ Live resin
- ✓ Shatter
- ✓ Wax
- ✓ Crude
- ✓ Crumble
- ✓ All other hydro-carbon consistencies



### MODULAR DESIGN

- ✓ Easily modified to fit current trends i.e CRC, falling film etc.
- ✓ PSI 3rd party peer-review approved
- ✓ 304 SS rated to -80°C
- ✓ Processes up to 500 lbs daily
- ✓ Many process flow configurations possible
- ✓ Approved for butane and propane (MAWP 250 PSI)
- ✓ ASME U-stamp pressure vessels



### LOW OPERATIONAL & MAINTENANCE COST

- ✓ Closed-loop chilling design by Iced.Tech eliminates the need for dry-ice, CO<sub>2</sub> and other consumables
- ✓ Powered by MVP dual - diaphragm pumps
- ✓ On-site training - SOPs



## THE SAUCE EXTRACTOR

This is our **SPECIALIZED** unit.

When paired with Master Vapor Pumps, and Iced Tech chillers, this extractor is capable of mass-producing the **highest quality sauce, live resin, and diamonds** available on the market. New models are capable of passive/active hybrid recovery, allowing operators to utilize the best aspects of both to achieve optimal solvent recovery.

### DOCUMENTATION

✓ Technical Specs

### FEATURES & BENEFITS

- ✓ Extracts up to 500lbs of dry biomass in one day.
- ✓ Recovers over 1lb per minute, **(more with falling film assist)**
- ✓ Iced.Tech Chiller
- ✓ Master Vapor Recovery Pump
- ✓ Master Vapor Liquid Pump
- ✓ MVP Feugo Alcohol Heater
- ✓ Agilent IDP-3 Vacuum Pump

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**EXT 809**

## MODEL

### Material Tube Sizes

4" x 48" / 6" x 48" tubes

### Material Tube Rack Size

1 - 8 tubes available

### Power Options

1 or 3 phase

### Chiller Options

Single 404A Chiller, Double 404A Chiller,  
or Single 508B Chiller

## ELECTRICAL

### Power

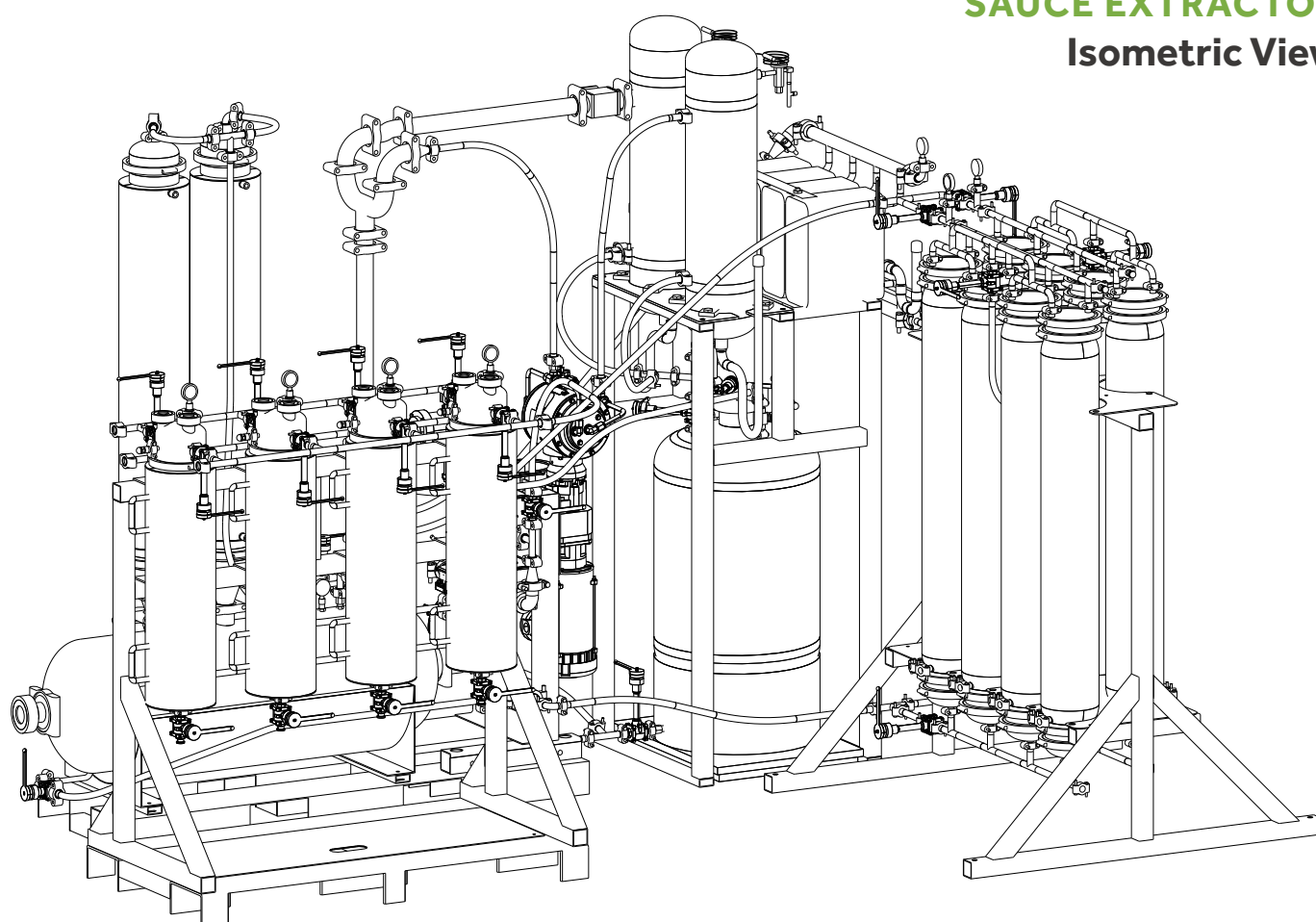
3-4 HP (Pump) 10-20 HP (Chiller)

### Speed

3600 rp

### Gear Ratio

25.85





## FALLING FILM EXTRACTOR

Tired of **SLUGGISH** recovery rates?

Even with a top-of-the-line recovery pump, there are still more ways to speed it up. This falling film upgrade for your extractor, will do exactly that!

The upgrade works by using our MVP Liquid Pump to propel liquid hydrocarbons (or alcohols) from your extractor's evaporation chamber through a spray nozzle attached to the top of a cylinder, which is outfitted with a heated jacket. The nozzle breaks up the thermal mass of the solvent in the evaporation chamber and agitates the liquid, which greatly increases the surface area available for evaporation -- **resulting in much faster recovery rates!** It even atomizes a portion of the liquid and causes it to vaporize in mid air!

Stop waiting around for your extractor to finish processing, and **supercharge your recovery today!**

**Purchase now -- CALL US!**  
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**EXT 809**



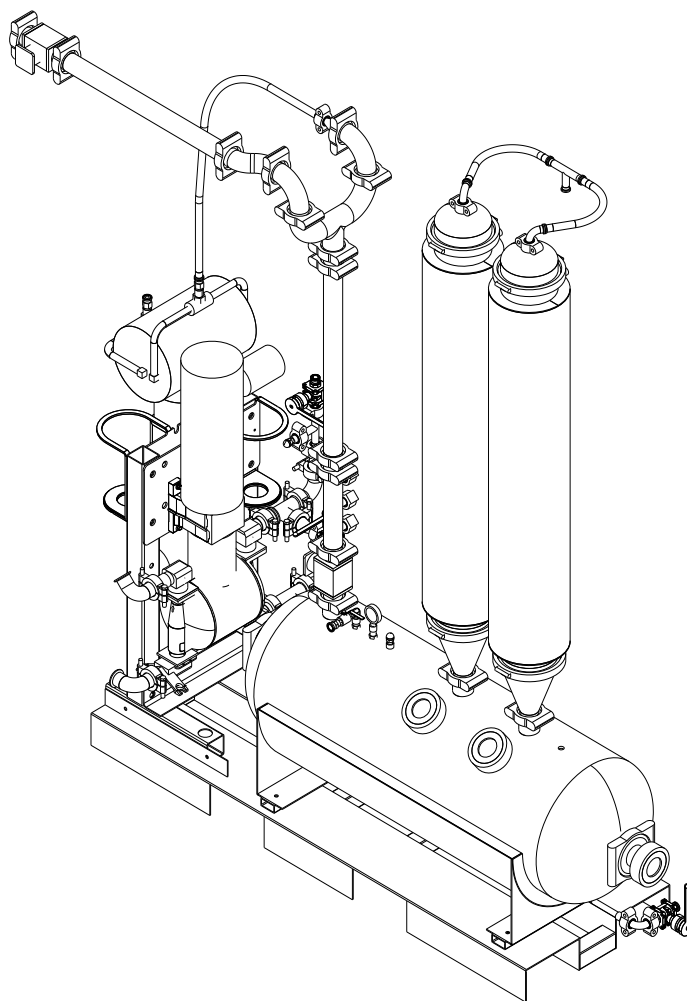
### FEATURES & BENEFITS

- ✓ Full 170° Cone Sprayer
- ✓ Atomizes 38 gpm at 100 psi
- ✓ Jacketed Tubes
- ✓ Fully Stainless Steel Hardware
- ✓ Nozzle is UL-listed

### DOCUMENTATION

- ✓ Technical Specs

**FALLING FILM  
Isometric View**



**ELECTRICAL**

**MVP-150**

**Flow Rate**

6 cfm

**Max Pump Outlet Pressure, cnt.**

120 PSI

**Max Pump Outlet Pressure, int.**

-- 150 PSI is achievable with an increase of input pressure

150 PSI

**MVP-L**

**Max Pumping Outlet Pressure**

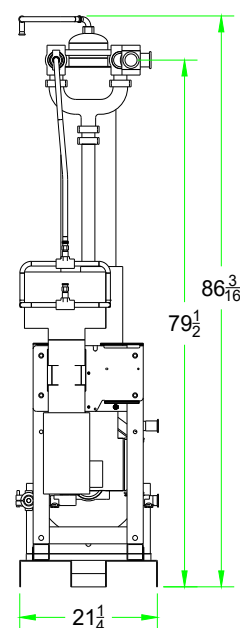
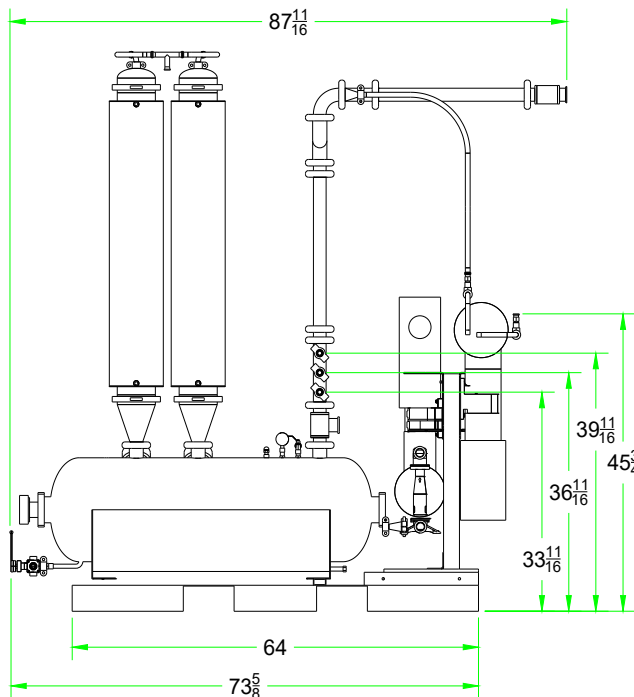
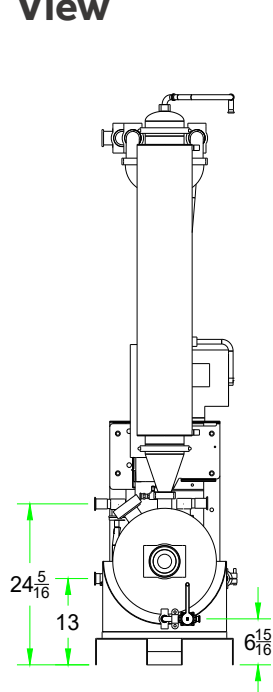
70 PSI

