

COMPLETE METALWORKING SOLUTIONS
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Abanaki skimmers remove <u>any</u> free floating hydrocarbon (oil, fat or grease) from aqueous liquids. This includes: kerosene, Bunker C, gasoline, diesel fuel, tramp oils, motor oils, salad oils, tuna oil, chicken fat, trichlorethylene, perchlorethylene, and <u>many others</u>.

### **Wastewater Sumps**

• To reclaim waste oils before ejecting the water into the sewage system. The skimmer pays for itself in no time.

#### **Coolant Tanks**

• To remove tramp oils from coolant. Results are longer coolant life, cleaner coolant, and smooth operating machinery.

### **Heat Treating Quench Tanks**

• Remove waste oils so they do not disrupt the rest of the heat treating operation.

#### **Parts Washers**

• Removes tramp oils from washwater allowing water to be recycled.

### **Parking Lots - Truck Washing Stations**

• Recovers oil runoff from the buried API separators before the water is ejected into the sewers.

### **CNC Machine Beds**

• Removes tramp oil from coolant beds..

### **Outdoor Ponds, Lakes, even Streams**

• Where floating oil contamination requires removal.

### **Food Processing Facilities**

To lift or remove any type of edible oil or fat. Typical applications include a pet food
factory where pig grease is removed from processing vats, and a tuna canning facility
where fish oil is removed for reprocessing.

### In conjunction with Filtration Equipment

• Removes floating oil before filtration, preventing clogging, and prolonging the life of the filter.

### **Monitoring Wells**

Removes oil and fuel from underground aquifers.

### INDUSTRIES WHERE ABANAKI PRODUCTS ARE OPERATED:

### Manufacturers of:

- Food and kindred products
- Textiles
- Wood and paper products, including furniture and containers
- Printing, publishing, and related products
- Chemicals and related products
- Petroleum refining and related industries
- Rubber and plastics products
- Leather products
- Stone, clay, glass and concrete products
- Primary metals (steel, copper, foundries, etc.)
- Fabricated metal products
- Machinery
- Electrical and electronic machinery, equipment and supplies
- Transportation equipment
- Medical related products (optics, drugs, instruments, etc.)

### Other Industries include:

Agriculture, Forestry, and Fishing

Ore Mining

Oil and Gas Extraction

Mining and Quarrying of nonmetallic minerals

Construction

Railroad Transportation

**Commercial Shipping Fleets** 

Local, Suburban and Highway Transportation

Motor Freight Transportation and warehousing

Car and Truck Washing

U.S. Postal Service

U.S. Corp. of Engineers

Electric and Gas utilities

Sanitary and Sewage treatment

Water utilities

Dry cleaning plants, industrial launders, and garment or uniform services Automotive repair, services and garages

### **EXPERIENCE:**

• Abanaki has been the leader in *belt* oil skimming technology for over thirty years. Unlike others, oil skimming has remained our *specialty*.

### EASE OF INSTALLATION, OPERATION, AND MAINTENANCE:

• Depending on the unit, installation times range from 5 to 45 minutes. Abanaki skimmer's small imprint allows easy installation with little or no modification to existing structures. A variety of electrical sources can be used, so that the customer can specify electrical box / switch setup. And our concise installation instructions are the best in the industry.

### **GREAT RANGE OF CAPACITIES:**

• Abanaki skimmers have removal rates ranging from 1 gallon per hour (3.8 liters per hour) to more than 200 gph (757 lph).

### **LIFTING POWER:**

• A single unit elevates and separates oil distances as little as 6 inches (15 cm) up to 100 feet (3048 cm) or more.

### **OUTPUT QUALITY:**

Our skimmers have satisfied EPA requirements of leaving less than 5ppm (parts per million) of oil in water. In addition, with an Abanaki Oil Concentrator<sup>™</sup>, the oil skimmer will pick up less than 1% water with the removed product.

### **VALUE:**

 Operating an Abanaki skimmer can actually save you money. Our skimmers require little labor, conserve wash water, lengthen coolant life and reduce disposal costs while allowing removed oil to be reused or recycled. All Abanaki skimmers are designed to give years of operation in the most demanding conditions.

### NEXT DAY DELIVERY ANYWHERE IN THE CONTINENTAL U.S.A.

• Most of our standard oil skimmers and spare parts are stock items ready to ship. In case of emergencies, we can have a skimmer at your door in less than 24 hours, ready to solve your hydrocarbon contamination.

### **Capacity**

What is the maximum amount of oil to be removed, and the shortest period of time available to do it?

### **Example:**

• For instance, total input may be 200 gallons within a 24-hour period, which is about 8.3 gallons per hour. This data suggests a 4" Tote-It would be the skimmer ideal for this application (see below). However, should this oil contamination require removal in a shorter period of time, then an Oil Grabber<sup>®</sup> Model 4 or 8<sup>2</sup> would be a better choice. Therefore, to handle unforeseen emergencies, we recommend choosing a skimmer with twice the capacity you would anticipate in normal conditions.

Capacity	MM* 1" SST	MM* 2" SST	Tote-It/ Petro 1"	Tote-It/ Petro 2"	Tote-It/ Petro 4"	Oil Grabber 4"	Oil Grabber 8"	MB* 2 x 8	MB* 3 x 8	MB* 5 x 8
1 GPH	X	X	X	X	X	X	X	X	X	X
2 GPH		X	X	X	X	X	X	X	X	X
3 GPH			X	X	X	X	X	X	X	X
6 GPH				X	X	X	X	X	X	X
12 GPH					X	X	X	X	X	X
20 GPH						X	X	X	X	X
40 GPH							X	X	X	X
80 GPH		X				X	X			
120 GPH	120 GPH					X	X			
200 GPH							X			

<sup>\* (</sup>MM – Mighty-Mini)

<sup>\* (</sup>MB – Multi-Belt)

Capacity	TubeTastic! Tube	Mighty Disk
1 GPH	X	X
3 GPH		X

### **NOTE:**

- Skimmer capacity is not affected by the length of the belt.
- The entire tail pulley must be under water for maximum skimmer efficiency.
- Choose a belt length that will allow for easy mounting of the skimmer where oil discharge is convenient, and has access for routine maintenance. Abanaki's ability to use belts to lift skimmed material well over 100-feet with almost no loss in capacity or efficiency is an important feature for many users.

### INFORMATION ABOUT ABANAKI BELTS

**Corrosion Resistant Belt Series** - After years of research and testing, this has become the material of choice. The CR steel belt is made from a specially formulated stainless steel alloy that is high in chrome, low in molybdenum, and low in carbon. The CR belt stands up to high temperatures and harsh chemicals. With belts operating continuously for 10 years in some cases, applications for this belt are almost limitless. The only limitations on its' use are certain combinations of temperature, pH levels, and type of solutions.

**Elastomeric Belt Series** - Our specially formulated elastomer is more attractive to oil and repellent to water than competitive products. It is an extremely durable material able to withstand rough handling during installation and maintenance. The elastomer belt is ideal in applications where abrasive particles are present or when physical abuse of the belt is likely. The single material belt will not delaminate and is designed for continuous operation. The ideal temperature range when using this material is between 50°F (10°C) and 140°F (60°C). Elastomer is also UV sensitive, so prolonged exposure to the sun should be avoided.

**Poly-Belt** - A polyester mono-filament with polyurethane liner, this material is available for demanding applications such as turbulent solutions or explosive atmospheres. An ideal application for the poly-belt is oil remediation using existing monitoring wells. It is also recommended for excessive long distances to pull heavy oils with no stretching. The poly-belt has an operating temperature range between 14°F(-10°C) and 170°F(77°C) continuous. The poly-belt is also effective for picking up certain types of floating emulsified oils.

**Poly-XP** – A NBR (textured pattern, blue) coated polyamide fabric, 1.25mm thick. Temperature range -4°F (-20°C) to 140°F (60°C) continuous, -22°F (-30°C) to 212°F (100°C) intermittent. This belt has a high strength pre-set nylon core with superior resistance to flexing fatigue. Resistant to fats, oils, grease, gasoline, and many other chemicals & solvents. Not resistant to Phenol, Cresol, and concentrated acids.

**Poly-HT** - The Poly-HT belt material can be used in applications where temperatures range between 14°F (-10°C) and 212°F (100°C) without stretching. It can also withstand harsh chemical environments such as those found in the plating industry.

**LFO "Fuzzy" Polymer Belt -** The Patent Pending LFO Polymer belt is specifically designed for high volume recovery of light to medium weight oils. The pickup fibers are .18" in cut length with a density of 18 denier and are mounted on a woven polymer backing at an angle of 45° in the direction of belt travel. Gasoline, diesel, jet fuels, etc. are recovered quickly and efficiently; expected recovery can be increased by as much as a factor of **95** from our other belts (SAE30 oil tested at a factor of 3). The belt is designed for 33°F (.5°C) to 160°F (71°C) with pH levels of 3 to 11. Reinforced to prevent stretching, this belt has tremendous surface area with only minimal change to the footprint of our more "standard" belts.

BELT SAMPLES ARE AVAILABLE FOR TESTING.

### CHOOSING THE RIGHT BELT MATERIAL

Abanaki offers six different belt materials, each with its own properties. The chart below indicates the appropriate belt for the most common applications. The guidelines below are general, actual performance of belts will depend on the variables of each application. Heat, for example, increases a belt's sensitivity to pH levels. To help choose the right belt for your application, Abanaki offers free samples of the available belt material for testing.

Belt Capabilities	Corrosion Resistant Steel	Elastomer	Poly-Belt	Poly-XP	Poly-HT	LFO ''Fuzzy''
+ 150°F (66°C)	YES	NO	YES	YES	YES	YES
pH down to 3 pH up to 13	YES	YES	YES	YES	YES	YES (down to 3) NO (up to 11)
Can operate in the presence of grit, fine and other suspended particles	YES	YES	YES	YES	YES	YES

### **BELT ORDERING INFORMATION:**

### Oil Grabbers<sup>®</sup>: (Model 8<sup>2</sup>, Model 4, MB)

- The belt length is determined by the distance between the centers of the two pulleys. This is the center to center length. It is determined by measuring the distance from the <u>mounting</u> plane to the liquid at its lowest level, and adding 2 feet (61 cm). See "Belt Length Layout Drawing" for each model.
- Oil Grabber® belts can be ordered in any size between 1'6" to 100' (feet), rounded off to the nearest 6 inches. All belt lengths up to 4 feet have the same base price with belt lengths over 4 feet priced on a cost per foot basis.

### Portables: (Tote-It®, PetroXtractor®)

- The belt length is determined by the distance between the centers of the two pulleys. The center to center length is determined by measuring the distance from the <u>mounting</u> plane to the liquid at its lowest level, and adding 1 foot (30 cm). See "Belt Length Layout Drawing" for each model.
- Tote-It belts can be ordered in any size between 1'6" to 5' (feet), rounded off to the nearest 6 inches. All belt lengths up to 5 feet are priced according to the unit. Belt lengths over 5 feet can be arranged using a special adapter and are priced accordingly.
- PetroXtractor belts can be ordered in any size up to 110', typically in increments of 6".

### (Mighty-Mini<sup>®</sup>SST)

• The belt length is determined by measuring the distance from the <u>mounting</u> plane to the bottom of the tail pulley. Lengths available are 6", 12", 18" and 24"

### Steel belts should be handled with care! (Nicks and Creases Substantially reduce the belt's life.)

Abanaki products should <u>only</u> be used with <u>approved</u> Abanaki belts and wiper blades.

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### **SPECIFYING WIPER BLADE MATERIAL**

Wiper blades are offered in five different materials to suit a variety of operating conditions. The standard material is **Nitrile**, which is appropriate for 95% of all applications. One of the optional materials, **CRV**, is recommended for particularly harsh conditions.

### WHAT TYPE OF WIPER BLADES ARE BEST?

The charts below illustrate characteristics of each material.

PROPERTY	NITRILE	CRV
Minimum recommended temp °F (°C)	-25 (-32)	-20 (-29)
Maximum recommended temp °F (°C)	+240 (+116)	+400 (+204)
Hardness (durometer)	A40-95	A70-80
Resistance to: Tearing	Good	Poor to fair
Abrasion	Good-Excellent	Good
Oxidation	Good	Outstanding
Aliphatic hydrocarbons	Excellent	Excellent
Aromatic hydrocarbons	Good	Excellent
Oxygenated alcohol's	Good	Excellent
Dilute or Concentrated acids	Good	Good-Excellent

PROPERTY	CERAMIC	STAINLESS STEEL	HYBRID
Minimum recommended temp °F (°C)	All Temperatures	All Temperatures	-40 (-40)
Maximum recommended temp °F (°C)	All Temperatures	All Temperatures	+140 (+60)
Resistance to: Tearing	N/A	N/A	Excellent
Abrasion	Excellent	Excellent	Excellent
Oxidation	Excellent	Excellent	Excellent
Aliphatic hydrocarbons	Excellent	Excellent	Excellent
Aromatic hydrocarbons	Excellent	Excellent	Excellent
Oxygenated alcohol's	Excellent	Excellent	Not Tested
Dilute or Concentrated acids	Excellent	Excellent	Excellent

### *NOTES:*

- Both Nitrile and CRV wiper blades have excellent resistance to heat aging.
- CRV is recommended for outdoor use (Nitrile is sensitive to UV rays)

(All data comes from Perry's Chemical Engineer's Handbook, 6th edition.)

### **TYPE OF MOTOR**

All Abanaki skimmers are designed to be driven by standard, industrially rated, motors with fully enclosed speed reducing drives. Abanaki skimmers can be specified with the following motors:

- Drip Proof
- TEFC (Totally Enclosed Fan Cooled)
- Severe Duty
- Explosion Proof Class I, Group D Class II, Groups F & G
- Weather Protected Type
- Chemical Duty
- 12vDC

### WHAT TYPE OF MOTOR DO YOU REQUIRE?

The following are the standard motors available with Abanaki belt skimmers:

### Oil Grabbers®

- 60Hz 1-ph 115/208-230v 1/4hp 1725rpm 56C Face TEFC
- 60Hz 3-ph 208-230/460v 1/4hp 1725rpm 56C Face TEFC
- 50Hz 1-ph 110/220v 1/2hp 1425rpm 56C Face TEFC
- 50Hz 3-ph 220/380/440v 1/2hp 1425rpm 56C Face XPFC

### Tote-It® Portable

- gear motor, 60Hz 115v 1/20hp 12rpm
- gear motor, 50Hz 110/220v 12.5rpm 60Hz 115/230v 15rpm

### Mighty Mini® SST

- gear motor, 60Hz 115v 30rpm needle bearing fan-cooled
- gear motor, 50Hz 230v 30rpm needle bearing fan-cooled

### Grease Grabber®

- 60Hz 1-ph 115/208-230v 1/4hp 1725rpm 56C Face TEFC
- 50Hz 1-ph 110/220v 1/2hp 1425rpm 56C Face TEFC

### PetroXtractor®

- gear motor, 60Hz 115v 1/20hp 30rpm
- gear motor, 60Hz 115v 1/20hp 12rpm
- gear motor, 50Hz 110/220v 12.5rpm 60Hz 115/230v 15rpm

The following are the standard motors available with Abanaki disk and tube skimmers:

### Mighty® Disk Skimmer

- Gear Motor, 60Hz 115v 7rpm
- Gear Motor, 50Hz 260v 7rpm
- Gear Motor, 60Hz 115v 3.5rpm
- Gear Motor, 50Hz 260v 3.5rpm

### TubeTastic!<sup>™</sup> Tube Skimmer

- Gear Motor, 60Hz 115v 45rpm
- Gear Motor, 50Hz 260v 45rpm

If you are faced with an unusual requirement, contact the factory about the availability of special motors, controls and drive components.

### **Optional Equipment**

Abanaki oil skimmers offers various options to adapt to different applications. Some of the most common options are listed below:

Mounting stands:	Concentrator and Options:
Barrel mount support bracket for the Tote-It	Tote-It mounting adapter
5' storage stand for the Tote-it	Stainless steel Concentrator (SS 316) - OC-110
Universal mounting stand 48" high	Concentrator with heater OC-110 & OC-200
Cage type stand for pits	Other Options
	Heater hood for outdoors (Model 8 <sup>2</sup> and 2x8)
	Yokes and chains for all skimmers
	Belt Retainer

	Oil Grabber		Portable		Mu	lti-Belt U	J <b>nits</b>
OPTIONS AND OTHER CAPABILITIES	Model 8 <sup>2</sup>	Model 4	Tote-It 1",2",4"	PetroXtractor 1",2",4"	MB 2x8	MB 3x8	MB 5x8
HEATED DECANTER	X	X		X	X	X	X
MORE THAN 10 FEET OF LIFTING DISTANCE	X	X		X	X	X	X
HEATED HOOD FOR OUTDOOR COLD WEATHER APPLICATIONS	X				X	X	X
AVAILABLE IN 316 STAINLESS	X	X	X	X	X	X	X
CORROSION RESISTANT STEEL BELT	X	X	X		X	X	X
OUTDOOR SHELTER	X	X	X	X	X	X	X
BELOW GRADE UNIT	X			X			
VAPOR TIGHT ENCLOSURE	X			X			
FLOAT SWITCH DRUM SHUTOFF	X	X	X	X	X	X	Х

### Understanding and choosing an appropriate skimmer Instructions: copy sheets, complete worksheet and then fax to Abanaki.

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Name:		, PH:	, Fax:	
Company:				
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Capacity in GPH	MODEL OF SKIMMER	<b>☑</b> one	Quantity
1	Mighty Mini 1" SST		
2	Mighty Mini 2" SST		
3	Tote-It Portable 1" PetroXtractor 1"		
6	Tote-It Portable 2" PetroXtractor 2"		
12	Tote-It Portable 4" PetroXtractor 4"		
20	Oil Grabber Model 4		
40	Oil Grabber Model 8 <sup>2</sup>		
80	Multi-Belt 2x8 Unit		
120	Multi-Belt 3x8 Unit		
160	Grease Grabber		
200	Multi-Belt 5x8 Unit		

Optional SS construction (Y/N)? \_\_\_\_\_

☑ one TYPE OF BELT		LENGTH OF BELT (Length of belt measured ctr-ctr between head pulleys)
	STAINLESS STEEL	
	ELASTOMER	
	POLY BELT	
	POLY-XP	
	POLY-HT	
	LFO "Fuzzy"	

Capacity in GPH	MODEL OF SKIMMER	<b>☑</b> one	Quantity
1-1/2	TubeTastic! Tube		
2	Mighty Disk 12"		
2	Mighty Disk 18"		

<b>☑</b> one	TubeTastic!
	6" Tube
	12" Tube
	18" Tube
	24" Tube

<b>☑</b> one	Mighty Disk	<b>☑</b> one	Mighty Disk
	12" Standard Disk		12" High Temp. Disk
	18" Standard Disk		18" High Temp. Disk

WIPER BLADE MATERIAL	<b>☑</b> one
NITRILE (Standard on Carbon Steel units)	
CRV (Standard on SS units)	
Ceramic	
Stainless Steel	
Hybrid	

■ <b>HEATER</b> FOR SKIMMER (single phase only).	Available on Model 8 <sup>2</sup> and Multi Belt units only.
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OIL SKIMMER STANDS AND MOUNTS Circle Choice						
MIGHTY MINI	MULTI-BELT UNITS					
DUAL POSITION	DRUM MOUNT	DRUM MOUNT	4' STAND			
MOUNTING BRACKET	4' STAND	4' STAND	SURFACE MOUNT	MB STAND		
		STORAGE STAND	CHANNEL MOUNT			

TAIL PULLEY options	YOKE & TETHER	BELT RETAINER	SS CONSTRUCTION
<b>☑</b> all that apply			

CONCENTRATORS	$\sqrt{\text{CONCENTRATOR}}$	√ OPTIONAL HEATER	$\sqrt{\text{OPTIONAL S.S.}}$ CONSTRUCTION
ODM-100 Mighty-Mini 1" and 2", Tote-It 1" and 2"		N/A	N/A
OC-110 Tote-It 4", PetroXtractor PX-A, PX-B and PX-C, Model 4, and Model 8 <sup>2</sup>			
OC-200 Multi-Belt Units			
Mighty Disk		N/A	

Outdoor Shelters, Below Grade Unit, and Vapor Tight Enclosure Options ☐ all that apply						
Model 8 <sup>2</sup> Model 4 Tote-It 1",2",4" PetroXtractor 1",2",4" Multi-Belt Un					Multi-Belt Units	
Outdoor Shelter						
Below Grade Unit	N/A	N/A	N/A		N/A	
Vapor Tight Enclosure	Vapor Tight Enclosure N/A N/A N/A					

Description of application. Please include type of oil, pH and temperature of solution, and size of tank (dimensionally and gallon capacity). Include a sketch if possible.

<sup>•</sup> Use these sheets when inquiring about possible configurations, always consult the factory for exact and up to date information.

# Model 82 shown with optional tail pulley cage and tether assembly.

# Model 82

### Enjoy the Benefits of Oil Skimming!

- Most inexpensive way to remove oil from water
- · Saves coolants by removing tramp oil
- Conserves parts wash water by removing oily wastes
- Prevents plugging of spray heads and filters
- Reduces fluid disposal costs
- Skimmed oil can be recycled and reused as a lubricant or fuel
- Helps meet government requirements for water discharge

### General Description

The Abanaki Model 8<sup>2</sup> is a dependable and effective means of removing free floating oil from water and water-base solutions. In some cases, skimming by itself will reduce oil to an acceptable level of water purity. The unit can be used as a pretreatment before filtration, and in conjunction with coalescing systems.

The Model 8² utilizes a continuous belt and wiper to remove up to 40 gallons of oil per hour from the fluid surface. The belt, operating on a motor and pulley system, runs through contaminated liquid to pick up oil from the surface. After traveling over the head pulley, the belt passes through tandem wiper blades where oil is scraped off both sides of the belt and discharged. The tail pulley has flanges which allow it to roll freely on the inside of the belt without becoming dislodged. It requires no bearings and does not need to be fastened to the tank. If turbulent conditions exsist, an optional tether and cage assembly prevents the tail pulley from being dislodged.



### The Model 8<sup>2</sup> Advantages

- A single unit elevates and separates oil
- Lifts oil any distance without the need of expensive pumps
- Maintains skimming efficiency with fluctuating fluid level
- Can be used in depths as shallow as one foot, or as deep as 100 feet
- Requires no tank modifications in most applications
- Operates in turbulent liquid using optional tail pulley cage and tether assembly
- Easy mounting and fast cleaning, with minimal maintenance



Oil skimming makes use of the differences in specific gravity between oil and water. These physical characteristics allow the belt to attract oil and other hydrocarbon liquids from the surface of the fluid. The Model 8<sup>2</sup> can be used in tanks with depths as shallow as one foot, or as deep as 100 feet.

### Where To Use The Model 8<sup>2</sup>

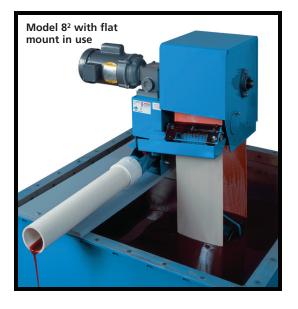
The Model 8<sup>2</sup> is the most widely used Abanaki skimmer. Its size and removal capacity make it suitable for most applications. From a mere shimmer on top of water to a heavy oil slick, the Model 8<sup>2</sup> performs efficiently, removing up to 40 gallons of oil per hour.

### Typical Applications

- Wastewater sumps
- Parts washers
- Coolant systems
- · Heat treating fluids
- · Food processing plants
- · Parking lots, garages, and service facilities
- · Outdoor ponds, lakes, and basins
- Underground tanks
- Ships' bilges
- Aircraft service areas and tarmac runoff
- Truck, locomotive, and other mobile equipment washing facilities

### Rugged Construction for Harsh Conditions

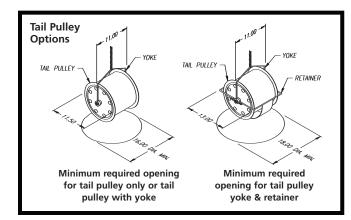
The Model 8<sup>2</sup> is designed to last for many years. With the proper configuration it can handle liquid temperatures up to 212°F, and the pH of the fluid can range from 1 to 13. Belts are made of corrosion-resistant steel,

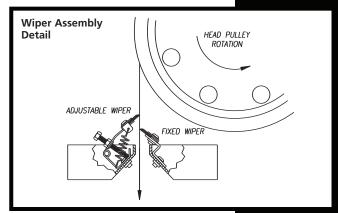


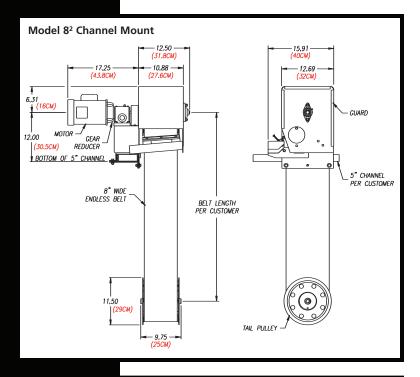
### **Key Features of the Model 82:**

- Requires only a small area in the tank or sump
- Easy mounting
- · High temperature capability
- Chip resistant powder finish
- Hazardous duty and food grade options
- Custom designs and turnkey systems available
- · Fast cleaning with minimal maintenance

carbon steel, elastomer, and a specially engineered polymer. The skimmer drive includes an oil filled gear reducer with bronze gears and ball bearings. The motor, reducer, and powder coated finish of the weldments give the Model 82 exceptionally long life, even under the harshest conditions.



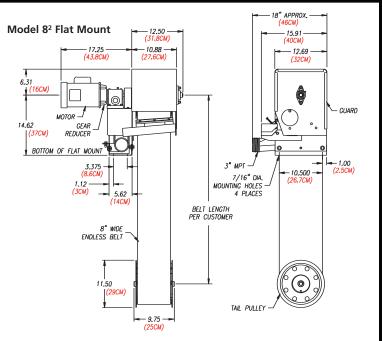




### Abanaki's Oil Concentrators®

The Oil Concentrator® is an option available on all ABANAKI oil skimmers. Under most operating conditions ABANAKI oil skimmers will pick up oil with less than 5% water. But as surface oil is reduced to a thin layer (1/16 to 1/8 inch thick), more water or coolant may also be picked up along with the oil. When used in tandem with the oil skimmer, an Oil Concentrator will solve this problem, and provides virtually complete oil/water separation, saving money and improving the efficiency of the skimmer.

Based on the principle of gravity separation, the Oil Concentrator uses no electricity, timers, sensors, pumps, or other moving parts. The Oil Concentrator sits behind the skimmer and receives its discharged oil. The unit comes complete with a mounting bracket, removable sludge screen and a drain plug to ease clean up. For higher viscosity oils or low temperature applications, a thermostatically controlled heater is available as an option.





# OIL GRABBER®

Abanaki has thousands of skimmers installed worldwide at leading companies such as...

American Cyanamid Armstrong World Industries Bethlehem Steel

Boeing **British Steel** 

Bureau of Reclamation

Caterpillar Chevron Corning

**Dow Chemical** Eaton Flying J

Ford Motor General Electric **Henry Filters** 

Honda John Deere Kaiser Aluminum

Lockheed Mazak

Monroe Auto Equipment **New York Power Authority** 

Nissan Motor

Norfolk Southern Railroad

**Nucor-Yamato Steel Outboard Marine** 

**TRW** 

Union Pacific Railroad **United Airlines** 

**USS Great Lakes Fleet** Volvo AB

Wartsila Diesel Westinghouse Electric

Other Oil Skimming Products From Abanaki

### Model 4°

#### For Most Applications

Single 8-inch wide belt (20.3 cm) Any length belt Capacity: 40 GPH (151.4 LPH)

### Model MB®

#### For High Volume

Two to five 8-inch belts (20.3 cm) Any length belts

Capacity: to 200 GPH (757.1 LPH)

#### Tote-It® Portable

### **Portable for Moderate Capacity Applications**

Single belt: 2-inch or 4-inch (5.1 or 10.2 cm) Belt length: 1'- 6" to 5'-0" (45.2 to 152.4 cm) 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt) 12 GPH - 4" belt (22.7 LPH - 10.2 cm belt) Capacity:

### Mighty Mini

Small Applications (Parts Washers, CNC Machines, 55 Gal. Drums)

Single belt: 1-inch or 2-inch (25.4 or 50.8 mm) Belt length: 6", 12", 18", 24" (153, 305, 458, 610 mm)

1 GPH - 1" belt (3.81 LPH) Capacity:

2 GPH - 2" belt (5.71 LPH)

#### Specification Notes:

1. The Model 82 is UPS shippable.

2. Consult factory for recommendations covering operating conditions not listed



### Specifications:

Oil Removal 32 gph (120 lph) with standard tail pulley. 40 gph

(150 lph) with high capacity tail pulley. (Řemoval rate is based on 30 weight oil in water at ambient

temperature.)

Tail Pulley

Specify standard or high capacity. (The high capacity option uses a patented pulley design that improves the adherence of oil to the inside of the belt, thus increasing the removal rate.)

Fractional hp, TEFC, gear motor operating on either 115/230VAC, single phase, 60Hz or 230/460 VAC, three phase, 60Hz. **Optional**: 50Hz power source; explosion proof; drip proof; pneumatic; and wash down duty motors.

Belt Width 8 in. (20 cm).

Motor

Wiper

Belt Length User specified. (See "Belt Selection" section.) Belt Specify corrosion-resistant steel, carbon steel, or Material specially engineered poly. (See Belt Selection

Nitrile (Standard); CRV (Optional) or Ceramic hybrid (Optional). Specify wiper material based on temperature and fluid compatibility. (See "Operating Limits.")

Mounting Standard: Bracket for customer-supplied steel Method

channel, with oil discharge through the channel. **Option:** Flat surface mount with oil discharge through a 3 in (7.5 cm) NPT male pipe fitting.

Drive assembly and housing with motor, without belt or tail pulley: 82 lbs. (37 kg) max. Weights1

Standard tail pulley: 10 lbs. (4.5 kg).

Optional high capacity tail pulley: 8 lbs. (3.6 kg) 4 ft. corrosion-resistant steel belt: 7 lbs.(3.2 kg) (belt weight varies according to actual length

specified)

Options (Specify) · Flat surface mount kit

Tail pulley cage and tether assembly for operation in turbulent liquids

• 3" PVC discharge pipe kit

· Floor mounted support stand

• 316 stainless steel housing

• Thermostatically controlled heaters (115/230VAC, 900 Watts; the heater hood replaces the standard drive unit cover)

Oil Concentrator® for virtually water-free oil

• Float switch with signal light (fits in 3/4" drum bung) to prevent discharge drum overflow

• Poly-shelters, reinforced for durable protection in outside applications

· Timer and electrical controls

#### **Operating Limits**

Wipers <sup>2</sup>	Temperature of Liquid	pH 3-5 (acidic)	pH 6-8 (neutral)	pH 9-14 (alkaline)
	33°F–180°F (0.5°C–82°C)	Ceramic hybrid, CRV	Ceramic hybrid, CRV, nitrile	Ceramic hybrid, CRV, nitrile
	181°F–212°F (83°C–100°C)	CRV	CRV	CRV
Belts <sup>2</sup>	Temperature of Liquid	pH 1-5 (acidic)	pH6-8 (neutral)	pH 9-14 (alkaline)
	33°F–140°F (0.5°C–60°C)	Elastomer	Poly, Elastomer	Poly, Elastomer
	33°F–180°F (0.5°C–82°C)	Corrosion Resistant	Corrosion Resistant, Carbon Steel, Poly	Corrosion Resistant, Poly
	181°F–212°F (83°C–100°C)	CR steel	Corrosion Resistant, Carbon Steel	Corrosion Resistant

Standard Configuration

The standard Model 82 is supplied with a motor belt guard, spring-loaded adjustable wiper blade assembly, skimmer belt, tail pulley, and assembly instructions.



### SKIMMERS

USA: 17387 Munn Road • Chagrin Falls, Ohio 44023 800-358-SKIM (7546) • (440) 543-7400 • FAX: (440) 543-7404

Unit 13 • Avondale Business Centre • Woodland Way • Bristol BS15 1AW 0117 9616679 • FAX: 0117 9616687

### **ABANAKI**

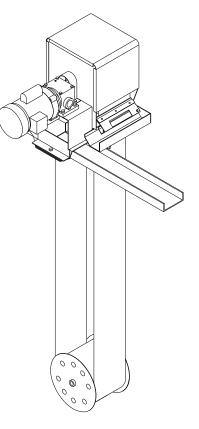
### Oil Grabber® Model 82

### Quick Summary:

A heavy duty oil skimmer, using patented technology, to solve large oil contamination problems. Special options available with the Model 8<sup>2</sup> include: all stainless steel construction, vapor tight enclosure, infrared heater hood for non-explosive freezing applications and a complete system control box. Also the Model 8<sup>2</sup> has the versatility of the standard channel mount or optional flat surface mount. Applications include: truck washes, heat treating plants and power plants.

### Highlights:

- 1. A continuous 8" belt of corrosion resistant steel or elastomer up to 100 feet center to center.
- 2. Oil discharge is through 3" M.P.T. coupling on flat mount model, and a 5" channel on channel mount model.
- 3. A removable steel guard for visual inspection of drive pulley.
- 4. TEFC motor.
- 5. Removes up to 40 gallons of medium weight oil per hour.
- 6. Adjustable wiper blade assembly.



Quick Chart: STANDARD MOTOR OPTIONAL MOTOR

CAP. GAL.	MODEL	BELT WIDTH	BELT LENGTH	RPM AMPS	VOLTS Hz	PHASE	RPM AMPS	VOLTS Hz
40	1 x 8	8"	Up to 100 ft.	1725 RPM 5/2.6/2.5	115/208-230 60Hz	1 PH TEFC	1425 RPM 7.2/3.6	110/220 50Hz
40	1 x 8	8"	Up to 100 ft.	1725 RPM 1.4/1.3/.65	208-230/460 60Hz	3 PH TEFC	1425 RPM 2/1.2/1	220/380/440 50Hz

#### **Note:**

Additional motors, including explosion proof, are available per customer specification. See motor spec sheet for complete listing of motors. <u>Always</u> consult the factory for special applications.

www.abanaki.com

### **ABANAKI**

### **Skimmer Specifications**

### Oil Grabber<sup>®</sup> Model 8<sup>2</sup>

#### PART 1: GENERAL

#### 1.01 Construction

- 1. Solid welded carbon steel with a baked on powder coat finish.
  - A. Color: RAL5005 or equivalent (Dark Blue).
- 2. Stainless Steel.

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley. Two magnet assemblies per cross bar with 8 cross bars per head.
- 2. Tail Pulley
  - A. Solid drum type, free floating in belt. With collars for shaft when yoke & chain are required.
  - B. High Capacity.

### 1.03 Motor: (one of two motors standard)

1/4 H.P. 1 PH 60Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amps or

1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

### 1.04 Gear Reducer

- 1. Standard C-Face
  - A. 150:1 double reduction
  - B. Oil filled
  - C. Bronze gears/ball bearings

See separate specification sheet for additional details

#### 1.05 Guard

1. Solid cover over drive pulley area.

#### 1.06 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length as required up to 100'.

#### 1.07 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Front Wiper Assembly Spring tensioned with single wiper insert.
  - B. Rear Wiper Assembly Stationary wiper holder, single wiper insert.

#### 1.08 Oil Discharge Outlet

- 1. Standard Channel Mount
  - A. Dual troughs discharging into a single 5" channel to oil collection tank.
- 2. Flat Surface Mount Optional
  - A. Dual troughs discharging through a 3"
     M.P.T.

### 1.09 Mounting Arrangements

- 1. Standard Skimmer Configuration
  - A. 5 x 6.7 (5" channel) x 20" long minimum; also doubles as discharge outlet.
- 2. Optional Skimmer Configurations
  - A. Flat Surface Mount with 3" M.P.T. for piped discharge.
  - B. 4 x 7.25 (4" channel) same as 1.09.1, <u>use</u> of 5 x 6.7 **preferred**.

### 1.10 Weights and Size

- 1. 61 lbs. skimmer + 20 lbs. motor = 81 lbs/unit
- 2. Overall size of std. unit: 29-1/2"L x 16"W x 20"H
- 3. Overall size of unit w/heater: 29-1/2"L x 20"W x 20"H

### 1.11 Mounting Requirements

- Minimum Opening for Tail Pulley with Yoke: 16" Dia.
- 2. Minimum Opening for Tail Pulley with Yoke and Retainer: 18" Dia.
- 3. Minimum Mounting Height: 20"
- 4. Minimum Mounting Height w/optional 4' stand:
  - A. Channel mount: 66-1/4"
  - B. Flat mount: 69-3/8"

#### 1.12 Power Requirements

1. Hard wired per motor and local/national code.

#### 1.13 Optional Mounting Arrangements

1x8 Mounting Stand will support a single 1x8 and a single OC-110 decanter. Stand is 48" high.

### **ABANAKI**

### **Electric Motor List**

### Oil Grabber® Model 82

### Standard motors 60 Hz:

1/4 H.P. 1 PH 60 Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amp

or

1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

### Optional 50Hz motors:

1/2 H.P. 1 PH 50 Hz TEFC 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

or

1/2 H.P. 3 PH 50 Hz TEFC 1425 RPM 56 C-Face 220/380/440 Volts 2 / 1.2 / 1 Amp

### Optional Explosion-Proof Motors 50 & 60 Hz:

1/3 H.P. 1 PH 60 Hz EXP. 1725 RPM 56 C-Face 115/208-230 Volt 6 / 3.2 / 3 Amp 1/3 H.P. 3 PH 60 Hz EXP. 1725 RPM 56 C-Face 208-230/460 Volt 1.8 / 1.6 / .8 Amp

1/2 H.P. 3 PH 50 Hz EXP. 1425 RPM 56 C-Face 220/380/440 Volt 2 / 1.2 / 1 Amp

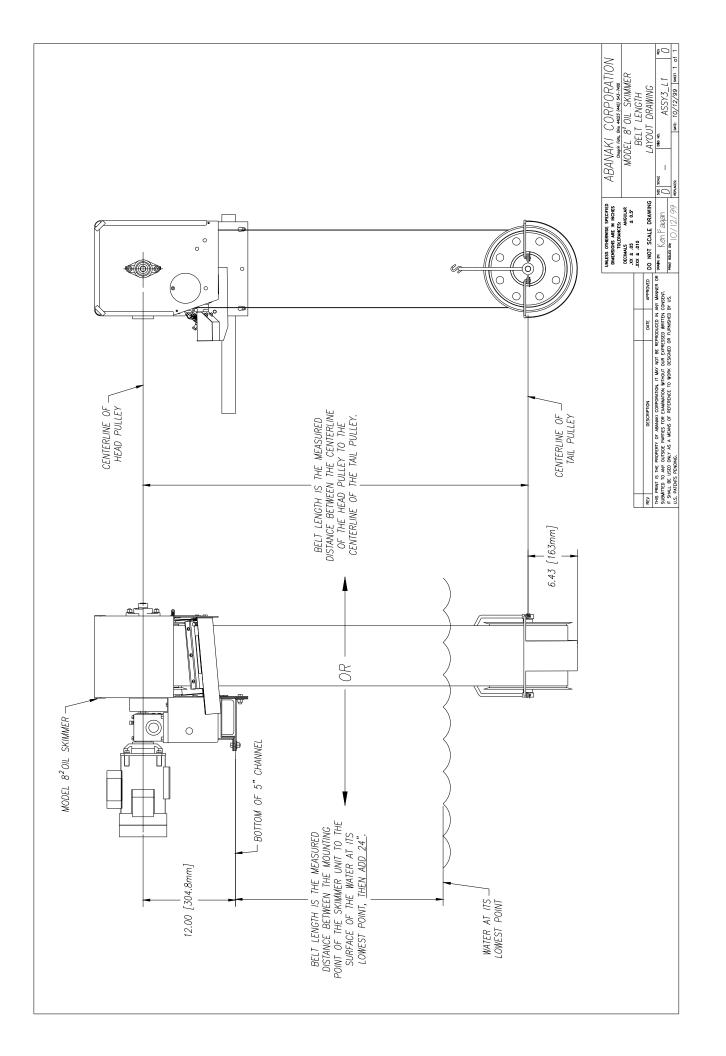
1/2 H.P. 1 PH 50 Hz EXP. 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

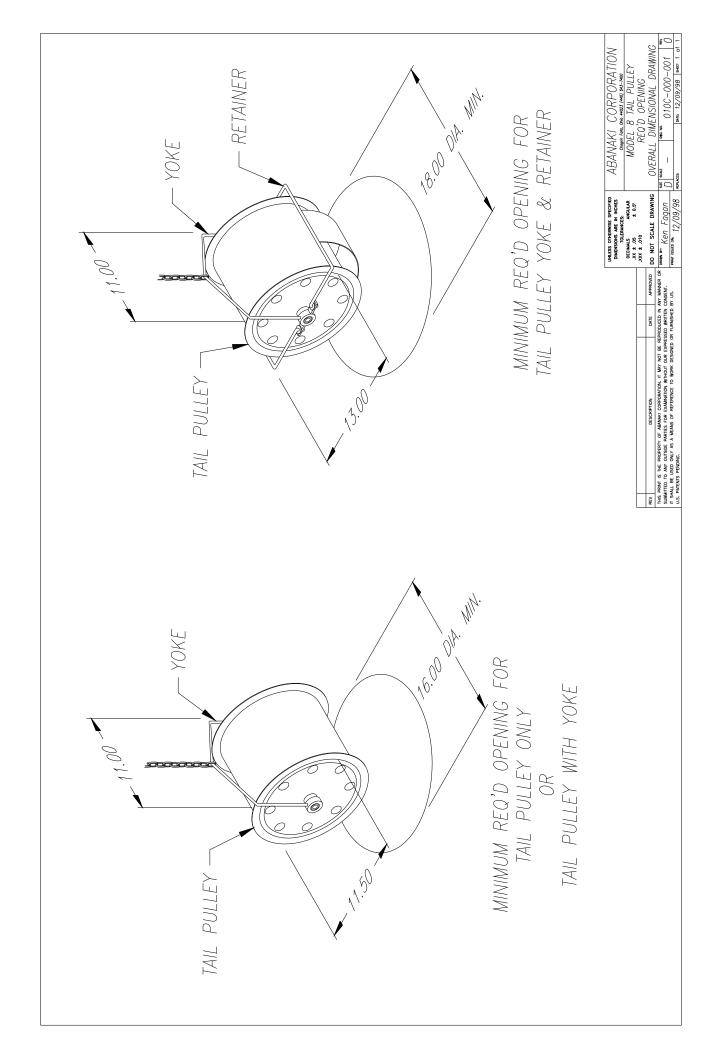
### Optional 575 Volt Motors

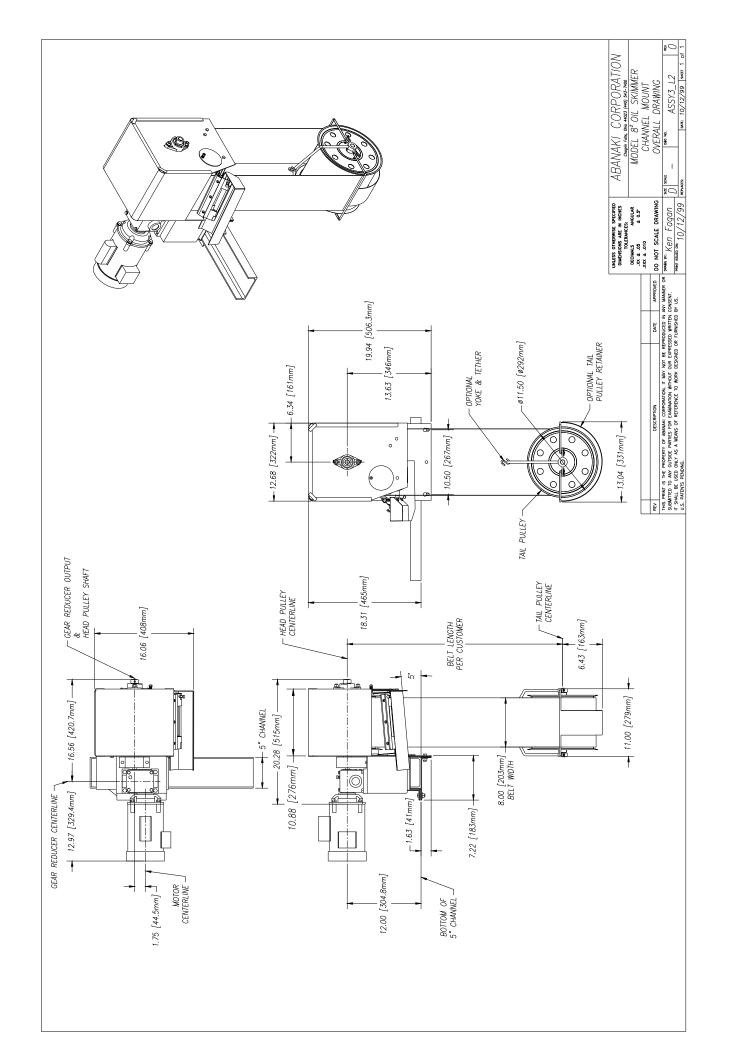
1/3 H.P. 3 PH 60 Hz TEFC 1725 RPM 56 C-Face 575 Volt .64 Amp

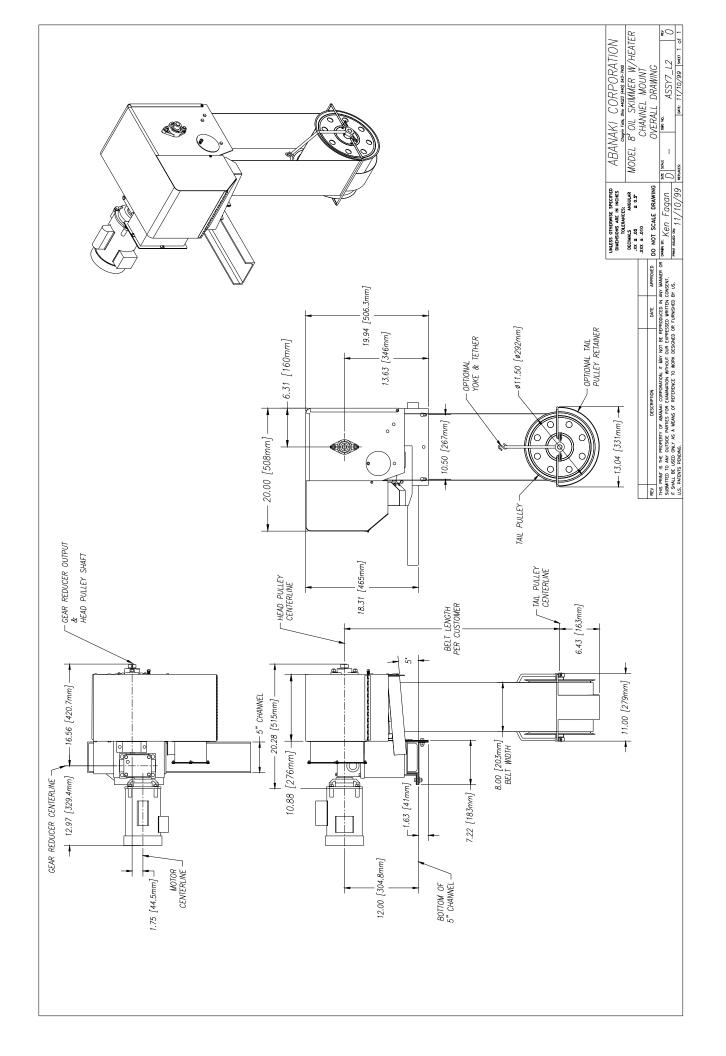
1/2 H.P. 3 PH 60Hz EXP. 1725 RPM 56 C-Face 575 Volt .9 Amp

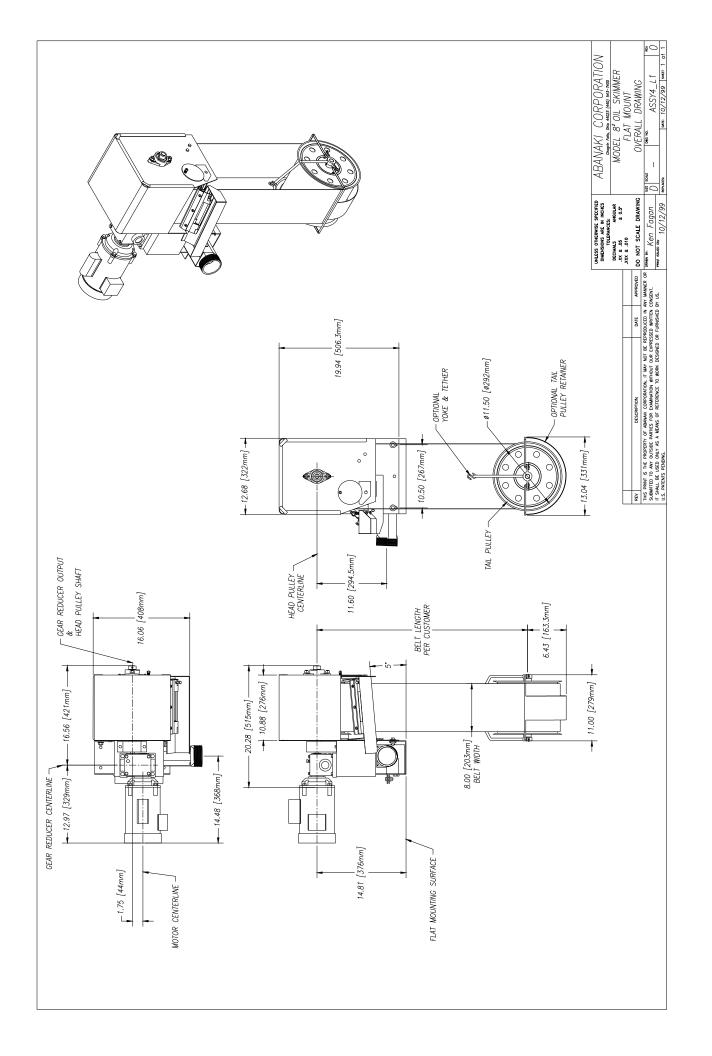
1/2 H.P. 3PH 60Hz TEFC 1725 RPM 56 C-Face 575 Volt .8 Amp

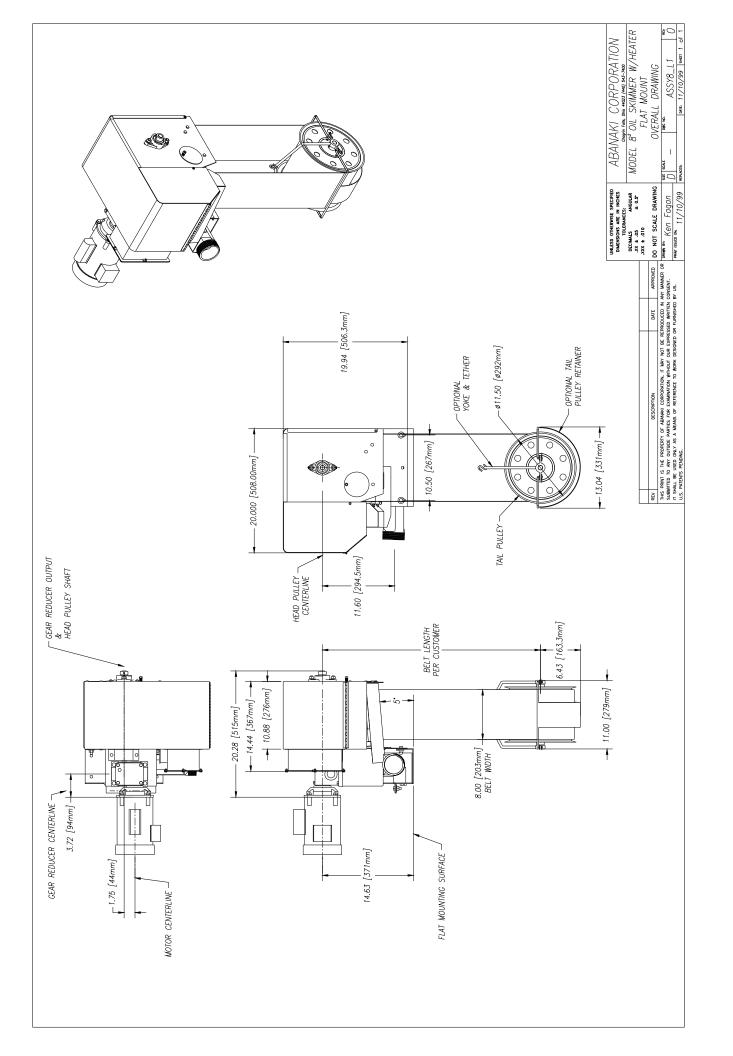


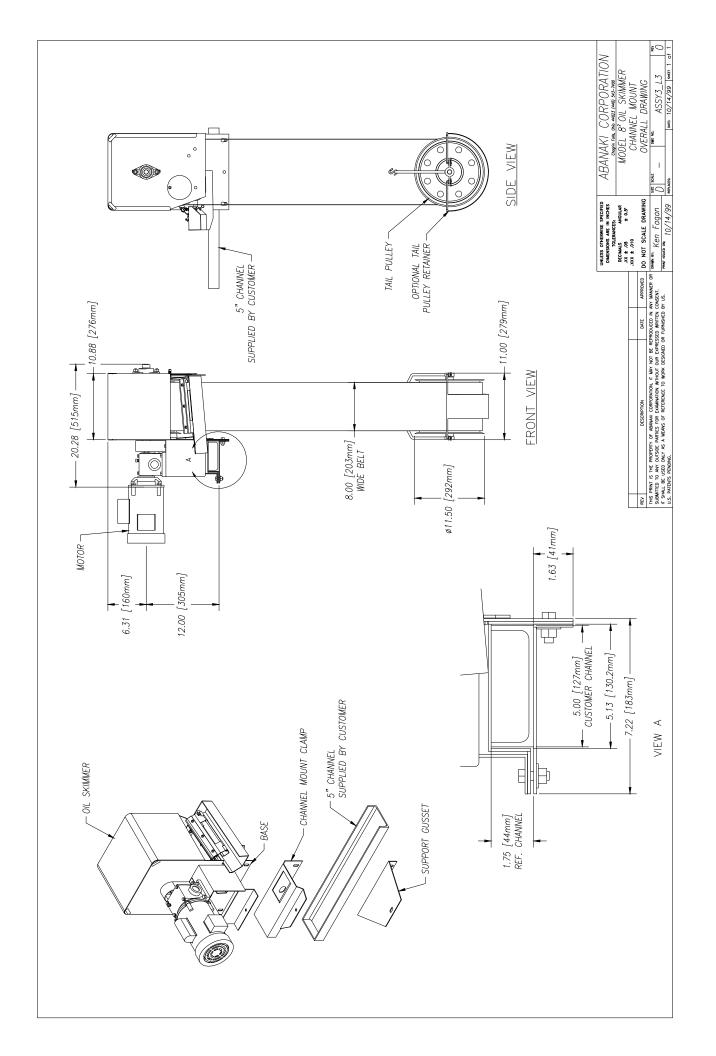


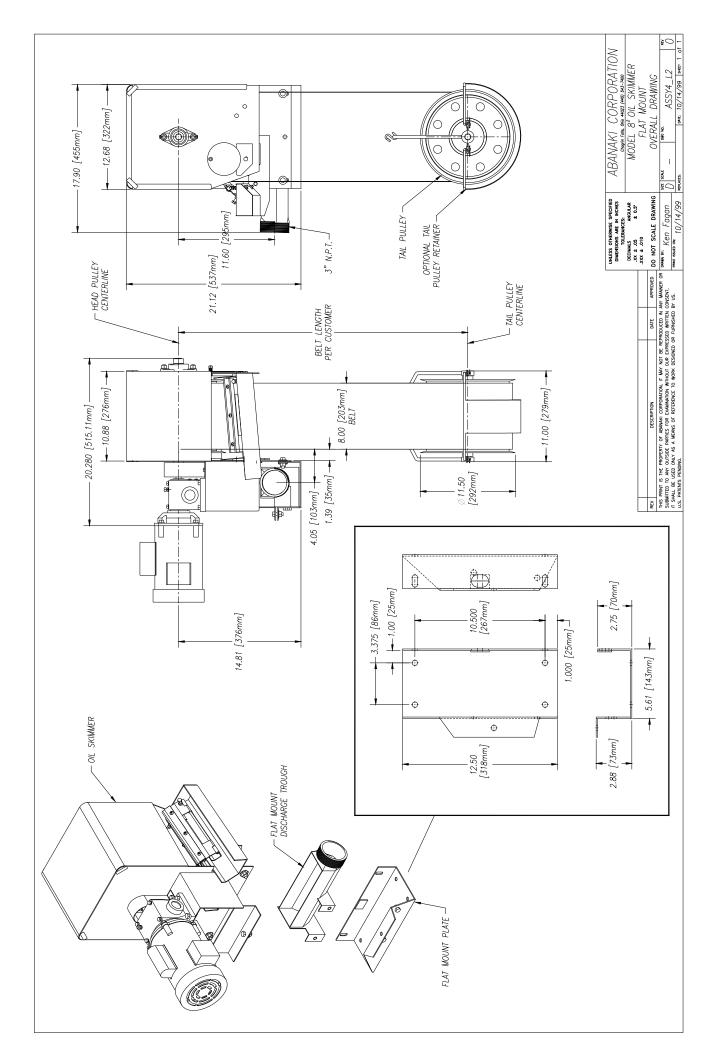


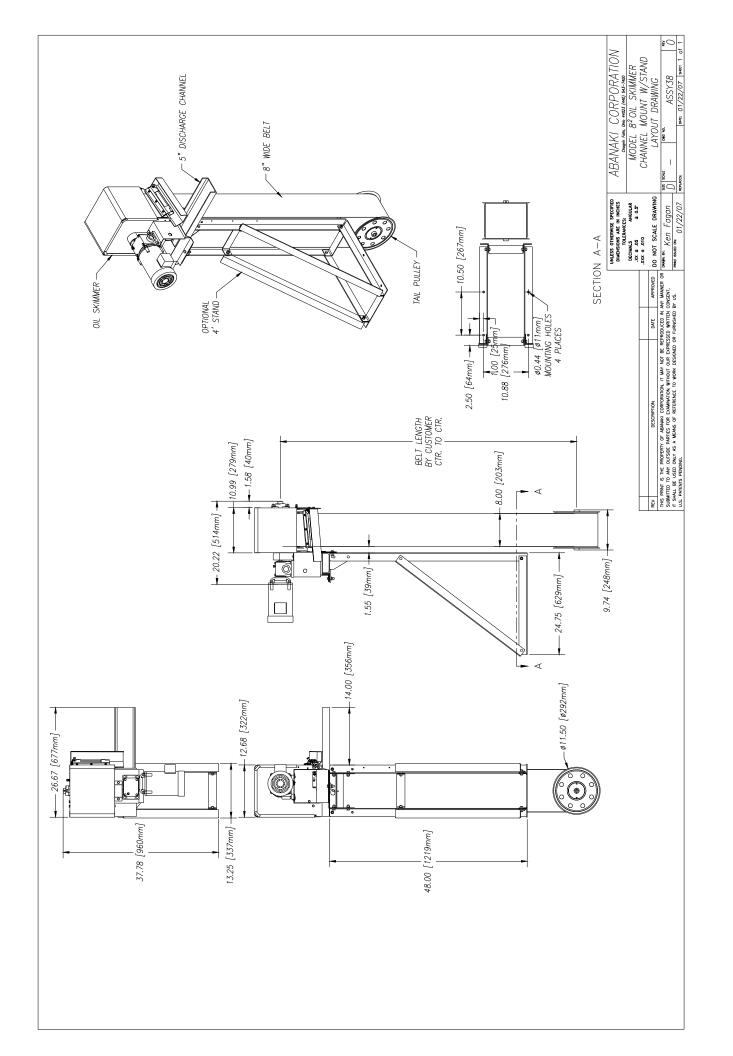


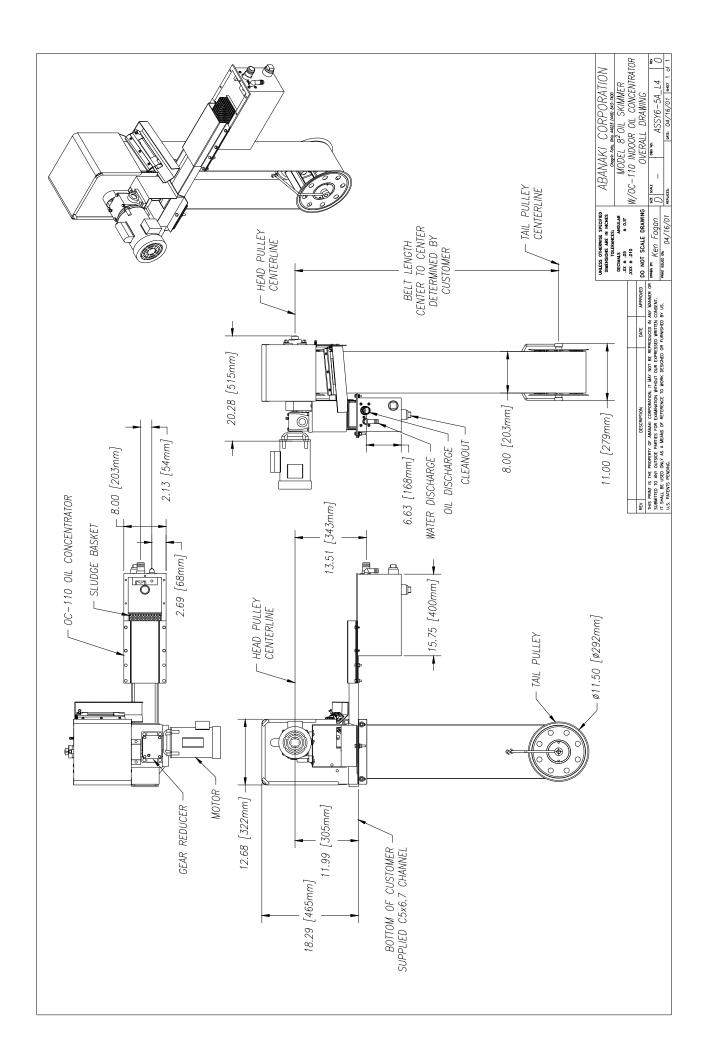


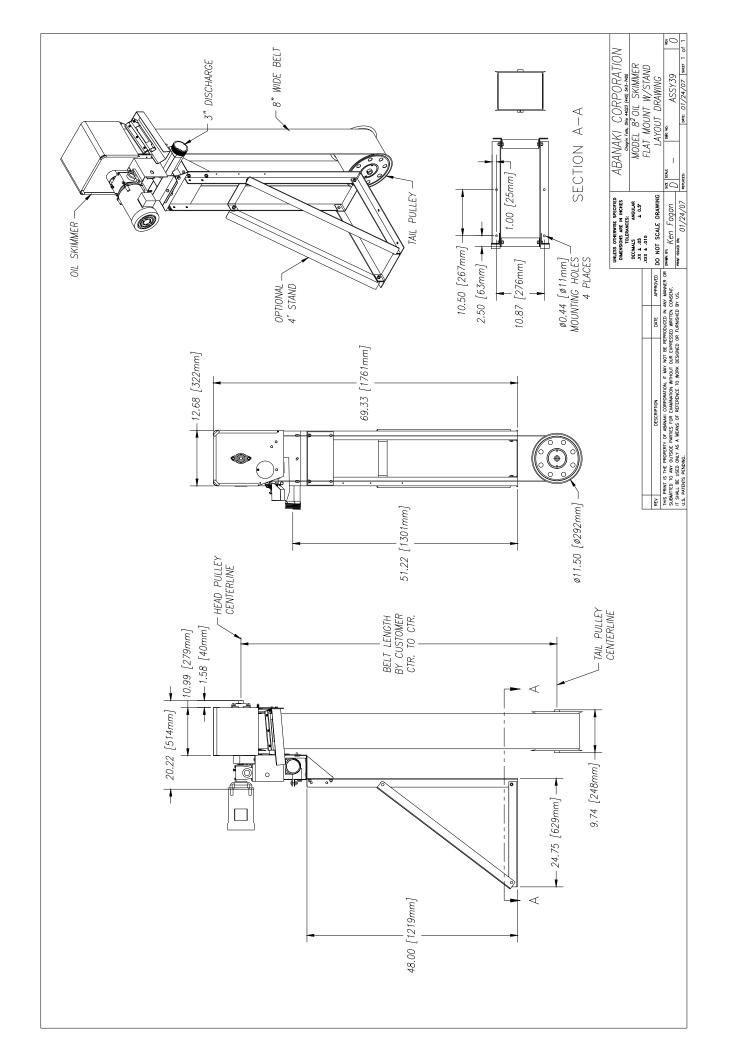


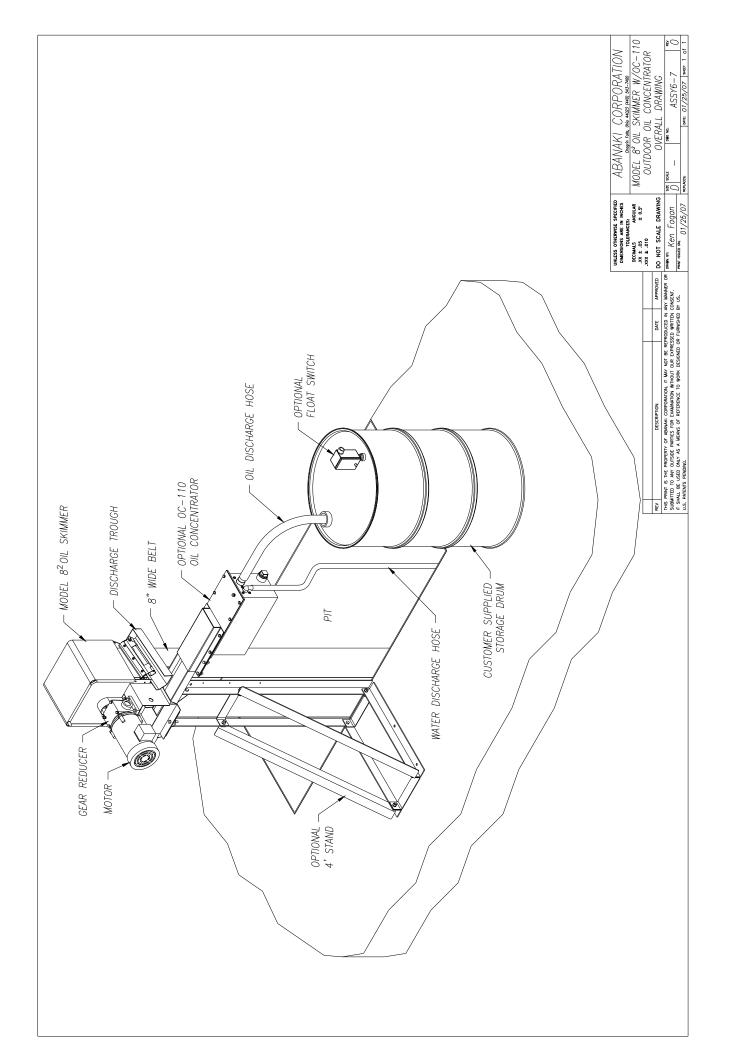


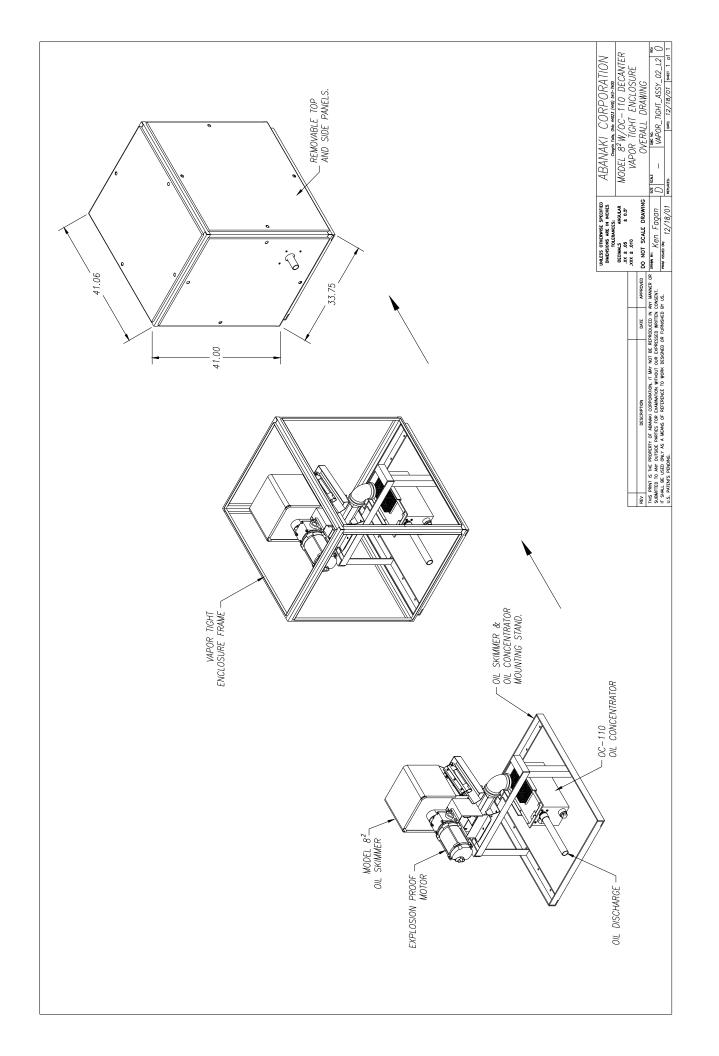












## IL GRABBER®



Model 4 shown with optional tail pulley cage and tether assembly.

### **Enjoy the Benefits of Oil Skimming!**

- Most inexpensive way to remove oil from water
- Saves coolants by removing tramp oil
- Conserves parts wash water by removing oily wastes
- Prevents plugging of spray heads and filters
- Reduces fluid disposal costs
- Skimmed oil can be recycled and reused as a lubricant or fuel
- Helps meet government requirements for water discharge

### **General Description**

The Abanaki Model 4 Oil Grabber is a dependable and effective means of removing oil from water and water-based solutions. Often, skimming by itself will reduce oil to an acceptable level of water purity. Depending on the characteristics of the liquid, it is possible for the Model 4 alone to reduce oil content to less than five parts per million in water. The unit can be used as a pretreatment before filtration, and in conjunction with coalescing systems.

The Model 4 utilizes a continuous belt and wiper to remove up to 20 gallons of oil per hour from the fluid surface. The belt, operating on a motor and pulley system, runs through contaminated liquid to pick up oil from the surface. After traveling over the head pulley, the belt passes through tandem wiper blades where oil is scraped off both sides of the belt and discharged. The tail pulley has flanges which allow it to roll freely on the inside of the belt without becoming dislodged. It requires no bearings and does not need to be fastened to the tank. If turbulent conditions exist, the optional tether and cage assembly prevents the tail pulley from being dislodged.

Oil skimming makes use of the differences in specific gravity and surface tension between oil and water. These physical characteristics allow the belt to attract oil and other hydrocarbon liquids from the surface of the fluid. The Model 4 can be used in tanks with depths as shallow as one foot, or as deep as 100 feet.

### The Model 4 Advantages

- A single unit elevates and separates oil
- Lifts oil any distance without the need of expensive pumps
- Maintains skimming efficiency with fluctuating fluid levels
- Can be used in depths as shallow as one foot, or as deep as 100 feet
- Requires no tank modifications in most applications
- Operates in turbulent liquid using optional tail pulley cage and tether assembly
- Easy mounting and fast cleaning, with minimal maintenance



17387 Munn Road Chagrin Falls, Ohio 44023

### Where To Use The Model 4

The Model 4 is designed for those applications where other models provide excess capacity, or physically will not fit. From a mere shimmer on top of water to a heavy oil slick, the Model 4 performs efficiently, removing up to 20 gallons of oil per hour.

**Typical Applications** 

- Wastewater sumps
- Parts washers
- Coolant systems
- Heat treating fluids
- Food processing plants
- Parking lots, garages, and service facilities
- Outdoor ponds, lakes, and basins
- Underground tanks

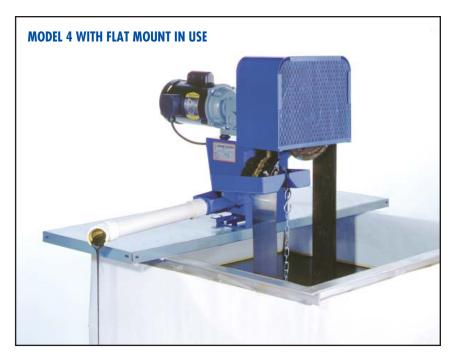
- Ships' bilges
- Aircraft service areas and tarmac runoff
- Truck, locomotive, and other mobile equipment washing facilities

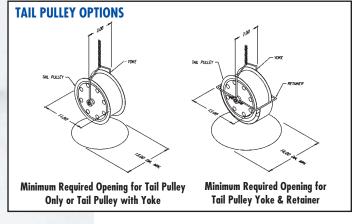
### **Rugged Construction for Harsh Conditions**

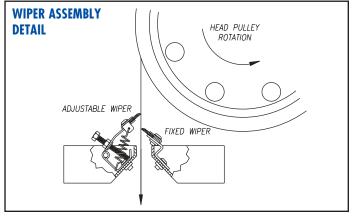
The Model 4 is designed to last for many years. With the proper configuration it can handle liquid temperatures up to 212°F, and the pH of the fluid can range from 3 to 13. Belts are made of corrosion-resistant steel, elastomer, and a specially engineered polymer. The skimmer drive includes an oil filled gear reducer with bronze gears and ball bearings. The motor, reducer, and powder coated finish of the weldments give the Model 4 exceptionally long life, even under the harshest conditions.

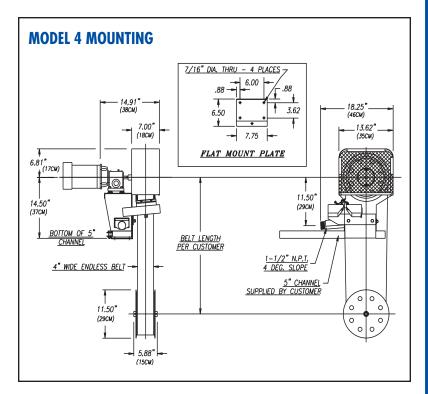
### **Key Features of the Model 4:**

- Requires only a small area in the tank or sump
- Easy mounting
- High temperature capability
- Chip resistant powder finish
- Hazardous duty and food grade options
- Custom designs and turnkey systems available
- Fast cleaning with minimal maintenance









## **Belt Selection**

## **Belt Length**

To specify the belt length: Measure from the drive unit mounting plane to the surface of the liquid at its lowest level and add 24 inches (61 cm). (Generally, the lowest level allowed is about one foot, and can never be the bottom of the tank. The tail pulley should be submerged below the liquid surface.)

#### **Belt Material**

Experience has shown that belt skimmers require a minimum square footage of space for installation and operation, yet they surpass the requirements for most applications. Abanaki single material belts include corrosion-resistant steel (standard), carbon steel, elastomer, or a specially engineered poly. There is no delamination to worry about with a single material belt.

<u>Corrosion-resistant Steel</u> - Proven to be a reliable belting material of choice: durable and trouble free. This material stands up to high temperatures and harsh chemicals.

<u>Elastomer</u> - Used in applications where abrasive particles are present or when physical abuse of the belt is likely.

<u>Engineered Poly</u> - Used in relatively high heat without stretching. Strong chemical resistance. Capable of picking up many emulsions.

<u>Fuzzy</u>® - Used in applications involving fuel oils such as gasoline or diesel fuel.

When in doubt, consult factory for advice on the best belt for your application.

# **Wiper Selection**

Nitrile: Standard, used in most applications not involving strong chemicals

or high heat.

**CRV**: Used in applications with strong chemicals or high heat.

**Ceramic**: Used in applications where abrasives are present.

**Ceramic Hybrid**: Used in applications with low lubricity. Acid & chemical

resistant.

## **Specifications:**

Motor

Wiper

Oil Removal Rate 16 gph (60 lph) with standard tail pulley

20 gph (75 lph) with high capacity tail pulley (Removal rate is based on 30 weight oil in water.)

Tail Pulley Specify standard or high capacity.

(The high capacity option uses a patented pulley design that improves the adherence of oil to the inside of the belt, thus increasing the removal rate.)
Fractional HP, TEFC, motor operating on either

115/230VAC, single phase, 60Hz or 230/460 VAC,

three phase, 60Hz.

Optional: 50Hz power source; explosion proof; drip proof; pneumatic; and wash down duty motors.

Belt Width 4 in. (10 cm)

Belt Length User specified. (See "Belt Selection" section.)
Belt Material Specify corrosion-resistant steel, elastomer, a specially

engineered poly, or Fuzzy®. (See "Belt Selection" section.) Nitrile (Standard); CRV (Optional), Ceramic or Ceramic hybrid (Optional). Specify wiper material based on temperature and

fluid compatibility. (See "Operating Limits.")

Mounting Method Standard: Bracket for customer-supplied steel channel, with oil discharge through the channel, or flat surface mount

with oil discharge through a 1-1/2 in. (3.75 cm) NPT male

pipe fitting.

Weights<sup>1</sup> Drive assembly and housing with motor, without belt or

tail pulley: 71 lbs. (32 kg) max.

Standard or high capacity tail pulley: 8 lbs. (3.6 kg) 4 ft. corrosion-resistant steel belt: 4 lbs. (1.8 kg) (belt weight varies according to actual length specified)

Options (Specify)

- Tail pulley cage and tether assembly for operation in turbulent liquids .
- 1-1/2" PVC discharge pipe kit
- Floor mounted support stand.
- 316 stainless steel housing.
- Oil Concentrator® for virtually water-free oil (See Abanaki Oil Concentrator® on next page.)
- Float switch with signal light (fits in 3/4" drum bung) to prevent discharge drum overflow.
- Trough heaters
- Poly-shelters, reinforced for durable protection in outside applications
- Timer and electrical controls

## Operating Limits

## Wipers<sup>2</sup>

Temperature of Liquid	pH 3-5 (acidic)	pH 6-8 (neutral)	pH 9-14 (alkaline)
33°F-180°F (0.5°C-82°C)	Ceramic hybrid, CRV	Ceramic hybrid, CRV, nitrile	Ceramic hybrid, CRV, nitrile
181°F-212°F (83°C-100°C)	CRV	CRV	CRV

#### Belts<sup>2</sup>

Temperature of Liquid	pH 3-5 (acidic)	pH6-8 (neutral)	pH 9-14 (alkaline)
33°F-140°F (0.5°C-60°C)	Elastomer	Poly, Elastomer	Poly, Elastomer
33°F-180°F (0.5°C-82°C)	Corrosion Resistant	Corrosion Resistant, Poly	Corrosion Resistant, Poly
181°F-212°F (83°C-100°C)	CR steel	Corrosion Resistant	Corrosion Resistant

Standard Configuration The standard Model 4 is supplied with a motor belt guard, spring-loaded adjustable wiper blade assembly, skimmer belt, tail pulley, and assembly instructions.

#### Specification Notes:

1. The Model 4 is UPS shippable.

2. Consult factory for recommendations covering operating conditions not listed here.

## **ABANAKI'S Oil Concentrators®**

The Oil Concentrator® is an option available on all ABANAKI oil skimmers. Under most operating conditions ABANAKI oil skimmers will pick up oil with less than 5% water. But as surface oil is reduced to a thin layer (1/16 to 1/8 inches thick), more water or coolant may also be picked up along with the oil. When used in tandem with the oil skimmer, an Oil Concentrator will solve this problem, and provides virtually complete oil /water separation, saving money and improving the efficiency of the skimmer.

Based on the principle of gravity separation, the Oil Concentrator uses no electricity, timers, sensors, pumps, or other moving parts. The Oil Concentrator sits behind the skimmer and receives its discharged oil. The unit comes complete with a mounting bracket, removable sludge screen and a drain plug to ease clean up. For higher viscosity oils or low temperature applications, a thermostatically controlled heater is available as an option.

## Abanaki has thousands of skimmers installed worldwide at leading companies such as...

American Cyanamid Armstrong World Industries Bethlehem Steel Boeing British Steel

Bureau of Reclamation

Caterpillar Chevron Corning Dow Chemical Eaton Flying J Ford Motor

Flying J Ford Motor General Electric Henry Filters Honda John Deere Kaiser Aluminum Lockheed Mazak

Monroe Auto Equipment New York Power Authority Nissan Motor

Norfolk Southern Railroad

Nucor-Yamato Steel
Outboard Marine

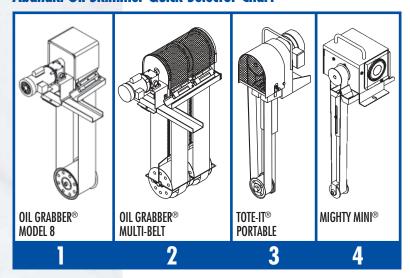
TRW

Union Pacific Railroad
United Airlines

**USS Great Lakes Fleet** 

Volvo AB Wartsila Diesel Westinghouse Electric

## **Abanaki Oil Skimmer Quick Selector Chart**



## Other Oil Skimming Products From Abanaki:

1. For Most Applications: Single 8-inch wide belt (20.3 cm)

Any length belt Capacity: 40 GPH (151.4 LPH)

2. For High Volume:

Two to five 8-inch belts (20.3 cm) Any length belts Capacity: to 200 GPH (757.1 LPH)

3. Portable for Moderate Capacity Applications:

Single belt: 2-inch or 4-inch (5.1 or 10.2 cm)
Belt length: 1'- 6" to 5'-0" (45.2 to 152.4 cm)
Capacity: 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt)
12 GPH - 4" belt (22.7 LPH - 10.2 cm belt)

4. Small Applications (Parts Washers, CNC Machines, 55 Gal. Drums:

Single belt: 1-inch or 2-inch (25.4 or 50.8 mm)
Belt length: 6", 12", 18", 24" (153, 305, 458, 610 mm)
Capacity: 1 GPH - 1" belt (3.81 LPH)

(3.81 LPH) 2 GPH - 2" belt

# OIL GRABBER® MODEL 4

# For more information, p lease contact:



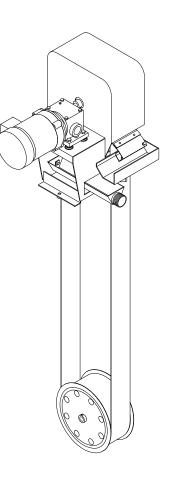
# Oil Grabber® Model 4

### Quick Summary:

Essentially the same as the Model 8<sup>2</sup>, the Model 4 and its patented technology will fit into a smaller sump opening with its' 4" belt. Mounting and discharge using a 4" or 5" channel is standard. Other options include: a 4' mounting stand with 5" channel combination, or a flat mount arrangement with discharge through a 1-1/2" M.P.T. The Model 4 can accept any standard 56 C-Face motor or metric D63C frame size motor with optional gear reducer.

## Highlights:

- 1. A 4" continuous belt of corrosion resistant steel or elastomer up to 100 ft in length.
- 2. Oil discharge is through 1-1/2" M.P.T. outlet
- 3. A removable steel mesh guard for visual inspection of drive pulley.
- 4. Belt removal requires no tools.
- 5. TEFC motor std. 1PH or 3PH
- 6. Removes up to 20 gallons of medium weight per hour.
- 7. Adjustable wiper blade assembly.



Quick Chart: STANDARD MOTOR OPTIONAL MOTOR

CAP. GAL.	MODEL	BELT WIDTH	BELT LENGTH	RPM AMPS	VOLTS Hz	PHASE	RPM AMPS	VOLTS Hz
20	4	4"	Up to 100 ft.	1725 RPM 5/2.6/2.5	115/208-230 60Hz	1 PH TEFC	1425 RPM 7.2/3.6	110/220 50Hz
20	4	4"	Up to 100 ft.	1725 RPM 1.4/1.3/.65	208-230/460 60Hz	3 PH TEFC	1425 RPM 2/1.2/1	220/380/440 50Hz

#### Note:

Additional motors, including explosion proof, are available per customer specification. See motor spec sheet for complete listing of motors. <u>Always</u> consult the factory for special applications.

#### **ABANAKI** Model 4

## SKIMMER SPECIFICATION SHEET

#### PART 1: GENERAL

#### 1.01 Construction

- 1. Solid welded carbon steel with a baked on powder
  - A. Color: RAL5005 or equivalent (Dark Blue).
- 2. Stainless Steel.