**FALLING FILM**

**Front View**

**Right Side View**

**Left Side View**





## HONEY POT RACK

With your honey pots fully valved and plumbed together in series, your extract can be graded off into **separate vessels**. This depends on a collection of different conditions:

- ✓ **Time**
- ✓ **Color**
- ✓ **Temperature**

Equipped with spray nozzles in each pot, **recovery time will drastically decrease**. The extract will atomize as it enters the honeypot, which exposes more surface area to heat.. This causes more solvent to vaporize at a faster rate, and **produces the fastest run times!**

### DOCUMENTATION

- ✓ **Technical Specs**

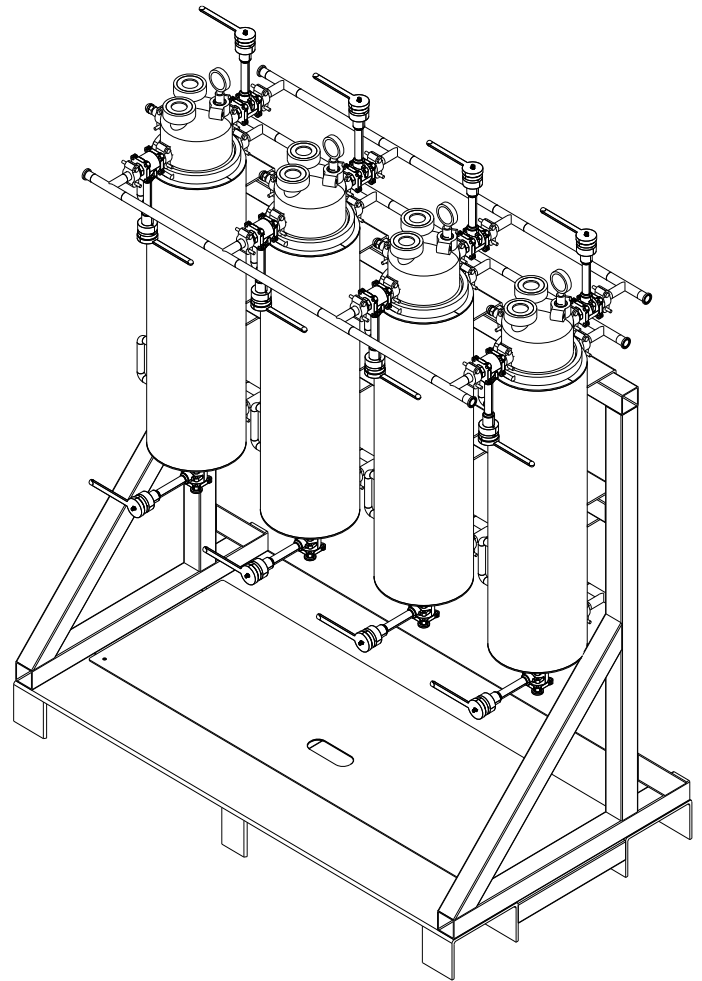
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**HONEY POT RACK**  
Isometric View



**MODULAR**

**Combinations**

- (4) 22" Honey Pots
- (3) 22" Honey Pots  
(1) 30" Honey Pot
- (4) 30" Honey Pots

**Dimensions**

- fully assembled rack

63" H x 59" W x 23" D

**Work Area**

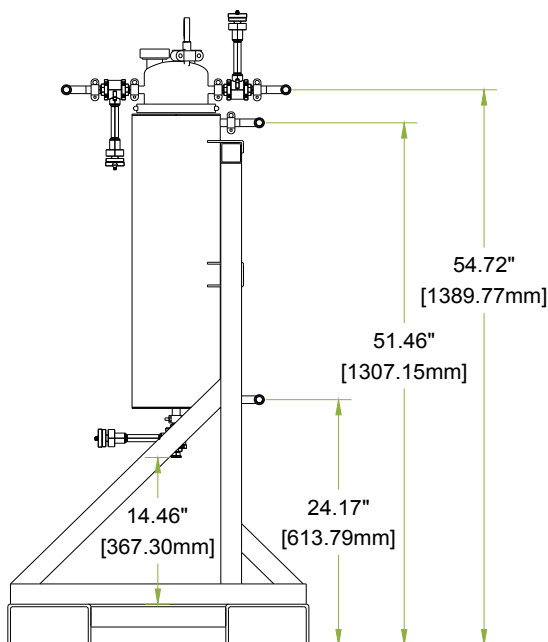
- under pot

22" Pot - 23" clear.  
30" Pot - 14" clear.

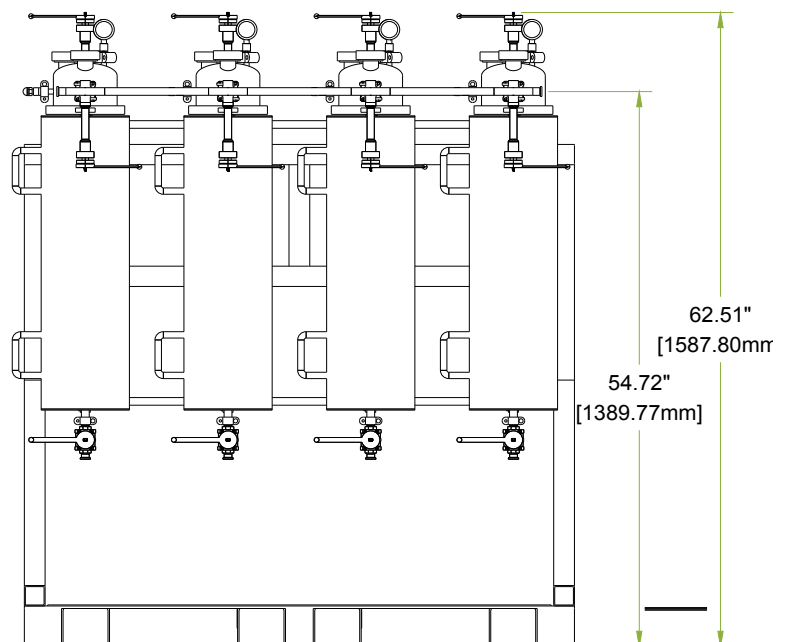
**Volumes**

22" Pot = 2.3gal  
30" Pot = 3.5gal

**Left Side View**



**HONEY POT RACK**  
Front View





## MATERIAL TUBE RACK

A fully **STAINLESS STEEL** design.

Equipped with PTFE gaskets that make this rack entirely sanitary, and capable of being operated at **extremely low temperatures**. The hard piping solution meets all 3A and pharmaceutical standards.

The rugged 3-piece low temperature ball valves are rated to -196°F and they come equipped with long stems, keeping the handles from icing over during processing. With the pressure gauges and relief valves mounted with a standoff tee, **this rack can be run at -80°C** without any issues.

### DOCUMENTATION

✓ Technical Specs

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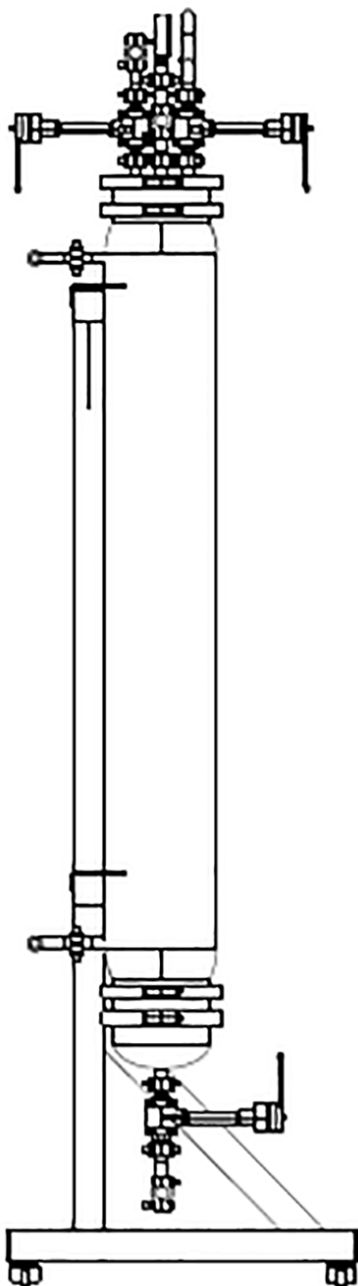
## SPECIFICATIONS

**Material Column**

5.9 Gal

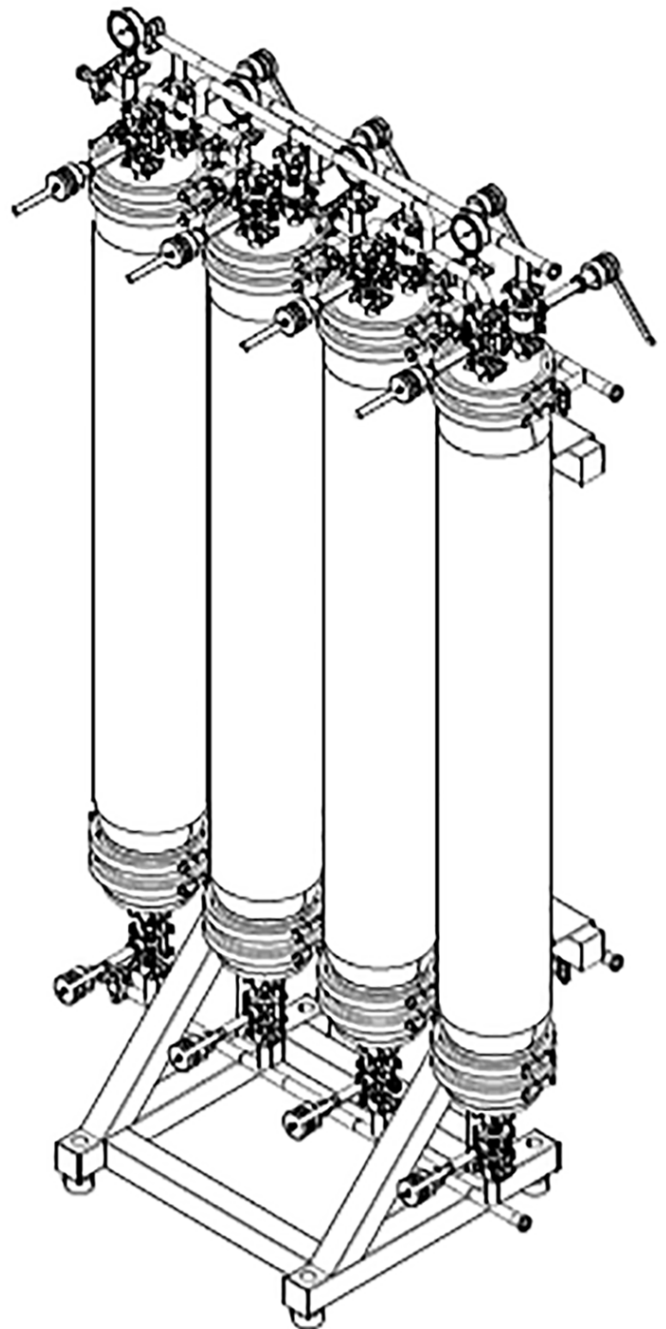
**Dimensions**

78" H x 40" L x 20" W



**Side View**

### MATERIAL TUBE RACK Isometric View





# VAPOR CONDENSER

Frustrated by chillers that **STRUGGLE** to keep up?