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. Two magnet assemblies per cross bar with 8 cross bars per head.
- 2. Tail Pulley
  - A. Solid drum type, free floating in belt. With collars for shaft when yoke & chain are required.
  - B. High Capacity.

#### 1.03 Motor: (one of two motors standard)

1/4 H.P. 1 PH 60Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amps

1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

#### 1.04 Gear Reducer

- 1. Standard C-Face
  - A. 150:1 double reduction
  - B. Oil filled
  - C. Bronze gears/ball bearings

See separate specification sheet for additional details

#### 1.05 Guard

1. Standard enclosed steel housing with a flat steel mesh screen door for access for drive pulley area.

#### 1.06 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length as required up to 100'.

#### 1.07 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Front Wiper Assembly Spring tensioned with single wiper insert.
  - B. Rear Wiper Assembly Stationary wiper holder, single wiper insert.

#### 1.08 Oil Discharge Outlet

- 1. Standard Channel Mount
  - A. Dual troughs discharging into a single 5" channel to oil collection tank.
- 2. Flat Surface Mount Optional
  - A. Dual troughs discharging through a 1-1/2" M.P.T.

#### 1.09 Mounting Arrangements

- 1. Standard Skimmer Configuration
  - A. 5 x 6.7 (5" channel) x 20" long minimum; also doubles as discharge outlet.
- 2. Optional Skimmer Configurations
  - A. Flat Surface Mount with 1-1/2" M.P.T. for piped discharge.
  - B. 4 x 7.25 (4" channel) same as 1.09.1, use of 5 x 6.7 preferred.

#### 1.10 Weights and Size

- 1. 62 lbs. skimmer + 20 lbs. motor = 82 lbs/unit
- 2. Overall size of unit: 24-1/2"L x 18-1/4"W x 21-1/4"H

#### 1.11 Mounting Requirements

- 1. Minimum Opening for Tail Pulley with Yoke and Retainer: 16" Dia.
- 2. Minimum Opening for Tail Pulley with Yoke: 13"
- 3. Minimum Mounting Height: 21-1/4"
- 4. Minimum Mounting Height w/optional 4' stand: 69-1/2"

#### 1.12 Power Requirements

- 1. Per customers motor spec.
- 2. Hard wired per motor and local/national code.

#### 1.13 Optional Mounting Arrangements

1. 1x8 Mounting Stand will support a single 1x4 and a single OC-110 decanter. Stand is 48" high.

## **Electric Motor List**

# Oil Grabber® Model 4

#### Standard motors 60 Hz:

1/4 H.P. 1 PH 60 Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amp

or

1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

#### Optional 50Hz motors:

1/2 H.P. 1 PH 50 Hz TEFC 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

or

1/2 H.P. 3 PH 50 Hz TEFC 1425 RPM 56 C-Face 220/380/440 Volts 2 / 1.2 / 1 Amp

#### Optional Explosion-Proof Motors 50 & 60 Hz:

1/3 H.P. 1 PH 60 Hz EXP. 1725 RPM 56 C-Face 115/208-230 Volt 6 / 3.2 / 3 Amp 1/3 H.P. 3 PH 60 Hz EXP. 1725 RPM 56 C-Face 208-230/460 Volt 1.8 / 1.6 / .8 Amp

1/2 H.P. 3 PH 50 Hz EXP. 1425 RPM 56 C-Face 220/380/440 Volt 2 / 1.2 / 1 Amp

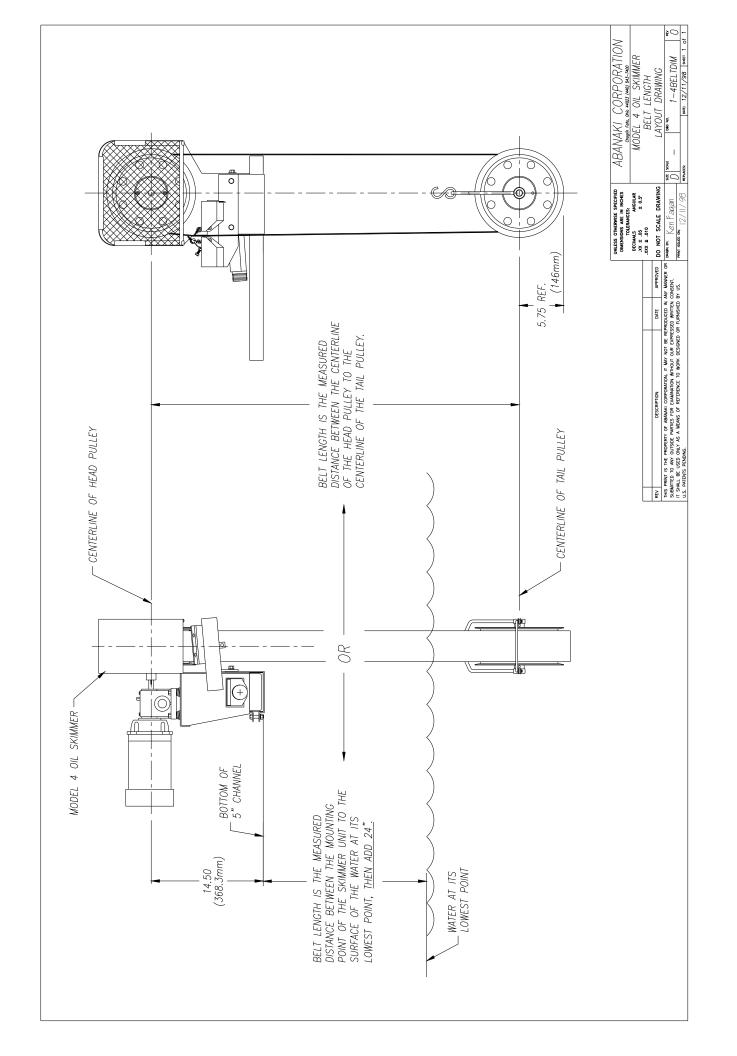
1/2 H.P. 1 PH 50 Hz EXP. 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

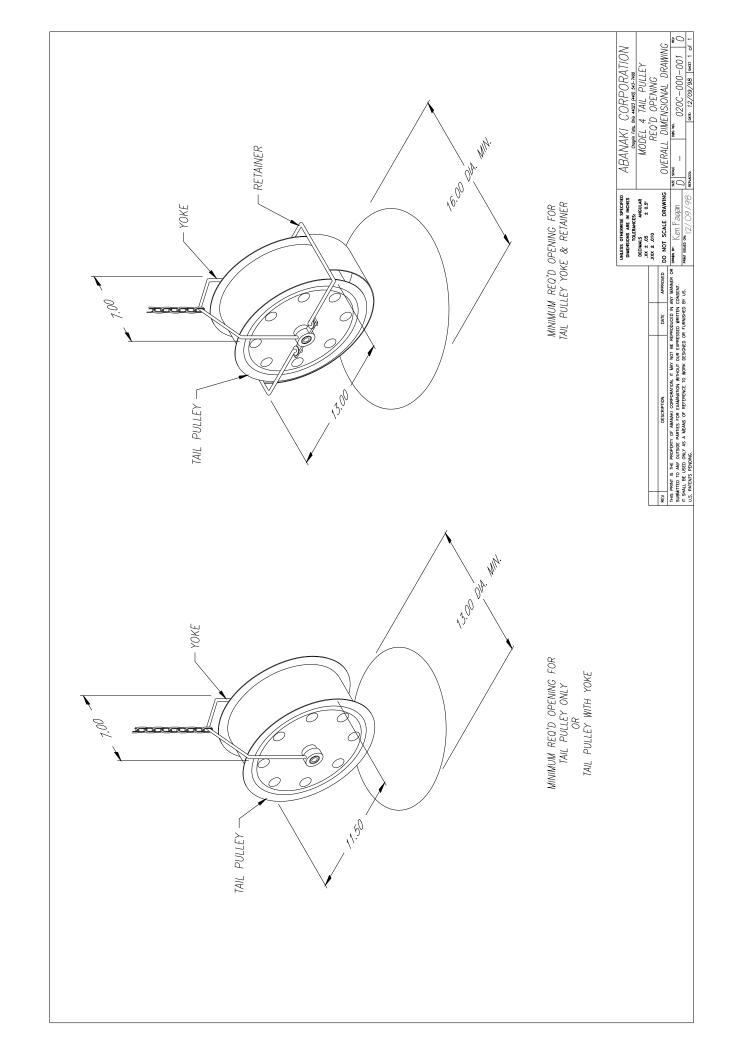
## Optional 575 Volt Motors

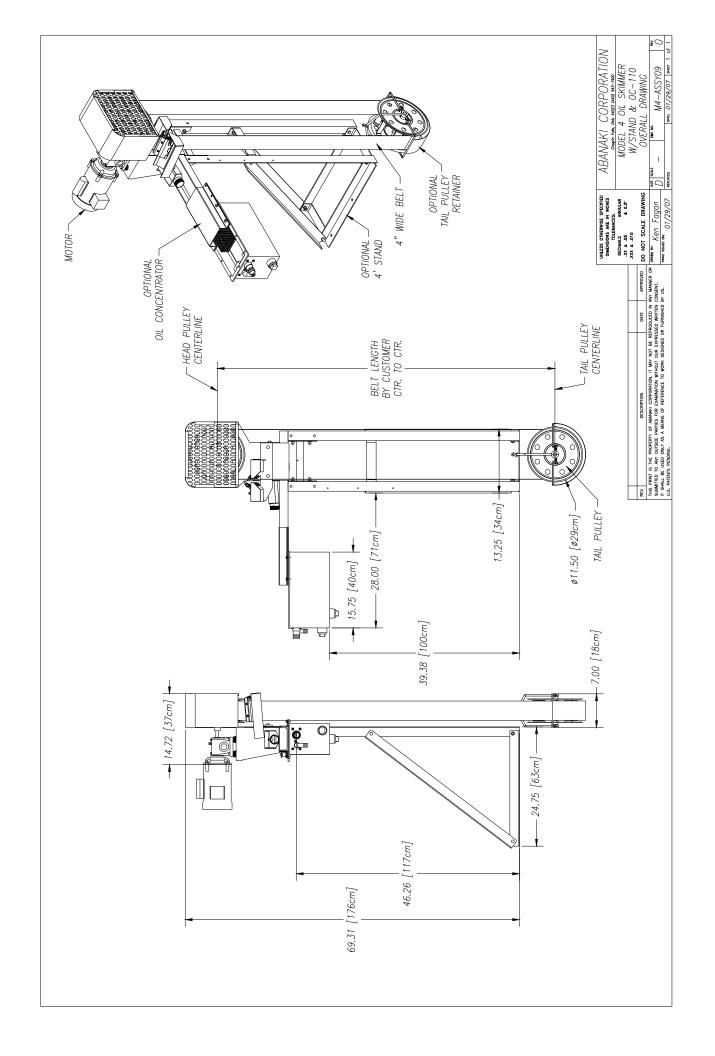
1/3 H.P. 3 PH 60 Hz TEFC 1725 RPM 56 C-Face 575 Volt .64 Amp

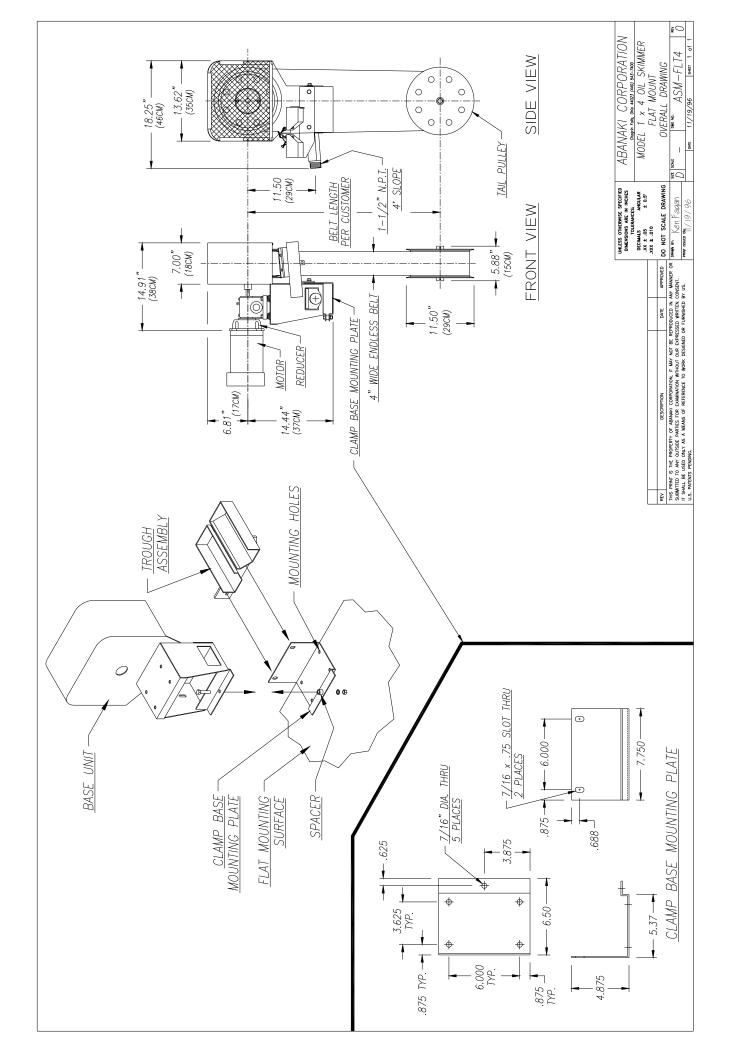
1/2 H.P. 3 PH 60Hz EXP. 1725 RPM 56 C-Face 575 Volt .9 Amp

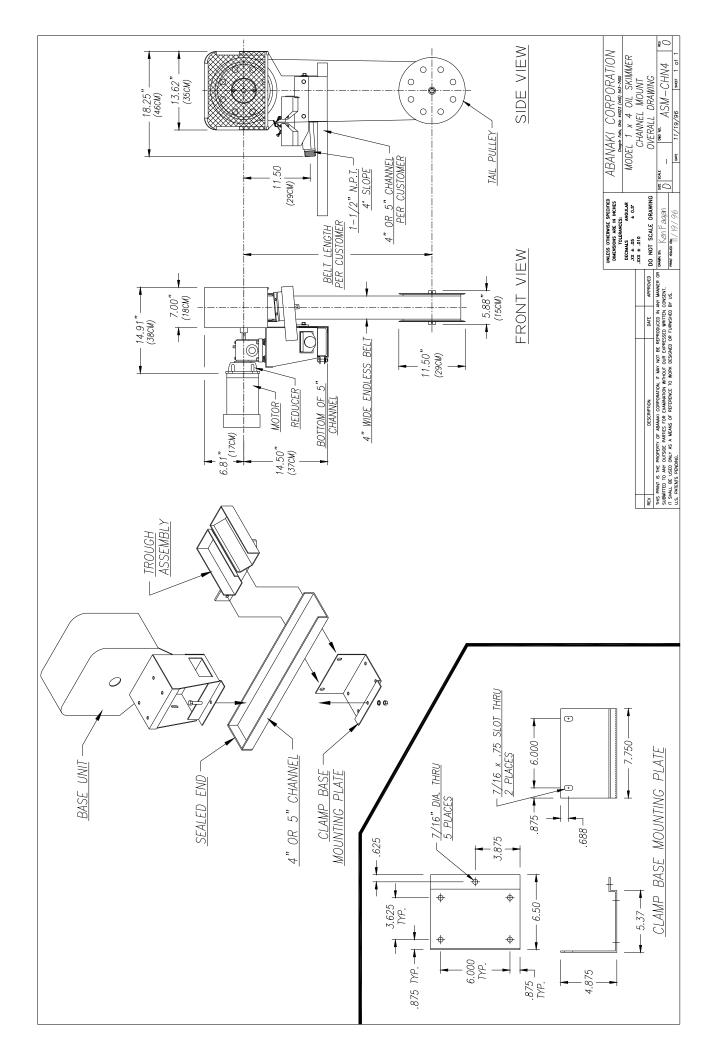
1/2 H.P. 3PH 60Hz TEFC 1725 RPM 56 C-Face 575 Volt .8 Amp











# OIL GRABBER® MODEL MB



## **Enjoy the Benefits of Oil Skimming!**

- Most inexpensive way to remove oil from water
- Saves coolants by removing tramp oil
- Conserves parts wash water by removing oily wastes
- Prevents plugging of spray heads and filters
- Reduces fluid disposal costs
- Skimmed oil can be recycled and reused as a lubricant or fuel
- Helps meet government requirements for water discharge

## **General Description**

The Abanaki Model MB Oil Grabber is a dependable and effective means of removing oil from water and water-base solutions. Often, skimming by itself will reduce oil to an acceptable level of water purity. Depending on the characteristics of the liquid, it is possible for the Model MB alone to reduce oil content to less than five parts per million in water. The unit can be used as a pretreatment before filtration, and in conjunction with a coalescing system.

The Model MB utilizes continuous belts and wipers to remove up to 200 gallons of oil per hour from the fluid surface. The belts, operating on a motor and pulley system, run through contaminated liquid to pick up oil from the surface. After traveling over the head pulley, the belts pass through tandem wiper blades where oil is scraped off both sides of each belt and discharged. The tail pulleys have flanges which allow them to roll freely on the inside of the belts without becoming dislodged. These lower pulleys require no bearings and do not need to be fastened to the tank. If turbulent conditions exist, an optional tether and cage assembly prevents the tail pulleys from being dislodged.

Oil skimming makes use of the differences in specific gravity and surface tension between oil and water. These physical characteristics allow the belts to attract oil and other hydrocarbon liquids from the surface of the fluid. The Model MB can be used in tanks with depths as shallow as one foot or as deep as 100 feet.

## The Model MB Advantages

- A single unit elevates and separates oil
- Lifts oil any distance without the need of expensive pumps
- Maintains skimming efficiency with fluctuating fluid level
- Can be used in depths as shallow as one foot, or as deep as 100 feet
- Requires no tank modifications in most applications
- Operates in turbulent liquid using optional tail pulley cage and tether assembly
- Easy mounting and fast cleaning, with minimal maintenance



# OIL GRABBER® MODEL MB

## Where To Use The Model MB

The Model MB is designed for those applications where other skimmers do not provide adequate removal capacity. Multiples of two, three, or five belts are available. From a mere shimmer on top of water to a heavy oil slick, the Model MB performs efficiently, removing up to 200 gallons of oil per hour.

# **Typical Applications**

- Wastewater sumps
- Coolant systems
- Food processing plants
- Parking lots, garages, and service facilities

- Outdoor ponds, lakes, and basins
- Underground tanks
- Aircraft service areas and tarmac runoff
- Truck, locomotive, and other mobile equipment washing facilities

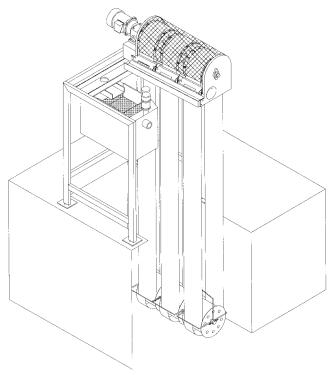
# **Rugged Construction for Harsh Conditions**

The Model MB is designed to last for many years. With the proper configuration it can handle liquid temperatures up to 212°F, and the pH of the fluid can range from 1 to 13. Belts are made of corrosion-resistant steel, carbon steel, or a specially engineered polymer. The skimmer drive includes an oil filled gear reducer with bronze gears and ball bearings. The motor, reducer, and powder coated finish of the weldments give the the Model MB exceptionally long life, even under the harshest conditions.

# Key Features of the Model MB:

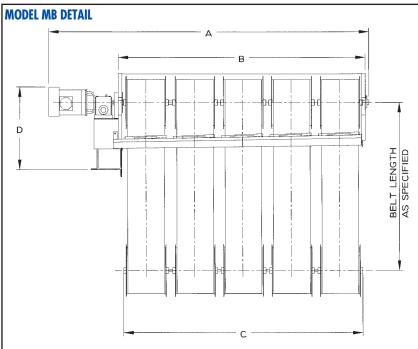
- Requires only a small area in the tank or sump
- Easy mounting
- High temperature capability
- Chip resistant powder finish
- Hazardous duty and food grade options
- Custom designs and turnkey systems available
- Fast cleaning with minimal maintenance

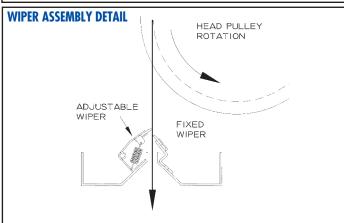


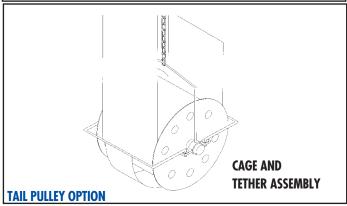


#### Approximate Oil Removal Rates and installation dimensions for Model MB Skimmers

No. of Belts	Removal Rate, gph (lph)*	A dim., in.(cm)	B dim., in. (cm)	C dim., in. (cm)	D dim., in. (cm)	
2	80 (303)	38 (97)	211/8 <mark>(54)</mark>	21 7/8 <mark>(54)</mark>	15 (38)	
3	120 (454)	48 3/4 (124)	31 3/4 (81)	31 1/2 <mark>(80)</mark>	15 (38)	
5 200 (757) 70 (178) 53 (135) 52 3/4 (135) 15 (38)						
*Removal Rate is based on 30 weight oil in water						









# **Specifications:**

Removal Rate (See Table)

Specify standard or high capacity. Tail Pulley

(The high capacity option uses a patented pulley

design that improves the adherence of oil to the inside of the

belt, thus increasing the removal rate.)

Fractional, TEFC, gear motor operating on either 115/230VAC, single phase, 60Hz or 230/460 Motor

VAC, three phase, 60Hz.
Optional: 50Hz power source; explosion proof; drip proof; pneumatic; and wash down duty motors.

Belt Width 8 in. (20 cm)

Belt Length User specified (see "Belt Selection" next page.) Specify corrosion-resistant steel, carbon steel, or **Belt Material** 

specially engineered polymer. (See "Belt Selection.")

Nitrile standard; CRV optional. Specify wiper material based Wiper

on temperature and fluid compatibility.

(See "Operating Limits.")
For MB 2x8 and 3x8 — Bracket for 5" steel channel Mounting Method

(supplied by customer), with oil discharge through the

channel.

For MB 5x8 — Bracket for 5"square tube (supplied by customer), with oil discharge through the channel.

Drive assembly and housing with motor, Weights1

without belts or tail pulleys: 2 belt unit: 74 lbs. (34 kg) max. 3 belt unit: 86 lbs. (39 kg) max. 5 belt unit: 110 lbs. (50 kg) max.

Tail pulley (per belt): 10 lbs. (4.5 kg) 4 ft. corrosion-resistant steel belt: 7 lbs. (3.2 kg) (belt weight varies according to actual length specified)

 Tail pulley cage and tether assembly for operation in Options (Specify) turbulent liquids.

• Floor mounted support stand.

316 stainless steel housing.
Thermostatically controlled heaters (115/230VAC, 900 Watts; the heater hood replaces the standard drive

Oil Concentrator® for virtually water-free oil (see Abanaki Oil Concentrator® on next page.)
 Float switch with signal light (fits in 3/4" drum bung)

to prevent discharge drum overflow.

 Poly-shelters, reinforced for durable protection in outside applications

Timer and electrical controls

## **Operating Limits**

WIPOIS			
Temperature of Liquid	pH 1-5 (acidic)	pH 6-8 (neutral)	pH 9-14 (alkaline)
33°F-180°F (0.5°C-82°C)	viton	nitrile	viton
181°F-212°F (83°C-100°C)	viton	viton	viton

### Belts<sup>2</sup>

Temperature of Liquid	pH 1-5	pH 6-8	pH 9-14
	(acidic)	(neutral)	(alkaline)
33°F-180°F (0.5°C-82°C)	CR steel, polymer	carbon steel, polymer	polymer
181°F-212° (83°C-100°C)	CR steel	carbon steel,CR steel	CR steel

Standard Configuration

The standard Model MB is supplied with a motor belt guard, spring-loaded adjustable wiper blade assembly, skimmer belt, tail pulley, and assembly instructions.

#### **Specification Notes:**

- 1. The Model MB is shipped by motor freight.
- 2. Consult factory for recommendations covering operating conditions not listed here.

## **Belt Selection**

**Belt Length**To specify the belt length: Measure from the drive unit mounting plane to the surface of the liquid at its

lowest level and add 24 inches (61 cm). (Generally, the lowest level allowed is about one foot, and

can never be the bottom of the tank.)

Belt Material Experience has shown that belt skimmers require a minimum square footage of space for installation and

operation, yet they surpass the requirements for most applications. Abanaki single material belts include corrosion-resistant steel (standard), carbon steel, or a specially engineered polymer. There is no

delamination to worry about with a single material belt.

<u>Corrosion-resistant Steel</u> - Proven to be a reliable belting material of choice: durable and trouble free.

This material stands up to high temperatures and harsh chemicals.

<u>Carbon Steel</u> - Used in applications where the skimmer is operating 24 hours a day or when the liquid

has neutral pH.

**Engineered Polymer** - Used in applications where abrasive particles are present or when physical abuse

of the belt is likely.

When in doubt, consult factory for advice on the best belt for your application.

## Abanaki has thousands of skimmers installed worldwide at leading companies such as...

American Cyanamid Eaton New York Power Authority

Armstrong World Industries Flying J Nissan Motor
Bethlehem Steel Ford Motor Outboard Marine

Bettilenem Steel Ford Motor Outboard Marine
Boeing General Electric TRW
Bureau of Reclamation Henry Filters United Airlines

Caterpillar John Deere US Gypsum
Chevron Kaiser Aluminum US Repeating Arms
Corning Mazak USS Great Lakes Fleet

Dow Chemical Monroe Auto Equipment Westinghouse Electric

## **ABANAKI'S Oil Concentrators®**

The Oil Concentrator® is an option available on all ABANAKI oil skimmers. Under most operating conditions ABANAKI oil skimmers will pick up oil with less than 5% water. But as surface oil is reduced to a thin layer (1/16 to 1/8 inches thick), more water or coolant may also be picked up along with the oil. When used in tandem with the oil skimmer, an Oil Concentrator will solve this problem, and provides virtually complete oil /water separation, saving money and improving the efficiency of the skimmer.

Based on the principle of gravity separation, the Oil Concentrator uses no electricity, timers, sensors, pumps, or other moving parts. The Oil Concentrator sits behind the skimmer and receives its discharged oil. The unit comes complete with a mounting bracket, removable sludge screen and a drain plug to ease clean up. For higher viscosity oils or low temperature applications, a thermostatically controlled heater is available as an option.

# OIL GRABBER® MODEL MB

# For more information, please contact:



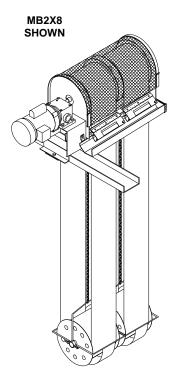
# Oil Grabber® Model MB - Multi Belts

#### **Quick Summary**:

A heavy duty oil skimmer to solve serious oil contamination problems. Special options available with the Model MB include: all stainless steel construction, infrared heater hood for non-explosive freezing applications and a complete system control box. Applications include: truck washes, heat treating plants, oil refineries and power plants.

#### Highlights:

- 1. An 8" continuous belt of corrosion resistant steel or elastomer up to 100 feet center to center.
- 2. Removable steel mesh guard for visual inspection of drive pulley.
- 3. TEFC motor.
- 4. Removes up to 40 gallons of medium weight oil per hour per 8" belt.



Quick Chart: STANDARD MOTOR OPTIONAL MOTOR

CAP. GAL.	MODEL	BELT WIDTH AREA	BELT LENGTH	RPM AMPS	VOLTS Hz	PHASE	RPM AMPS	VOLTS Hz
80	2 x 8	2 x 8"	Up to 100 ft.	1725 RPM 5/2.6/2.5	115/208-230 60Hz	1 PH TEFC	1425 RPM 7.2/3.6	110/220 50Hz
80	2 x 8	2 x 8"	Up to 100 ft.	1725 RPM 1.4/1.3/.65	208-230/460 60Hz	3 PH TEFC	1425 RPM 2/1.2/1	220/380/440 50Hz
120	3 x 8	3 x8"	Up to 100 ft.	1725 RPM 5/2.6/2.5	115/208-230 60Hz	1 PH TEFC	1425 RPM 7.2/3.6	110/220 50Hz
120	3 x 8	3 x 8"	Up to 100 ft.	1725 RPM 1.4/1.3/.65	208-230/460 60Hz	3 PH TEFC	1425 RPM 2/1.2/1	220/380/440 50Hz
200	5 x 8	5 x 8"	Up to 100 ft.	1725 RPM 5/2.6/2.5	115/208-230 60Hz	1 PH TEFC	1425 RPM 7.2/3.6	110/220 50Hz
200	5 x 8	5 x 8"	Up to 100 ft.	1725 RPM 1.4/1.3/.65	208-230/460 60Hz	3 PH TEFC	1425 RPM 2/1.2/1	220/380/440 50Hz

#### Note

Additional motors, including explosion proof, are available per customer specification. See motor spec sheet for complete listing of motors. <u>Always</u> consult the factory for special applications.

## Model MB 2 x 8

## SKIMMER SPECIFICATION SHEET

#### PART 1: GENERAL

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
  - A. Color: RAL5005 or equivalent (Dark Blue).
- 2. Stainless Steel.

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. Two magnet assemblies per cross bar with 8 cross bars per head.
- 2. Tail Pulley
  - A. Solid drum type, free floating in belt.
  - B. Collars for shaft when used with yoke, chain & retainer.
  - C. High Capacity.

#### 1.03 Motor: (one of two motors standard)

1/4 H.P. 1 PH 60Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5/2.6/2.5 Amps or 1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt

1.4 1.3 .65 Amp

#### 1.04 Gear Reducer

- 1. Standard C-Face
  - A. 150:1 double reduction
  - B. Oil filled
  - C. Bronze gears/ball bearings

#### 1.05 Guard

1. Standard flat steel mesh screen over drive pulley area.

#### 1.06 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length as required up to 100'.

#### 1.07 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Front Wiper Assembly Spring tensioned with single wiper insert.
  - B. Rear Wiper Assembly Stationary wiper holder, single wiper insert.

#### 1.08 Oil Discharge Outlet

- 1. Standard Channel Mount
  - A. Dual troughs discharging into a single 5" channel to oil collection tank.

#### 1.09 Mounting Arrangements

- 1. Standard Skimmer Configuration
  - A. 5 x 6.7 (5" channel) x 20" long minimum; also doubles as discharge outlet.

#### 1.10 Weights and Size

- 1. 74 lbs. skimmer + 20 lbs. motor = 94 lbs/unit
- 2. Overall size of unit: 38"L x 16-1/2"W x 21-1/4"H
- 3. Tail Pulley: 10 lbs. each

#### 1.11 Mounting Requirements

- 1. Sump Opening size for Tail Pulleys with Yokes: 12" x 24"
- 2. Sump Opening size for Tail Pulleys with Yokes and Retainers: 14" x 24"
- 3. Minimum Mounting Height: 20"
- 4. Minimum Mounting Height w/optional stand: 66-3/8"

#### 1.12 Power Requirements

1. Hard wired per motor and local/national code.

#### 1.13 Optional Mounting Arrangements

1. 2x8 Mounting Stand will support up to a single 3x8 skimmer and up to a single OC-200 decanter with pivot mount.

## Model MB 3 x 8

## SKIMMER SPECIFICATION SHEET

#### PART 1: GENERAL

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
  - A. Color: RAL5005 or equivalent (Dark Blue).
- 2. Stainless Steel.

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. Two magnet assemblies per cross bar with 8 cross bars per head.
- 2. Tail Pulley
  - A. Solid drum type, free floating in belt.
  - B. Collars for shaft when used with yoke, chain & retainer.
  - C. High Capacity.

#### 1.03 Motor: (one of two motors standard)

1/4 H.P. 1 PH 60Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amps or 1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt

1.4 / 1.3 / .65 Amp

#### 1.04 Gear Reducer

- 1. Standard C-Face
  - A. 150:1 double reduction
  - B. Oil filled
  - C. Bronze gears/ball bearings

#### 1.05 Guard

1. Standard flat steel mesh screen over drive pulley area.

#### 1.06 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length as required up to 100'.

#### 1.07 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Front Wiper Assembly Spring tensioned with single wiper insert.
  - B. Rear Wiper Assembly Stationary wiper holder, single wiper insert.

#### 1.08 Oil Discharge Outlet

- 1. Standard Channel Mount
  - A. Dual troughs discharging into a single 5" channel to oil collection tank.

#### 1.09 Mounting Arrangements

- 1. Standard Skimmer Configuration
  - A. 5 x 6.7 (5" channel) x 20" long minimum; also doubles as discharge outlet.

#### 1.10 Weights and Size

- 1. 86 lbs. skimmer + 20 lbs. motor = 106 lbs/unit
- 2. Overall size of unit: 42-1/2"L x 16-1/2"W x 20"H
- 3. Tail Pulley: 10 lbs. each

#### 1.11 Mounting Requirements

- 1. Sump Opening size for Tail Pulleys with Yokes: 12" x 36"
- 2. Sump Opening size for Tail Pulleys with Yokes and Retainers: 14" x 36"
- 3. Minimum Mounting Height: 20"
- 4. Minimum Mounting Height w/optional stand: 66-3/8"

#### 1.12 Power Requirements

1. Hard wired per motor and local/national code.

#### 1.13 Optional Mounting Arrangements

1. 2x8 Mounting Stand will support up to a single 3x8 skimmer and up to a single OC-200 decanter with pivot mount.

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## Model MB 5 x 8

## SKIMMER SPECIFICATION SHEET

#### PART 1: GENERAL

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
  - A. Color: RAL5005 or equivalent (Dark Blue).
- 2. Stainless Steel.

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. Two magnet assemblies per cross bar with 8 cross bars per head.
- 2. Tail Pulley
  - A. Solid drum type, free floating in belt.
  - B. Collars for shaft when used with yoke, chain & retainer.
  - C. High Capacity.

#### 1.03 Motor: (one of two motors standard)

1/4 H.P. 1 PH 60Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amps or 1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

#### 1.04 Gear Reducer

- 1. Standard C-Face
  - A. 150:1 double reduction
  - B. Oil filled
  - C. Bronze gears/ball bearings

#### 1.05 Guard

1. Standard flat steel mesh screen over drive pulley area.

#### 1.06 Belt Material and Length

- 1. Standard Corrosion Resistant Steel
- 2. Length as required up to 100'.

#### 1.07 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Front Wiper Assembly Spring tensioned with single wiper insert.
  - B. Rear Wiper Assembly Stationary wiper holder, single wiper insert.

#### 1.08 Oil Discharge Outlet

- 1. Standard Channel Mount
  - A. Dual troughs discharging into a single 5" square tube to oil collection tank.

#### 1.09 Mounting Arrangements

- 1. Standard Skimmer Configuration
  - A. 5" structural square tube 12ga. mount also doubles as discharge outlet.

#### 1.10 Weights and Size

- 1. 110 lbs. skimmer + 20 lbs. motor = 130 lbs/unit
- 2. Overall size of unit: 70-1/2"L x 18"W x 26-1/2"H
- 3. Tail Pulley: 10 lbs. each

#### 1.11 Mounting Requirements

- 1. Sump Opening size for Tail Pulleys with Yokes: 12" x 60"
- 2. Sump Opening size for Tail Pulleys with Yokes and Retainers: 14" x 60"
- 3. Minimum Mounting Height: 20"
- 4. Minimum Mounting Height w/optional stand: Percustomer

#### 1.12 Power Requirements

1. Hard wired per motor and local/national code.

#### 1.13 Optional Mounting Arrangements

1. per customer.

# ABANAKI Electric Motor List OIL GRABBER® MODEL: MULTI BELTS

#### Standard motors 60 Hz:

1/4 H.P. 1 PH 60 Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amp

or

1/4 H.P. 3 PH 60 Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

### Optional 50 Hz motors:

1/2 H.P. 1 PH 50 Hz TEFC 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

or

1/2 H.P. 3 PH 50 Hz TEFC 1425 RPM 56 C-Face 220/380/440 Volts 2 / 1.2 / 1 Amp

#### Optional Explosion-Proof Motors 50 & 60 Hz:

1/3 H.P. 1 PH 60 Hz EXP. 1725 RPM 56 C-Face 115/208-230 Volt 6 / 3.2 / 3 Amp 1/3 H.P. 3 PH 60 Hz EXP. 1725 RPM 56 C-Face 208-230/460 Volt 1.8 / 1.6 / .8 Amp

1/2 H.P. 3 PH 50 Hz EXP. 1425 RPM 56 C-Face 220/380/440 Volt 2 / 1.2 / 1 Amp

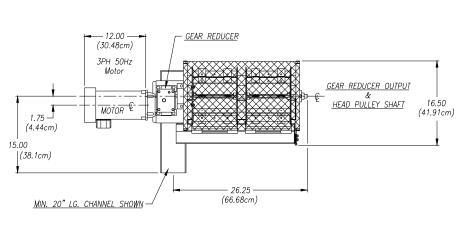
1/2 H.P. 1 PH 50 Hz EXP. 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

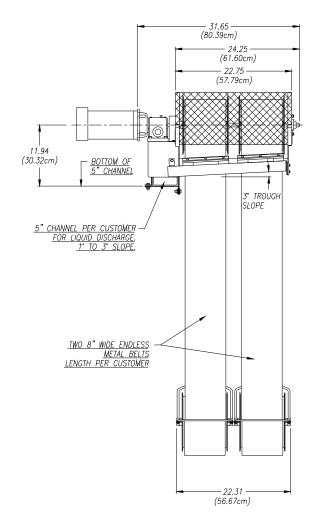
#### Optional 575 Volt Motors

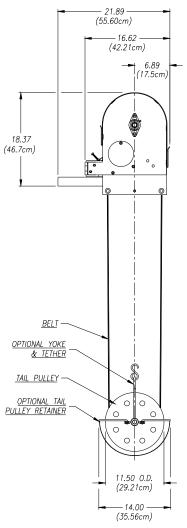
1/3 H.P. 3 PH 60 Hz TEFC 1725 RPM 56 C-Face 575 Volt .64 Amp

1/2 H.P. 3 PH 60 Hz EXP. 1725 RPM 56 C-Face 575 Volt .9 Amp

1/2 H.P. 3PH 60 Hz TEFC 1725 RPM 56 C-Face 575 Volt .8 Amp



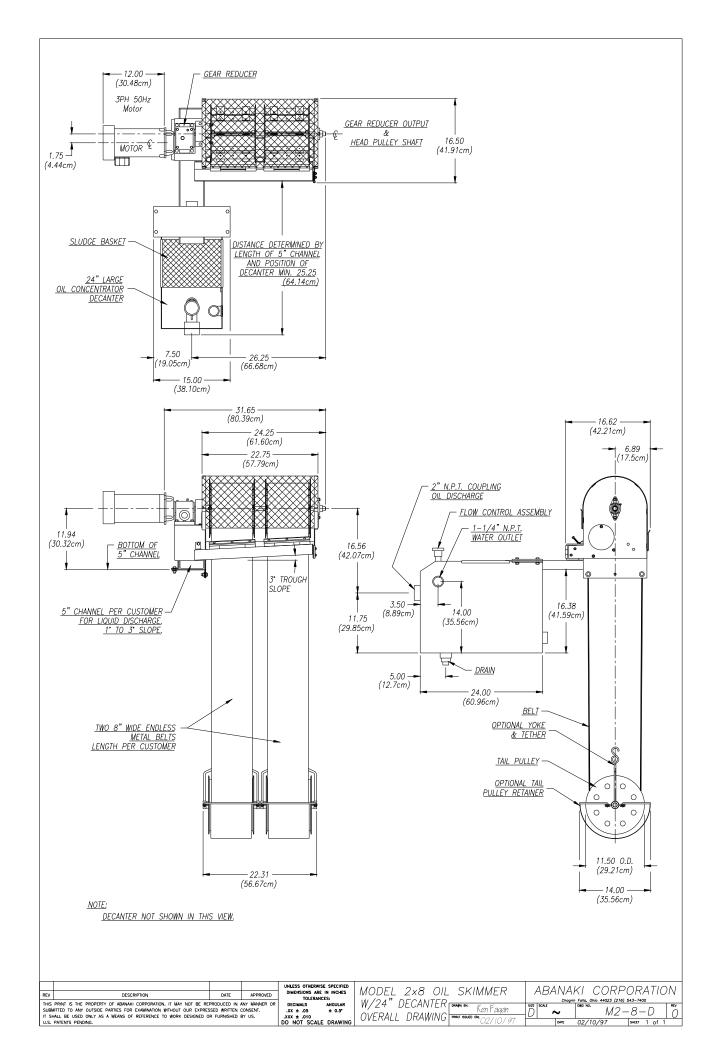


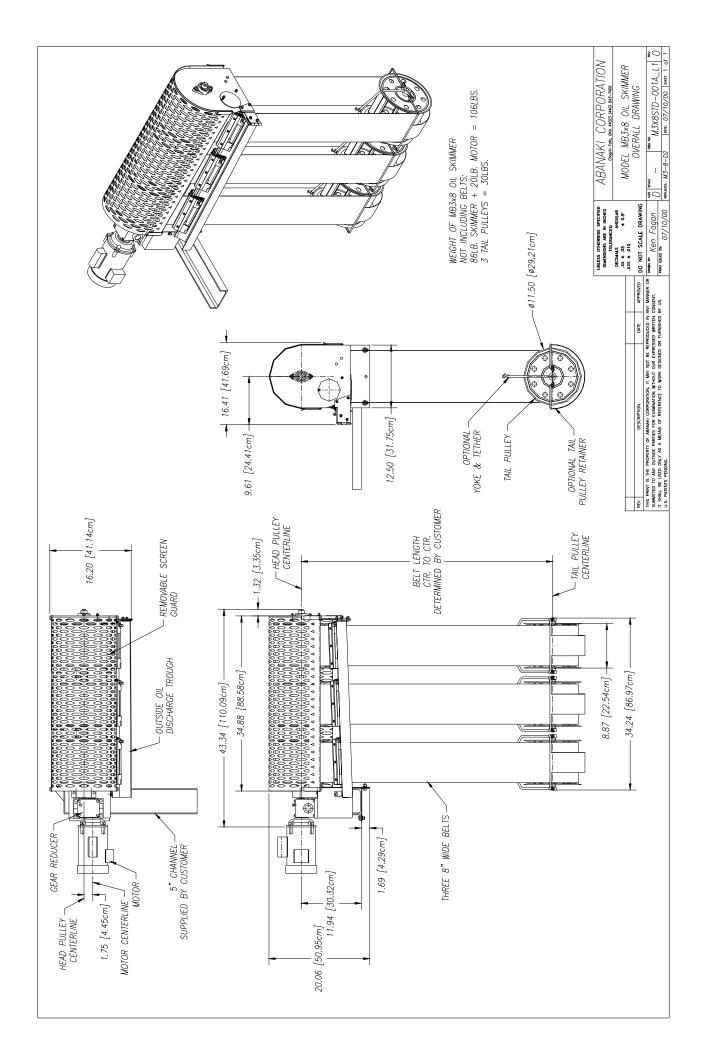


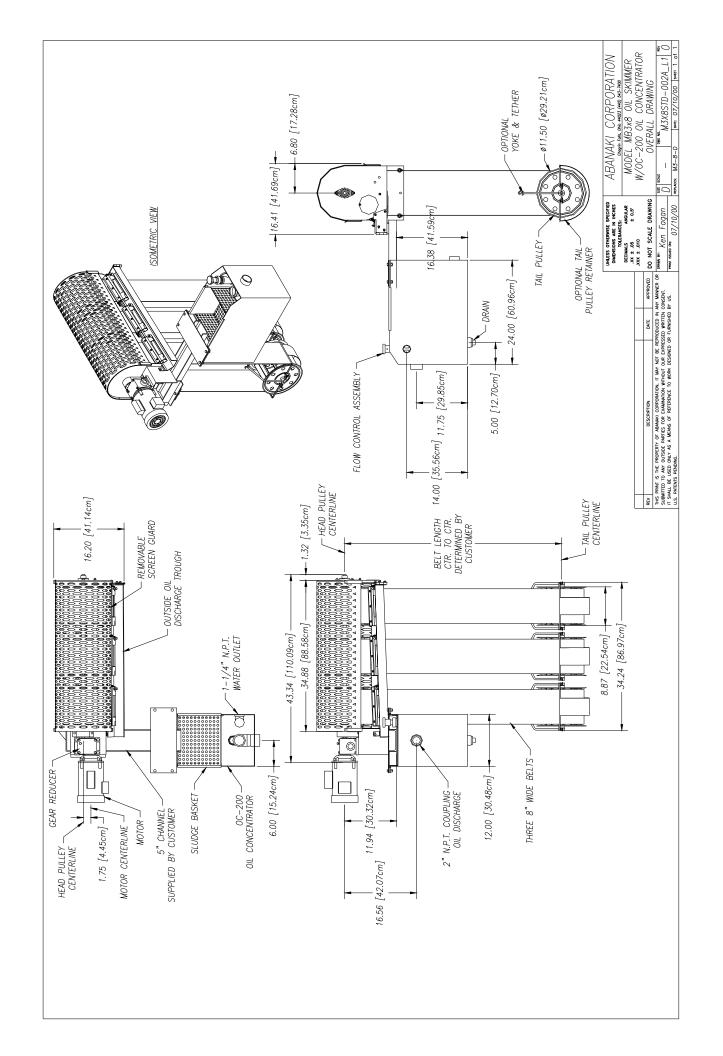
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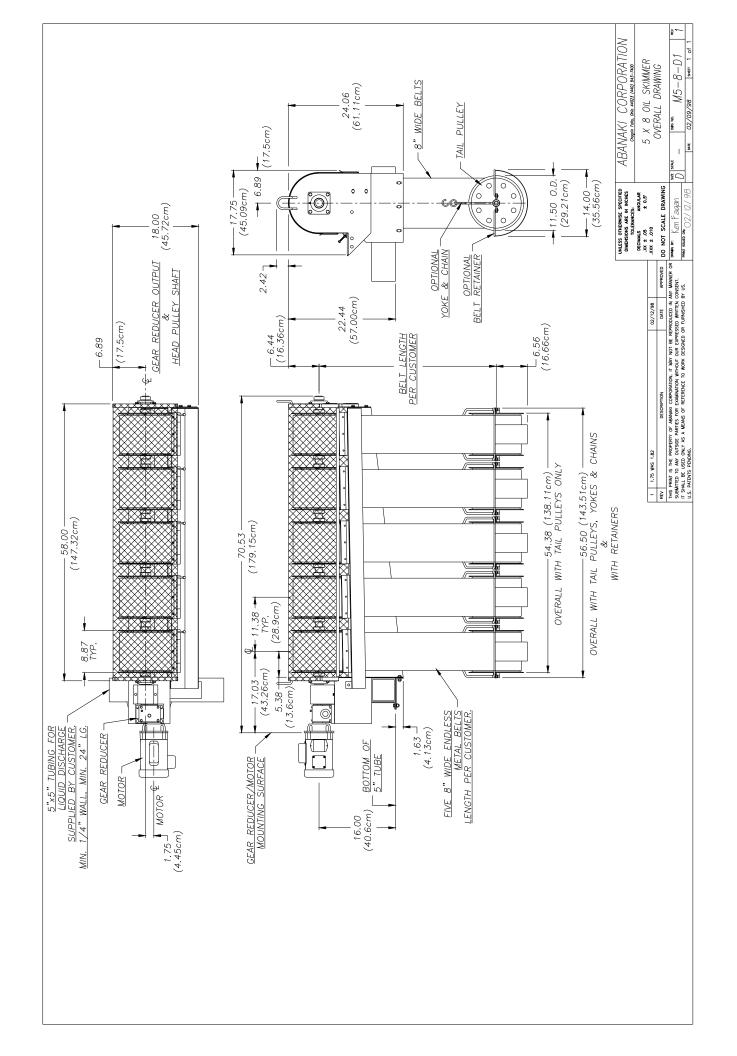
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MODEL 2×8 OIL	SIKIIVIIVIEIK		Falls, Ohio 44023 (440) 543	
OVERALL DRAWING	DRAWN BY: Ken Fagan	D SCALE —	2-8D	IMO1 Ö
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# TOTE-IT® PORTABLE OIL SKIMMER



## **Enjoy the Benefits of Oil Skimming!**

- Tote-It is easily hand carried to the source of the problem
- Most inexpensive way to remove oil from water
- Saves coolants by removing tramp oil
- Conserves parts wash water by removing oily wastes
- Prevents recontamination of parts as they are removed from wash tank
- Prevents plugging of spray heads and filters
- Reduces fluid disposal costs
- Skimmed oil can be recycled and reused as a lubricant or fuel
- Helps meet government requirements for water discharge

## **General Description**

The Tote-It's patented design is a dependable and effective means of removing free floating oil from water. The single assembly unit can be used in any application where 115 VAC, 60 or 220V, 50 Hz power is available.

The Tote-It utilizes a continuous belt and wiper to remove up to 12 gallons of oil per hour from the fluid surface. The belt operates on a motor and pulley system attached to a stabilizer bar that is immersed in the contaminated liquid. After traveling over the head pulley, the belt passes through tandem wiper blades where oil is scraped off both sides of the belt, and discharged through a 1-1/4 in. ID hose. The tail pulley has flanges which allow it to roll freely on the inside of the belt without becoming dislodged. It does not need to be fastened to the tank.

Oil skimming makes use of the differences in specific gravity and surface tension between oil and water. These physical characteristics allow the belt to attract oil and other hydrocarbon liquids from the surface of the fluid.

The Tote-It is especially well suited for parts washing and machining center applications. By removing surface oil from a wash tank, the parts will not be recontaminated as they are withdrawn. Removing tramp oil from a coolant tank prevents excessive smoke and fumes due to oil burning during cutting operations. It also reduces bacteria growth in the tank, along with the resulting odor.

# The Tote-It Advantages

- Multiple site usage easily moved from one place to another
- 36 lb., single unit portability
- A single unit elevates and separates oil
- Can be used in tanks as shallow as a few inches
- Requires no tank modifications in most applications
- Maintains skimming efficiency in fluctuating fluid levels
- Easy mounting and fast cleaning, with minimal maintenance



# TOTE-IT® PORTABLE OIL SKIMMER

## Where To Use The Tote-It

The Tote-It is designed for those applications where multiple tanks can take advantage of a single portable unit. It also can be used in permanent installations with limited access areas, such as small parts washers and machining center coolant tanks.

# **Typical Applications**

- Wastewater sumps
- Parts washers
- Coolant systems
- Heat treating fluids
- Food processing plants
- Parking lots, garages, and service facilities
- Aircraft service areas and tarmac runoff
- Truck, locomotive, and other mobile equipment washing facilities

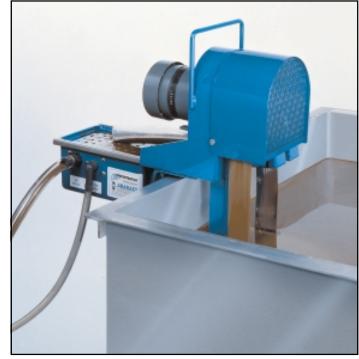


The Tote-It has been designed to last for many years. Belts are made of corrosion-resistant steel, or a polymer material. A tough power train keeps the Tote-It running under the most severe conditions. With the proper configuration the Tote-It can handle liquid temperatures up to 212°F, and the pH of the fluid can range from 1 to 13.

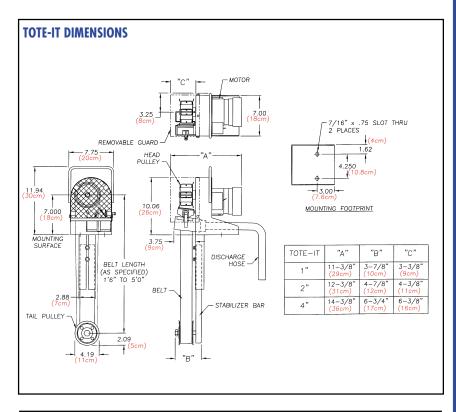
# **Key Features of the Tote-It:**

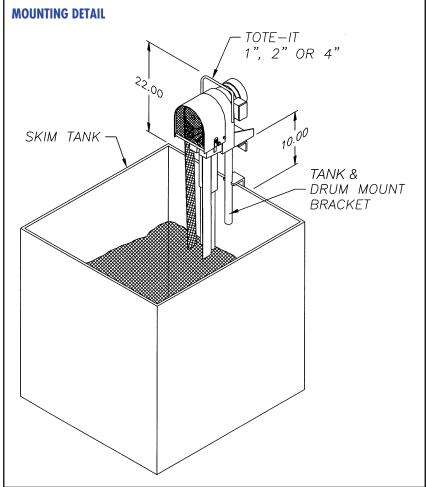
- Small mounting and operating area
- Easily hand carried from tank to tank
- Easily mounted on a flat surface
- Belt and wipers impervious to oils and fuels
- High temperature capability
- Chip resistant powder coated finish
- Customized belt lengths and materials
- Fast cleaning with minimal maintenance













# **Specifications:**

Oil Removal Rate

12gph (45.4 lph) with 4 in. (10 cm) wide belt 6 gph (22.8 lph) with 2 in. (5 cm) wide belt 3 gph (11.4 lph) with 1 in.(2.5 cm) wide belt (Removal rate is based on 30 weight oil in water.)

Motor

Fractional hp gear motor, 115VAC, 60 Hz

Belt Width Belt Length Specify 4 in. (10 cm), 2 in. (5 cm), or 1 in. (2.5 cm) User specified (See "Belt Selection" next page.) Specify corrosion-resistant steel, or specially engineered

**Belt Material** polymer. (See "Belt Selection.")

Nitrile standard, Viton, ceramic/UHMW hybrid, and Wiper

ceramic optional. Specify wiper material based on

temperature and fluid compatibility.

(See "Operating Limits.")

Mounting Method

Flat base mount with oil discharge through a 1-1/4 in. I.D.

hose. See installation drawing.

Mounting Area Weights1

See installation drawing.

Complete assembly with stabilizer bar, tail pulley, and steel

belt: 1 in.: average 30 lbs. (13.6 kg)

2 in.: average 34 lbs. (15.4 kg) 4 in.: average 36 lbs. (16.3 kg)

Options (Specify)

- Oil Concentrator<sup>®</sup> for virtually water-free oil discharge (See description next page.)
- Storage stand
- Special belt lengths, over 5 ft. center to center
- Stainless steel construction
- Timer
- Level switch
- Pneumatic or special electric motors
- **Explosion proof**

# **Operating Limits**

Wipers<sup>2</sup>

Temperature of Liquid	pH 1-5 (acidic)	pH 6-8 (neutral)	pH 9-14 (alkaline)
33°F-180°F (0.5°C-82°C)	Ceramic hybrid, CRV	Ceramic hybrid, CRV, nitrile	Ceramic hybrid, CRV, nitrile
181°F-212°F (83°C-100°C)	CRV	CRV	CRV

#### Belts<sup>2</sup>

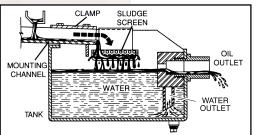
Temperature of Liquid	pH 1-5 (acidic)	pH6-8 (neutral)	pH 9-14 (alkaline)
33°F-140°F (0.5°C-60°C)	Elastomer	Poly, Elastomer	Poly, Elastomer
33°F-180°F (0.5°C-82°C)	Corrosion Resistant	Corrosion Resistant, Carbon Steel, Poly	Corrosion Resistant, Poly
181°F-212°F (83°C-100°C)	CR steel	Corrosion Resistant,	Corrosion Resistant

Standard Configuration The Abanaki Tote-It is supplied with a belt guard, adjustable wiper blade assembly, skimmer belt, tail pulley, and stabilizer bar.

- 1. The Tote-It is UPS shippable.
- 2. Consult factory for recommendations covering operating conditions not listed here.

## ABANAKI'S Oil Concentrators®

The Oil Concentrator® is an option available on all ABANAKI oil skimmers. Under many operating conditions ABANAKI oil skimmers will pick up oil with less than 5% water. But as surface oil is reduced to a thin layer (1/16 to 1/8 inches thick), more water or coolant may also be picked up



along with the oil. When used in tandem with the oil skimmer, an Oil Concentrator will solve this problem, and provides virtually complete oil /water separation, saving money and improving the efficiency of the skimmer.

Based on the principle of gravity separation, the Oil Concentrator uses no electricity, timers, sensors, pumps, or other moving parts. The Oil Concentrator sits behind the skimmer and receives its discharged oil. The unit comes complete with a mounting bracket, removable sludge screen and a drain plug to ease clean up. For higher viscosity oils or low temperature applications, a thermostatically controlled heater is available as an option.

## Abanaki has thousands of skimmers installed worldwide at leading companies such as...

**Army Corps of Engineers** Bethlehem Steel **Boeing British Steel Bureau of Reclamation** Caterpillar Chevron **Corning Dow Chemical** 

**Dupont** Eaton **Ford Motor General Electric General Motors Henry Filters** Honda John Deere Kaiser Aluminum

Mazak **Monroe Auto Equipment New York Power Authority Nissan Motor Nucor-Yamato Steel Outboard Marine Quaker Oats** Timken Toyota

**Underwriters Lab United Airlines U.S. Bureau of Reclamation USS Great Lakes Fleet** Volvo AB **Wartsila Diesel Westinghouse Electric** 

### **Abanaki Oil Skimmer Quick Selector Chart**

# **Other Oil Skimming Products From Abanaki:**



- 1. OIL GRABBER MODEL 4 For Mid Volume Single 4-inch wide belt (10 cm) Any length belt Capacity: 20 GPH (75 LPH)
- **OIL GRABBER MULTI-BELT For High Volume** Two to five 8-inch belts (20.3 cm) Any length belts Capacity: to 200 GPH (757.1 LPH)
- 3. OIL GRABBER MODEL 82 For Most Applications Single 8-inch wide belt (20.3 cm) Any length belt Capacity: 40 GPH (151.4 LPH)
- 4. MIGHTY MINI For Small Applications (Parts Washers, CNC Machines, 55 Gal. Drums) Single belt: 1-inch or 2-inch (25.4 or 50.8 mm) Belf length: 6", 12", 18", 24" (153, 305, 458, 610 mm) Capacity: 1 GPH - 1" belt (3.81 LPH) 2 GPH - 2" belt (5.71 LPH)

# TOTE-IT® PORTABLE OIL SKIMMER

For more information, please contact:



17387 Munn Road • Chagrin Falls, Ohio 44023 Ph: (440) 543-7400 • FAX: (440) 543-7404 800-358-SKIM (7546)

http://www.abanaki.com

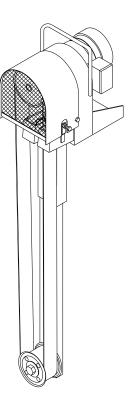
# Tote-It® Portable Oil Skimmer: 1", 2", 4"

#### Quick Summary:

A small rugged portable oil skimmer with a wide range of applications. The Tote-It is an industrial oil skimmer designed for years of continuous operation. The Tote-It features: high oil removal capacity; dual wiper blade system; stabilizer bar; and a steel guard cover over the drive pulley. The Tote-It is currently found in such locations as parts washers, machine shops, assembly plants, automobile garages or any site that a unit can be carried to and plugged in. The Tote-It with 1, 2 and 4-inch belt sizes allows for a variety of application possibilities.

#### Highlights:

- 1. A 1,2 or 4" continuous belt of corrosion resistant steel or elastomer.
- 2. Oil discharge is through a 1-1/4" N.P.T. coupling.
- 3. 8 foot grounded power cord w/plug.
- 4. Fan-cooled fractional horsepower gear motor.
- 5. Removes up to 12 gallons of oil per hour.
- 6. Available in stainless steel construction.



Quick Chart: OPTIONAL DUAL STANDARD MOTOR VOLT MOTOR

CAP. GAL.	MODEL	BELT WIDTH	BELT LENGTH	RPM AMPS	VOLTS Hz	PHASE	RPM AMPS	VOLTS Hz
3	TI-01	1"	1'-6" to 5'-0"	12 RPM 1.4	115 60Hz	1PH TEFC	15/12.5 1.2/.61amp 1.3/.65amp	115/230v 110/220v 50/60Hz
6	TI-02	2"	1'-6" to 5'-0"	12 RPM 1.4	115 60Hz	1PH TEFC	15/12.5 1.2/.61amp 1.3/.65amp	115/230v 110/220v 50/60Hz
12	TI-04	4"	1'-6" to 5'-0"	12 RPM 1.4	115 60Hz	1PH TEFC	15/12.5 1.2/.61amp 1.3/.65amp	115/230v 110/220v 50/60Hz

#### Note

Additional motors, including explosion proof, are available per customer specification. See motor spec sheet for complete listing of motors. <u>Always</u> consult the factory for special applications.

ABANAKI CORPORATION © All rights reserved 2004 17387 Munn Road Chagrin Falls, Ohio 44023 U.S.A. Phone: 1-800-358-SKIM Fax: (440) 543-7404 www.abanaki.com **ABANAKI** Tote-It® 1"

# Skimmer Specification Sheet

#### PART 1: GENERAL

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
- 2. Color: RAL5005 or equivalent (Dark Blue).

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. One magnet assembly per cross bar, with 8 cross bars per unit.
- 2. Tail Pulley (Solid drum type)
  - A. With hub for elastomer belt.
  - B. Without hub for metal belt.

#### 1.03 Motor

1. 115 Volt, 60Hz. @ 12 RPM 1.4 Amp shaded pole gear motor, TEFC <u>U.L.</u> and <u>C.S.A.</u> approved.

#### 1.04 Guard

1. Standard steel drive pulley area cover, bolt in place.

#### 1.05 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length 1'-6" to 5'-0" center-center

#### 1.06 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Adjustable wiper: outboard screw type for tensioning, with single wiper insert.
  - Fixed: inboard to center belt, with single wiper insert.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a single 1-1/4" N.P.T. coupling.

#### 1.08 Standard Mounting Arrangement

1. Two 7/16" clearance holes for mounting on flat surface.

#### 1.09 Weight and Size

- 1. Weight of unit with gear motor is 22 lbs. for 1" unit.
- 2. Overall size of unit: 12-7/8"L x 7-3/4"W x 12"H

#### 1.10 Mounting Requirements

- 1. Sump Opening size for Tail Pulley: 4-1/2" x 5" w/stablizer bar.
- 2. Minimum Mounting Height: 12"

#### 1.11 Power Requirements

1. 3 - prong grounded 110 volt outlet. Unit comes with 8' cord.

#### 1.12 Optional Mounting Arrangements

- Tote-It storage stand, for storing skimmer while not in use.
- 2. Universal Mounting Stand: 48" tall, for mounting Tote-It skimmer and ODM-100 decanter.
- 3. Tote-It drum mount, for operating skimmer and one ODM-100 decanter on a 55 gallon drum.

ABANAKI Tote-It® 2"

# Skimmer Specification Sheet

#### PART 1: GENERAL

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
- 2. Color: RAL5005 or equivalent (Dark Blue).

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. One magnet assembly per cross bar with 8 cross bars per unit.
- 2. Tail Pulley (Solid drum type)
  - A. With hub for elastomer belt.
  - B. Without hub for metal belt.

#### 1.03 Motor

1. 115 Volt, 60Hz. @ 12 RPM 1.4 Amp shaded pole gear motor, TEFC <u>U.L.</u> and <u>C.S.A.</u> approved.

#### 1.04 Guard

1. Standard steel drive pulley area cover, bolt in place.

#### 1.05 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length 1'-6" to 5'-0" center-center

#### 1.06 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Adjustable wiper: outboard screw type for tensioning, with single wiper insert.
  - B. Fixed: inboard to center belt, with single wiper insert.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a single 1-1/4" N.P.T. coupling.

#### 1.08 Standard Mounting Arrangement

1. Two 7/16" clearance holes for mounting on flat surface.

#### 1.09 Weight and Size

- 1. Weight of unit with gear motor is 34 lbs. for 2" unit.
- 2. Overall size of unit: 12-7/8"L x 7-3/4"W x 12"H

#### 1.10 Mounting Requirements

- 1. Sump Opening size for Tail Pulley: 4-1/2" x 5" w/stablizer bar.
- 2. Minimum Mounting Height: 12"

#### 1.11 Power Requirements

1. 3 - prong grounded 110 volt outlet. Unit comes with 8' cord.

#### 1.12 Optional Mounting Arrangements

- 1. Tote-It storage stand, for storing skimmer while not in use.
- 2. Universal Mounting Stand: 48" tall, for mounting Tote-It skimmer and ODM-100 decanter.
- 3. Tote-It drum mount, for operating skimmer and one ODM-100 decanter on a 55 gallon drum.

**ABANAKI** Tote-It® 4"

# Skimmer Specification Sheet

#### PART 1: GENERAL

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
- 2. Color: RAL5005 or equivalent (Dark Blue).

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Magnetic drive pulley for metal belt. Two magnet assemblies per cross bar with 8 cross bars per unit.
- 2. Tail Pulley (Solid drum type)
  - A. With hub for elastomer belt.
  - B. Without hub for metal belt.

#### 1.03 Motor

1. 115 Volt, 60Hz. @ 12 RPM 1.4 Amp shaded pole gear motor, TEFC U.L. and C.S.A. approved.

#### 1.04 Guard

1. Standard steel drive pulley area cover, bolt in place.

#### 1.05 Belt Material and Length

- 1. Standard Corrosion Resistant Steel Belt.
- 2. Length 1'-6" to 5'-0" center-center.

#### 1.06 Wiper Blades

- 1. Standard Material: Nitrile.
  - A. Adjustable wiper:outboard screw type for tensioning, with single wiper insert.
  - Fixed: inboard to center belt, with single wiper insert.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a single 1-1/4" N.P.T. coupling.

#### 1.08 Standard Mounting Arrangement

1. Two 7/16" clearance holes for mounting on flat surface.

#### 1.09 Weight and Size

- 1. Weight of unit with gear motor is 34 lbs. for 4" unit.
- 2. Overall size of unit: 14-7/8"L x 7-3/4"W x 12"H

#### 1.10 Mounting Requirements

- 1. Sump Opening size for Tail Pulley: 5" x 7" w/stablizer bar.
- 2. Minimum Mounting Height: 12"

#### 1.11 Power Requirements

1. 3 - prong grounded 110 volt outlet. Unit comes with 8' cord.

#### 1.12 Optional Mounting Arrangements

- Tote-It storage stand, for storing skimmer while not in use.
- 2. Universal Mounting Stand: 48" tall, for mounting Tote-It skimmer and OC-110 decanter.
- 3. Tote-It drum mount, for operating skimmer and one OC-110 decanter on a 55 gallon drum.

## **Electric Motor List**

# Tote-It® Portables: 1", 2", 4" Units

## Standard gearmotor 60 Hz:

1/20 H.P. 1 PH 60 Hz TEFC 12 RPM 115 Volt 1.4 Amp

## Optional 50Hz gearmotor:

1/15 H.P. 1 PH 60/50 Hz TEFC 15/12.5 RPM 115/230v 110/220v 1.3/.65 - 1.2/.61 Amp

## Optional Explosion-Proof Motors 50 & 60 Hz:

Note: These are 56 C-Face motors

1/3 H.P. 1 PH 60 Hz EXP. 1725 RPM 56 C-Face 115/208-230 Volt 6 / 3.2 / 3 Amp

1/3 H.P. 3 PH 60 Hz EXP. 1725 RPM 56 C-Face 208-230/460 Volt 1.8 / 1.6 / .8 Amp 1/2 H.P. 3 PH 50 Hz EXP. 1425 RPM 56 C-Face 220/380/440 Volt 2 / 1.2 / 1 Amp

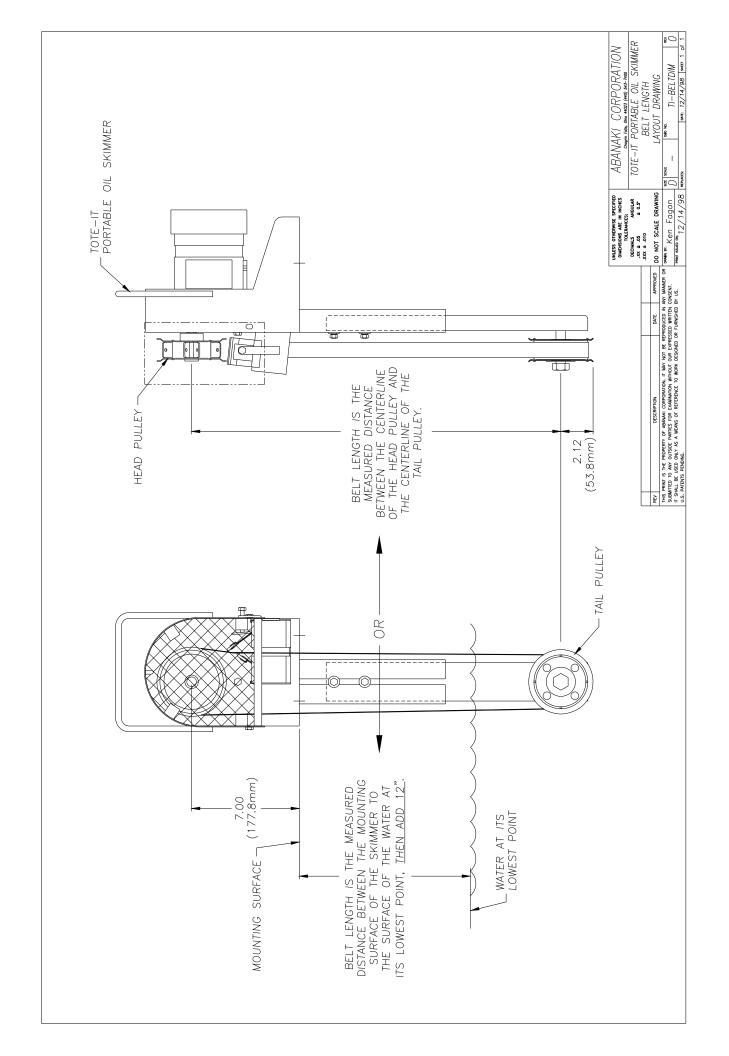
1/2 H.P. 1 PH 50 Hz EXP. 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

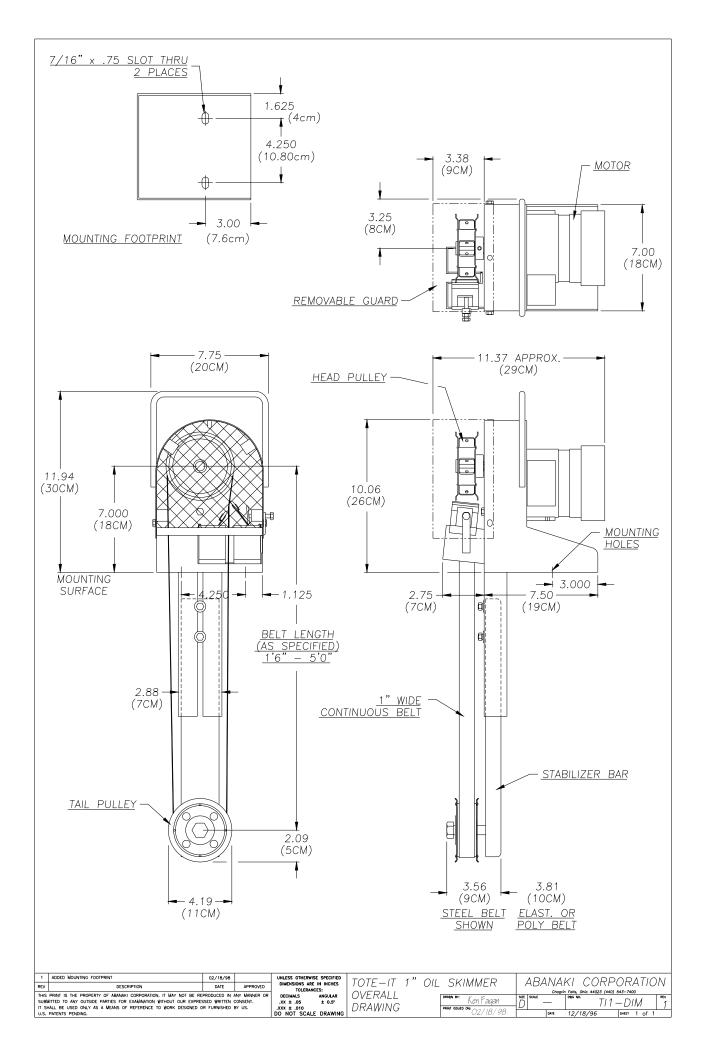
#### Optional 575 Volt Motors

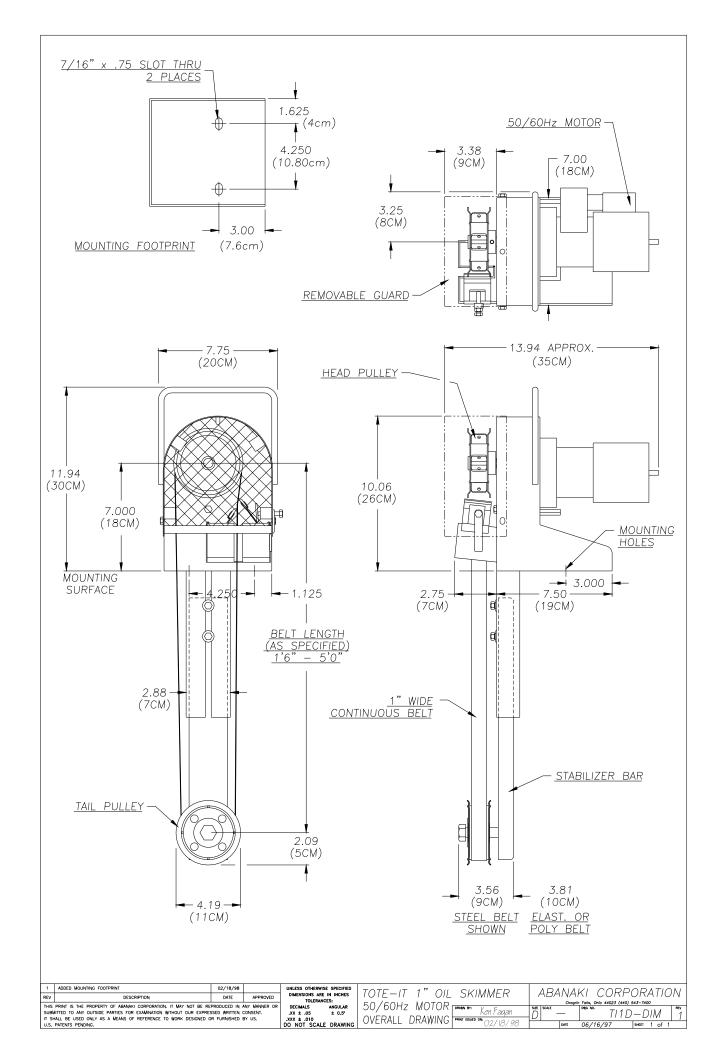
1/3 H.P. 3 PH 60 Hz TEFC 1725 RPM 56 C-Face 575 Volt .64 Amp

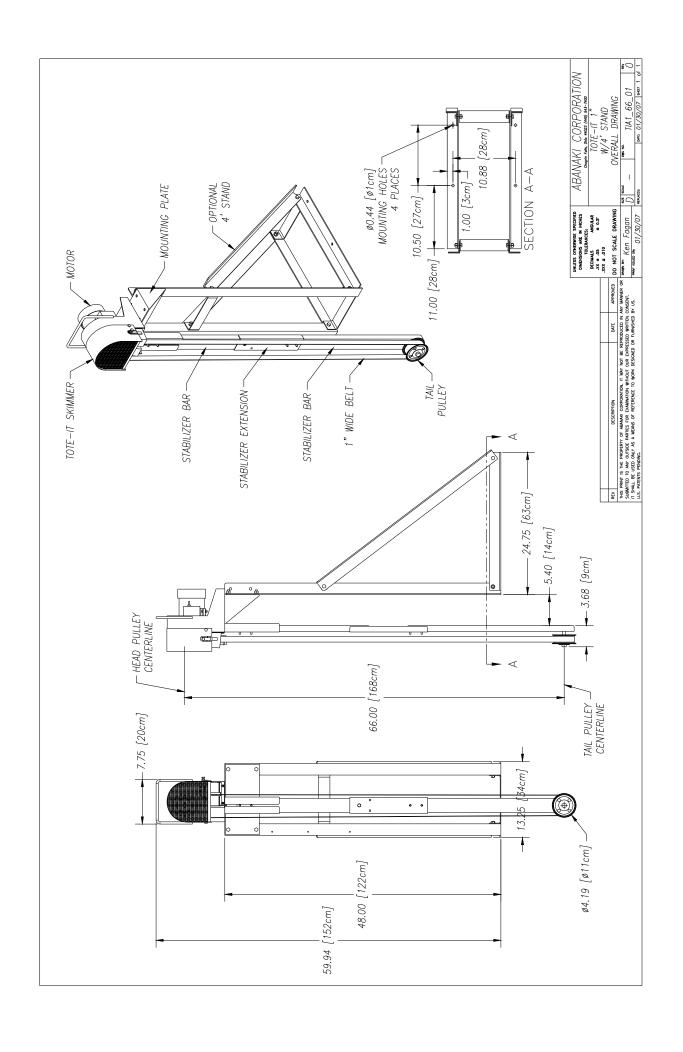
1/2 H.P. 3 PH 60Hz EXP. 1725 RPM 56 C-Face 575 Volt .9 Amp

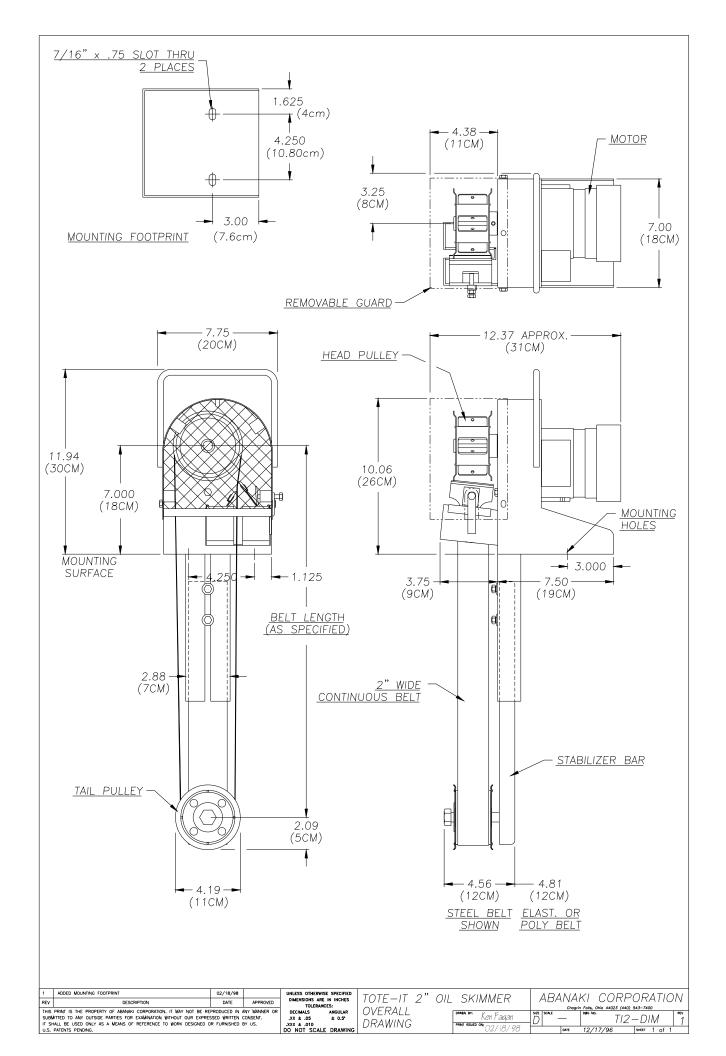
1/2 H.P. 3PH 60Hz TEFC 1725 RPM 56 C-Face 575 Volt .8 Amp