This chiller system is ideal for recovering and condensing hydrocarbons or alcohols in large extraction systems. Unlike traditional chillers, which use refrigerant to chill a thermal transfer fluid that is then piped to the application, this chiller can be configured to **chill the heat exchangers** on the system with refrigerant directly. This **eliminates the need for thermal transfer fluids** used by other chillers for greater overall efficiency. The design is low maintenance, and easy to operate once installed - just flip the switch and watch it get cold!

## FEATURES & BENEFITS

- ✓ Condenses up to 75lbs of butane p/hr.
- ✓ Single stage cooling
- ✓ On-roof Refrigerant
- ✓ Keeps the heat outside
- ✓ Fully C1D1 certified compliant

## DOCUMENTATION

✓ [Technical Specs](#)

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## NEED MORE CHILLING POWER?

Two compressor units are available, and **can get you colder, FASTER!**  
**See page 16.**

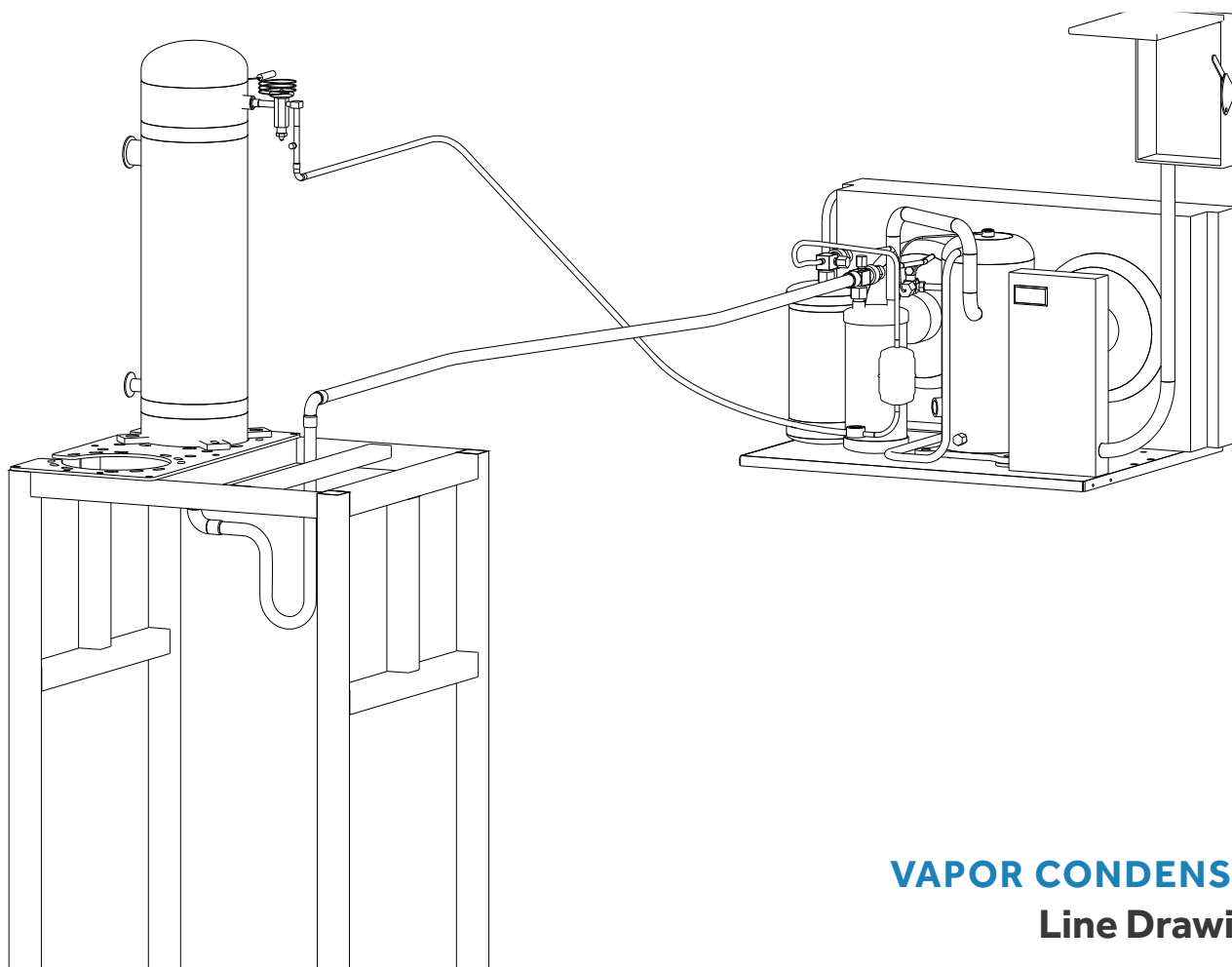
## Vapor Condenser - Models

Designed for hydrocarbon extraction.

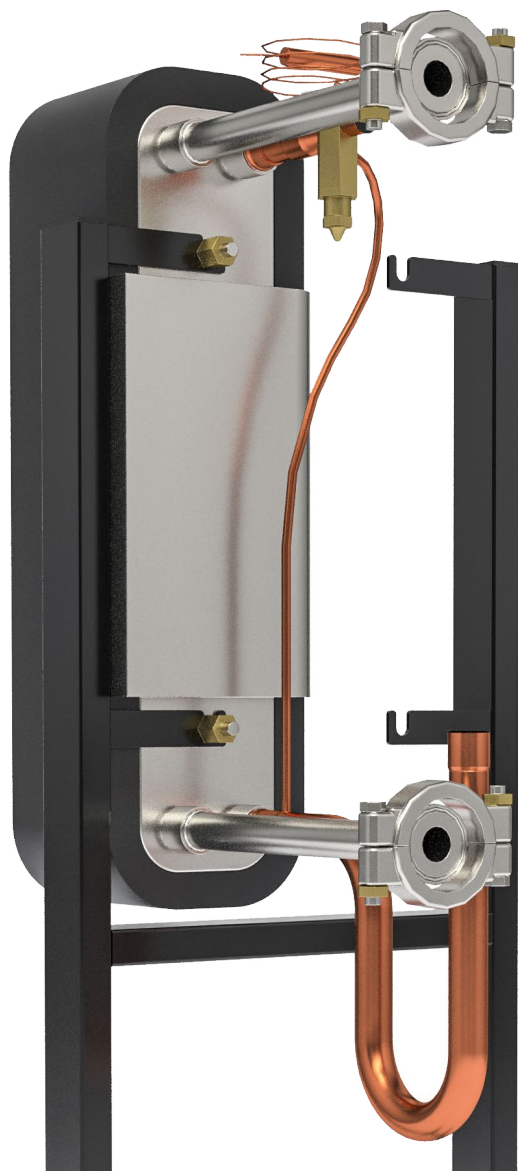
| MODEL              | MOTOR           | PUMP | CO <sub>2</sub> |
|--------------------|-----------------|------|-----------------|
| -40-1PH            | 2 HP<br>1 Phase | yes  | no              |
| -40-3PH<br>-40ATEX | 2 HP<br>3 Phase | yes  | no              |

## TECHNICAL DATA

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| <b>Power</b>                    | 208-230 VAC 3-Phase                                  |
| <b>Max Design Pressure</b>      | Low side 180 PSIG<br>High Side 500 PSIG              |
| <b>Current Draw</b>             | 23 amps 1-Phase<br>14 amps 3-Phase                   |
| <b>Minimum Circuit Ampacity</b> | 32.7 amps 3-Phase                                    |
| <b>Maximum Fuse/Breaker</b>     | 50 amps 3-Phase                                      |
| <b>Refrigerant Type</b>         | R 134A - R 22 - R 404A<br>R 407A - R 407°C - R 407°F |
| <b>Temperature Range</b>        | -45° - 20°C                                          |
| <b>Dimensions</b>               | 10" W x 25.5"H x 33"L                                |
| <b>Weight</b>                   | 75lb                                                 |
| <b>Power Cord</b>               | Hard-Wired                                           |



**VAPOR CONDENSER**  
Line Drawing



# -40°C SINGLE PLATE CHILLER

Frustrated by chillers that **STRUGGLE** to keep up?

This chiller system cycles liquid solvents through a heat exchanger, and **can bring hydrocarbons or alcohols down to -40°C!**

Unlike traditional chillers, which use refrigerant to chill a thermal transfer fluid that is then piped to the application, this chiller can be configured to chill the heat exchangers on the system with refrigerant directly. This **eliminates the need for thermal transfer fluids** used by other chillers for greater overall efficiency. The design is **low maintenance and easy to operate** once installed -- just flip the switch and watch it get cold!

## FEATURES & BENEFITS

- ✓ Chills liquid solvent down to -40°C
- ✓ Designed for chilling volatile solvents
- ✓ 2 electric-powered refrigerant compressors
- ✓ Uses 404A and 508B refrigerants
- ✓ 3-Phase power
- ✓ Sanitary stainless steel plate heat-exchangers
- ✓ Rated MAWP: LPG-350 PSI

## -40°C Liquid Chiller - Models

Designed for hydrocarbon extraction..

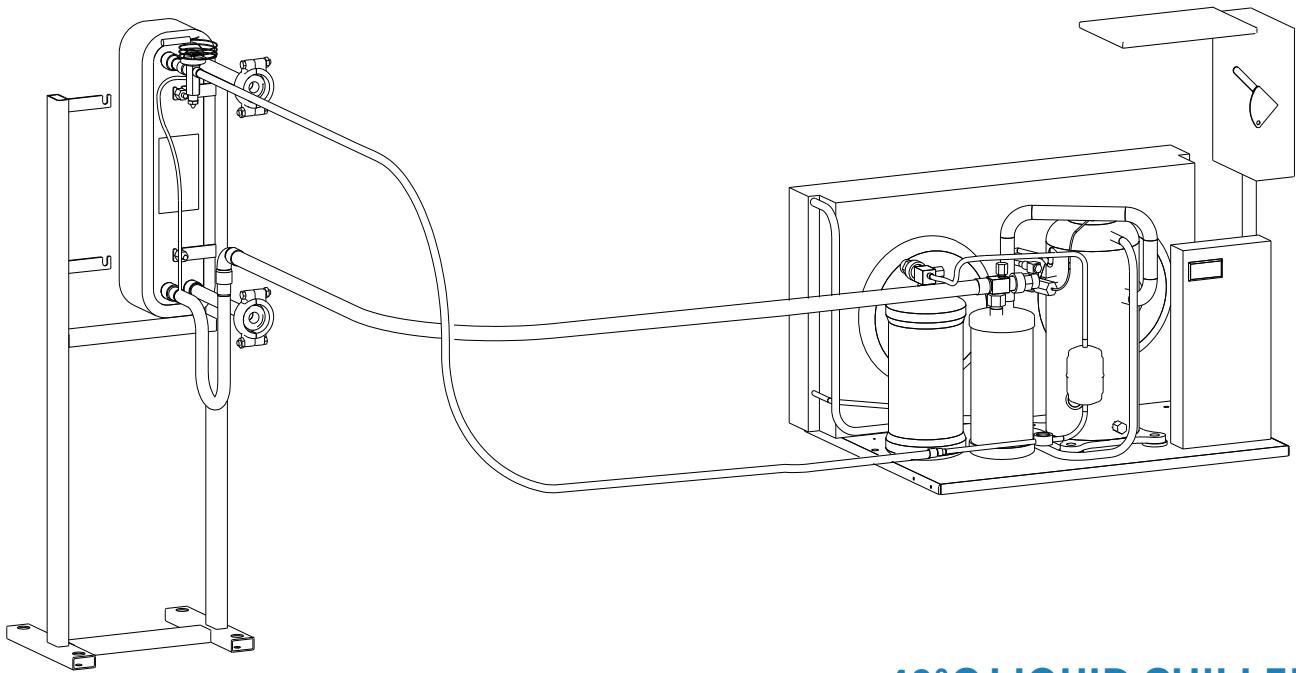
| MODEL              | MOTOR           | PUMP | CO <sub>2</sub> |
|--------------------|-----------------|------|-----------------|
| -40-1PH            | 2 HP<br>1 Phase | yes  | no              |
| -40-3PH<br>-40ATEX | 2 HP<br>3 Phase | yes  | no              |

## DOCUMENTATION

- ✓ [Technical Specs](#)

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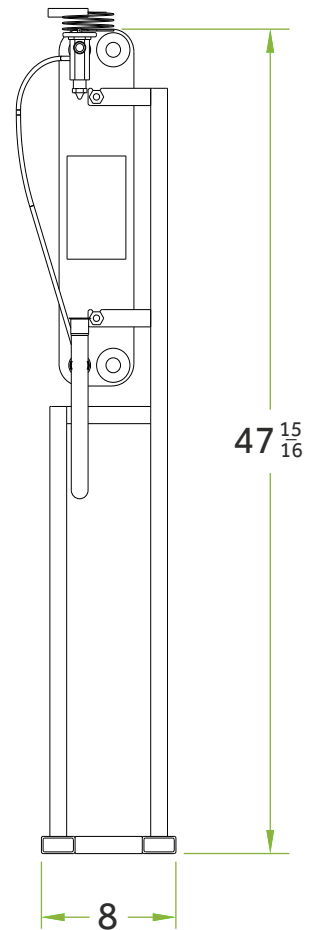


**-40°C LIQUID CHILLER**  
Isometric View

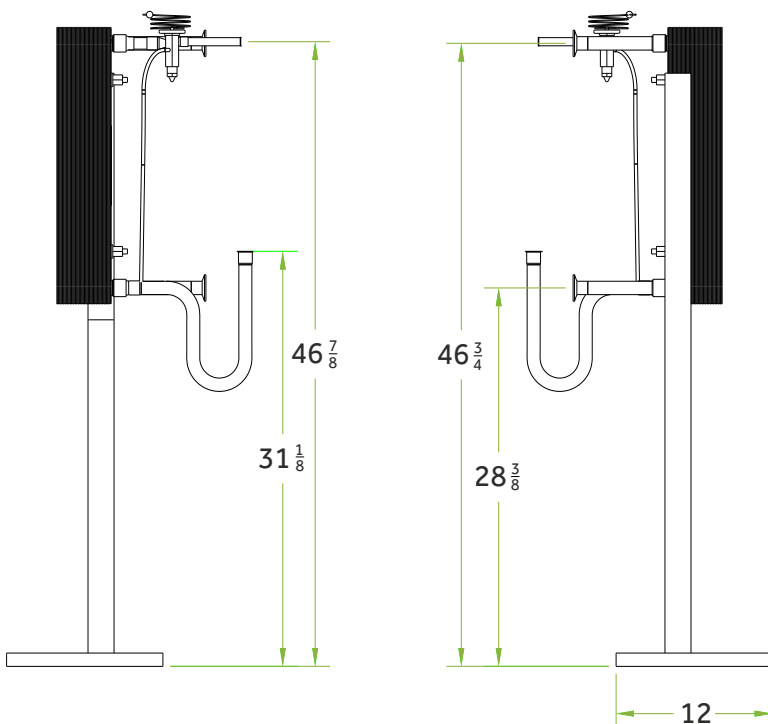
**ELECTRICAL**

|                     |              |
|---------------------|--------------|
| Compressor          | 5 HP         |
| Power               | 1 or 3 Phase |
| Max Circuit Amacity | 28           |
| 1 Unit Compressor   | 12725 BTU/hr |
| 2 Unit Compressor   | 25450 BTU/hr |

**SINGLE PLATE**  
Front View



**Side Views**





# -40°C DOUBLE PLATE CHILLER

## DOUBLE THE POWER

This chiller system cycles liquid solvents through a heat exchanger, and can bring hydrocarbons or alcohols down to -40°C!

Unlike traditional chillers, which use refrigerant to chill a thermal transfer fluid that is then piped to the application, this chiller can be configured to chill the heat exchangers on the system with refrigerant directly. This eliminates the need for thermal transfer fluids used by other chillers for greater overall efficiency. The design is low maintenance, and easy to operate once installed - just flip the switch and watch it get cold!

## FEATURES & BENEFITS

- ✓ Chills liquid solvent down to -40°C
- ✓ Designed for chilling volatile solvents
- ✓ 2 electric-powered refrigerant compressors
- ✓ Uses 404A and 508B refrigerants
- ✓ 3-Phase power
- ✓ Sanitary stainless steel plate heat-exchangers
- ✓ Rated MAWP: LPG-350 PSI

## -40°C Liquid Chiller - Models

Designed for hydrocarbon extraction.

| MODEL              | MOTOR           | PUMP | CO <sub>2</sub> |
|--------------------|-----------------|------|-----------------|
| -40-1PH            | 2 HP<br>1 Phase | yes  | no              |
| -40-3PH<br>-40ATEX | 2 HP<br>3 Phase | yes  | no              |

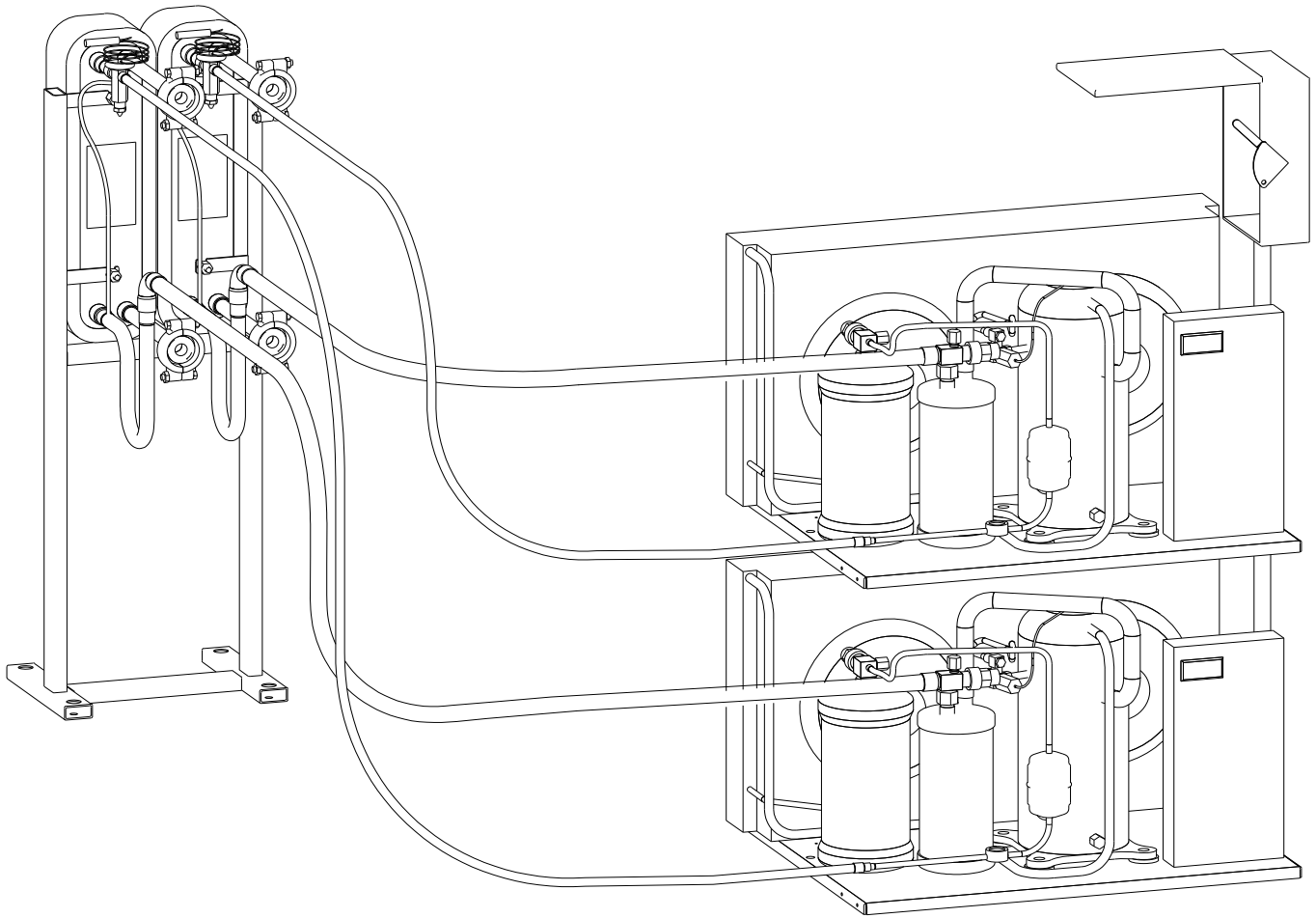
## DOCUMENTATION

- ✓ [Technical Specs](#)