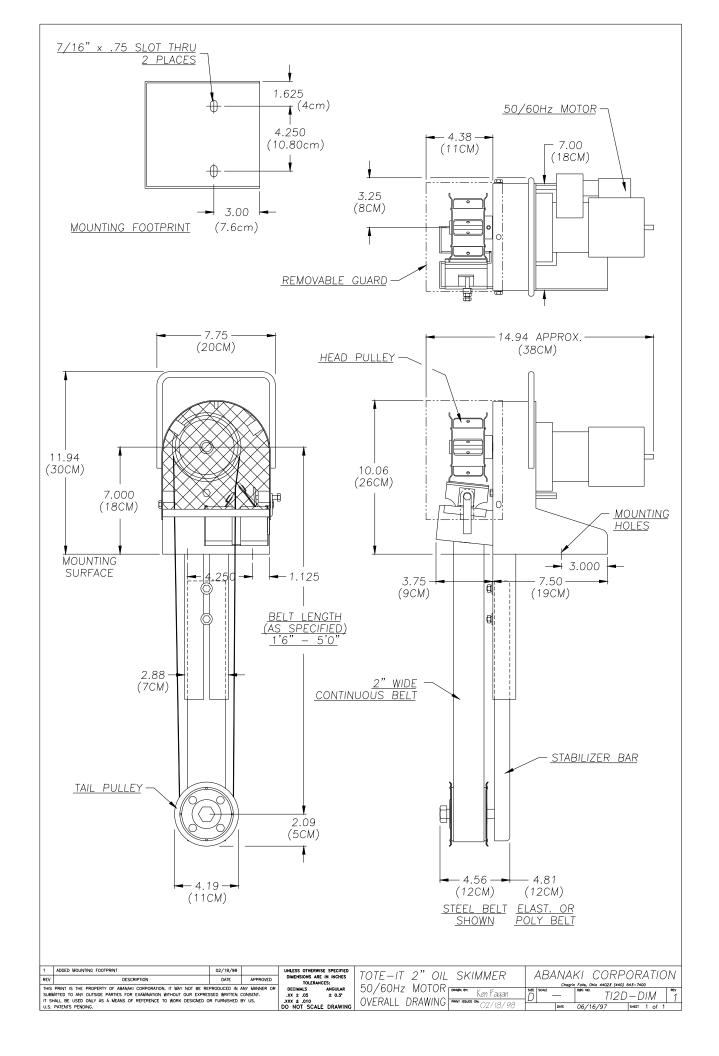


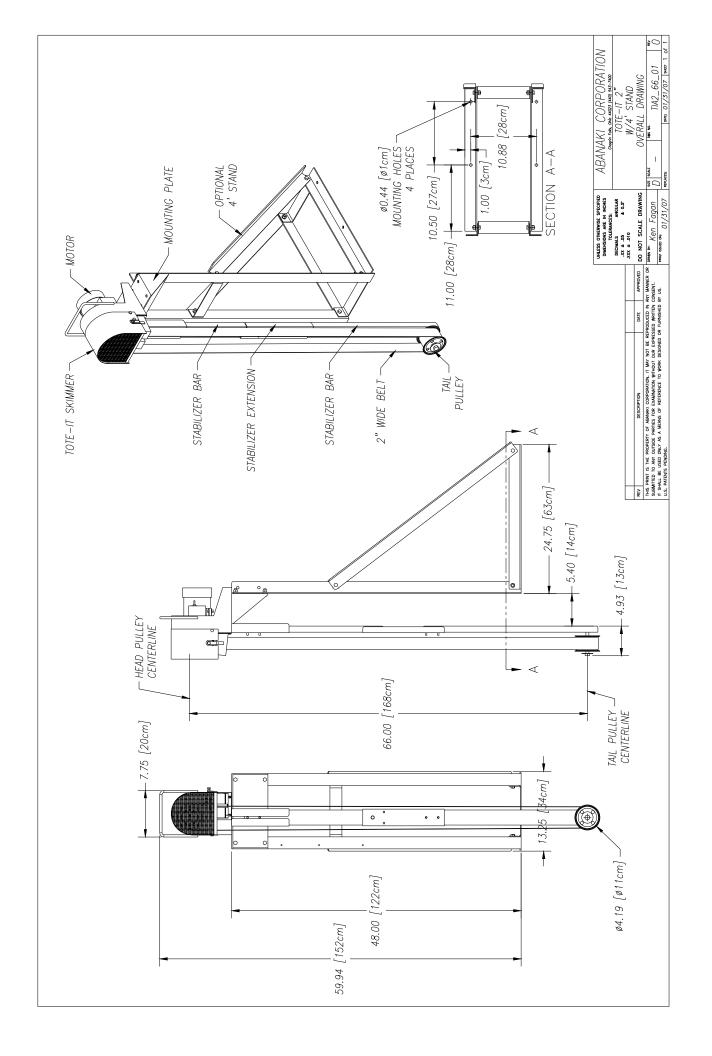


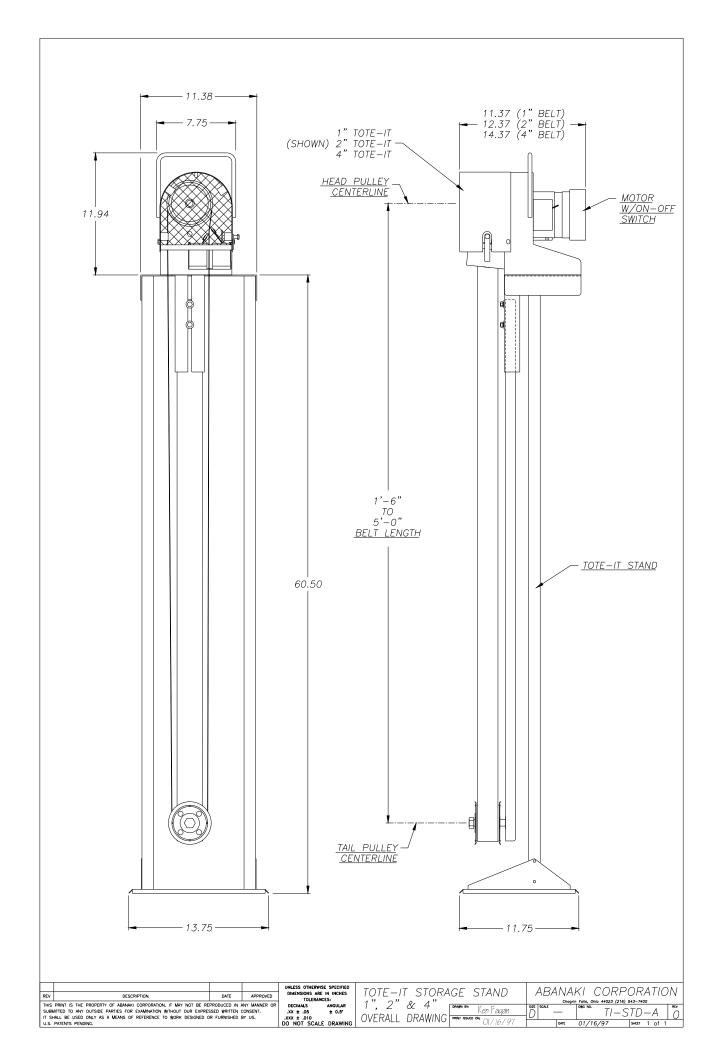


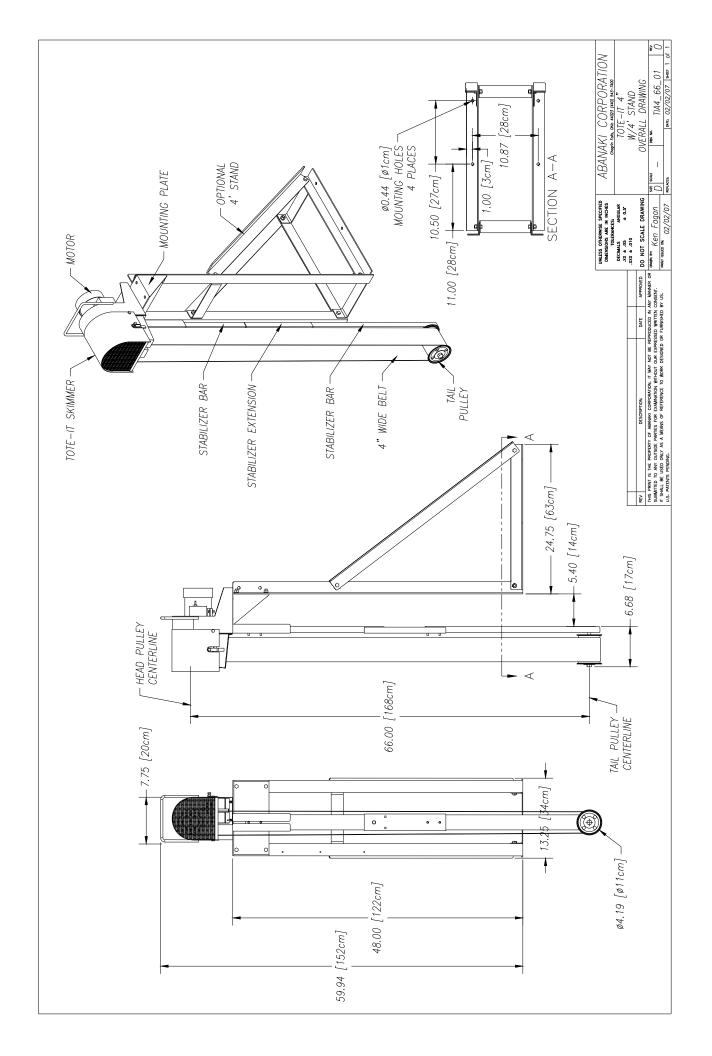


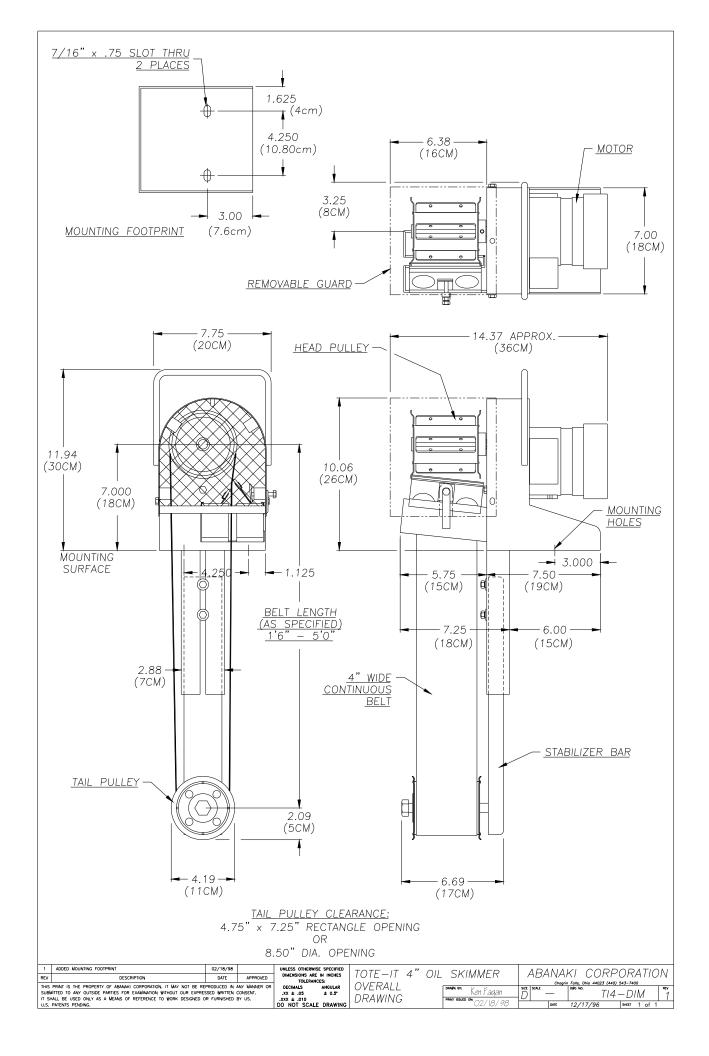


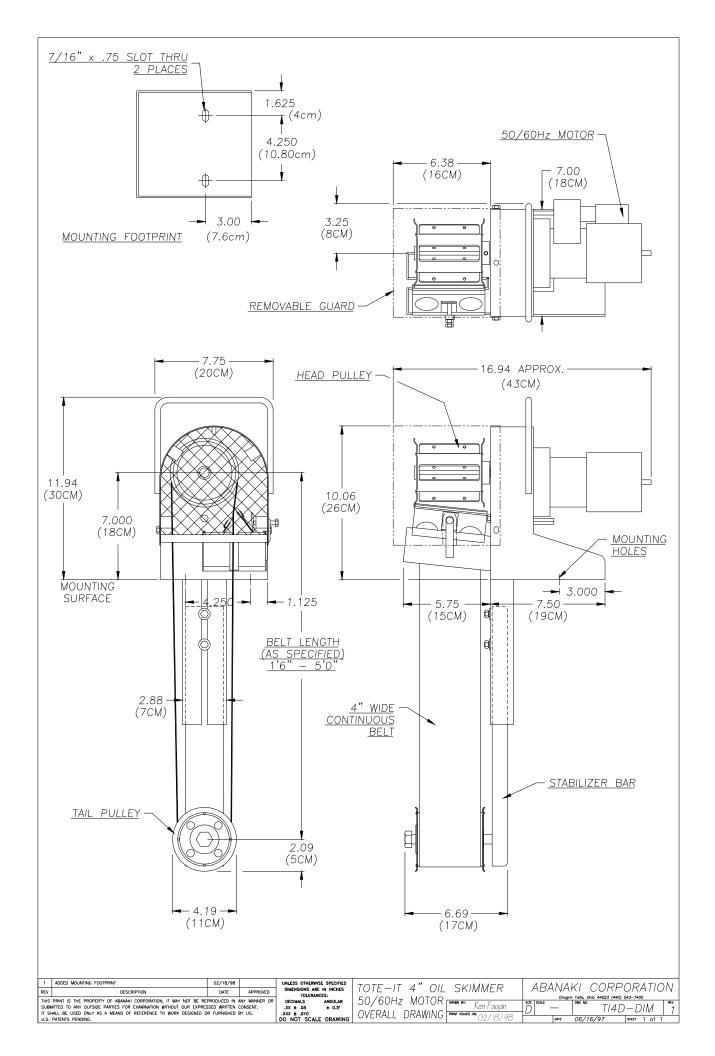


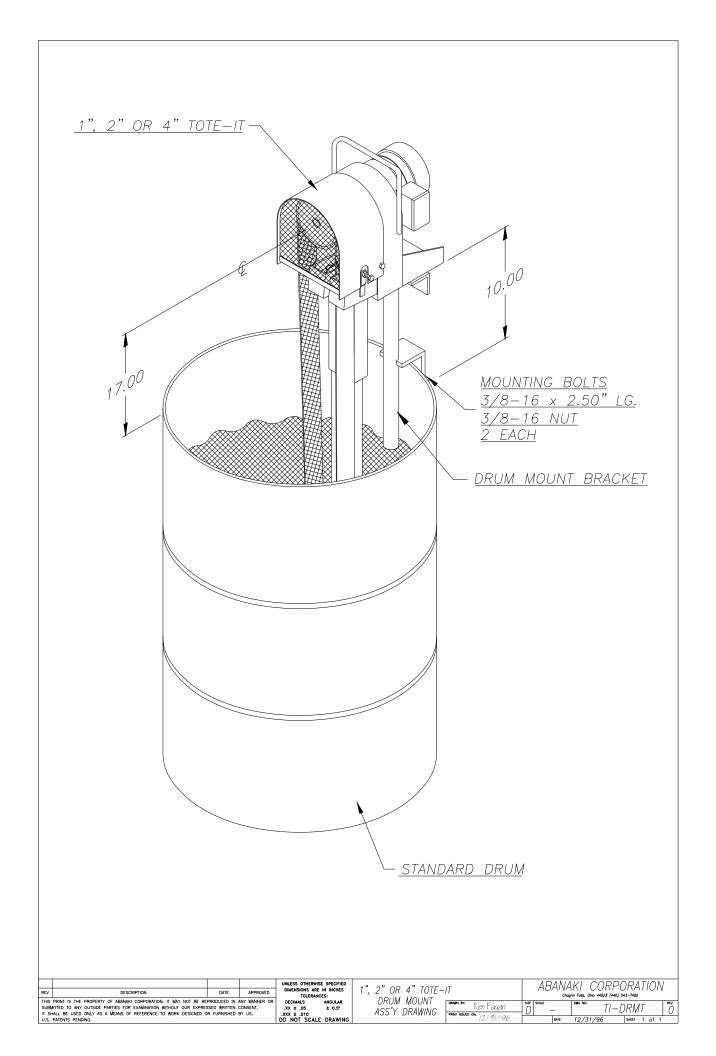












# PetroXtractor®

### Oil Skimming for Wells and Other Small Openings

- Ideal for removal of floating oil and other hydrocarbon liquids from existing recovery or monitoring wells
- Can be installed in well casings as small as 2 in. ID
- Elevates skimmed oil 100 feet or more for easy discharge into 55 gallon drum
- Removes up to 12 gph of oil from water
- Solar power option available
- Can recover everything from coal tar to kerosene

### General Description

The Abanaki PetroXtractor® is a dependable and cost effective means of removing oil, fuel, and other floating hydrocarbons from water where access to the fluid surface is limited. It provides efficient remediation of groundwater contaminated by oil, using existing recovery and monitoring wells. Often, the PetroXtractor® working alone will reduce oil or fuel content to an acceptable EPA level. Models are available for two inch, four inch, and six inch ID well casings, with removal rates up to 12 gph. Depths of 100 feet or more can be accommodated without the use of pumps.

The PetroXtractor® is an oil skimmer that makes use of the differences in specific gravity and surface tension between oil and water. These physical characteristics allow the unit's continuous belt to attract floating oil in the well.

### The PetroXtractor Advantages

- Allows existing monitoring wells to be used as recovery wells
- Portable can be easily hand-carried from well to well
- A single unit separates oil and elevates it up to 100 feet without a pump
- Maintains skimming efficiency with fluctuating water level
- Tail pulley is tethered to the frame to prevent accidental loss of belt and tail pulley in the well casing
- Easy mounting, fast cleaning with minimal maintenance
- Belt materials to fit any application
- Many options available to customize unit for your application





# ABANAKI CORPORATION

17387 Munn Road Chagrin Falls, OH 44023 Phone: (440) 543-7400 Fax: (440) 543-7404 **1-800-358-SKIM (7546)** 

www.abanaki.com



After picking up the oil, the belt travels over the head pulley on the drive unit and through tandem wiper blades. The oil is then scraped off both sides of the belt and discharged through a 1-1/4" ID hose. The unique bearingless design of the tail pulley (immersed in the well water) with its tethered frame allows it to perform three important functions: it keeps proper tension on the belt, prevents accidental loss down the well, and keeps the belt centered in the casing.

The PetroXtractor® can be installed in existing wells by mounting it on a flat surface above the well. Skimmer operation consists of merely lowering the belt and tail pulley into the casing until the pulley is fully immersed, placing the discharge hose in a container, and switching the unit on.

#### Where To Use The PetroXtractor

The PetroXtractor is designed for those applications that have a limited access area and a deep drop between the mounting surface and the surface of the liquid. The unit can be used anywhere electric power, compressed air, or 12VDC is available. Vapor tight enclosures, explosion proof, or pneumatic motors are available for areas where combustible fumes may be present.



PetroXtractor in optional Poly-Shelter

### Key Features of the PetroXtractor

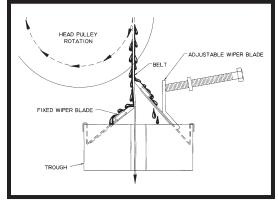
- Small mounting and operating area
- Chip resistant finish
- Customized belt lengths and materials
- Easily mounted on flat surface
- Belt and wipers impervious to oils and fuels
- Weighted and tethered tail pulley
- Fast cleaning with minimal maintenance
- Can be customized to application needs
- Solar powered units available

## Rugged Construction for Harsh Conditions

The PetroXtractor will provide many years of trouble-free service. A tough power train keeps the PetroXtractor running under the most severe conditions.

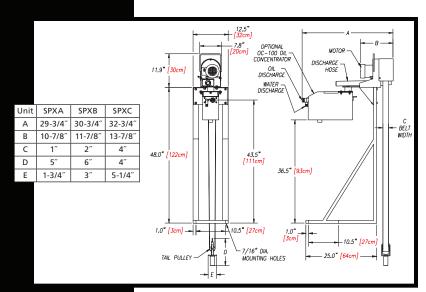


**Tail Pulley Detail** 

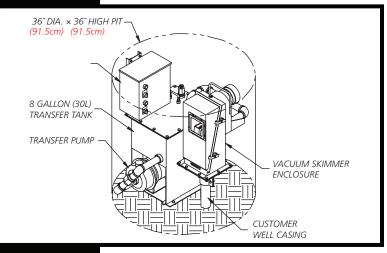


Wiper Blade Detail

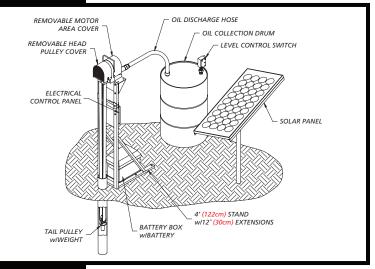
# PetroXtractor®



#### **Installation Dimensions**



**Optional Below Grade Mounting Kit** 



**Applications** 

- Groundwater monitoring wells
- · Recovery wells
- Leaky underground tanks
- · Limited access areas
- Below grade vaults/manholes
- Explosive environments
- Recovering DNAPL or LNAPL
- Remote locations--solar power

#### Abanaki's Oil Concentrators®

The Oil Concentrator® is an option available on all ABANAKI oil skimmers. Under most operating conditions ABANAKI oil skimmers will pick up oil with less than 5% water. But as surface oil is reduced to a thin layer (1/16 to 1/8 inch thick), more water or coolant may also be picked up along with the oil. When used in tandem with the oil skimmer, an Oil Concentrator will solve this problem, and provides virtually complete oil/water separation, saving money and improving the efficiency of the skimmer.

Based on the principle of gravity separation, the Oil Concentrator uses no electricity, timers, sensors, pumps, or other moving parts. The Oil Concentrator sits behind the skimmer and receives its discharged oil. The unit comes complete with a mounting bracket, removable sludge screen and a drain plug to ease clean up. For higher viscosity oils or low temperature applications, a thermostatically controlled heater is available as an option.



**Optional Solar Unit Power** 

Optional equipment shown in some views.

#### WELL OIL SKIMMER

# PetroXtractor\*

Abanaki has thousands of skimmers installed worldwide at leading companies such as...

American Cyanamid **Armstrong World Industries** 

Bethlehem Steel Boeina

**Bureau of Reclamation** 

Caterpillar Chevron Clean Harbors Corning Dow Chemical

Eaton Flying J Ford Motor **General Electric** 

IT Corp. **Henry Filters**  Industrial Environmental

**Products** John Deere Kaiser Aluminum Kemron Environmental McLaren Hart

Monroe Auto Equipment New York Power Authority

Nissan Motor **Outboard Marine** 

TRW

**United Airlines US** Gypsum

**US Repeating Arms USS Great Lakes Fleet** U.S. Army Corp. of Engrs. Westinghouse Electric

### Other Oil Skimming Products From Abanaki

#### Model 82°

For Most Applications Single 8-inch wide belt (20.3 cm) Any length belt

Capacity: 40 GPH (151.4 LPH)

#### Model MB®

For High Volume Two to five 8-inch belts (20.3 cm) Any length belts Capacity: to 200 GPH (757.1 LPH)

#### Tote-It® Portable

Portable for Moderate Capacity Applications Single belt: 2-inch or 4-inch (5.1 or 10.2 cm) Belt length: 1'- 6" to 5'-0" (45.2 to 152.4 cm) Capacity: 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt) 12 GPH - 4" belt (22.7 LPH - 10.2 cm belt)

#### Mighty Mini®

Small Applications (Parts Washers, CNC Machines, 55 Gal. Drums)

Single belt: 1-inch or 2-inch (25.4 or 50.8 mm) Belt length: 6", 12", 18", 24" (153, 305, 458, 610 mm)

1 GPH - 1" belt (3.81 LPH) 2 GPH - 2" belt (5.71 LPH) Capacity:

### Specifications

Oil Removal

Model PX-A: 3 gph (11 lph) with 1 in.(2.5 cm)

Model PX-B: 6 gph (23 lph) with 2 in.(5 cm)

wide belt

Model PX-C: 12 gph (45 lph) with 4 in.(10 cm)

(Removal rate is based on 30 weight oil or

gasoline in water.)

Fractional hp TEFC, 115VAC, single phase, 60

Hz gear motor, including 8 foot cord with

electrical plug

Optional: 50 Hz; 3-phase; explosion proof;

12VDC or pneumatic

**Belt Width** (Specify)

Motor

PX-A (1 in. (2.5 cm) for 2 in. (5 cm) ID casing PX-B (2 in. (5 cm)) for 4 in. (10 cm) ID casing

PX-C (4 in. (10 cm)) for 6 in. (15 cm) ID casing

**Belt Material** 

Specify specially engineered polymer or LFO (Fuzzy) Poly. When in doubt, consult factory for advice on the best belt for your

application.

Wiper Material

**UHC** or Ceramic

Mounting Method

Flat base mount with oil discharge through a

1-1/4 in. (3.1cm) ID hose

**Mounting Area** 

See installation drawing or ask factory rep for

more info.

Weights1 Complete assembly without tail pulley or belt:

> Model PX-A: 30 lbs. (13.6 Kg.) Model PX-B: 31 lbs. (14 Kg.) Model PX-C: 38 lbs. (17 Kg.) PX-A Tail pulley: 2 lbs. (1.3 Kg.) PX-B Tail Pulley: 3 lbs. (2.7 Kg.) PX-C Tail Pulley: 4.5 lbs. (4.1 Kg.)

**Options** (Specify) · Above-ground mounting stand

• Stainless steel construction

Solar power available

• On-Off float switches to fit 3/4 in.(1.8 cm) bung of discharge drum. (Available in standard or explosion proof.)

• Oil Concentrator® for virtually water-free oil discharge. (Available in standard or explosion proof.)

 Reinforced poly-shelters for protection of skimmer

 24 hour timer to start/stop PetroXtractor at specified intervals (standard or explosion

Vapor tight enclosures

• Below grade transfer package

• Heaters for cold climates or thick product

• Stabilizer rods for DNAPL or heavy product.

• For unique applications consult factory rep to customize.

Specification Notes:

1. The PetroXtractor is UPS shippable.

2. Consult factory for recommendations covering operating conditions not listed

3. Must provide own wiring on explosion



### DIL SKIMMERS

USA: 17387 Munn Road • Chagrin Falls, Ohio 44023

0117 9616679 • FAX: 0117 9616687

800-358-SKIM (7546) • (440) 543-7400 • FAX: (440) 543-7404 UK: Unit 13 • Avondale Business Centre • Woodland Way • Bristol BS15 1AW

www.abanaki.com

### PetroXtractor® Well Oil Skimmer: 1", 2", 4" Belts

#### Quick Summary:

For oil removal applications requiring access through a 2", 4" or 6" well casing, the PetroXtractor offers a versatile solution. Capable of skimming hydrocarbon contaminants from your well, the PetroXtractor can be configured for both a permanent or portable skimming system. With many available mounting arrangements, the PetroXtractor can be mounted nearly anywhere as a complete system or as a stand alone unit. For remote locations or special demands, alternative power requirements and shelters are available. Also available, the PetroXtractor can be mounted underground in a manway, or above ground in a vapor tight enclosure.

#### <u> Highlights:</u>

- 1. The 1", 2" or 4" continuous belt is available in center to center lengths of up to 110 feet.
- 2. Oil discharge is through a 1-1/4" N.P.T. coupling.
- 3. Weighted P.V.C. tail pulley is designed to retain belt.
- 4. Fan-cooled fractional horsepower gear motor.
- 5. A special non-abrasive, non-impact drive system, which adds to belt life
- 6. Choice of two different belt materials: LFO "Fuzzy" and Poly.



STANDARD MOTOR

OPTIONAL MOTOR

CAP. GAL.	MODEL	BELT WIDTH	BELT LENGTH	RPM AMPS	VOLTS Hz	PHASE	AIR MOTOR	D.C. MOTOR
3	PX-A	1"	Up to 100 ft.	30 RPM 1.4A	115 60Hz	1 PH	OPT.	OPT.
6	PX-B	2"	Up to 100 ft.	30 RPM 1.4A	115 60Hz	1 PH	OPT.	OPT.
12	PX-C	4"	Up to 100 ft.	30 RPM 1.4A	115 60Hz	1 PH	OPT.	OPT.

#### Notes:

- Motors: Additional motors, including explosion proof, are available per customer specification. See motor spec sheet for complete listing of motors.
- 2. Any listed motor may be used with adapter to gear reducer.
- 3. Gear Reducers: Various ratios are available upon request, per customer specification. Consult factory for more information.
- 4. Variable speed control: If air is available, it is the most practical & cost efficient. Variable speed electric's can be furnished, but can be cost prohibitive.
- 5. Always consult the factory for special applications.

### PetroXtractor® PX-A

### Skimmer Specification Sheet

#### PART 1: GENERAL

#### 1.01 Construction

- 1. Solid welded carbon steel with a baked on powder coat finish. (except as specified below)
- 2. Color: RAL5005 or equivalent (Dark Blue).
- 3. Optional: 316 Stainless Steel

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Head Pulley with nitrile lagging.
  - B. Additional traction wheel with viton band.
- 2. Tail Pulley
  - A. P.V.C. housing and pulley; cage type housing with weight per application.

#### 1.03 Motor

1. 1/20H.P. 115 Volt, 60Hz. @ 30 RPM 1.4 Amp shaded pole gear motor, TEFC <u>U.L.</u> and <u>C.S.A.</u> approved.

#### 1.04 Guard

1. Standard steel drive pulley area cover, bolt in place.

#### 1.05 Belt Material and Length

- 1. Standard Material (1" wide): choice of LFO "Fuzzy" or Poly.
- 2. Length: As required up to 110'.

#### 1.06 Wiper Blades

- 1. Standard Material: Hybrid.
  - A. Adjustable wiper: screw type for tensioning, with single wiper insert.
  - B. Fixed: in place to center belt, with single wiper insert.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a single 1-1/4" N.P.T. coupling.

#### 1.08 Standard Mounting Arrangement

1. Two 7/16" clearance holes for mounting on flat surface.

#### 1.09 Weight and Size

- 1. Weight of unit with gear motor is 34 lbs. for 1" unit.
- 2. Overall size of unit: 11-3/8"L x 7-3/4"W x 12"H

#### 1.10 Mounting Requirements

- 1. Pipe opening size for Tail Pulley: 2" well casing minimum.
- 2. Minimum Mounting Height: 12" from base to top of skimmer.

#### 1.11 Power Requirements

- 1. 3 prong grounded outlet. Unit comes with 8' cord for standard motor configuration.
- 2. Optional motors, e.g. explosion proof, are to be hard wired.

#### 1.12 Optional Mounting Arrangements

- 1. PetroXtractor Stand: 48" tall, for mounting any skimmer, OC-110 Concentrator, and other optional equipment.
- 2. Drum mount, for operating skimmer and one OC-110 Concentrator on a 55 gallon drum.
- 3. Below grade mounting in manway.
- 4. Vapor Tight Enclosure well skimmer system.

Phone: 1-800-358-SKIM Fax: (440) 543-7404

### PetroXtractor® PX-B

### Skimmer Specification Sheet

#### PART 1: GENERAL

#### 1.01 Construction

- 1. Solid welded carbon steel with a baked on powder coat finish. (except as specified below)
- 2. Color: RAL5005 or equivalent (Dark Blue).
- 3. Optional: 316 Stainless Steel

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Head Pulley with nitrile lagging.
  - B. Additional traction wheel with viton band.
- Tail Pulley
  - A. P.V.C. housing and pulley; cage type housing with weight per application.

#### 1.03 Motor

1. 1/20 H.P. 115 Volt, 60Hz. @ 30 RPM 1.4 Amp shaded pole gear motor, TEFC <u>U.L. and C.S.A.</u> approved.

#### 1.04 Guard

1. Standard steel drive pulley area cover, bolt in place.

#### 1.05 Belt Material and Length

- 1. Standard Material (2" wide): choice of LFO "Fuzzy" or Poly.
- 2. Length: As required up to 110'.

#### 1.06 Wiper Blades

- 1. Standard Material: Hybrid.
  - A. Adjustable wiper: screw type for tensioning, with single wiper insert.
  - B. Fixed: in place to center belt, with single wiper insert.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a single 1-1/4" N.P.T. coupling.

#### 1.08 Standard Mounting Arrangement

1. Two 7/16" clearance holes for mounting on flat surface.

#### 1.09 Weight and Size

- 1. Weight of unit with gear motor is 34 lbs. for 2"
- 2. Overall size of unit: 12-3/8"L x 7-3/4"W x 12"H

#### 1.10 Mounting Requirements

- 1. Pipe opening size for Tail Pulley: 4" well casing minimum
- 2. Minimum Mounting Height: 12" from base to top of skimmer.

#### 1.11 Power Requirements

- 1. 3 prong grounded outlet. Unit comes with 8' cord for standard motor configuration.
- 2. Optional motors, e.g. explosion proof, are to be hard wired.

#### 1.12 Optional Mounting Arrangements

- 1. PetroXtractor Stand: 48" tall, for mounting any skimmer, OC-110 Concentrator, and other optional equipment.
- 2. Drum mount, for operating skimmer and one OC-110 Concentrator on a 55 gallon drum.
- 3. Below grade mounting in manway.
- 4. Vapor Tight Enclosure well skimmer system.

Phone: 1-800-358-SKIM Fax: (440) 543-7404

### PetroXtractor® PX-C

### Skimmer Specification Sheet

#### PART 1: GENERAL

#### 1.01 Construction

- 1. Solid welded carbon steel with a baked on powder coat finish. (except as specified below)
- 2. Color: RAL5005 or equivalent (Dark Blue).
- 3. Optional: 316 Stainless Steel

#### 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Head Pulley with nitrile lagging.
  - B. Additional traction wheel with viton band.
- 2. Tail Pulley
  - A. P.V.C. housing and pulley; cage type housing with weight per application.

#### 1.03 Motor

1. 1/20 H.P. 115 Volt, 60Hz. @ 30 RPM 1.4 Amp shaded pole gear motor, TEFC <u>U.L. and C.S.A.</u> approved.

#### 1.04 Guard

1. Standard steel drive pulley area cover, bolt in place.

#### 1.05 Belt Material and Length

- 1. Standard Material (4" wide): choice of LFO "Fuzzy" or Poly.
- 2. Length: As required up to 110'.

#### 1.06 Wiper Blades

- 1. Standard Material: Hybrid.
  - A. Adjustable wiper: screw type for tensioning, with single wiper insert.
  - B. Fixed: in place to center belt, with single wiper insert.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a single 1-1/4" N.P.T. coupling.

#### 1.08 Standard Mounting Arrangement

1. Two 7/16" clearance holes for mounting on flat surface.

#### 1.09 Weight and Size

- 1. Weight of unit with gear motor is 36 lbs. for 4"
- 2. Overall size of unit: 14-3/8"L x 7-3/4"W x 12"H

#### 1.10 Mounting Requirements

- Pipe opening size for Tail Pulley: 6" well casing minimum.
- 2. Minimum Mounting Height: 12" from base to top of skimmer.

#### 1.11 Power Requirements

- 1. 3 prong grounded outlet. Unit comes with 8' cord for standard motor configuration.
- 2. Optional motors, e.g. explosion proof, are to be hard wired.

#### 1.12 Optional Mounting Arrangements

- 1. PetroXtractor Stand: 48" tall, for mounting any skimmer, OC-110 Concentrator, and other optional equipment.
- 2. Drum mount, for operating skimmer and one OC-110 Concentrator on a 55 gallon drum.
- 3. Below grade mounting in manway.
- 4. Vapor Tight Enclosure well skimmer system.

Phone: 1-800-358-SKIM Fax: (440) 543-7404

Spec:0504045-4

## Electric Motor List

## PetroXtractor®:1", 2", 4" Belt Units

#### Standard gear motor 60 Hz:

1/20 H.P. 1 PH 60 Hz TEFC 30 RPM 115 Volt 1.4 Amp

#### Optional 50Hz gear motor:

1/15 H.P. 1 PH 60/50 Hz TEFC 15/12.5 RPM 115/230 - 110/220 Volt 1.3/.65 - 1.2/.61 Amp

## Optional Explosion-Proof Motors 50 & 60 Hz: Note: These are 56 C-Face motors

Note: These are 56 C-Face motors

1/3 H.P. 1 PH 60 Hz EXP. 1725 RPM 56 C-Face 115/208-230 Volt 6 / 3.2 / 3 Amp

1/3 H.P. 3 PH 60 Hz EXP. 1725 RPM 56 C-Face 208-230/460 Volt 1.8 / 1.6 / .8 Amp 1/2 H.P. 3 PH 50 Hz EXP. 1425 RPM 56 C-Face 220/380/440 Volt 2 / 1.2 / 1 Amp

1/2 H.P. 1 PH 50 Hz EXP. 1425 RPM 56 C-Face 110/220 Volt 7.2 / 3.6 Amp

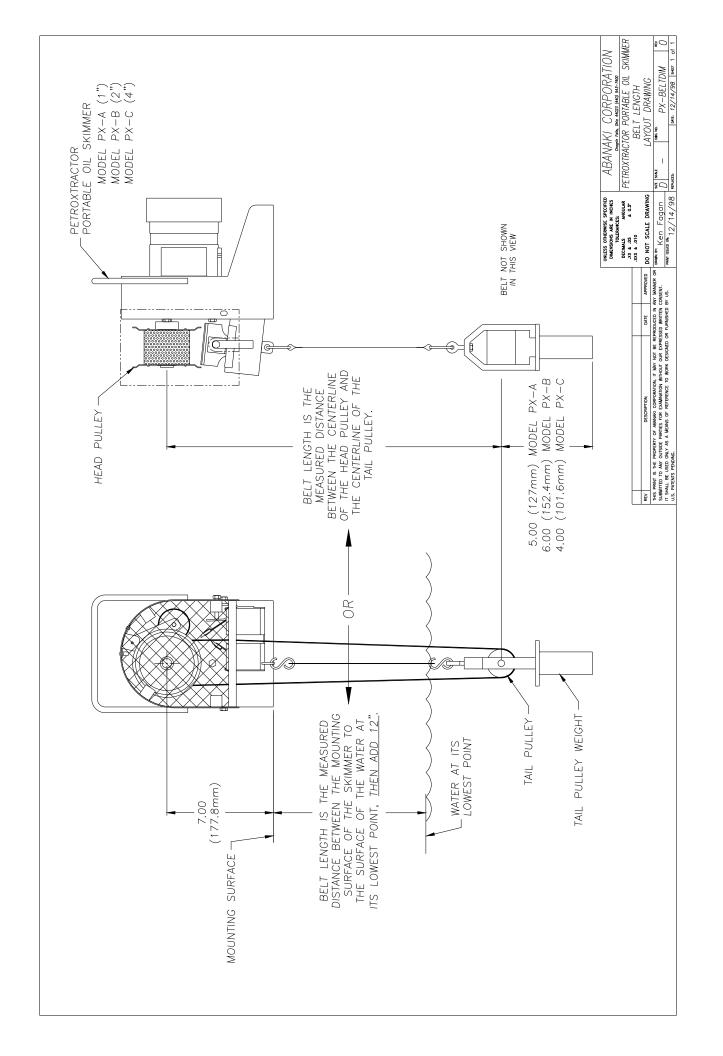
#### Optional 575 Volt Motors

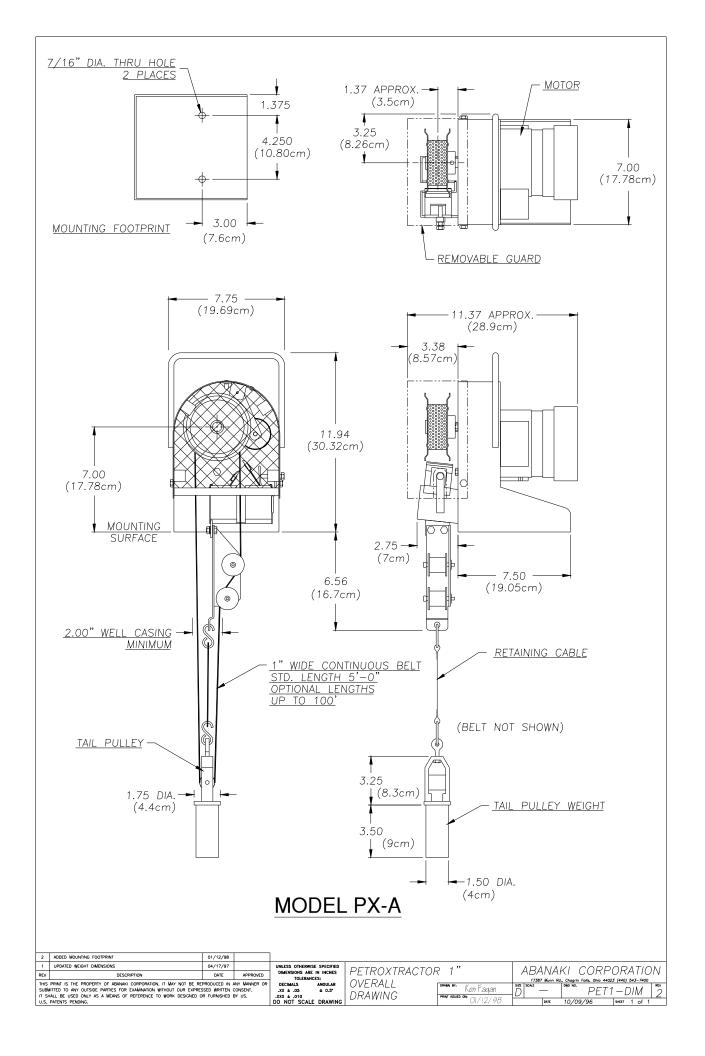
1/3 H.P. 3 PH 60 Hz TEFC 1725 RPM 56 C-Face 575 Volt .64 Amp

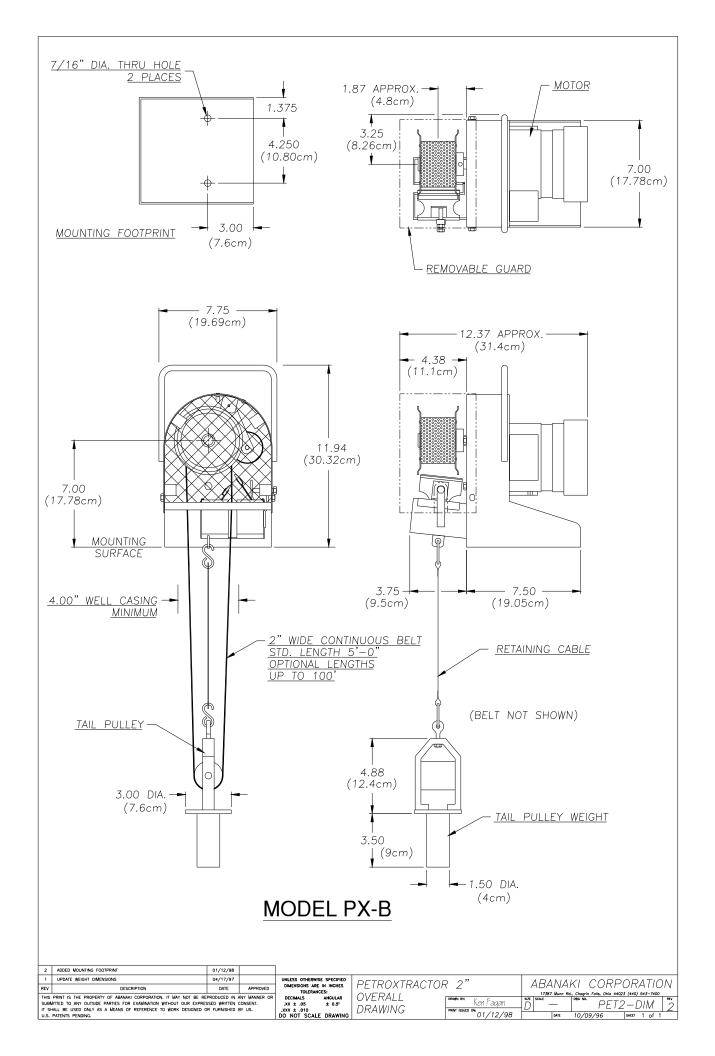
1/2 H.P. 3 PH 60Hz EXP. 1725 RPM 56 C-Face 575 Volt .9 Amp

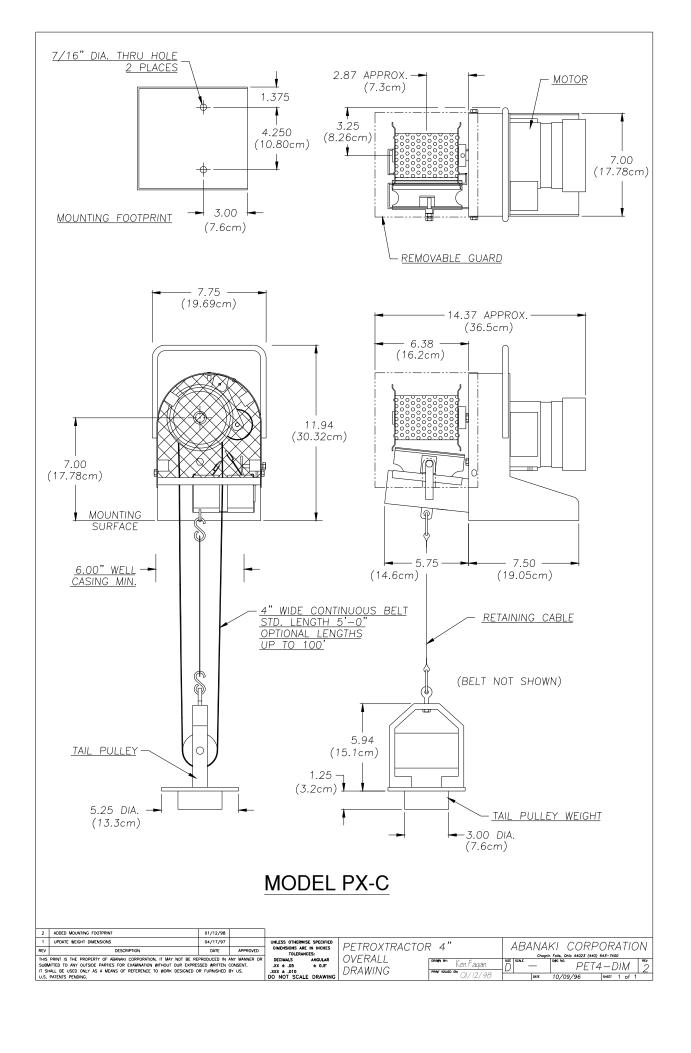
1/2 H.P. 3PH 60Hz TEFC 1725 RPM 56 C-Face 575 Volt .8 Amp

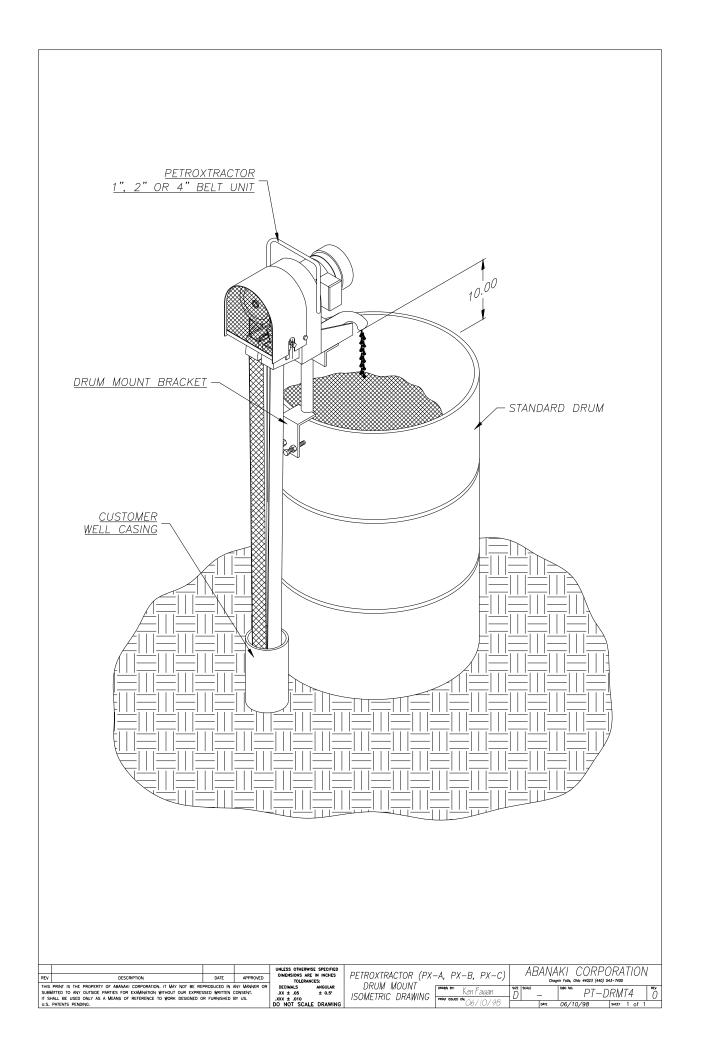
• Gear Reducers: Various ratios are available upon request, per customer specification. Consult factory for more information. Some of the available ratios are 50:1, 75:1, 150:1, 300:1.