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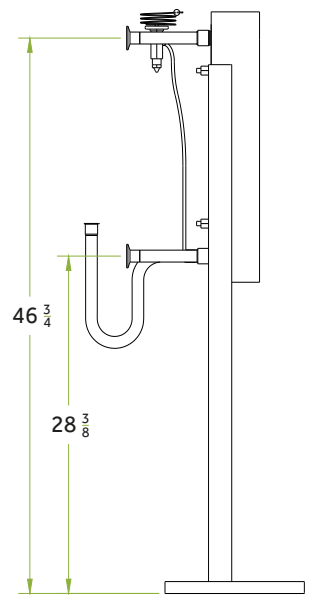
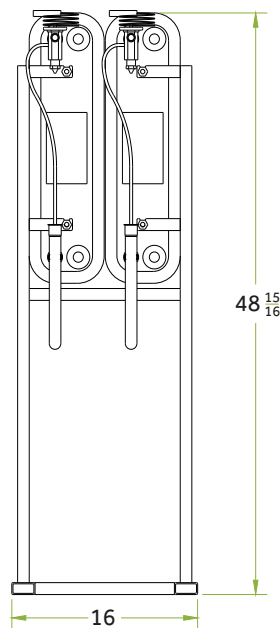


**-40°C LIQUID CHILLER**  
Isometric View

**ELECTRICAL**

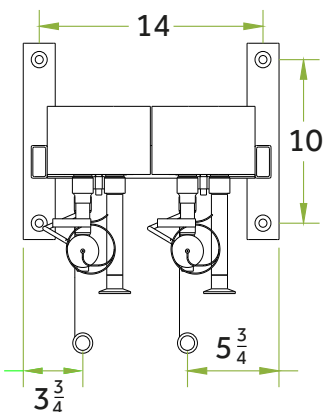
|                     |              |
|---------------------|--------------|
| Compressor          | 5 HP         |
| Power               | 1 or 3 Phase |
| Max Circuit Amacity | 28           |
| 1 Unit Compressor   | 12725 BTU/hr |
| 2 Unit Compressor   | 25450 BTU/hr |

**DOUBLE PLATE**  
Front View



**Side View**

**Top View**





# -80°F LIQUID CHILLER

## Need to get **EVEN COLDER?**

This chiller system functions similarly to the standard Iced.Tech -- it can be used to **chill solvents in the system with refrigerant directly**, without the use of a thermal transfer fluid.

This system, however, includes a cascading dual-refrigerant system with low-temperature refrigerant that is capable of chilling solvent down to -80°. This is the go-to option for process scale cryogenic applications, easily capable of chilling large 30 gallon solvent tanks to subzero temperatures for extraction.

## FEATURES & BENEFITS

- ✓ Chills liquid solvent down to -80°C
- ✓ Designed for chilling volatile solvents
- ✓ 2 electric-powered refrigerant compressors
- ✓ Uses 404A and 508B refrigerants
- ✓ 3-Phase power
- ✓ Sanitary stainless steel plate heat-exchangers
- ✓ Rated MAWP: LPG-350 PSI

## -80 Liquid Chiller - Models

| MODEL              | MOTOR           | PUMP | CO <sub>2</sub> |
|--------------------|-----------------|------|-----------------|
| -80-1PH            | 2 HP<br>1 Phase | yes  | no              |
| -80-3PH<br>-80ATEX | 2 HP<br>3 Phase | yes  | no              |

## DOCUMENTATION

- ✓ [Technical Specs](#)

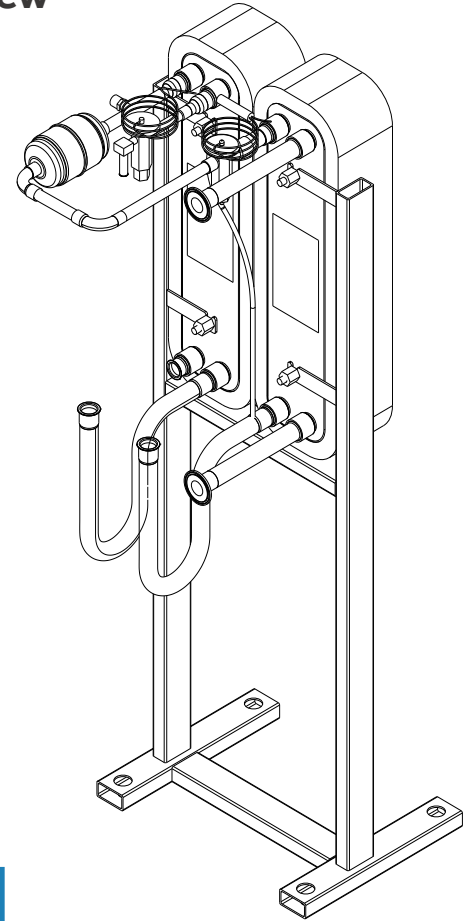
**Purchase now -- CALL US!**

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## ELECTRICAL

|                     |       |
|---------------------|-------|
| Compressor          | 10 HP |
| Max Fuse Size       | 50    |
| Max Curcuit Amacity | 28    |
| Compressor LRA      | 156   |
| Compressor RLA      | 17.9  |

## -80 HEAT EXCHANGER Isometric View



## MECHANICAL

|                   |            |
|-------------------|------------|
| Liquid Port Size  | 3/8        |
| Suction Port Size | 7/8        |
| Oil Recharge      | 320 oz POE |

## HEAT EXCHANGER

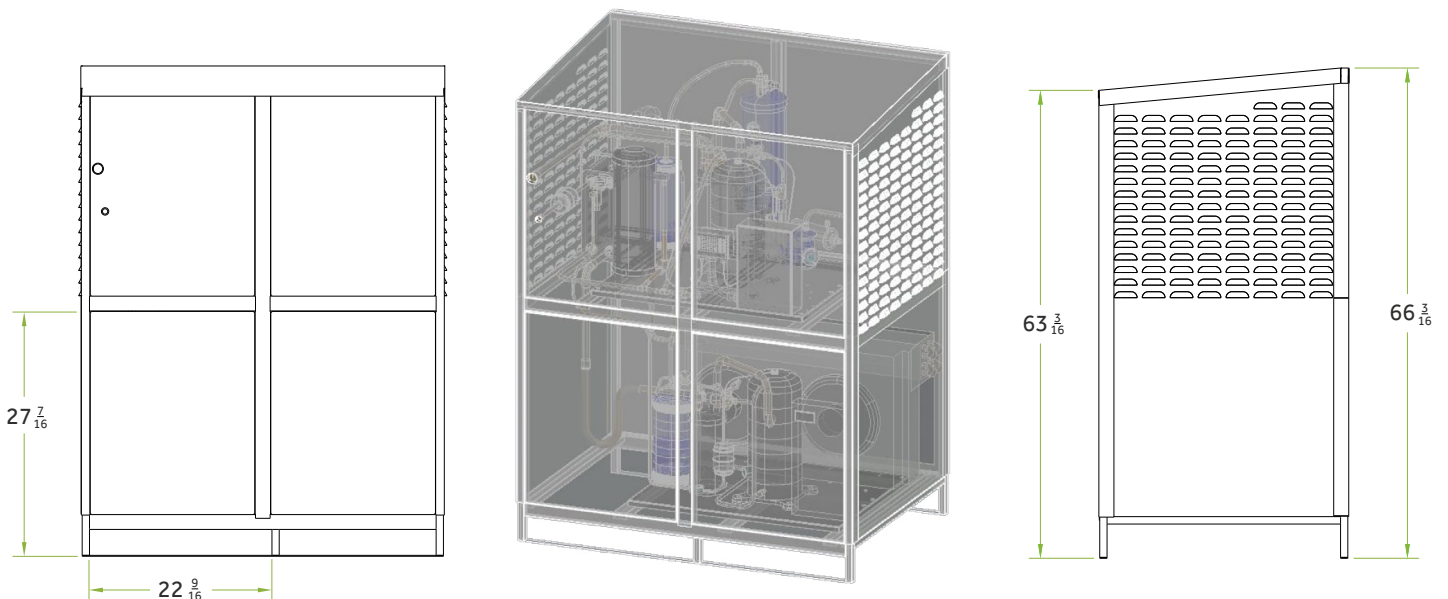
|                        |              |
|------------------------|--------------|
| Solvent Inlet + Outlet | 1.5" Ferrule |
| Refrigerant Inlet      | 3/8          |
| Refrigerant Outlet     | 7/8          |

## -80 LIQUID CHILLER Isometric View

Front View

Isometric View

Side View





# MVP-60

## VAPOR RECOVERY PUMP

### The ORIGINAL Master Vapor Pump

C1D1 rated for use in hazardous locations. It can be used to transfer hydrocarbons, alcohols, and many other solvent vapors up to a maximum operating pressure of 60PSI. Wetted parts of the pump do not need any grease, ensuring clean operation, and **no contamination of extract.**

To ensure safe operation, the back of the diaphragm chamber is pressurized with CO<sub>2</sub> as a failsafe to prevent oxygen from getting into the system, in the event of any part failures. Being **easy to maintain and operate**, as well as **efficient in power usage**, these pumps are well suited to a wide variety of solvent recovery applications.

### MVP-60 Models

| MODEL                    | MOTOR           | PUMP |
|--------------------------|-----------------|------|
| MVP-60-1PH               | 1 HP<br>1 Phase | yes  |
| MVP-60-3PH<br>MVP-60ATEX | 1 HP<br>3 Phase | yes  |

### FEATURES & BENEFITS

- ✓ For LP-Gas Recovery
- ✓ Electric-Powered
- ✓ Dual - Diaphragm
- ✓ Explosion-proof Motor
- ✓ Stainless Steel wetted parts
- ✓ Rated MAWP: LPG-350-PSI

### DOCUMENTATION

▼ Technical Specs

**Purchase now -- CALL US!**

**855-553-3887**

## PUMPHEAD CHARGE

|                                                   |                  |
|---------------------------------------------------|------------------|
| Flow Rate                                         | 6 cfm            |
| Butane Recovery Rate                              | 1-2 lb/min       |
| Butane Re-Condense Rate                           | 12 GPH           |
| Maximum Pumping Outlet Pressure, cnt.             | 60 PSI           |
| Maximum Pumping Outlet Pressure, int.             | 70 PSI           |
| Maximum Pumping Inlet Vacuum Produced             | 27 inHg          |
| Center Section Co <sub>2</sub> Charge Range, cnt. | 5 - 70 PSI       |
| Center Section Co <sub>2</sub> Charge Range, int. | 80 PSI           |
| Equipment Withstand Pressure                      | 350 PSI          |
| Maximum Co <sub>2</sub> Consumption               | <0.2 scfh        |
| Co <sub>2</sub> Inlet Size                        | 1/4 in. npt(f)   |
| Maximum Pump Speed                                | 190 cpm          |
| Process Inlet And Outlet Size                     | 1/2 in. JIC male |
| Optional Pressure Gauge Ports: inlet / outlet     | 1/4 in. npt(f)   |
| Weight                                            | 182.5 lb         |

## NOISE DATA

|                                                  |          |
|--------------------------------------------------|----------|
| Sound Power (measured per ISO-9614-2)            | 70 PSI   |
| Sound Pressure (tested 3.28 ft [1m] from equip.) | 5-80 PSI |

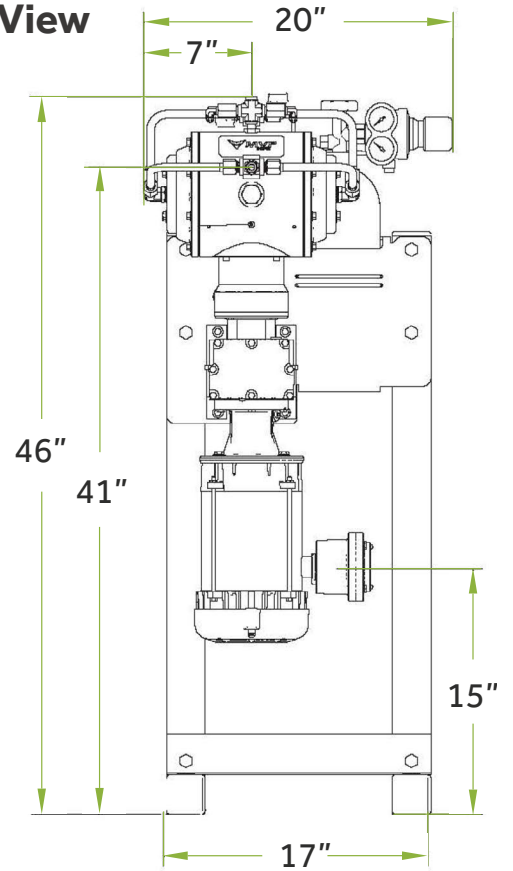
## ELECTRICAL / MAINTENCE

|                       |              |                            |
|-----------------------|--------------|----------------------------|
| Power                 | MVP-6CFM-1HP | 1 HP                       |
| Speed                 |              | 1800 rpm (60Hz)            |
| Gear Ratio            |              | 9.41                       |
| Voltage               |              | 3-phase 208-230/460V       |
| Maximum Amperage Load |              | 3.3A (230V) / 1.65A (460V) |
| Power                 | MVP-6CFM-3HP | 1 HP                       |
| Speed                 |              | 1800 rpm (60Hz)            |
| Gear Ratio            |              | 9.41                       |
| Voltage               |              | 1-phase 115/208-230V       |
| Maximum Amperage Load |              | 13.4A (115V) / 2.7A (230V) |

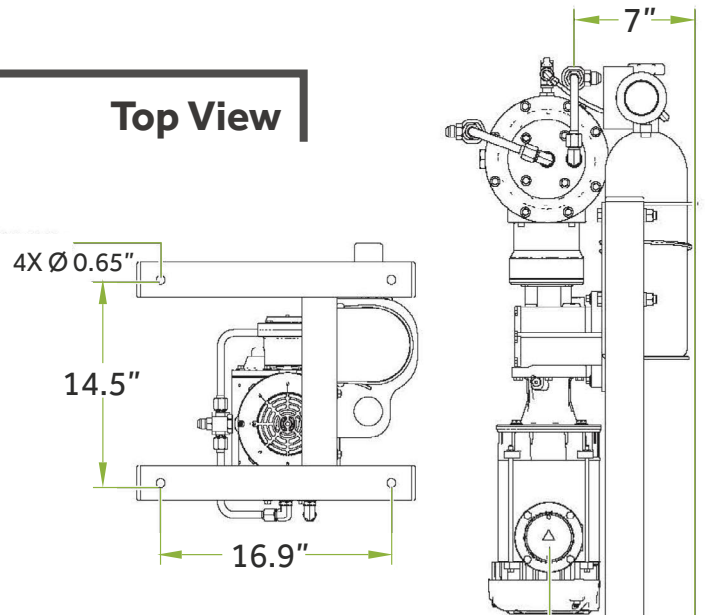
## MATERIALS

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Process Pressure and Reed Valves | Stainless steel                          |
| Diaphragms                       | FKM fluoroelastomer, PTFE                |
| Process Vapor Temp. Range        | FKM: -40° to 275°<br>PTFE: -40° to 220°F |

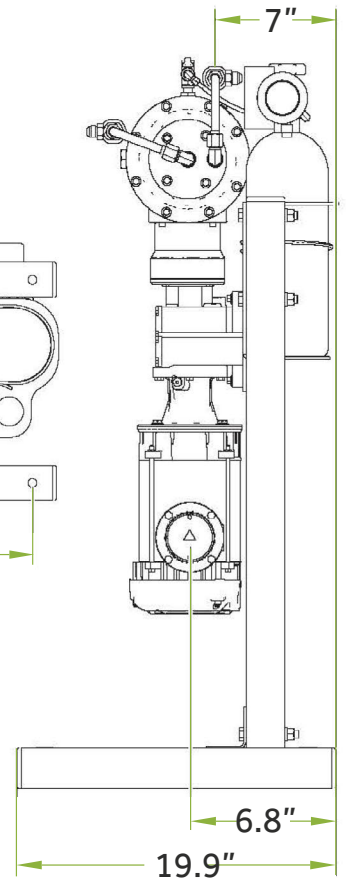
MVP 60 VAPOR  
Front View



Top View



Side View





# MVP-150

## VAPOR RECOVERY PUMP

This pump has all of the best features of the original MVP 60, and more. Just like the original, **it is explosion proof**, can accommodate a wide variety of solvents, **has no greased wetted parts**, and is pressurized with CO<sub>2</sub> as a failsafe.

The **larger motor** and **more robust seals** can perform at a higher operating pressure of up to 150psi, allowing for easier usage of gases with higher operating pressure ranges.

### MVP-150 Models

| MODEL                      | MOTOR           | PUMP |
|----------------------------|-----------------|------|
| MVP-150-1PH                | 2 HP<br>1 Phase | yes  |
| MVP-150-3PH<br>MVP-150ATEX | 2 HP<br>3 Phase | yes  |

### FEATURES & BENEFITS

- ✓ For LP-Gas Recovery
- ✓ Electric-Powered
- ✓ Dual - Diaphragm
- ✓ Hazardous Location Motor
- ✓ Stainless Steel wetted parts
- ✓ Rated MAWP: LPG-375-PSI

### DOCUMENTATION

▼ Technical Specs

**Purchase now -- CALL US!**

**855-553-3887**

### PUMPHEAD CHARGE

|                                               |                |
|-----------------------------------------------|----------------|
| Flow Rate                                     | 6 cfm          |
| Butane Recovery Rate                          | 1.5 lb/min     |
| Butane Re-Condense Rate                       | 18 GPH         |
| Propane Recovery Rate                         | 2 lb/min       |
| Propane Re-Condense Rate                      |                |
| Maximum Pumping Outlet Pressure               | 60 PSI         |
| Maximum Pumping Inlet Vacuum Produced         | 70 PSI         |
| Maximum Center Section Co <sub>2</sub> Charge | 27 inHg        |
| Equipment Withstand Pressure                  | 5 - 70 PSI     |
| Maximum Co <sub>2</sub> Consumption           | 80 PSI         |
| Co <sub>2</sub> Inlet Size                    | 350 PSI        |
| Maximum Pump Speed                            | <0.2 scfh      |
| Process Inlet And Outlet Size                 | 1/4 in. npt(f) |
| Optional Pressure Gauge Ports: inlet / outlet | 190 cpm        |
| Weight                                        | 182.5 lb       |

### NOISE DATA

|                                                  |          |
|--------------------------------------------------|----------|
| Sound Power (measured per ISO-9614-2)            | 88.5 dBa |
| Sound Pressure (tested 3.28 ft [1m] from equip.) | 80.5 dBa |

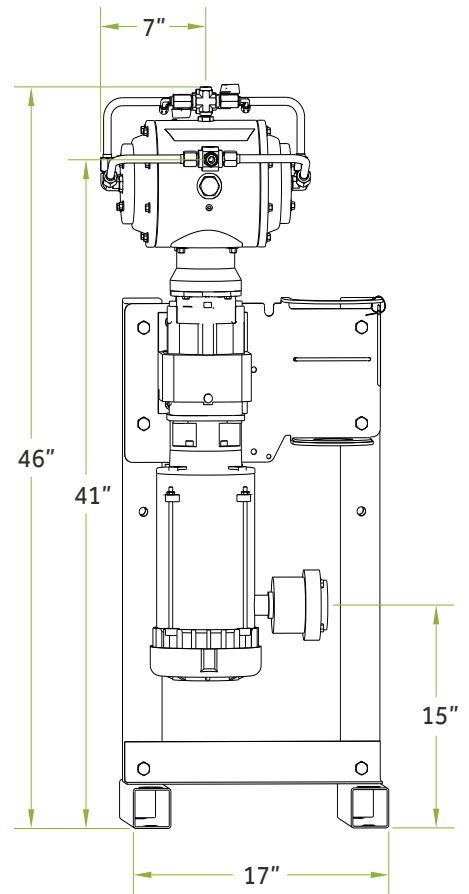
### ELECTRICAL / MAINTENCE

|                       |                             |
|-----------------------|-----------------------------|
| Power MVP-150CFM-1HP  | 2 HP                        |
| Speed                 | 3600 rpm (60Hz)             |
| Gear Ratio            | 16.5:1                      |
| Voltage               | 3-phase 208-230/460V        |
| Maximum Amperage Load | 5.2A (230V) / 2.6A (460V)   |
| Power MVP-150CFM-3HP  | 2 HP                        |
| Speed                 | 3600 rpm (60Hz)             |
| Gear Ratio            | 16.5:1                      |
| Voltage               | 3-phase 240V                |
| Maximum Amperage Load | 5.44A (230V) / 3.14A (460V) |

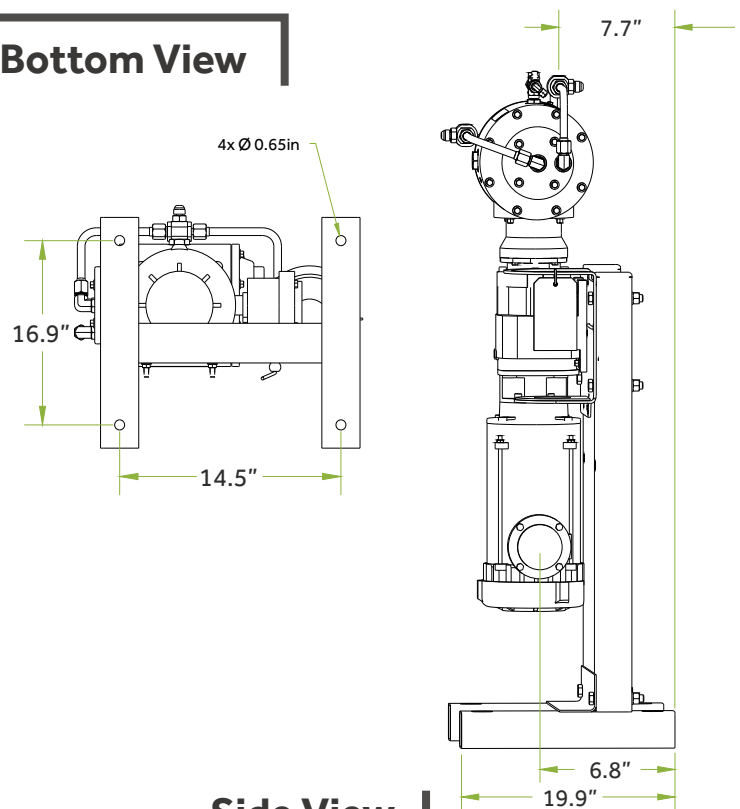
### MATERIALS

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Process Pressure and Reed Valves | Stainless steel                             |
| Diaphragms                       | PTFE, FKM                                   |
| Process Vapor Temp. Range        | FKM: -40°F to 275°F<br>PTFE: -40°F to 220°F |

MVP 150 VAPOR  
Front View



Bottom View



Side View



# MVP-150XL

## VAPOR RECOVERY PUMP

### BIGGEST, AND FASTEST

This is the biggest, and fastest pump we have made to date! It has all of the features of the MVP 150, **including the higher operating** pressure range.