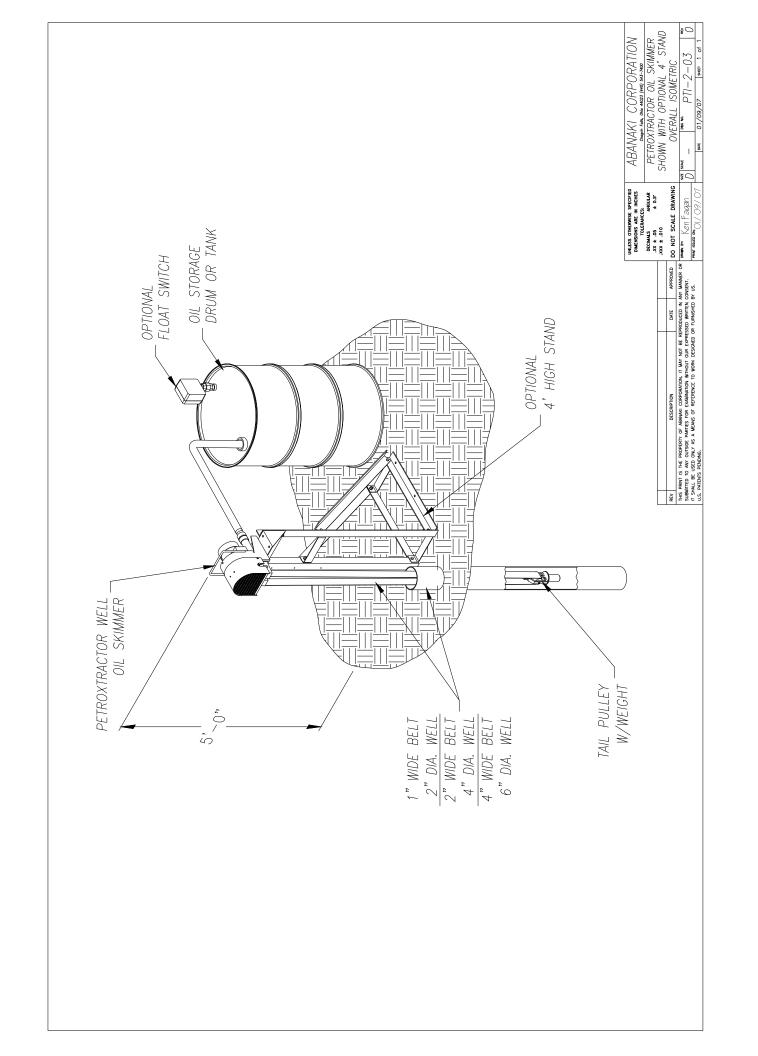


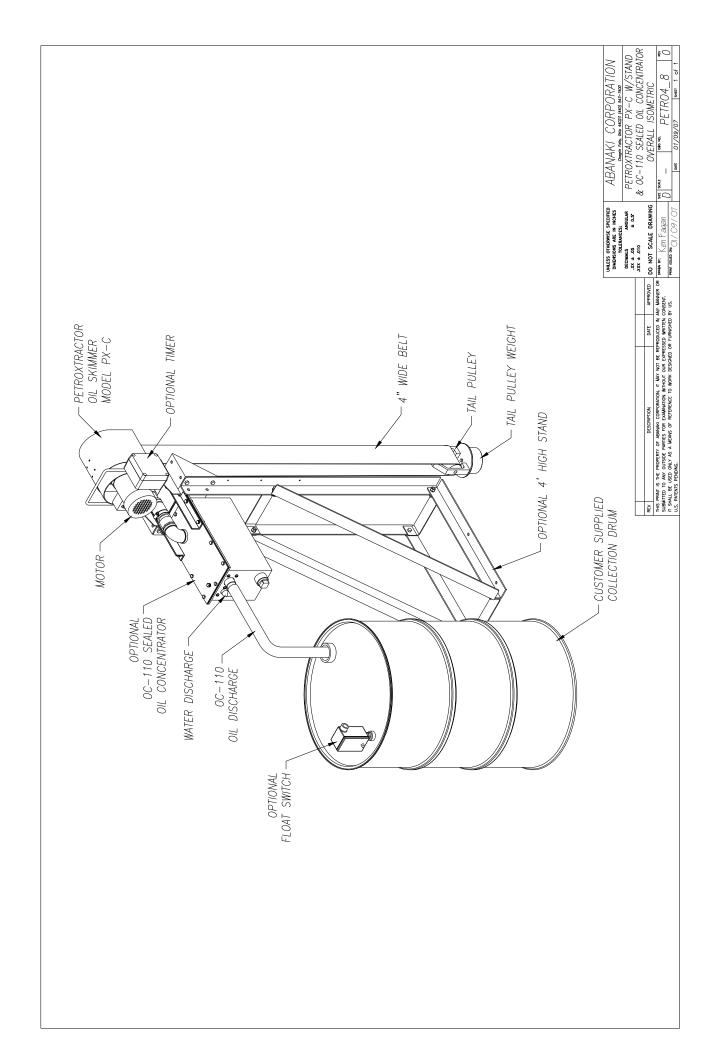


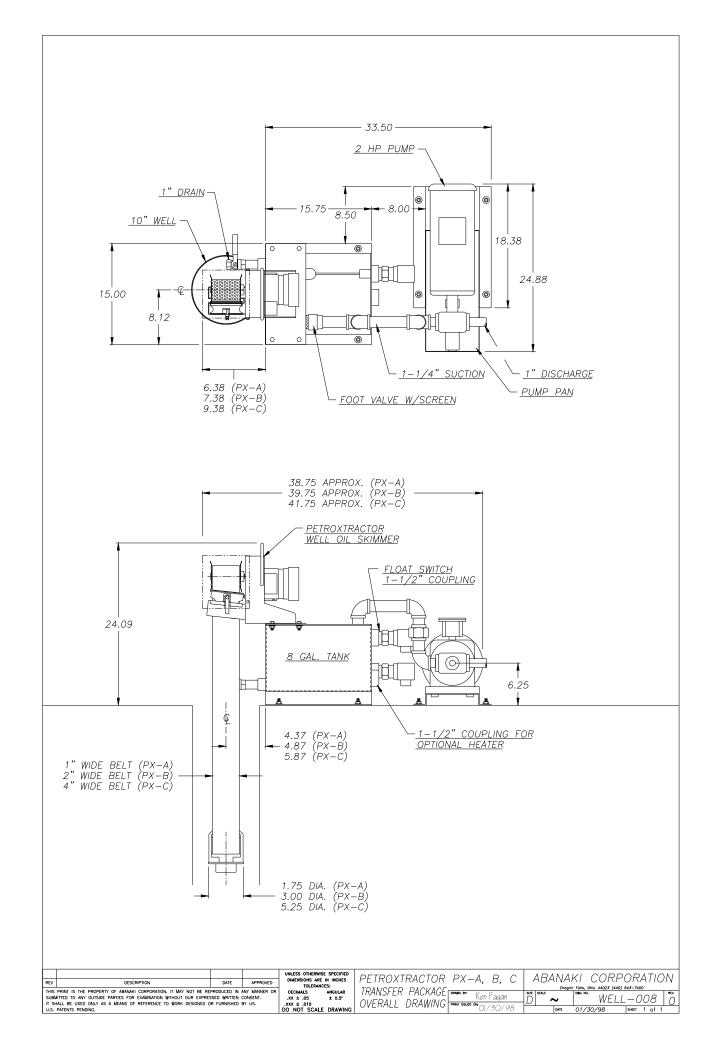


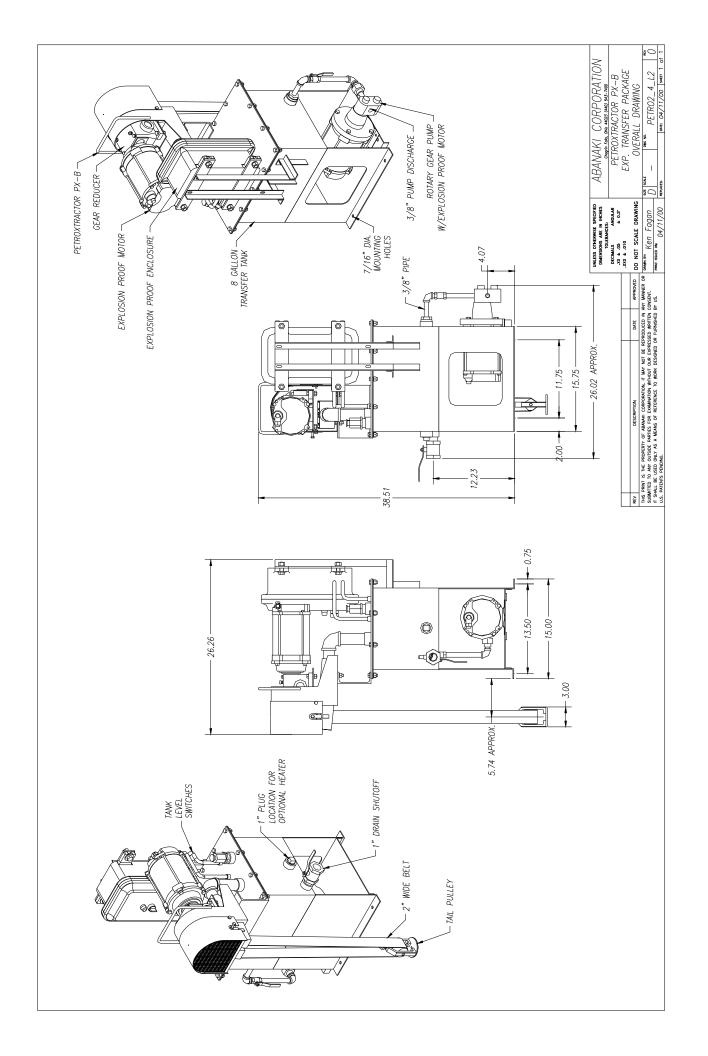


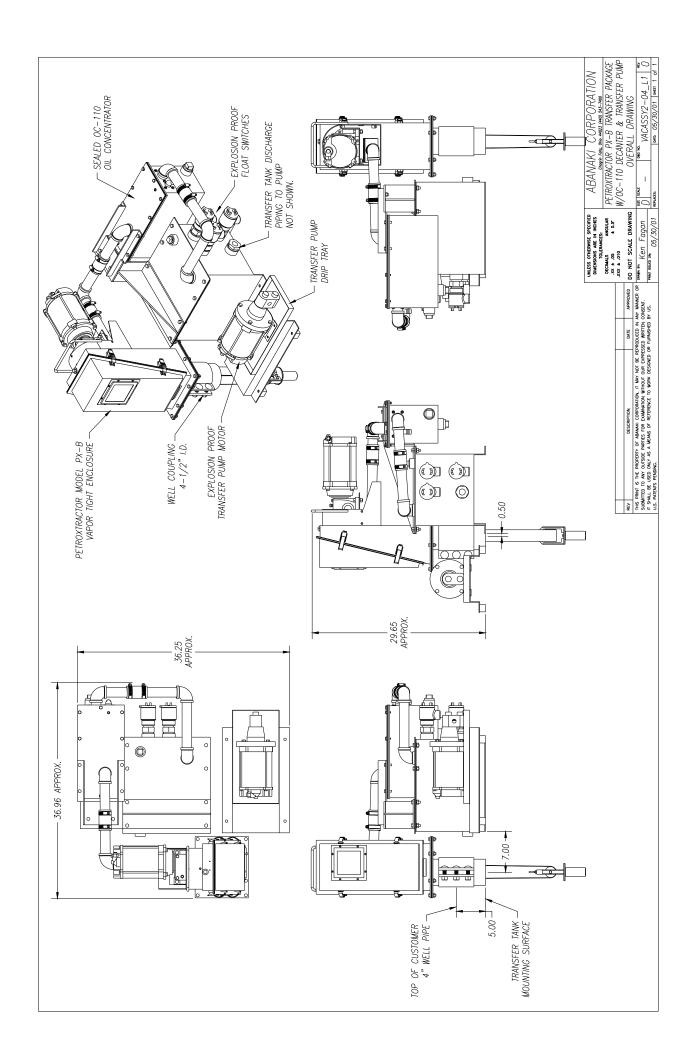


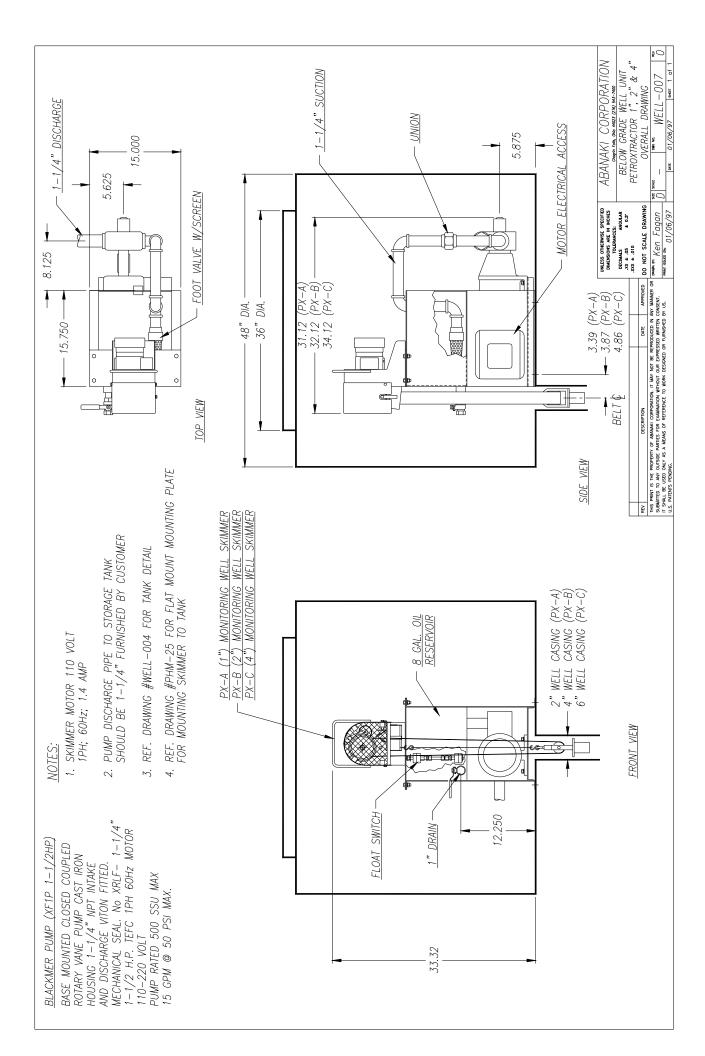


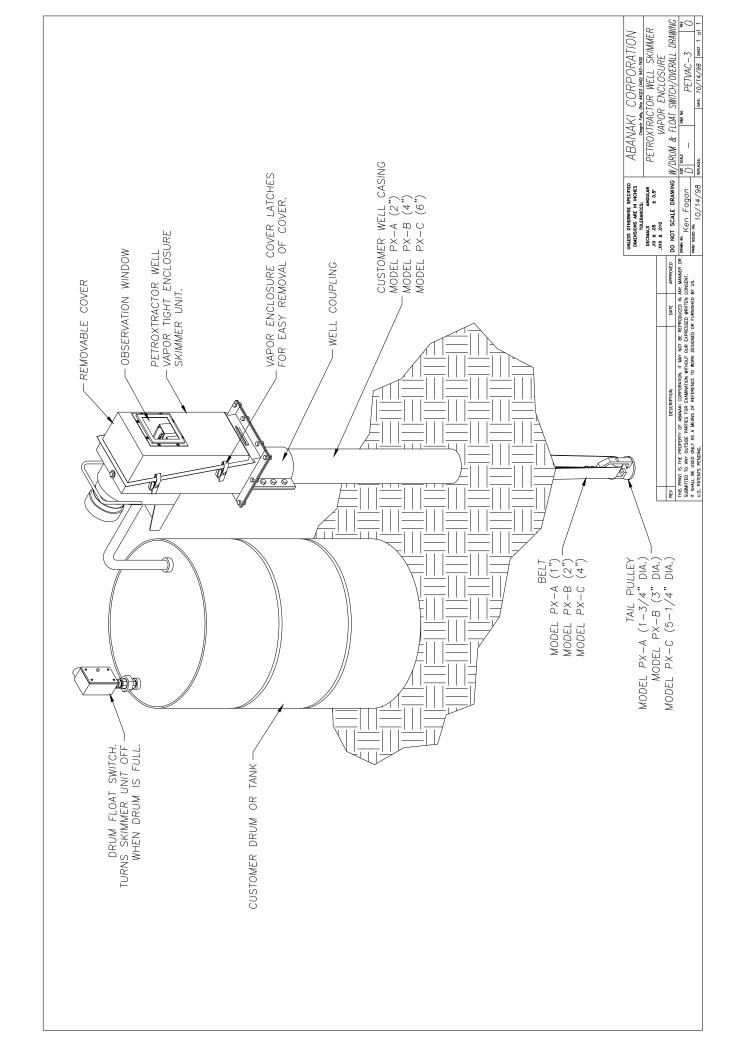


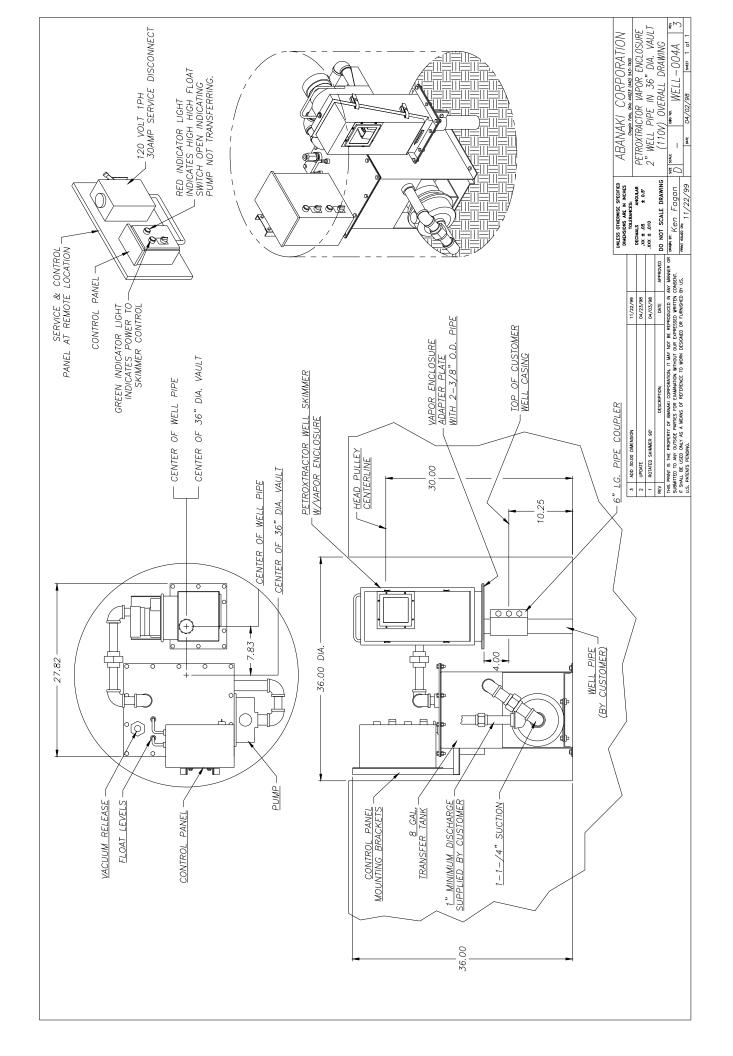


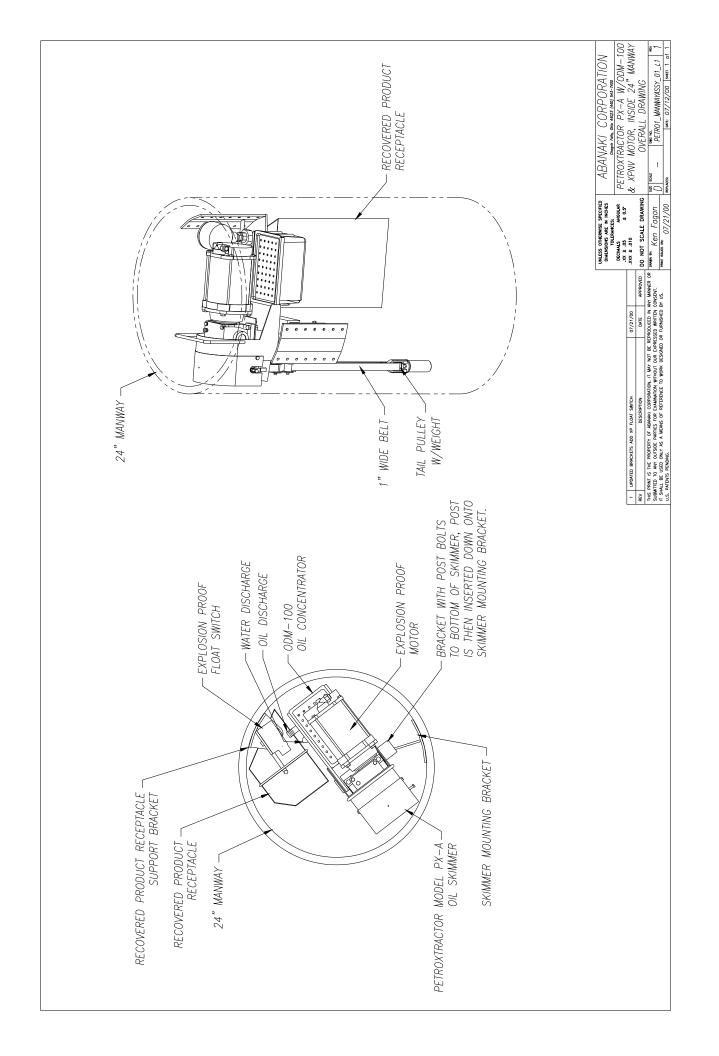


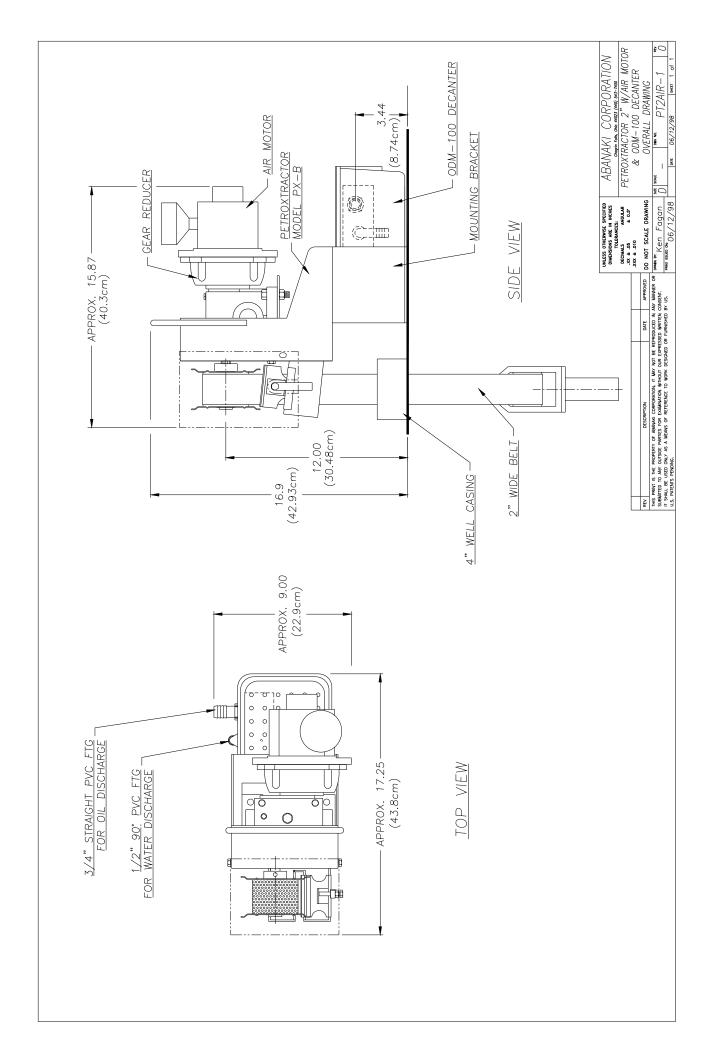


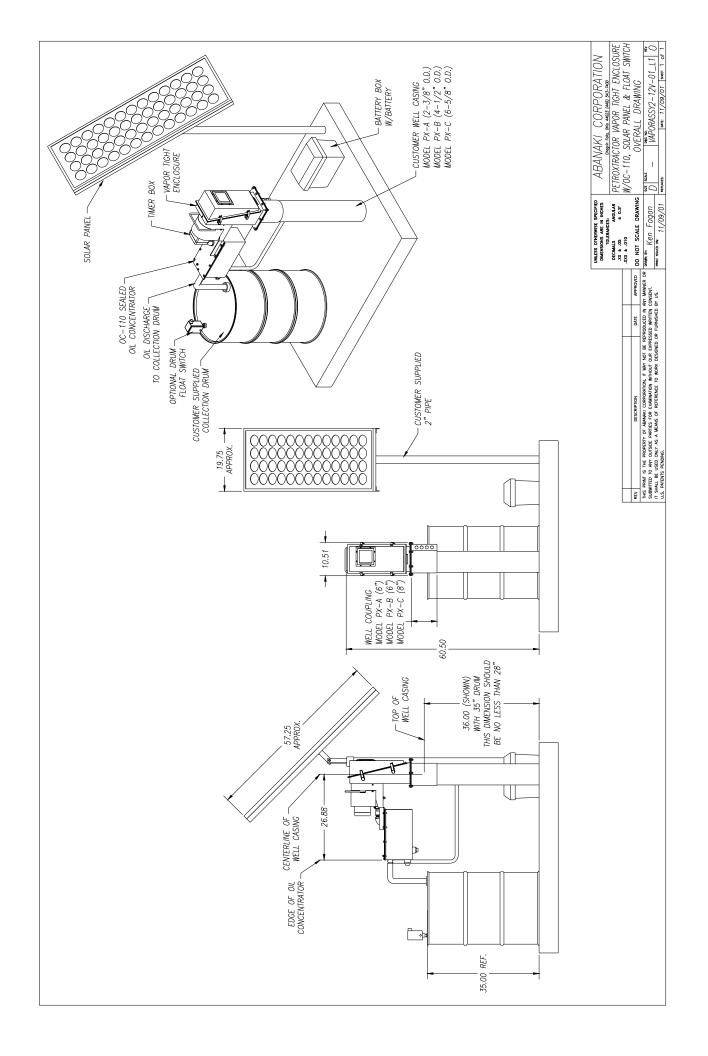


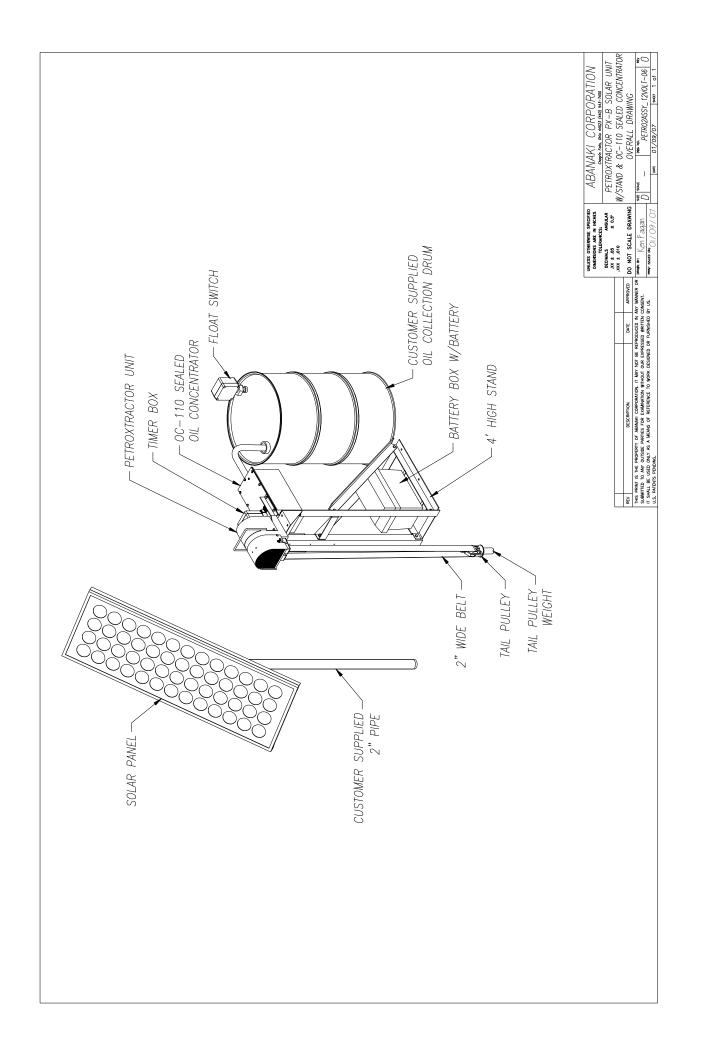


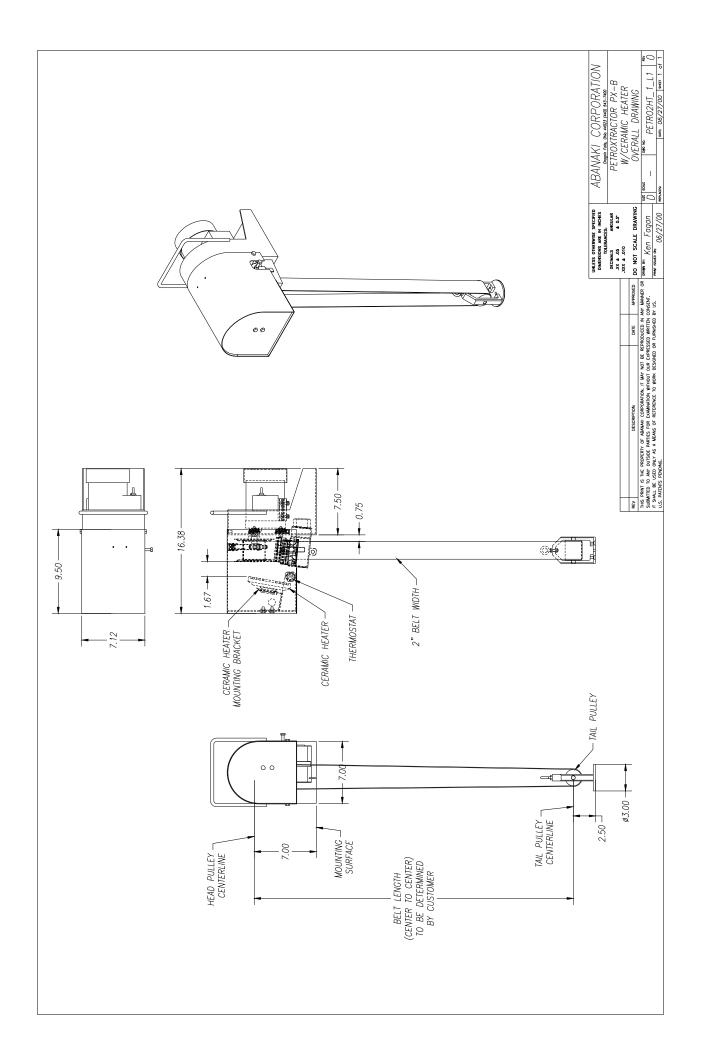


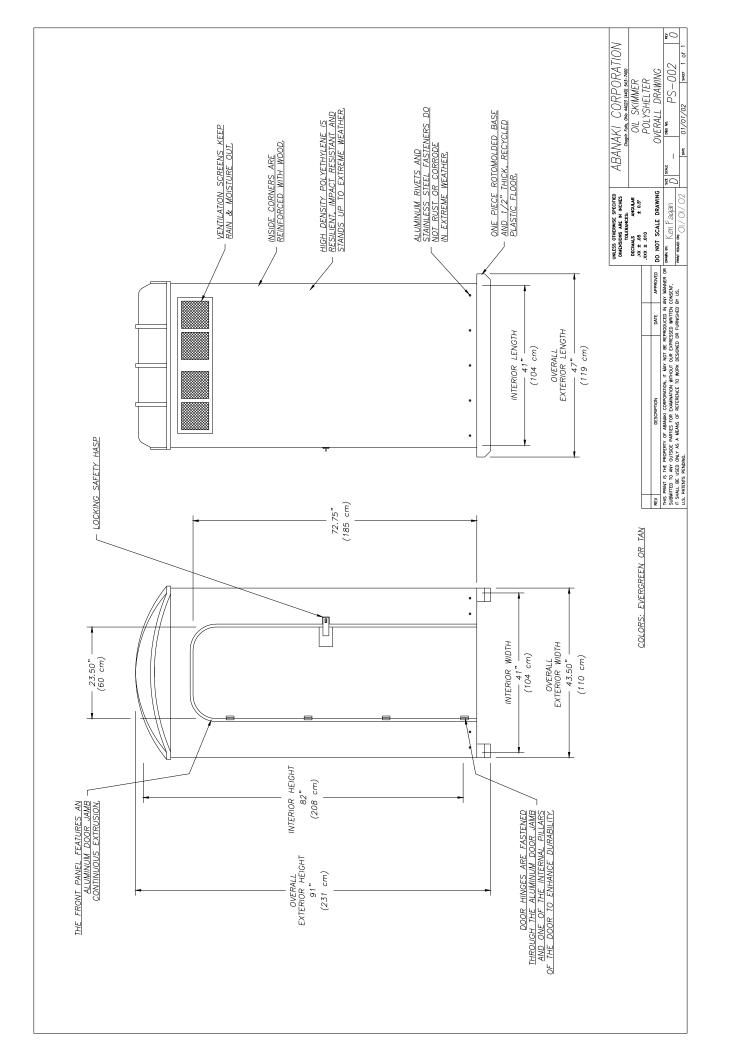




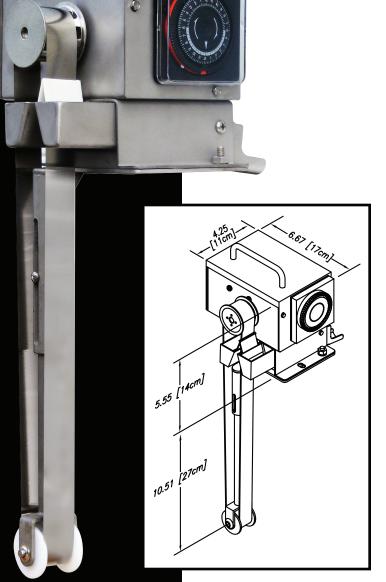








# Mighty Mini<sup>®</sup> SST



The stainless steel Mighty Mini is a compact belt skimmer designed for parts washers and machine tool coolant sumps. With its large discharge trough and small operating space, the Mighty Mini fits almost anywhere. The stainless steel construction resists rust and corrosion in harsh environments. It is lightweight and requires minimal assembly. With its durable stainless steel construction, it is built to give long lasting performance. The removable trough makes cleanup fast and easy.

# The Mighty Mini Advantages

- One year limited warranty, 30 day money back guarantee
- Stainless steel construction
- Fan cooled gear motor
- Spring loaded stabilizer bar
- Available in lengths from 6 to 24 inches
- Available in 1" and 2" belt widths
- Integrated 24-Hour timer w/15 minute increment settings for automatic operation.





# ®OIL SKIMMERS

**USA:** 17387 Munn Road • Chagrin Falls, Ohio 44023

800-358-SKIM (7546) • (440) 543-7400 • FAX: (440) 543-7404

JK: Unit 13 • Avondale Business Centre • Woodland Way • Bristol BS15 1AW 0117 9616679 • FAX: 0117 9616687

# Mighty Mini<sup>®</sup> SST

# Optional Coolant Saving Decanter

With any skimmer, it is possible for coolant to be picked up when little or no oil is present. The ODM100 decanter is specifically designed for use with the Mighty Mini to

separate and return nearly all coolant from the skimmed oil back to the tank. This saves money on both coolant and disposal costs.



# Belt Options:

Steel: The standard material - can be used almost

> anywhere. Withstands temperatures up to 212°F. pH range of 2-13 at ambient temperatures.

Elastomer: Recommended for coolant applications because

of its resistance to rust inhibitors and chips. Withstands temperatures up to 120°F and pHs

from 2-13 at ambient temperatures.

Poly: Recommended for heavy oils and greases.

Withstands temperatures up to 140°F and pHs

from 2-13 at ambient temperatures.

Used in high temperature/high pH applications XP Poly:

as in parts washers and plating. Withstands temperatures up to 180°F and pHs from 4-13 at

higher temperatures.

Specially designed material for removal of Fuzzy:

> light oils (ie. gasoline, diesel) Withstands temperatures up to 140°F and pHs from 5-10 at

ambient temperatures.

# Other Oil Skimming Products From Abanaki

## Model 4<sup>®</sup>

For Most Applications Single 8-inch wide belt (20.3 cm) Any length belt Capacity: 40 GPH (151.4 LPH)

#### Model MB<sup>®</sup>

For High Volume Two to five 8-inch belts (20.3 cm) Any length belts

Capacity: to 200 GPH (757.1 LPH)

# Tote-It® Portable

Portable for Moderate Capacity Applications Single belt: 2-inch or 4-inch (5.1 or 10.2 cm) Belt length: 1'- 6" to 5'-0" (45.2 to 152.4 cm) Capacity: 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt) 12 GPH - 4" belt (22.7 LPH - 10.2 cm belt)

# Disk Skimmer

**Coolant Applications** 12", 18" or 24" disks Capacity: 1GPH

TubeTastic<sup>™</sup> Tube Skimmer

**Coolant Applications** 8", 12", 18", 24", or 30" tubes

Capacity: 1.5GPH





**USA:** 17387 Munn Road • Chagrin Falls, Ohio 44023 800-358-SKIM (7546) • (440) 543-7400 • FAX: (440) 543-7404

**UK:** Unit 13 • Avondale Business Centre • Woodland Way • Bristol BS15 1AW 0117 9616679 • FAX: 0117 9616687

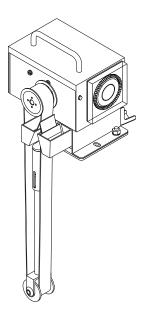
# Mighty Mini® Stainless Steel w/Timer Portable Oil Skimmer: 1", 2"

# Quick Summary:

A low cost oil skimmer for light duty applications. The Mighty Mini offers features found on our larger models such as a dual wiper blade system and a self-tensioning pulley system along with four standard sizes. The Mighty Mini currently operates in the following types of locations: production machines (CNC, lathes, milling operations); parts washers; marine craft (pleasure boats, tug boats); as well as on a 55-gallon drum.

# Highlights:

- 1. A 1" or 2" continuous belt of corrosion resistant steel or elastomer.
- 2. Oil discharge via a 3-foot 3/4-inch diameter clear plastic hose with clamp.
- 3. Deep removable trough.
- 4. 316 S.S. Glass Beaded Finish.
- 5. 24 hour timer.
- 6. 8-foot grounded power cord w/plug.
- 7. Fractional fan-cooled gear motor.
- 8. Removes one or two gallons of medium weight oil per hour.