However, in this model, the motor, diaphragm chamber, vapor inlet, and vapor outlet have all been **OVERSIZED**. That gives this pump up to three times the flow rate of the MVP 150. This pump is perfect for **large-scale** industrial applications.

### MVP-150XL

| MODEL     | MOTOR | PUMP |
|-----------|-------|------|
| MVP-150XL | 5 HP  | yes  |

### FEATURES & BENEFITS

- ✓ For LP-Gas Recovery
- ✓ Electric-Powered
- ✓ Dual - Diaphragm
- ✓ Hazardous Location Motor
- ✓ Stainless Steel wetted parts
- ✓ Rated MAWP: LPG-375-PSI

### DOCUMENTATION

▼ Technical Specs

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**855-553-3887**



### PUMPHEAD CHARGE

|                                               |                |
|-----------------------------------------------|----------------|
| Flow Rate                                     | 18 cfm         |
| Butane Recovery Rate                          | 3 - 5 lb/min   |
| Butane Re-Condense Rate                       | 30 - 60 GPH    |
| Propane Recovery Rate                         | 3 - 5 lb/min   |
| Propane Re-Condense Rate                      |                |
| Maximum Pumping Outlet Pressure               | 150 PSI        |
| Maximum Pumping Inlet Vacuum Produced         | 70 PSI         |
| Maximum Center Section Co <sub>2</sub> Charge | -27.6 Hg       |
| Equipment Withstand Pressure                  | 350 PSI        |
| Maximum Co <sub>2</sub> Consumption           | 80 PSI         |
| Co <sub>2</sub> Inlet Size                    | 350 PSI        |
| Maximum Pump Speed                            | <0.2 scfh      |
| Process Inlet And Outlet Size                 | 1/4 in. npt(f) |
| Optional Pressure Gauge Ports: inlet / outlet | 190 cpm        |
| Weight                                        | 182.5 lb       |

### NOISE DATA

|                                                  |          |
|--------------------------------------------------|----------|
| Sound Power (measured per ISO-9614-2)            | 88.5 dBa |
| Sound Pressure (tested 3.28 ft [1m] from equip.) | 80.5 dBa |

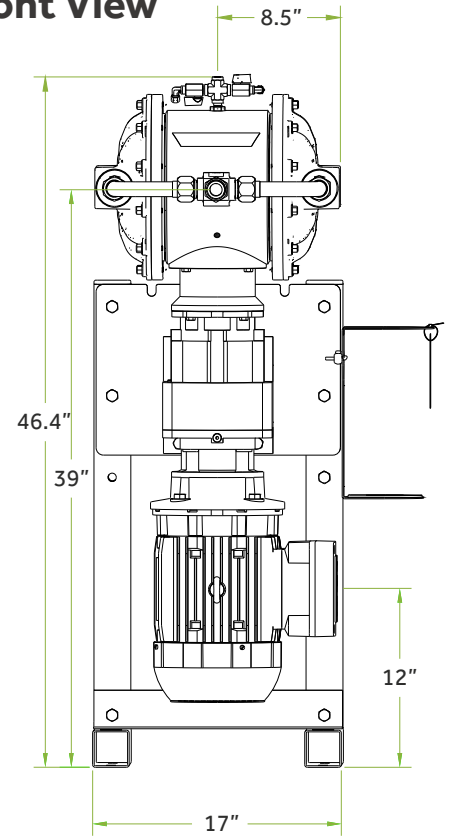
### ELECTRICAL / MAINTENCE

|                       |                             |
|-----------------------|-----------------------------|
| Power MVP-150XL-1HP   | 5 HP                        |
| Speed                 | 3600 rpm (60Hz)             |
| Gear Ratio            | 16.5:1                      |
| Voltage               | 3-phase 208-230/460V        |
| Maximum Amperage Load | 5.2A (230V) / 2.6A (460V)   |
| Power MVP-150XL-3HP   | 5 HP                        |
| Speed                 | 3600 rpm (60Hz)             |
| Gear Ratio            | 16.5:1                      |
| Voltage               | 3-phase 240V                |
| Maximum Amperage Load | 5.44A (230V) / 3.14A (460V) |

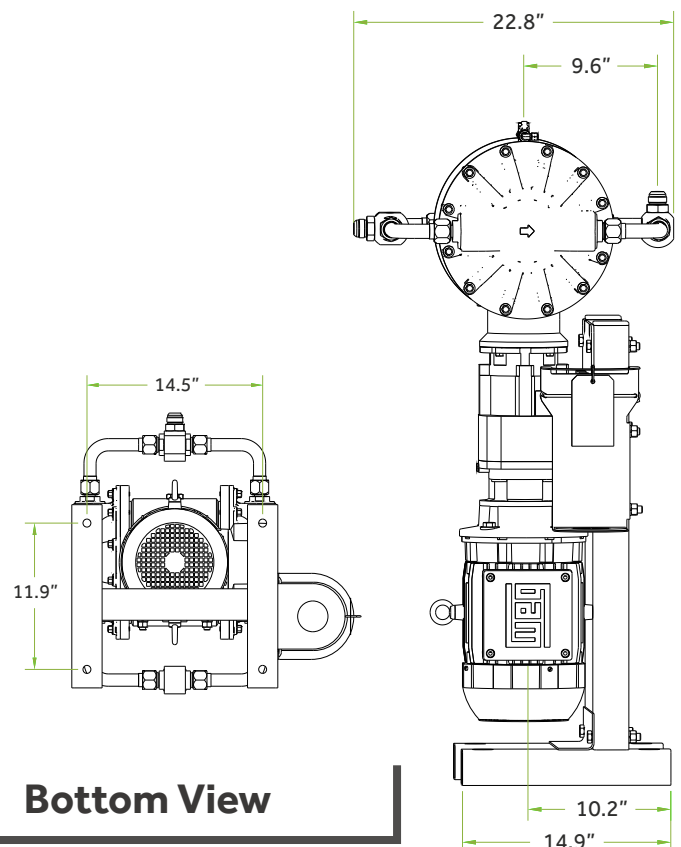
### MATERIALS

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Process Pressure and Reed Valves | Stainless steel                          |
| Diaphragms                       | PTFE, FKM                                |
| Process Vapor Temp. Range        | FKM: -20° to 275°<br>PTFE: -40° to 220°F |

### MVP 150XL VAPOR Front View



### Side View



### Bottom View

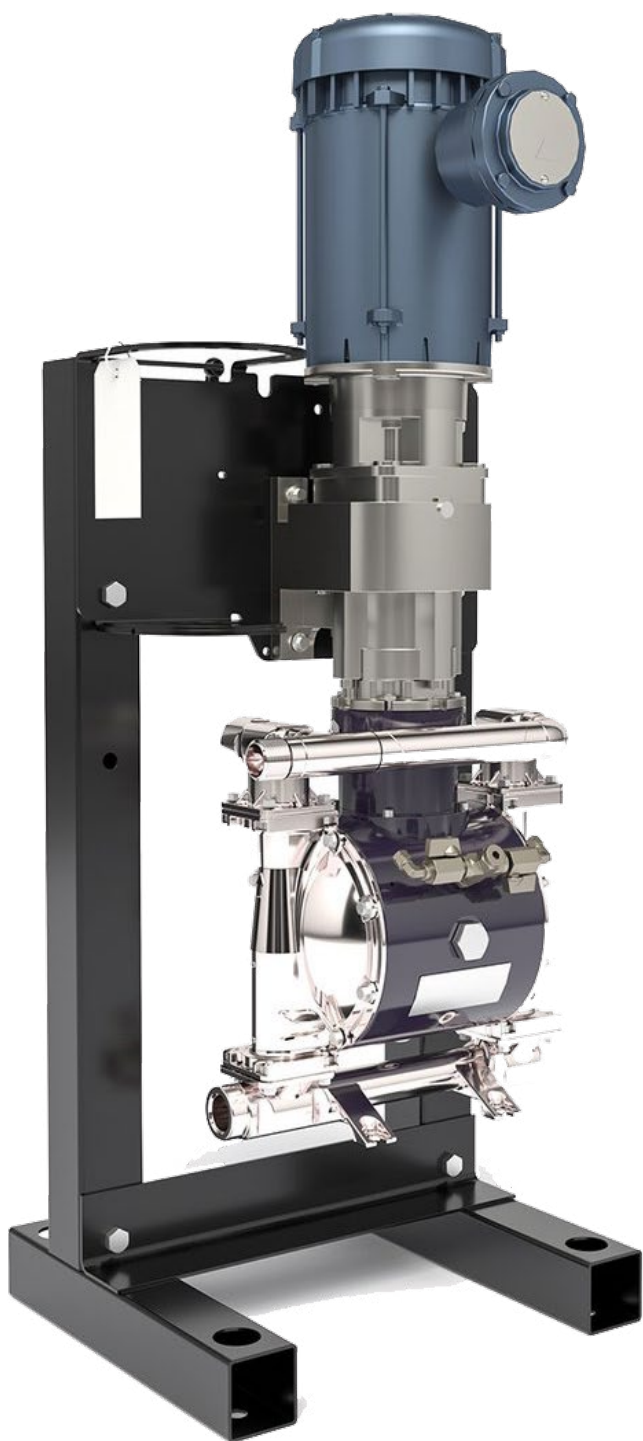
# MVP LIQUID TRANSFER PUMP

This pump is configured to transfer liquid solvents at temperatures **as low as -60°C and as high as 104°C**. This pump also shares many of the same features as the other MVP models, such as a C1D1 explosion-proof rating, no greased wetted parts, and a diaphragm chamber pressurized with CO<sub>2</sub> as a failsafe.

Like the other MVP models, it can be used with a wide variety of solvents such as hydrocarbons and alcohols. This allows for a wide variety of additional functions, such as **hot and cold cycling through heat exchangers** to control temperatures on the unit, transferring of cold solvents with little to no vapor pressure, and spraying liquid solvent through falling film tubes to increase recovery rates.

## MVP-Liquid Models

| MODEL                                   | MOTOR           | PUMP |
|-----------------------------------------|-----------------|------|
| <b>LIQUID-1PH</b>                       | 2 HP<br>1 Phase | yes  |
| <b>LIQUID-3PH</b><br><b>LIQUID-ATEX</b> | 2 HP<br>3 Phase | yes  |



## FEATURES & BENEFITS

- ✓ For volatile solvents (LPG/Ethanol)
- ✓ Delivery and slurry circulation
- ✓ Dual - Diaphragm
- ✓ Electric powered explosion-proof motor
- ✓ Stainless Steel wetted parts
- ✓ Rated MAWP: LPG-350-PSI

## DOCUMENTATION

▼ Technical Specs

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### PUMPHEAD CHARGE

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| Maximum Pumping Outlet Pressure             | 70 PSI                                   |
| Center Section Co <sub>2</sub> Change Range | 5-80 PSI                                 |
| Equipment Withstand Pressure                | 350 PSI                                  |
| Center Section Co <sub>2</sub> Consumption  | <0.2scfh                                 |
| Co <sub>2</sub> Inlet Size                  | 1/4 in. npt(f)                           |
| Maximum Pump Speed                          | 135 cprn                                 |
| Process Inlet And Outlet Size               | 1 in npt                                 |
| Weight                                      | 173.2lb                                  |
| Electric Motor                              | Explosion proof for C1D1 hazardous areas |

### NOISE DATA

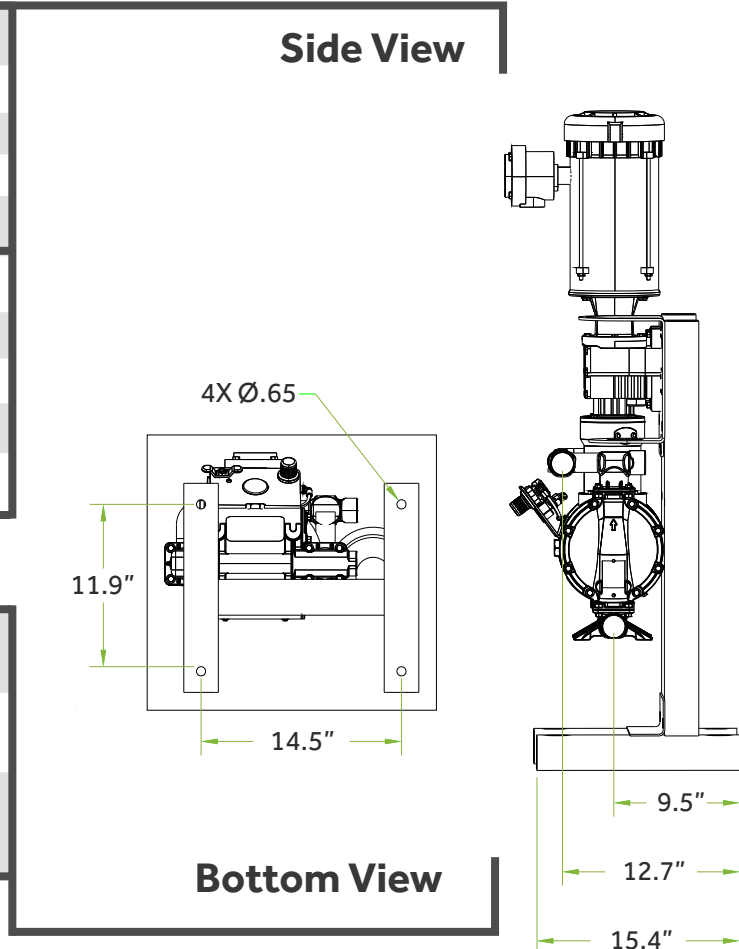
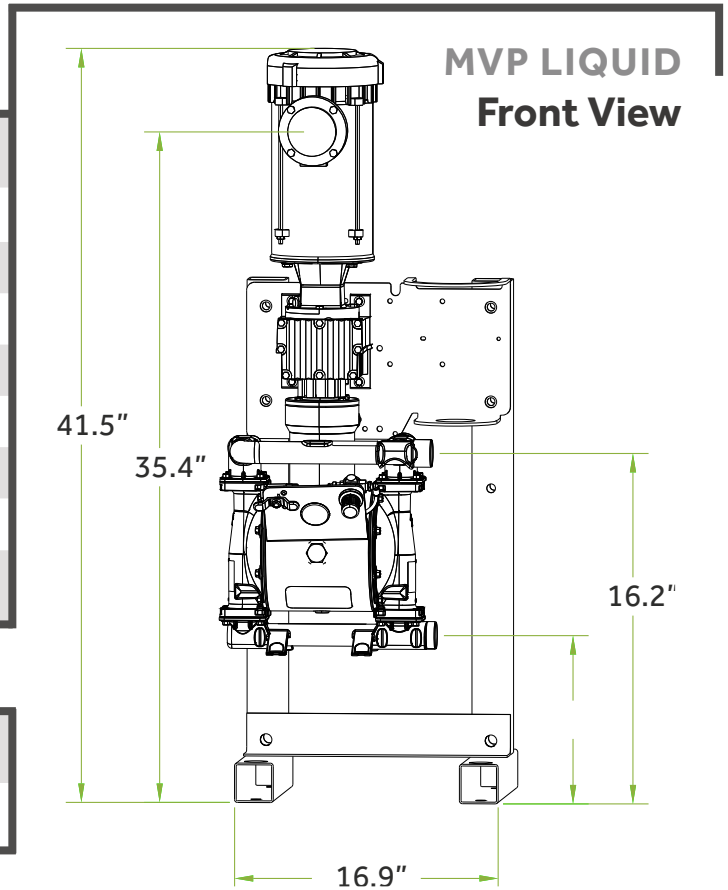
|                                             |          |
|---------------------------------------------|----------|
| Maximum Pumping Outlet Pressure             | 70 PSI   |
| Center Section Co <sub>2</sub> Change Range | 5-80 PSI |

### ELECTRICAL / MAINTENCE

|                       |                |                    |
|-----------------------|----------------|--------------------|
| Power                 | MVP-LIQUID-1PH | 2 HP               |
| Speed                 |                | 3600 rpm (60Hz)    |
| Gear Ratio            |                | 25.85              |
| Voltage               |                | 1-phase 115-208    |
| Maximum Amperage Load |                | 20A (115V / 10A)   |
| Power                 | MVP-LIQUID-3PH | 2 HP               |
| Speed                 |                | 3600 rpm (60Hz)    |
| Gear Ratio            |                | 25.85              |
| Voltage               |                | 3-phase 208-230    |
| Maximum Amperage Load |                | 5.2A (230V / 2.6A) |

### MATERIALS

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| Process Pressure and Reed Valves | Stainless steel                                                   |
| Diaphragms                       | FKM fluoroelastomer, PTFE, PTFE over mold                         |
| Process Vapor Temp. Range        | FKM: -40° to 275°<br>PTFE: 0° to 220°F<br>Over Mold: -40° to 220° |



# FUEGO

## ALCOHOL HEATER

Some people like it **HOT!**

This heater can be used to heat up ethanol or other thermal transfer fluids in a recirculating system. It features a C1D1 explosion-proof rating. This can be used for a number different of functions, such as pre-heating liquid solvent before spraying it into a falling film tube to **increase recovery rates**, or heating up tubes to **recover remaining solvent post-extraction**. This opens up a variety of different options to recover solvent faster, and more efficiently.

This is especially useful for systems which swing material tube temperatures from cold during extraction to hot during recovery using our Iced Tech chiller, and Master Vapor Liquid Pump. This allows you to **extract at ideal temperatures for making live resin and sauce**, but still maintain solvent recovery rates only possible at higher temperatures.

### FEATURES & BENEFITS

- ✓ Indoor Use
- ✓ 99% Maximum Relative Humidity
- ✓ Maximum ambient temp : 140°F



### Fuego Alcohol Heater - Models

| MODEL                                 | MOTOR           | PUMP |
|---------------------------------------|-----------------|------|
| <b>FUEGO-1PH</b>                      | 2 HP<br>1 Phase | yes  |
| <b>FUEGO-3PH</b><br><b>FUEGO-ATEX</b> | 2 HP<br>3 Phase | yes  |

### DOCUMENTATION

▼ Technical Specs

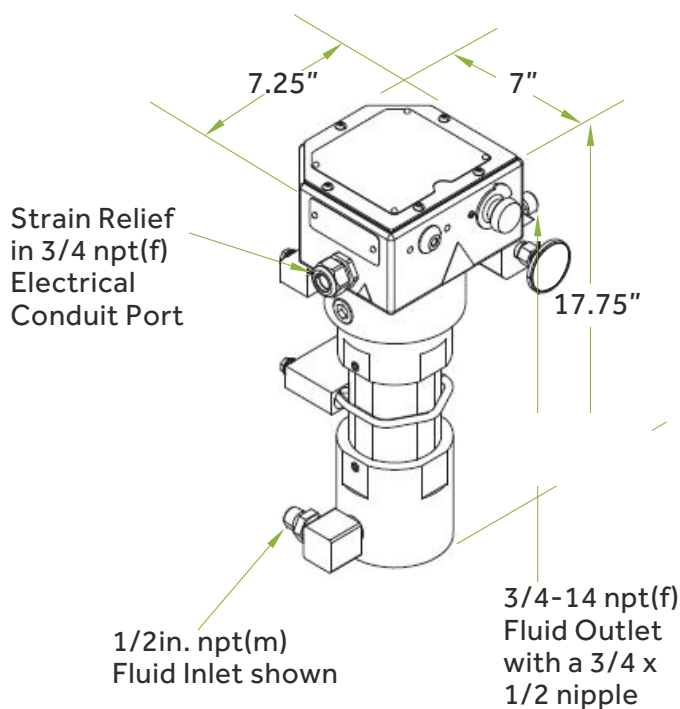
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**855-553-3887**

### TECHNICAL DATA

|                                         |                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------|
| <b>Maximum working pressure</b>         | 7250 PSI                                                                       |
| <b>Voltage / Wattage / Current*</b>     | 240 VAC<br>5400 Watts<br>22.5 Amps                                             |
| <b>Fluid Passage Heat Transfer Area</b> | 210 <sup>^</sup> in <sup>2</sup>                                               |
| <b>Fluid Passage Dimensions</b>         | H: 0.41in<br>W: 0.32in<br>L: 3x48in                                            |
| <b>Thermometer Range</b>                | 64° - 250°F                                                                    |
| <b>Wetted Parts</b>                     | Stainless Steel,<br>Anodized Aluminum Electroless<br>Nickel-Plated Steel, PTFE |
| <b>Temp. Control Operating Range</b>    | 84° - 219°                                                                     |
| <b>Input Fluid Temperature</b>          | -40° - 225°F                                                                   |
| <b>Weight</b>                           | 51lb                                                                           |
| <b>Heat Transfer Fluids</b>             | Water, Oil, Glycol                                                             |

**FEUGO HEATER  
Isometric View**



**FEUGO HEATER  
Side View**