# **Quick Chart:**

#### STANDARD MOTOR

# OPTIONAL MOTOR

			1	1		1		
CAP.	MODEL	BELT	BELT	RPM	VOLTS	PHASE	RPM	VOLTS
GAL.	MODEL	WIDTH	LENGTH	AMPS	Hz	FHASE	AMPS	Hz
	3 D 44 00 CT 0 4	4.0	<b></b>	30 RPM	115	4 544	30 RPM	260
1	MM100ST-06	1"	6"	1.5 -2.0A	60Hz	1 PH	1.5 -2.0A	50Hz
	MM (1000TE 12	1.0	10"	30 RPM	115	1 DII	30 RPM	260
1	MM100ST-12	1"	12"	1.5 - 2.0A	60Hz	1 PH	1.5 - 2.0A	50Hz
	MM (1000TF 10	1.0	18"	30 RPM	115	1 PH	30 RPM	260
1	1 MM100ST-18	1"		1.5 - 2.0A	60Hz		1.5 - 2.0A	50Hz
1	MM1000T 24	1"	2.4"	30 RPM	115	1 DII	30 RPM	260
1 MM100ST-24	MM10081-24	1	24"	1.5 - 2.0A	60Hz	1 PH	1.5 - 2.0A	50Hz
2	MM2000T 06	2"	<b>6</b> "	30 RPM	115	1 DII	30 RPM	260
2	2 MM200ST-06	2	6"	1.5 -2.0A	60Hz	1 PH	1.5 -2.0A	50Hz
	MM (2000CT 12	2"	10"	30 RPM	115	1 DII	30 RPM	260
2	2 MM200ST-12	2"	12"	1.5 - 2.0A	60Hz	1 PH	1.5 - 2.0A	50Hz
2	MM200CT 10	2"	10"	30 RPM	115	1 DII	30 RPM	260
2	MM200ST-18	2"	18"	1.5 - 2.0A	60Hz	1 PH	1.5 - 2.0A	50Hz
2	MM2000T 24	2"	24"	30 RPM	115	1 DII	30 RPM	260
2	MM200ST-24	2"	24"	1.5 - 2.0A	60Hz	1 PH	1.5 - 2.0A	50Hz

ABANAKI CORPORATION © All rights reserved 2004 17387 Munn Road Chagrin Falls, Ohio 44023 U.S.A. Phone: 1-800-358-SKIM Fax: (440) 543-7404

Spec:0604046-1 www.abanaki.com

# **ABANAKI** Stainless Steel Mighty Mini® 1"

# Skimmer Specification Sheet

#### PART 1: GENERAL

## 1.01 Construction

1. 316 Stainless Steel with glass beaded finish.

# 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Splined drive pulley for belt traction.
- 2. Tail Pulley (Solid drum type)
  - A. Spring loaded tension bar for automatic tensioning on belt.

#### 1.03 Motor

- 1. Standard: 115 Volt, 60Hz. @ 30 RPM, fan cooled gear motor, <u>U.L. and C.S.A. approved.</u>
  - A. Optional: 260 Volt, 50Hz. @ 30 RPM, fan cooled gear motor, U.L. and C.S.A. approved.

#### 1.04 Guard

1. Stainless Steel motor area cover, bolt in place with handle.

# 1.05 Belt Material and Length

- 1. Corrosion Resistant Steel
  - A. Lengths: 6", 12", 18", 24" measured from mounting surface to bottom of tail pulley + 3/4"
  - B. Optional material: Elastomer, Poly, Poly-HT, and LFO "Fuzzy".

#### 1.06 Wiper Blades

- 1. Standard Material: Pretension Elastomer.
  - A. Single wiper insert for front and rear wiper.

## 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a trough outlet with 3/4" dia. x 3' clear hose fastened with clamp.

# 1.08 Standard Mounting Arrangement

1. Two 5/16" x 1/2" slotted holes for mounting on flat surface.

## 1.09 Weight and Size

- 1. Weight of unit with gear motor is 7 lbs. for 1" unit.
- 2. Overall size of unit: 7.50"L x 6.68"W x 6.75"H

# 1.10 Mounting Requirements

- 1. Sump Opening size for Tail Pulley: 2" Dia.
- 2. Minimum Mounting Height: 6.81"
- 3. Approximate Overall Height (Unit + Belt length)(Top of handle to bottom of Tail Pulley)
  - A. 6" belt 12.06" total
  - B. 12" belt 18.06" total
  - C. 18" belt 24.06" total
  - D. 24" belt 30.06" total

#### 1.11 Power Requirements

1. 3 - prong grounded 110 volt outlet. Unit comes with 8' cord.

## 1.12 Optional Mounting Arrangements

- 1. Universal Mounting Bracket for mounting on straight wall or 90° angle.
- 2. ODM-100 Oil Concentrator Decanter mounting bracket for attaching ODM-100 to Mighty Mini skimmer's base.

# **ABANAKI** Stainless Steel Mighty Mini® 2" Skimmer Specification Sheet

#### PART 1: GENERAL

## 1.01 Construction

1. 316 Stainless Steel with glass beaded finish.

# 1.02 Pulley Types

- 1. Drive Pulley (Head Pulley)
  - A. Splined drive pulley for belt traction.
- 2. Tail Pulley (Solid drum type)
  - A. Spring loaded tension bar for automatic tensioning on belt.

#### 1.03 Motor

- 1. Standard: 115 Volt, 60Hz. @ 30 RPM, fan cooled gear motor, <u>U.L. and C.S.A. approved.</u>
  - A. Optional: 260 Volt, 50Hz. @ 30 RPM, fan cooled gear motor, <u>U.L. and C.S.A.</u> approved.

## 1.04 Guard

1. Stainless Steel motor area cover, bolt in place with handle.

## 1.05 Belt Material and Length

- 1. Corrosion Resistant Steel
  - A. Lengths: 6", 12", 18", 24" measured from mounting surface to bottom of tail pulley + 3/4".
  - B. Optional material: Elastomer, Poly, Poly-HT, and LFO "Fuzzy".

#### 1.06 Wiper Blades

- 1. Standard Material: Pretension Elastomer.
  - A. Single wiper insert for front and rear wiper.

#### 1.07 Oil Discharge Outlet

1. Dual troughs discharging into a trough outlet with 3/4" dia. x 3' clear hose fastened with clamp.

## 1.08 Standard Mounting Arrangement

1. Two 5/16" x 1/2" slotted holes for mounting on flat surface.

## 1.09 Weight and Size

- 1. Weight of unit with gear motor is 7 lbs. for 2" unit.
- 2. Overall size of unit: 8.31"L x 6.68"W x 6.75"H

## 1.10 Mounting Requirements

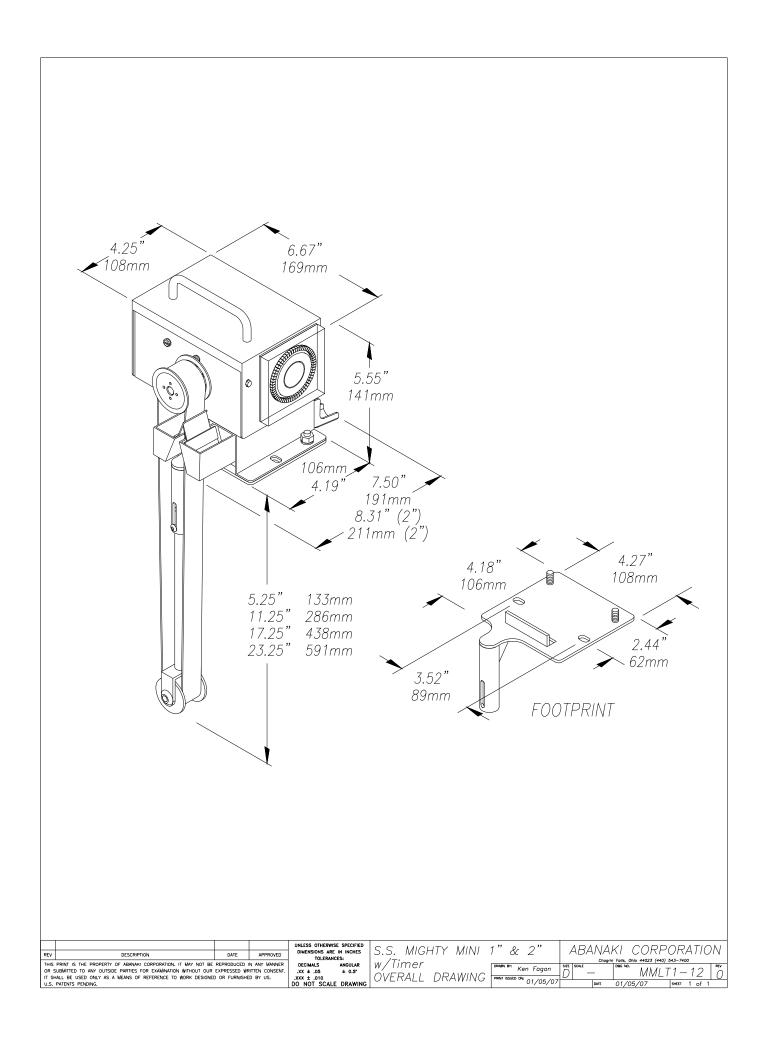
- 1. Sump Opening size for Tail Pulley: 2" x 3"
- 2. Minimum Mounting Height: 6.81"
- 3. Approximate Overall Height (Unit + Belt length)(Top of handle to bottom of Tail Pulley)
  - A. 6" belt 12.06" total
  - B. 12" belt 18.06" total
  - C. 18" belt 24.06" total
  - D. 24" belt 30.06" total

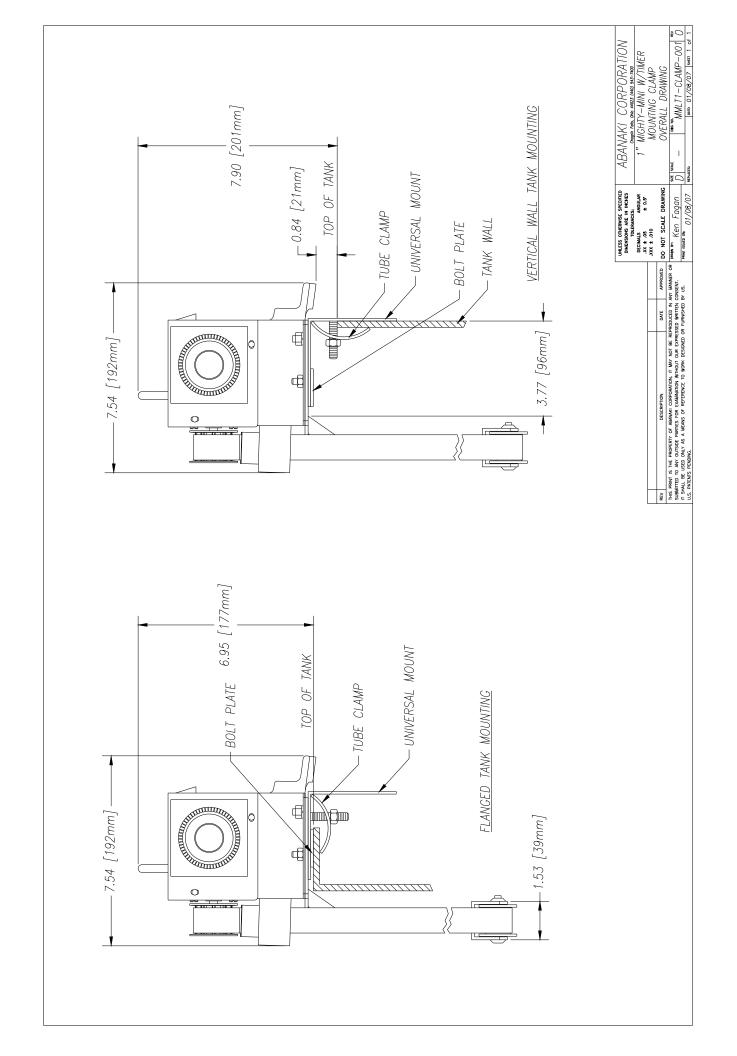
#### 1.11 Power Requirements

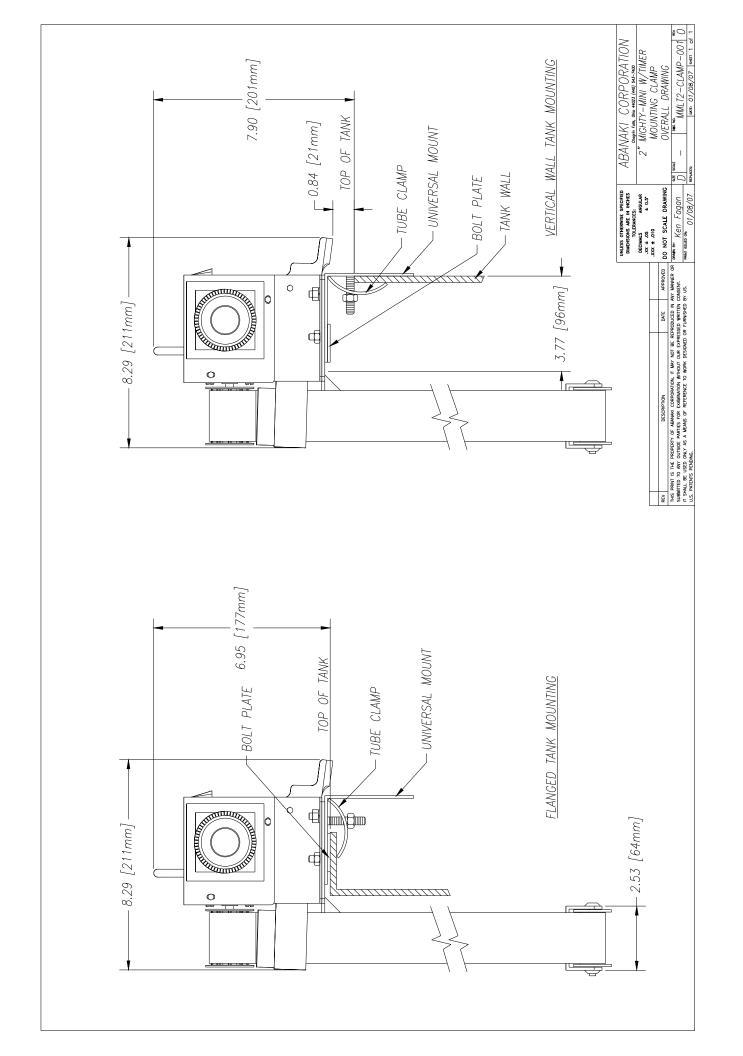
1. 3 - prong grounded 110 volt outlet. Unit comes with 8' cord.

# 1.12 Optional Mounting Arrangements

- 1. Universal Mounting Bracket for mounting on straight wall or 90° angle.
- 2. ODM-100 Oil Concentrator Decanter mounting bracket for attaching ODM-100 to Mighty Mini skimmer's base.







# GREASE GRABBER® GREASE REMOVAL SYSTEMS



# **General Description**

The heart of the system features a patented design grease skimmer. Unlike oil skimmers this system was designed and developed specifically to pick up heavy grease and oil. The Grease Grabber® makes use of the differences in specific gravity and surface tension between grease and water. These physical characteristics allow the belt to attract grease, oil, and other hydrocarbon liquids as the belt passes through the surface of the water.

The construction of the Grease Grabber has a rugged simplicity that is designed to last 20 years or longer. It can handle liquids between 32°F and 212°F, with pH between 1 and 13. The motor, reducer, and powder coated finish give the unit exceptionally long life.

Belt tension is maintained by the weight of a free riding tail pulley. The tail pulley is tethered to the underside of the Grease Grabber to prevent accidental loss.

# The system is available in 3 basic configurations\*:

- System A: Basic Grease Grabber System; features the Grease Grabber and Mat Buster
- **System B:** Enhanced Discharge System; features Screw Feed Discharge
- **System C:** Transfer System; features Transfer Package \*All systems can be adapted to your application.

# The Grease Grabber System Advantages

- Removes heavy non-flowing greases and oil from water.
- Elevates and removes up to 160 gph of grease over 100 ft. without pumps.
- Reduces fluid disposal costs
- Helps meet government requirements for water discharge
- Protects expensive sand filtration systems
- Operates in freezing temperatures
- Requires only a 28" x 9" (71.12cm x 22.86cm) mounting area
- Maintains skimming efficiency with fluctuating fluid level
- Fast set-up, easy cleaning, and minimal maintenance
- Effectively operates in turbulent liquids



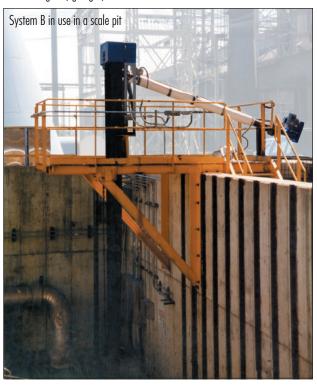
# GREASE GRABBER® GREASE REMOVAL SYSTEMS

# Why The Grease Grabber?

No other system is designed for extremely demanding applications, such as scale pits, where heavy loads of grease and oil accumulate. To handle this kind of load, the Grease Grabber uses an oil-filled gear reducer having bronze gears and ball bearings to drive pressure rolls with tractor treads that rotate the belt. This heavy-duty drive train will elevate skimmed grease over 100 feet for easy discharge into tramp waste containers.

# **Typical Applications**

- Circulating water systems in steel mills
- Truck, locomotive and other mobile equipment washing facilities
- Wastewater sumps or tanks
- Food processing facilities
- Parking lots, garages, and service facilities

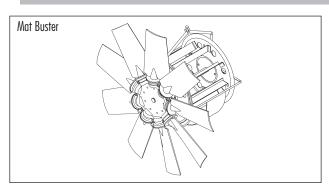


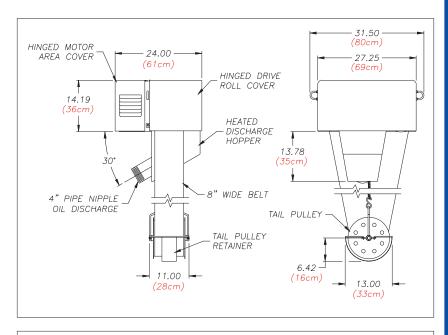


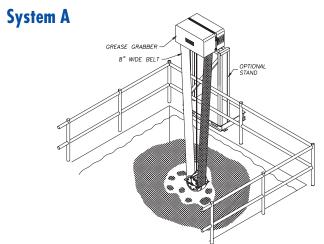
# Key Features of the Grease Removal System

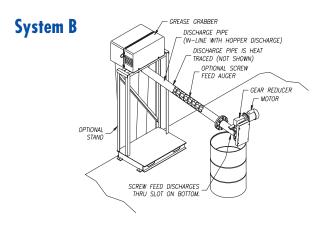
- Designed for the most demanding outdoor applications
- Corrosion-resistant materials
- Continuous duty
- All electrical components are UL CSA approved
- Conforms to CE directives
- Innovative safety features
- Customized belt lengths and materials

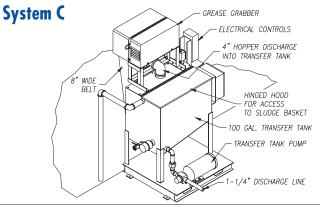












# **Specifications:**

**System A:** 

Construction

**Grease Grabber** Removal Rate: 160 gph (606 lph)

Actual removal rate will vary with application.

(Removal rate is based on Brooks Technology Plexelene 750<sup>™</sup> grease and other components in ordinary water.)

Solid welded carbon steel with a baked on powder coat

finish. Color: Dark safety blue.

Motor Fractional hp. TEFC, 115/230 VAC, single phase, 60Hz.

2200 W Heater

Belt Width 8 inches (20.3 cm) User specified (Call factory) Belt Length **Belt Material** Woven textured polyester

Wiper Hybrid ceramic impregnated polypropylene

Mounting Method Flat surface mount is standard. 2" steel angle frame 20"

high clearance for flat surface mounting and shipping.

Custom mounting stands available.

Appx. 28" X 10" (71.12cm x 22.86cm). See installation drawing. Mounting Area

Complete drive unit without tail pulley or belt: Weights

Approximately 240 lbs. (109 kg) - two lifting hooks

installed on drive unit Tail pulley: 10 lbs. (4.5 kg) Mat Buster: 10lbs. (4.5 kg)

24" or 36" dia. blades - Requires additional tail pulley **Mat Buster** 

clearance requirements: 24" Blade 18" x 28" 36" Blade 20" x 40"

**System B:** 

**Grease Grabber** See Grease Grabber specs under system A.

**Screw Feed Discharge** 

/4hp, 115/208-230 VAC, 1 PH, 60Hz. Motor

5/2.6-2.5 Amps, 56C-Face, TEFC, 1725RPM

Gear Reducer 48:1 right angle

4" right hand helical flighting welded to 1-1/4" Auger

sch-40 pipe.

**System C:** 

Grease Grabber **Transfer Package** 

See Grease Grabber specs under system A. Transfer tank.(Volume User Specified)

Transfer tank immersion heater. (Sized to tank)

Hinged hood on tank for easy access. Positive displacement pump. Transfer tank level control.

**Options (Specify)** 

316 stainless steel housing Screw feed discharge

Screw feed "heated" discharge

Mat Buster

Remote ON/OFF switch

Stabilizer bars available for (extreme) turbulent

applications Timer **Control Panel** 3-phase electrical

# **Standard Configuration**

The Abanaki Grease Grabber is supplied with a hinged motor guard, raised by a gas spring when released. An additional guard covers the drive roll area. Other standard componentry includes a fixed wiper blade assembly, skimmer belt and tail pulley. The unit comes with assembly instructions.

# Other Oil Skimming Products From Abanaki:

**Abanaki Oil Skimmer Quick Selector Chart** 





1. For Most Applications:
OIL GRABBER® MODEL 82
Single 8-inch wide belt (20.3 cm)
Any length belt

Capacity: 40 GPH (151.4 LPH)

2. When Model 8 Oil Grabber® Is Too Large:

OIL GRABBER® MODEL 4
Single 4-inch wide belt (10.2 cm)
Any length belt
Capacity: 20 GPH (75.7 LPH)

3. For High Volume Use: OIL GRABBER® MULTI-BELT

Two to five 8-inch belts (20.3 cm)
Any length belts

Capacity: to 600 GPH (2271 LPH)

4. For Small Size, Small Capacity, Or Multi-Tank Use: TOTF-IT® PORTABLE

Single belt: 2-inch or 4-inch (5.1 or 10.2 cm)
Belt length: 1' - 6" to 5' - 0" (45.2 to 152.4 cm)
Capacity: 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt)
7 GPH - 4" belt (22.7 LPH - 10.2 cm belt)

# GREASE GRABBER® GREASE REMOVAL SYSTEMS

For more information, please contact:



CORPORATION
OIL SKIMMER DIVISION

17387 Munn Road • Chagrin Falls, Ohio 44023 Ph: **(440)** 543-7400 • FAX: **(440)** 543-7404

800-358-SKIM (7546) http://www.abanaki.com

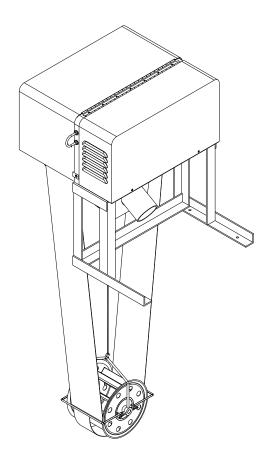
# **Grease Grabber® Systems:**

# Quick Summary:

The Grease Grabber®, with its patented technology, was designed and developed for the removal and discharge of non-flowing grease at ambient temperature. The main feature of this unit is a temperature controlled discharge hopper. The hopper is heated electrically to flow heavy grease for discharge. Other features for handling heavy grease are two grooved vulcanized rubber pressure drive rolls and a 4-inch SCH-40 discharge pipe nipple. An optional screw feed assembly is also available to help pull the heavy grease out of the heated discharge pipe. Safety features include: a totally enclosed drive mechanism protected by guards and a safety sensor switch which prevents accidental startup of the unit during maintenance.

# Highlights:

- 1. An 8" continuous poly-belt up to 100 feet or more.
- 2. Dual safety covers for drive and motor area.
- 3. Safety sensor, which cuts power to motor when drive guard is removed.
- 4. Dual wiper blade system
- 5. Removes up to 160 gallons of heavy lubricating grease per hour.<sup>2</sup>
- 6. Electrically heated hopper.



# Quick Chart:

STANDARD MOTOR

OPTIONAL MOTOR

CAP	MODEL	BELT	BELT	RPM	VOLTS	PHASE	RPM	VOLTS
GPH	GPH MODEL		LENGTH	AMPS	Hz	FHASE	AMPS	Hz
160 GR. 8	0"	UP TO	1725 RPM	115/208-230	1 PH	1725 RPM	208-230/460	
	UK. 8	8	100 ft.	5/2.6/2.5	60Hz	TEFC	1.4/1.3/.65	3PH-60Hz

#### **Notes:**

- 1. Additional motors, including explosion proof, are available per customer specification. See motor spec sheet for complete listing of motors. <u>Always</u> consult the factory for special applications.
- Actual removal rate will vary with application. Removal rate is based on Brooks Technology Plexelene 750™ grease and other components in ordinary water.

# Grease Grabber®

# Standard Skimmer Specification Sheet

#### 1.01 Construction

- Solid welded carbon steel with a baked on powder coat finish.
- 2. Color: RAL5005 or equivalent (Dark Blue).

# 1.02 Pulley Types/Rolls

- 1. Drive Rolls
  - A. Dual grooved vulcanized rubber rolls w/1" shafts.
- 2. Idler Pulley
  - A. 3/4" shaft with dual bearing mount.
- 3. Tail Pulley
  - A. Standard yoke and chain assembly with retainer.

## 1.03 Motor:

1/4 H.P. 1 PH 60Hz TEFC 1725 RPM 56 C-Face 115/208-230 Volt 5 / 2.6 / 2.5 Amps

or optional

1/4 H.P. 3 PH 60Hz TEFC 1725 RPM 56 C-Face 208-230/460 Volt 1.4 / 1.3 / .65 Amp

requires magnetic starter w/3 PH control panel

## 1.04 Gear Reducer

- 1. Standard Right Angle 56C-Face
  - A. 60:1 reduction
  - B. Oil filled
  - C. Bronze gears/ball bearings

#### 1.05 Guards

- 1. Standard steel motor area guard w/gas spring.
- Standard steel guard w/power cut-off switch over drive rolls.

# 1.06 Hopper

1. Six 400watt electric heaters, thermostatically controlled.

## 1.07 Belt Material and Length

- 1. Standard material: 8" wide Poly
  - A. Optional material: Elastomer
- 2. Length as required per application.

#### 1.08 Wiper Blades

- 1. Standard Material: Hybrid Ceramic
- 2. Top and bottom Wiper Assembly.
  - A. Fixed wiper, with single insert, preset angle for optimum wiping.

# 1.09 Oil Discharge Outlet

1. Double walled, thermostat controlled hopper with 4" SCH-40 pipe nipple x 6" long for flange or coupling mounting and/or discharge.

# 1.10 Mounting Arrangements

1. 2" steel angle frame 18" high for minimum clearance for flat surface mounting and shipping.

# 1.11 Weights and Size

- 1. Weight of skimmer without belt and tail pulley: 240 lbs. (109kg)
  - A. Skimmer has two lift hooks for lifting straps.
  - B. Add 10 lbs. (4.5kg) for Tail Pulley weight.
- 2. Overall size of unit: 31-1/2"L x 24"W x 14-3/16"H A. Does not include minimum mounting height.

## 1.12 Mounting Requirements

- 1. Sump Opening size for Tail Pulley: 12" x 24"
- 2. Minimum Mounting Height will be determined by oil discharge requirements.

## 1.13 Power Requirements

- 1. 1 PH 110volt 60Hz
- 2. 3 PH requires control panel.

# 1.14 Optional Mounting Arrangements

- 1. Boom mast mount.
  - A. New or existing 6" mast.
  - B. Mast pivots for servicing.

# Grease Grabber®

# Skimmer Systems Specification Sheet

# System A: Grease Grabber Mat Buster

- Standard skimmer specifications
- Mat Buster: 24", 36" or 44" dia. blades requires additional tail pulley clearance requirements.
  - Mat Buster weight: 10lbs. (4.5 kg)
  - 24" blade 18" x 28" clearance
  - 36" blade 20" x 40" clearance
  - 44" blade 20" x 44" clearance

# System B: Grease Grabber Screw Feed Discharge

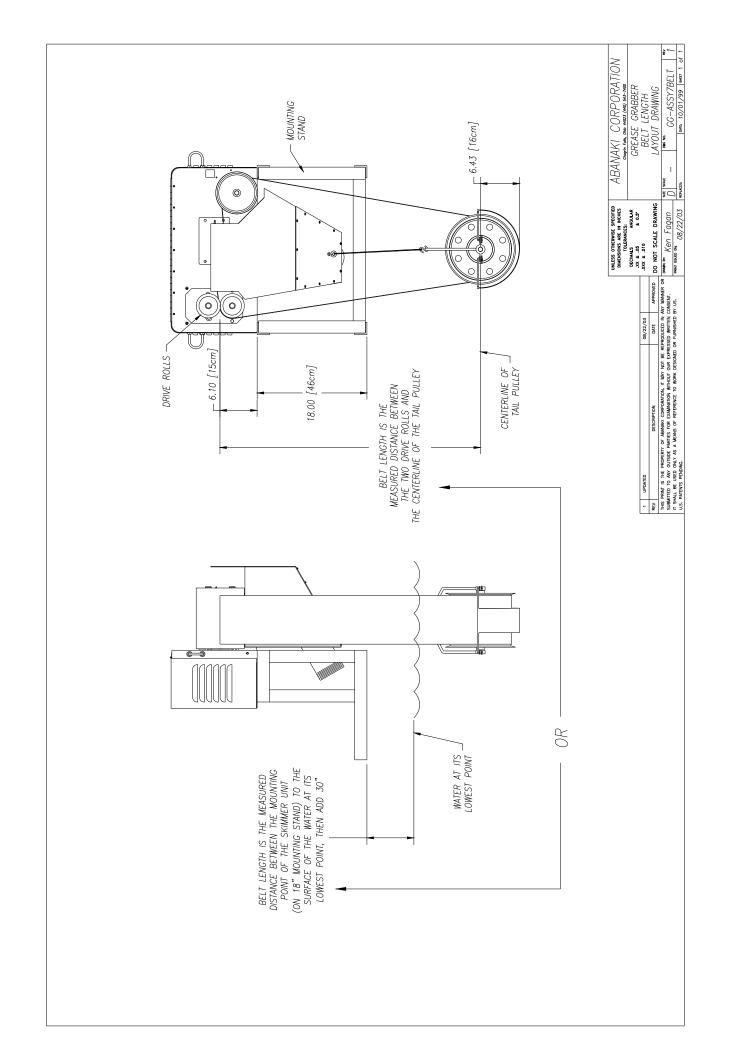
- Standard skimmer specifications
- Screw Feed Discharge
  - Motor 1/4hp, 115/208-230VAC, 1PH, 60Hz., 5/2.6-2.5amps, 56C-face, TEFC, 1725RPM
  - Gear Reducer 48:1 right angle
  - Auger 4" right hand helical flighting welded to 1-1/4" sch-40 pipe.

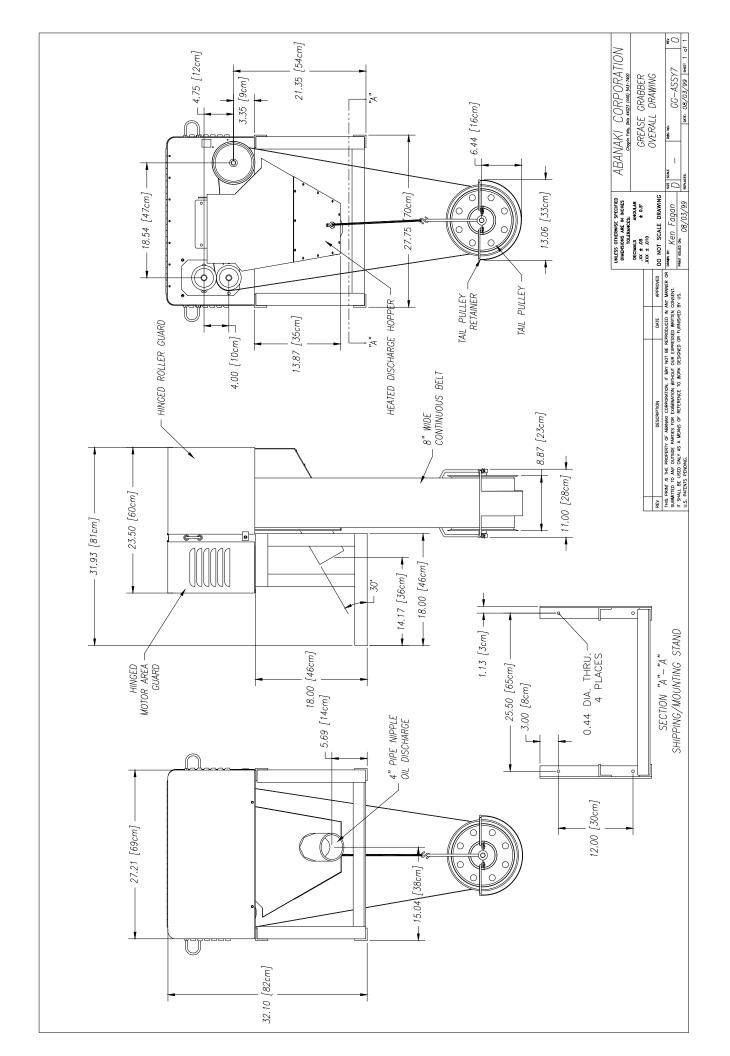
# **System C:** Grease Grabber Transfer Package

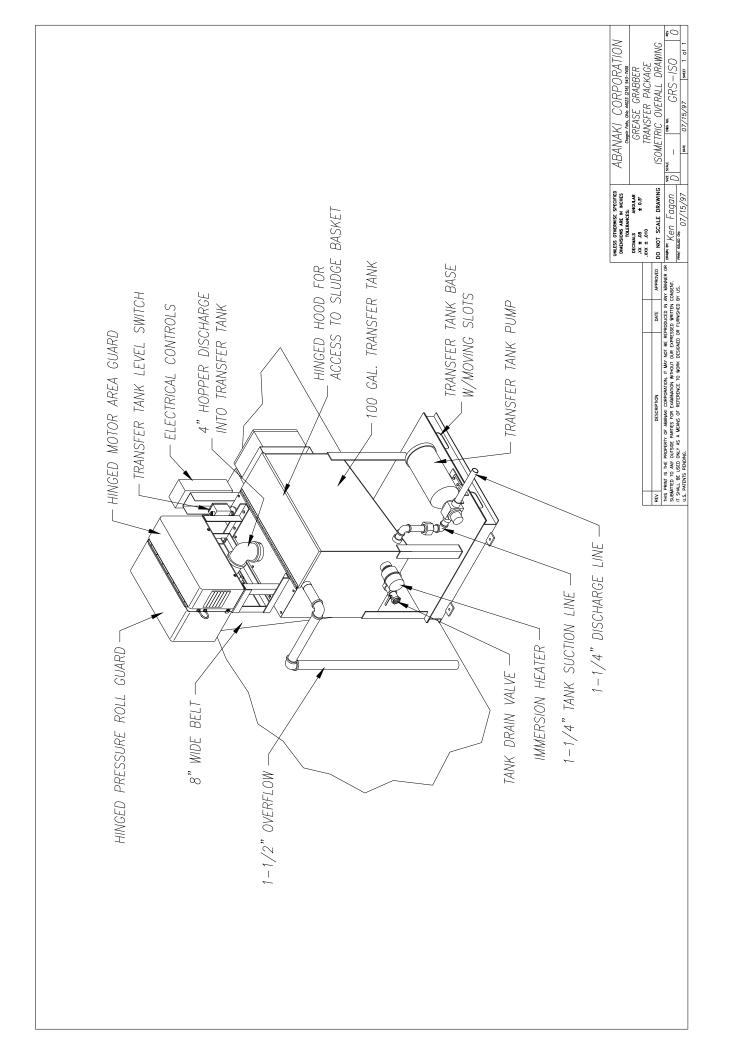
- Standard skimmer specifications
- Transfer Package
  - Transfer Tank (volume user specified)
  - Transfer Tank Immersion Heater (sized to tank)
  - Hinged hood on tank for easy access.
  - Positive Displacement Pump
  - Transfer Tank Level Control

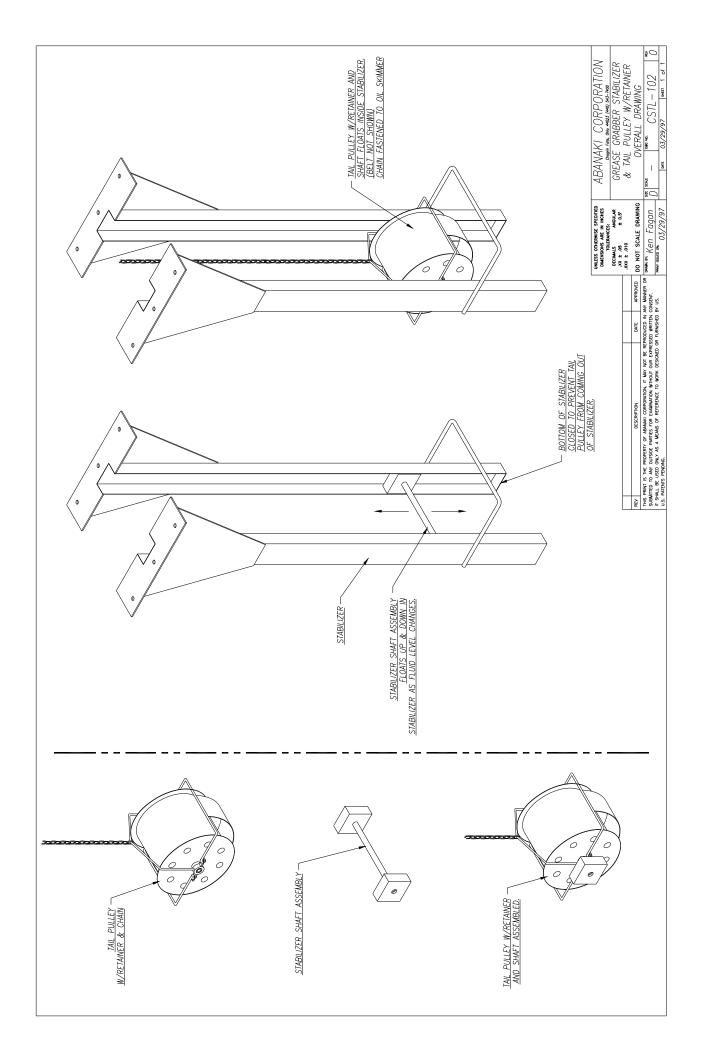
#### Note:

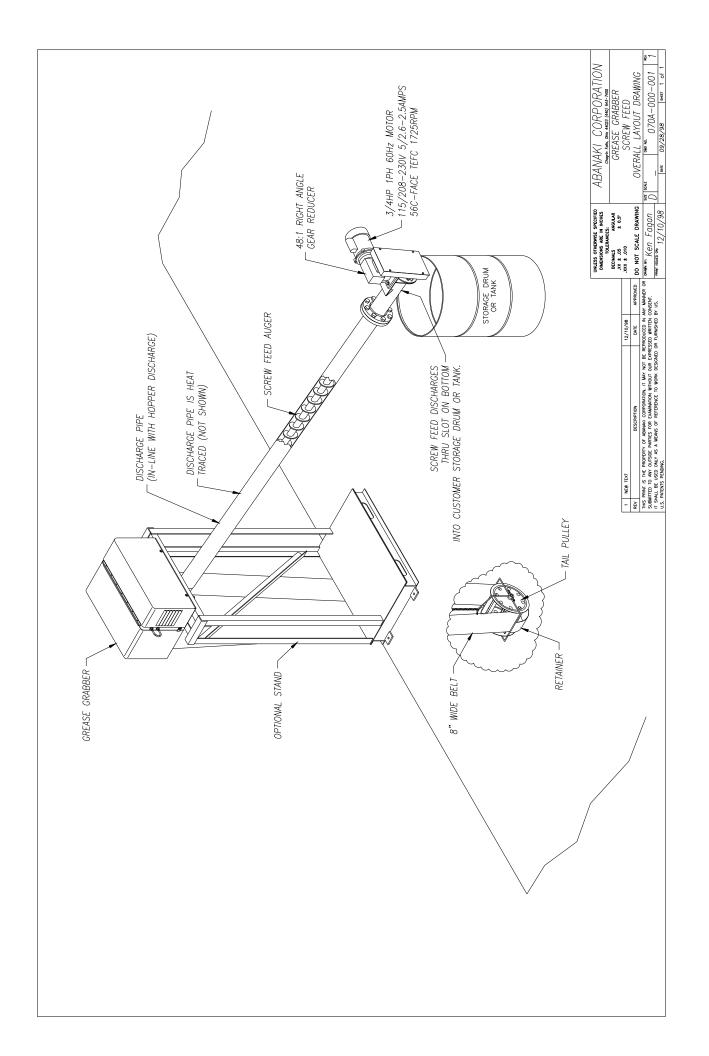
All systems can be adapted to your application.

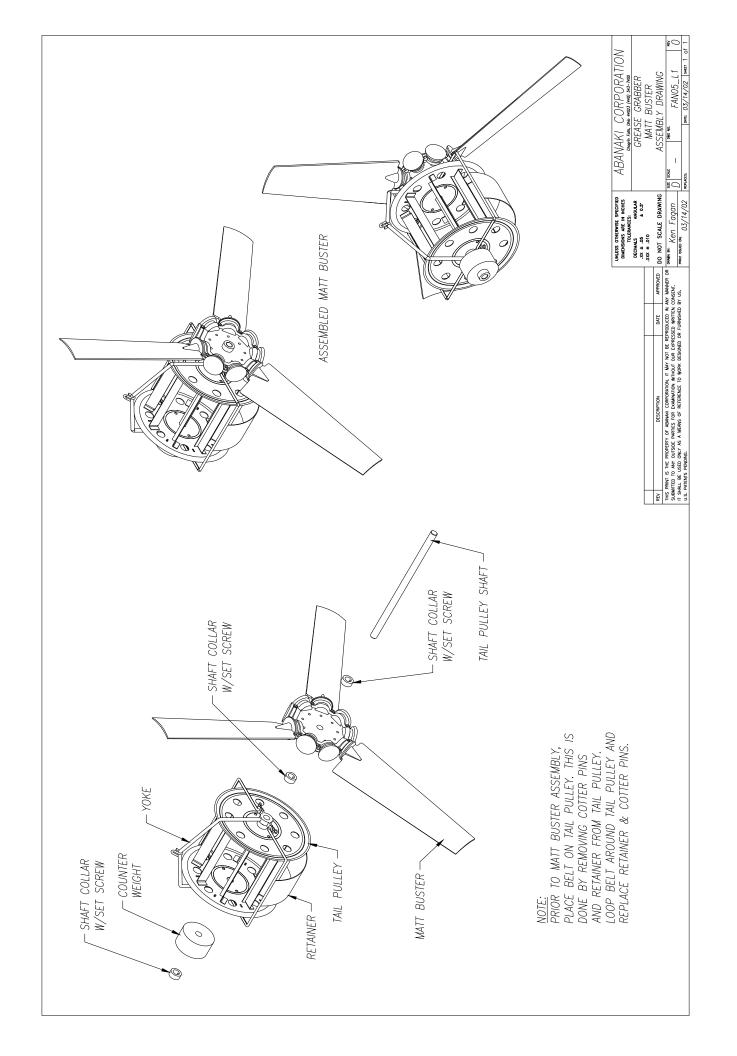












# **OIL CONCENTRATOR®**





**Typical Oil Concentrator Installation** 

# **More Complete Oil/Water Separation**

- Slashes disposal costs by providing water-free oil for disposal
- Oil/water separation is virtually complete
- Helps increase the recycle value of skimmed oil
- Saves costly coolant and washing solutions from premature disposal
- Available for all Abanaki oil skimmers

# **General Description**

The Abanaki Oil Concentrator provides virtually complete oil/water separation for recycling or disposal of either liquid.

Under most operating conditions, Abanaki skimmers pick up oil with only small traces of water. However, as surface oil is reduced to a thin layer (1/16 inch thick or less), more water (or coolant) may be picked up along with the oil. When used in tandem with an oil skimmer, the Oil Concentrator solves this problem by providing final phase separation. The result is water (or coolant) available for recycling, and virtually water-free oil for disposal.

The Oil Concentrator is non-electrical and contains no moving parts — it simply receives liquid directly from the skimmer. Based on the principle of gravity separation, the Concentrator tank is sized so that there is adequate dwell time for the oil and water to separate. Water discharge is through a tube that has an open end near the bottom of the Concentrator, while oil flow is through a separate drain port near the top. As additional liquid enters the Concentrator, water and oil are forced out through their respective discharge tubes and ports. A sludge screen provides additional dwell time for separation while preventing debris from contaminating either the water or the oil.

Installed at the discharge end of the oil skimmer, the Concentrator comes complete with mounting bracket, removable sludge screen and drain plug for easy cleaning. An optional thermostatically controlled heater is available for use with thick oils, or when the application is in freezing temperatures. (A heater should <u>not</u> be used in environments where explosive fumes might be present.)

Abanaki recommends the use of the Concentrator with all oil skimmers. It increases the efficiency of the skimmer and reduces costs associated with oil disposal.

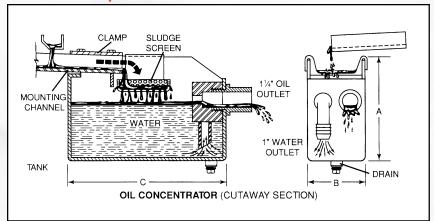
# Oil Concentrator Advantages

- Easy mounting
- Small space requirements
- No skimmer modifications needed
- Needs no electricity, timers, sensors or pumps
- Minimal maintenance
- No moving parts



# **OIL CONCENTRATOR**

# Models OC-100/200

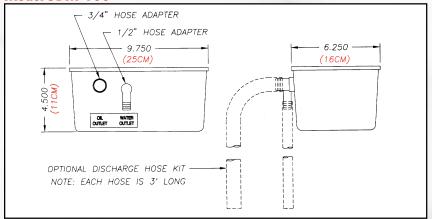


# **Dimension, Weights, and Options**

OC Model	A	В	C	
OC-100	10.00"( <mark>254mm</mark> )	5.75"(146mm)	15.6"(396mm)	
OC-200	18"(457mm)	12"(305mm)	24"(610mm)	

OC Model	Weight	Optional Hose Kit	Optional Heater	Used With
DM-100	4 lbs.	YES	NO	Mighty and Tote-It
OC-100	10 lbs.	YES	YES	Models 4 and 8
OC-200	70 lbs.	YES	YES	Multi-Belt Models (MB)

# Model ODM-100



# For more information, please contact:

- Mounts easily on all Abanaki skimmers
- Brackets and hardware supplied by Abanaki
- Corrosion resistant finish
- Sludge screen keeps large debris out of skimmed oil
- Drain plug facilitates routine maintenance
- Optional heater keeps oil flowing in cold environments

# **Specifications:**

See installation drawings for additional detail.

Concentrator Tank

Applications and Volumes OC-200 for all Multi-Belt units: 17 gallons (64.4 liters).

OC-100 for Model 8 and Model 4: 2.5 gallons (9.5 liters). ODM-100 for Tote-it and Mighty Mini: 0.56 gallons

(2.1 liters).

 $0 \\ \text{C-} 100$  and 200 : steel weldments with a corrosion-resistant coating. Materials

ODM-100: fiberglass construction.

Mounting Method All brackets and hardware supplied by Abanaki —

no skimmer modifications required.

Mounting Area and Weights1

See installation drawings and tables.

Models OC-100 & OC-200: Options (Specify)

Stainless steel construction.

- Thermostatically controlled (500W/110v) heater.
- Discharge hose kits for oil and water outlets (see installation drawing and table).

Model ODM-100:

• Discharge hose kits for oil and water outlets (see installation drawing and table).

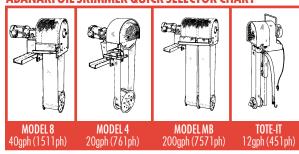
Temperature of liquid: 33°F - 212°F (0.5°C -100°C). Operating Limits<sup>2</sup>

> Carbon Steel units — pH of liquid: 5 - 10. Fiberglass or Stainless units — pH of liquid: 0 - 13.

Specification Notes: 1. Oil Concentrators are UPS shippable.

2. Consult factory for recommendations covering operating conditions not listed above.

# ABANAKI OIL SKIMMER QUICK SELECTOR CHART





# Oil Concentrator®: ODM-100, OC-110, OC-200

# Quick Summary:

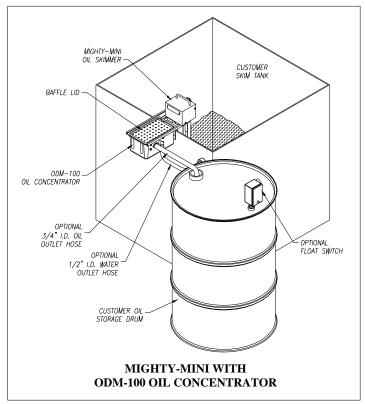
The Abanaki Oil Concentrator® offers complete oil/water separation for reuse or disposal of either liquid. Mounted at the discharge end of the oil skimmer, the Oil Concentrator receives the skimmed liquid directly from the skimmer. Based on the principle of gravity separation, water is decanted from the bottom, the lighter weight oil is removed from the top.

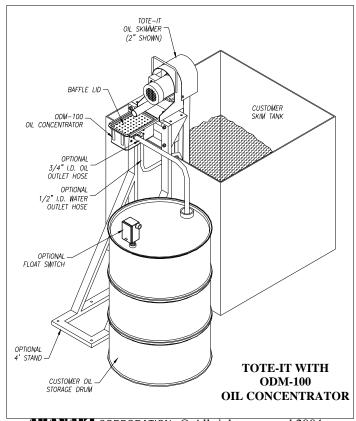
# Highlights:

- 1. Non-electrical with no moving parts.
- 2. Sludge screen keeps large debris out of skimmed oil.
- 3. Minimal maintenance.
- 4. No skimmer modifications.
- 5. Easy mounting.
- 6. 3 sizes available.
- 7. The OC-110 offers a channel mount for indoor or outdoor aplications, or a bracket mount for an open or sealed concentrator.

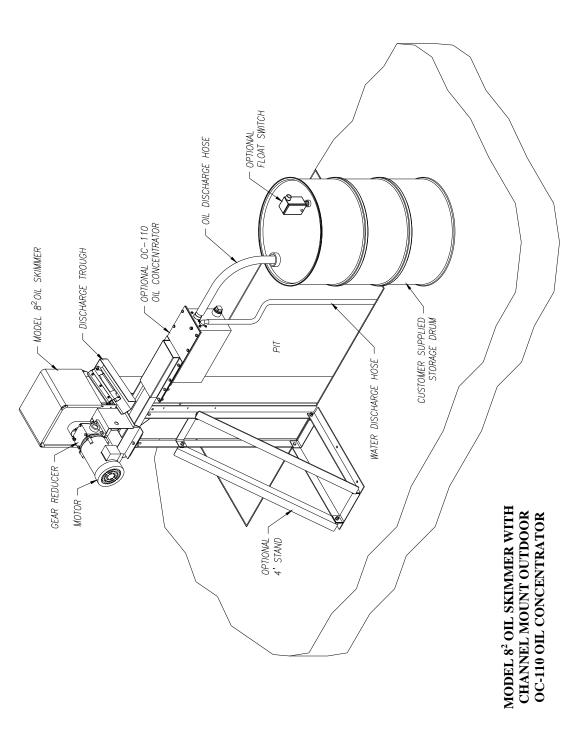
# Quick Chart:

MODEL	CAPACITY	MATERIAL	OPTIONAL HEATER	OPTIONAL HOSE KIT	SKIMMER MODEL
ODM-100	.56 gallons 2.1 liters	Fiberglass	NO	YES	Mighty Mini 1" & 2" Tote-It 1" & 2"
OC-110	2.93 gallons 11 liters	Steel w/ corrosion- resistant coating	YES	YES	Tote-It 4" PetroXtractor PX-A, PX-B and PX-C Model 4 Model 8 <sup>2</sup>
OC-200	16.87gallons 63.8 liters	Steel w/ corrosion- resistant coating	YES	YES	Multi-Belt Units

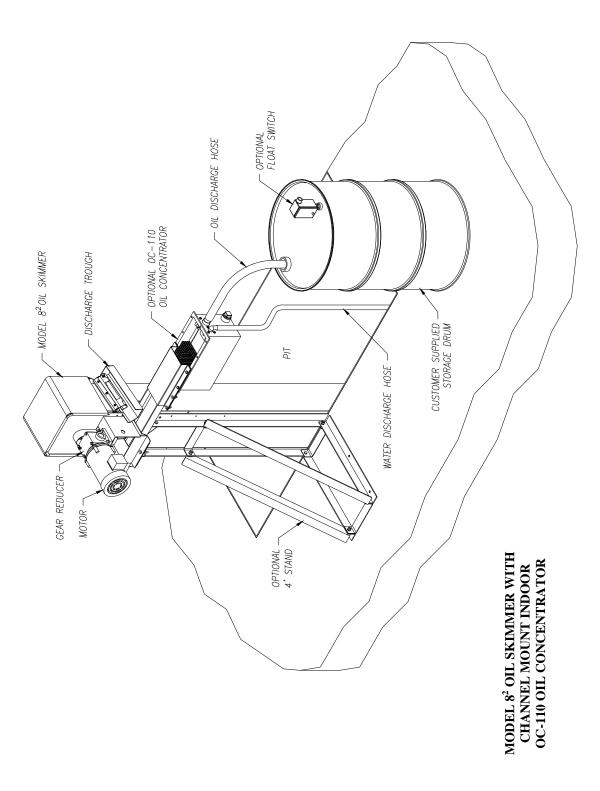




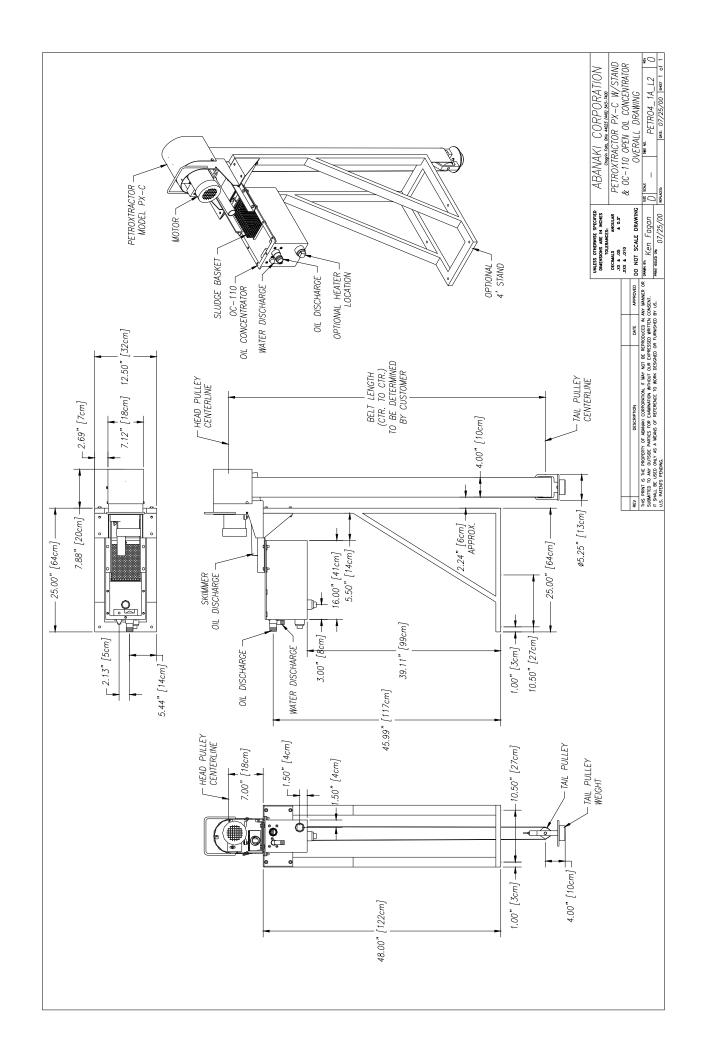
ABANAK CORPORATION © All rights reserved 2004 17387 Munn Road Chagrin Falls, Ohio 44023 U.S.A. Phone: 1-800-358-SKIM Fax: (440) 543-7404

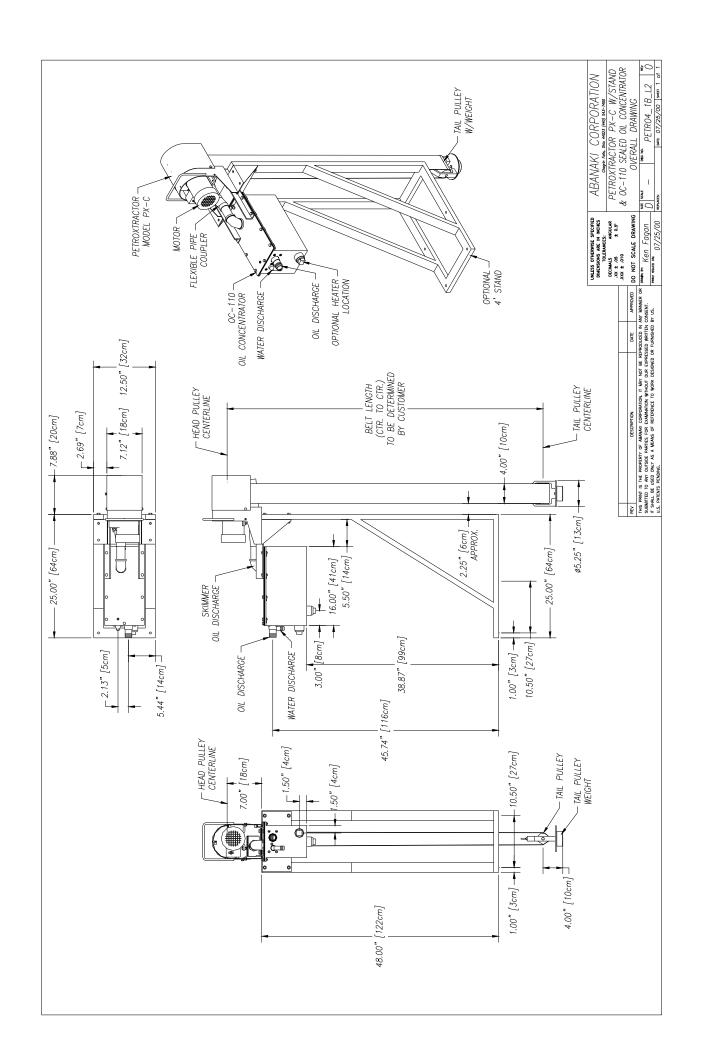


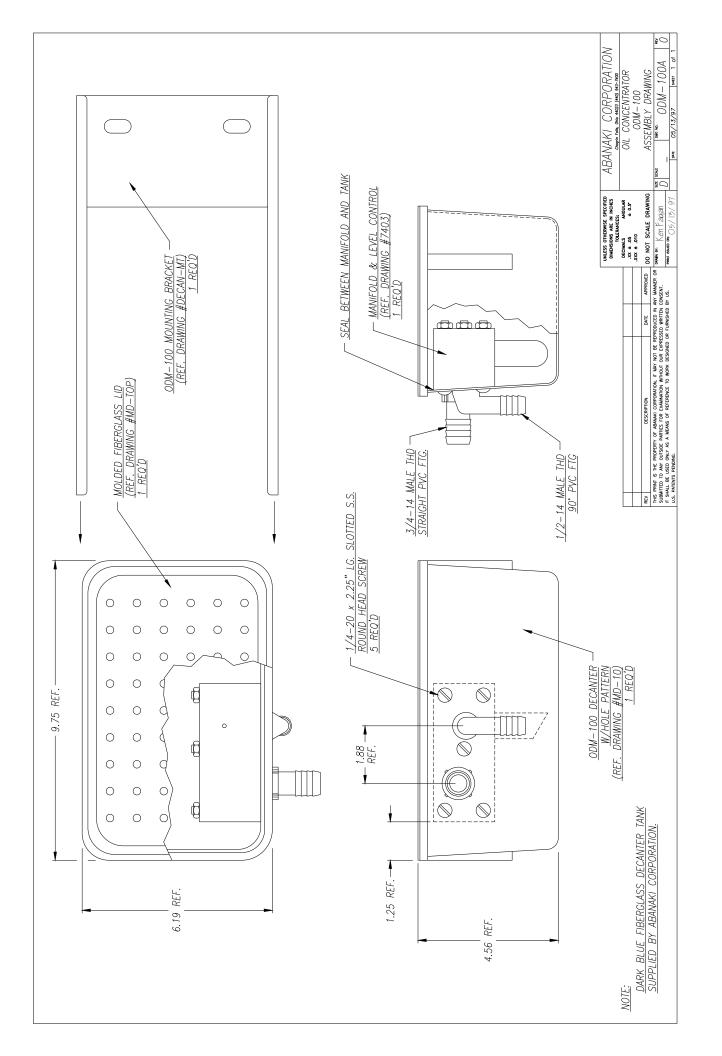
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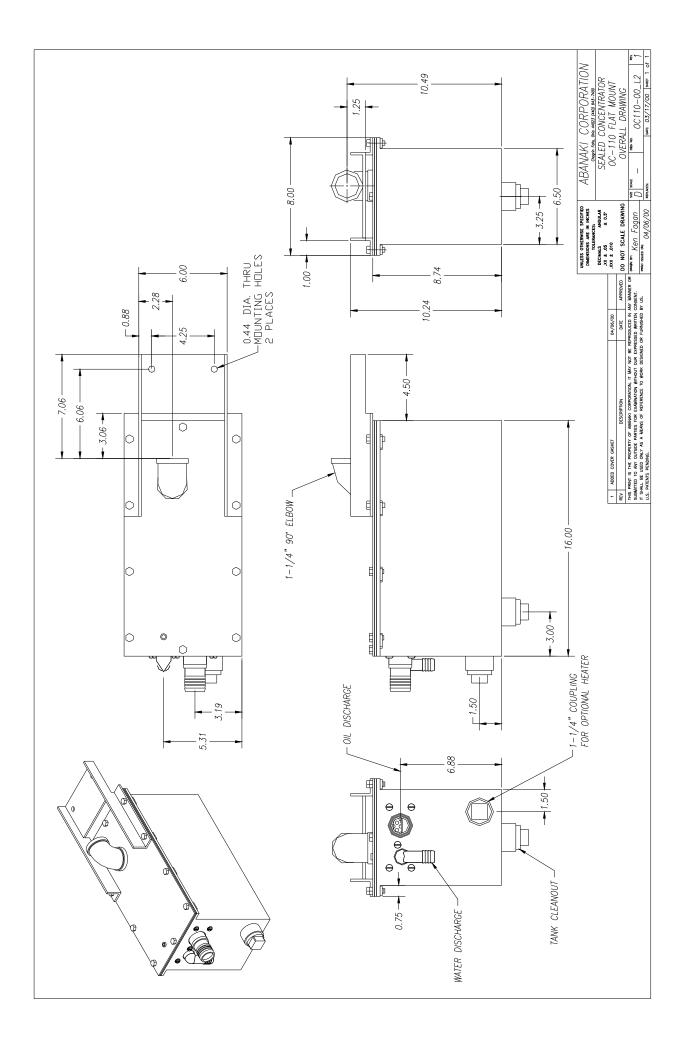


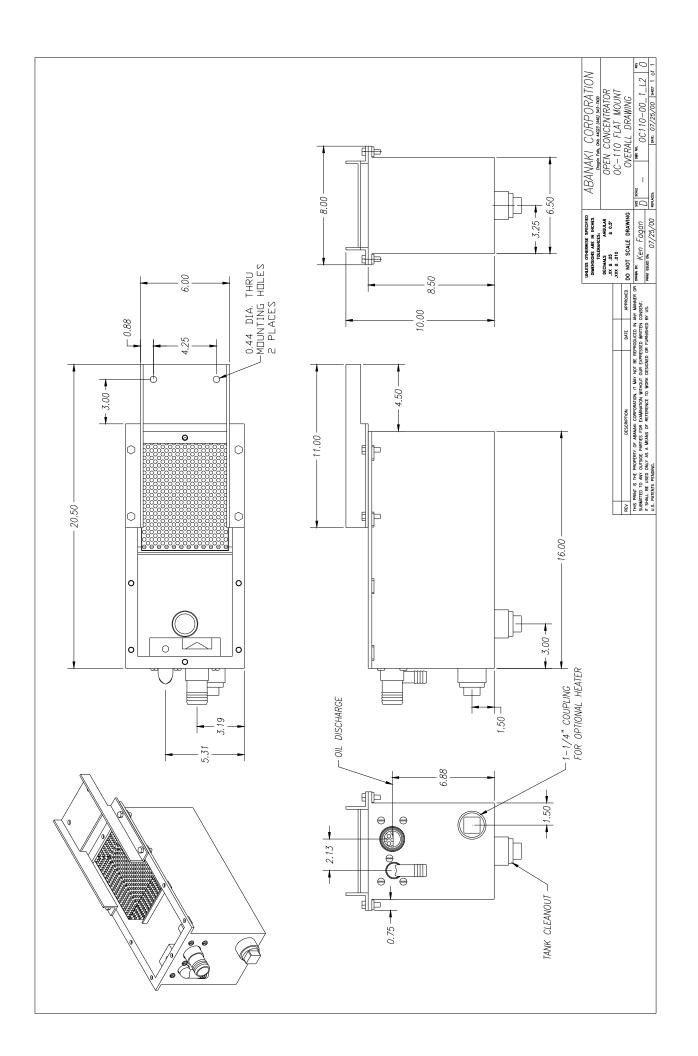
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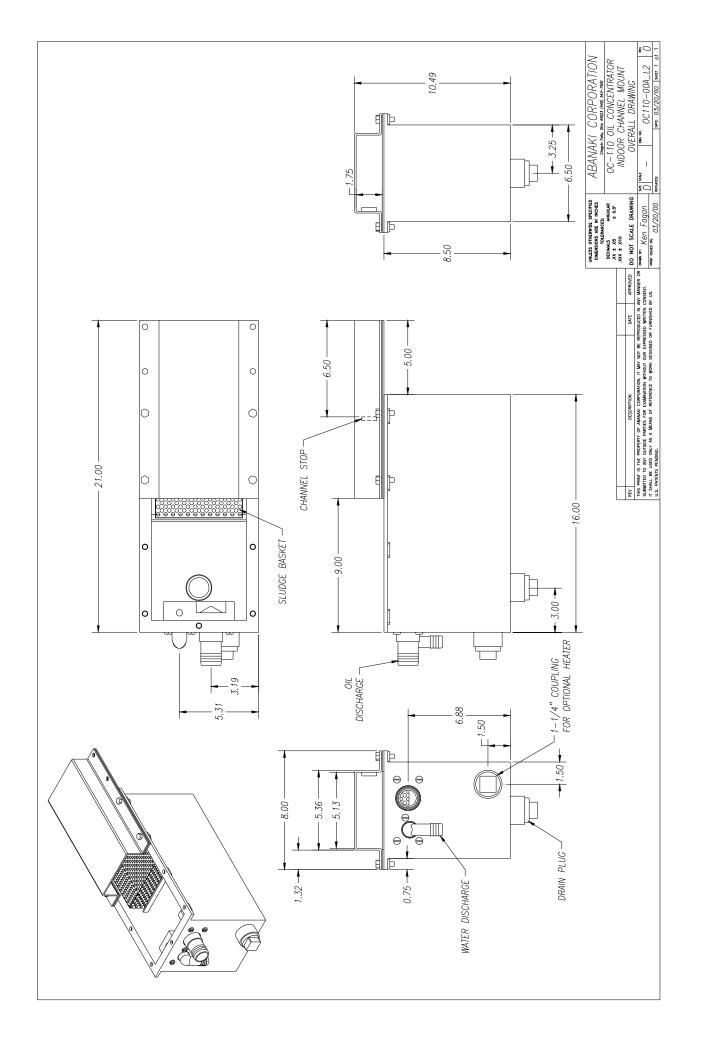


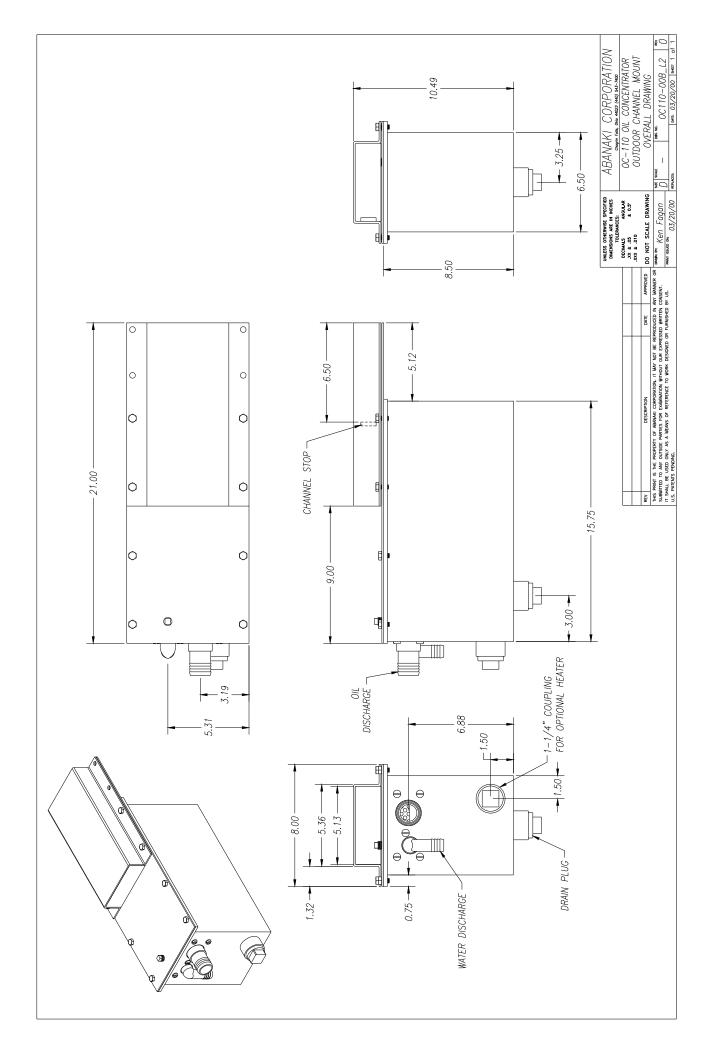


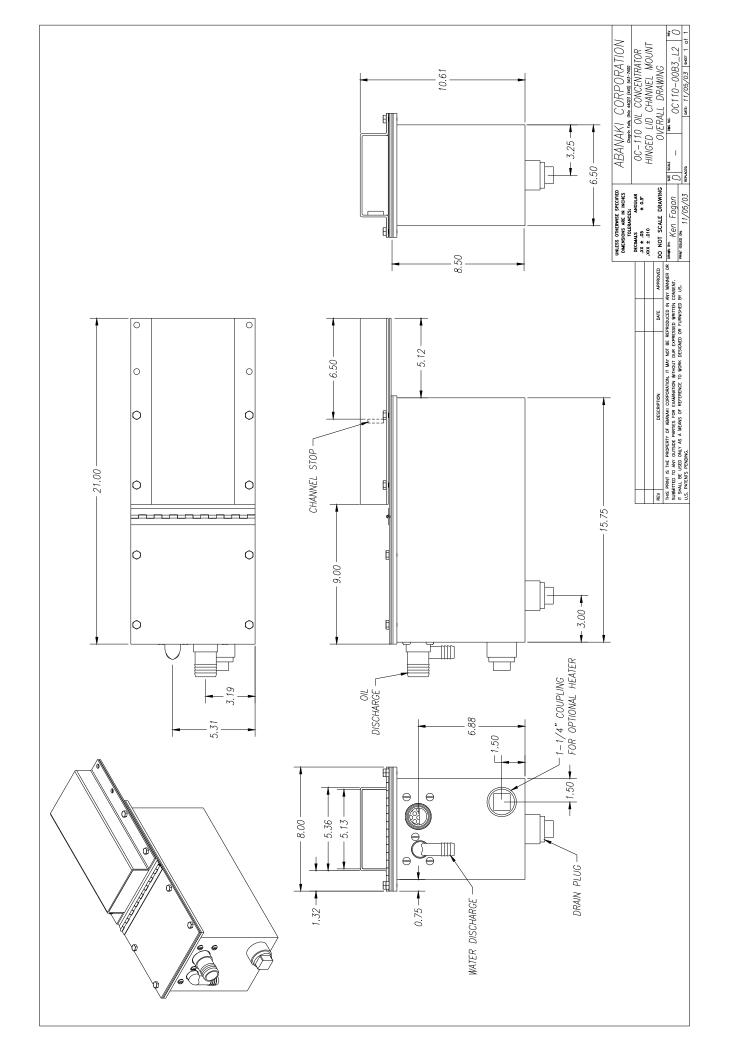


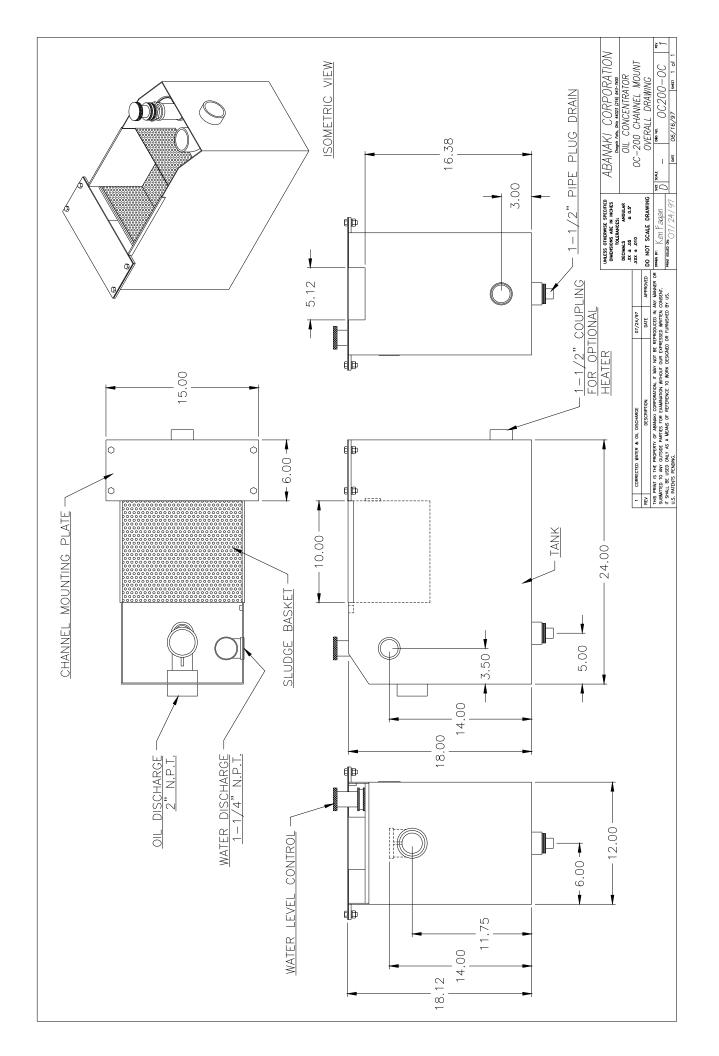


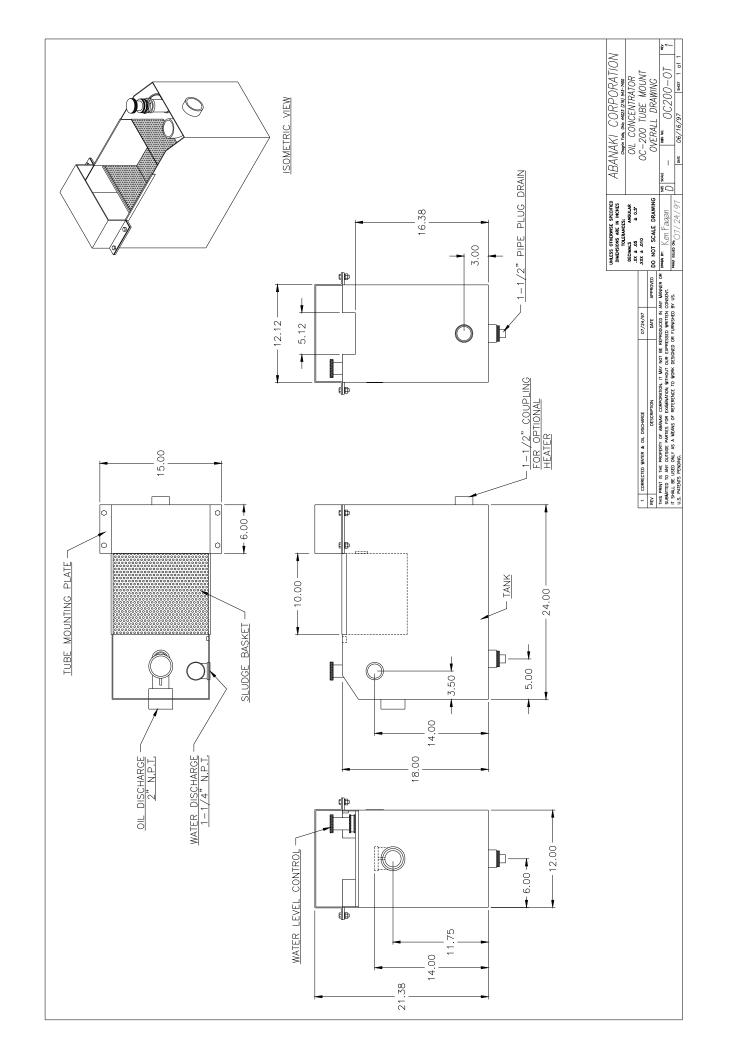












# Q-VAC<sup>™</sup> 100

#### **Complete with Hose and Accessories**





Connect compressed air and go. When drum is full, it can be sent for incineration, storage or recycling.

# Wet Vacuum Swiftly Cleans Up Industrial Spills AND Removes Coolant from Sumps!

The hard-working Q-VAC<sup>™</sup> 100 wet vacuum thoroughly suctions all types of wet industrial spills to maintain safety and removes coolant from machine sumps for optimal equipment operation. It gets the job done quickly, quietly, and virtually maintenance-free, running on compressed air.

#### **Mounts to Your Standard Drum**

Easy-to-use and highly reliable, the Q-VAC 100 pumps liquid directly into a standard closed-top drum for convenient storage or recycling. A liquid overflow shutoff valve ensures vacuum automatically turns off when the drum is full.

#### **Ideal for Multiple Applications**

- Complete kits available
- Vacuum oil, coolant, and other floor spills
- Empty coolants from sumps
- Remove surface decontaminates from process baths
- Empty tanks and drain pits
- Vacuum containers and vats absolutely dry

#### **More Q-VAC 100 Advantages:**

- Minimizes use of absorption materials
- Fits on a standard 55 gal., closed top drum
- Requires no filters
- No moving parts to break or replace
- 30 day money back guarantee



# **Q-VAC**<sup>™</sup> 100

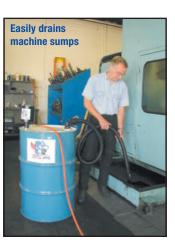
#### **Optional Equipment**



#### **Q-VAC 100 Technical Specifications**

Air flow @ 87 psi	35 cfm
Compressor PSI (minimum/optimum)	30/87 psi
Sound level	82 dB(A)
Capacity (liquid)	24 GPM
Optimum Compressor	10 HP





#### Other Oil Skimming Products From Abanaki:



Optional Equipment Shown in Some Views

1. OIL GRABBER MODEL 4 For Mid Volume Single 4-inch wide belt (10 cm)

Any length belt Capacity: 20 GPH (75 LPH)

2. OIL GRABBER MODEL 8<sup>2</sup> For Most Applications Single 8-inch wide belt (20.3 cm) Any length belt

Capacity: 40 GPH (151.4 LPH)

3. TOTE-IT PORTABLE For Moderate Capacity Applications

Single belt: 2-inch or 4-inch (5.1 or 10.2 cm)
Belt length: 1'- 6" to 5'-0" (45.2 to 152.4 cm)
Capacity: 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt)
12 GPH - 4" belt (22.7 LPH - 10.2 cm belt)

4. MIGHTY MINI For Small Applications (Parts Washers, CNC Machines, 55 Gal. Drums)

Single belt: 1-inch or 2-inch (25.4 or 50.8 mm)

Belt length: 6", 12", 18", 24" (153, 305, 458, 610 mm)

Capacity: 1 GPH - 1" belt (3.81 LPH)

aty. 1 GPH - 1 Deft (5.61 LPH) 2 GPH - 2" belt (5.71 LPH)



# **Q-VAC**<sup>TM</sup> 100

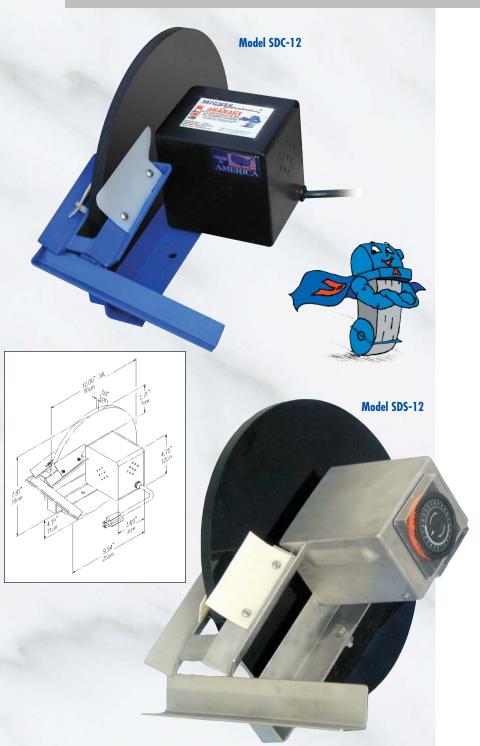
#### Quick Summary:

The Abanaki Q-VAC 100 Pump is a wet suction unit intended for suction of non-dusting industrial waste and is mounted directly on a standard barrel (bung barrel or ring lock barrel in cold-rolled or stainless steel plate, volume 55, 30 or 16 gallons). It is important that the barrel used is in good condition. To eliminate the risk of the barrel being sucked in by the vacuum created, the barrel must not be damaged in any way.



Spec:10040410-1 www.abanaki.com

# MIGHTY DISK OIL SKIMMER



# The inexpensive way to remove unwanted tramp oils from coolants and parts washers, but with all the quality that you expect from Abanaki!

**Effective.** Removes up to 1½ gallons of oil or more of medium weight oil per hour.

**Compact.** Use it almost anywhere a flat surface is available for mounting.

**Portable.** Weighs less than 10 pounds, installs in no time, and runs on 110v power.

**Complete.** Put it to work right out of the box, or add the optional coolant saving decanter for a more efficient skimming system.

#### **Standard Features**

- Available in 12" and 18" diameters
- 110v fan cooled motor
- High temperature disk material
- Quality construction

#### **Optional Features**

- 24 hour timer
- Coolant saving decanter

# Stainless steel disk skimmers for harsh chemical environments!

Introducing a disk skimmer constructed of stainless steel for those applications where carbon steel may fail. Perfect for parts washers or plating tanks!



# Mighty® Disk Skimmer

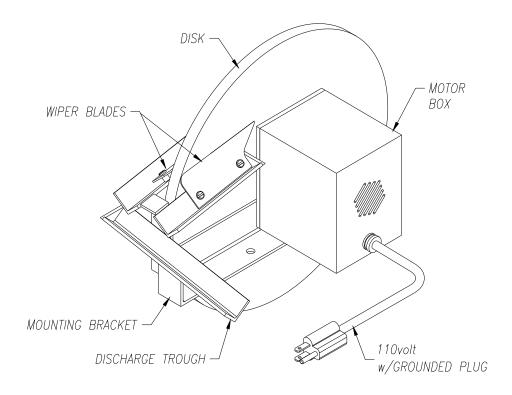
#### Quick Summary:

The inexpensive way to remove unwanted tramp oils from coolants and parts washers. Use it almost anywhere a flat surface is available for mounting. Weighs less than 10 pounds and installs in no time. Put it to work right out of the box, or add the optional coolant saving decanter for a more efficient skimming system.

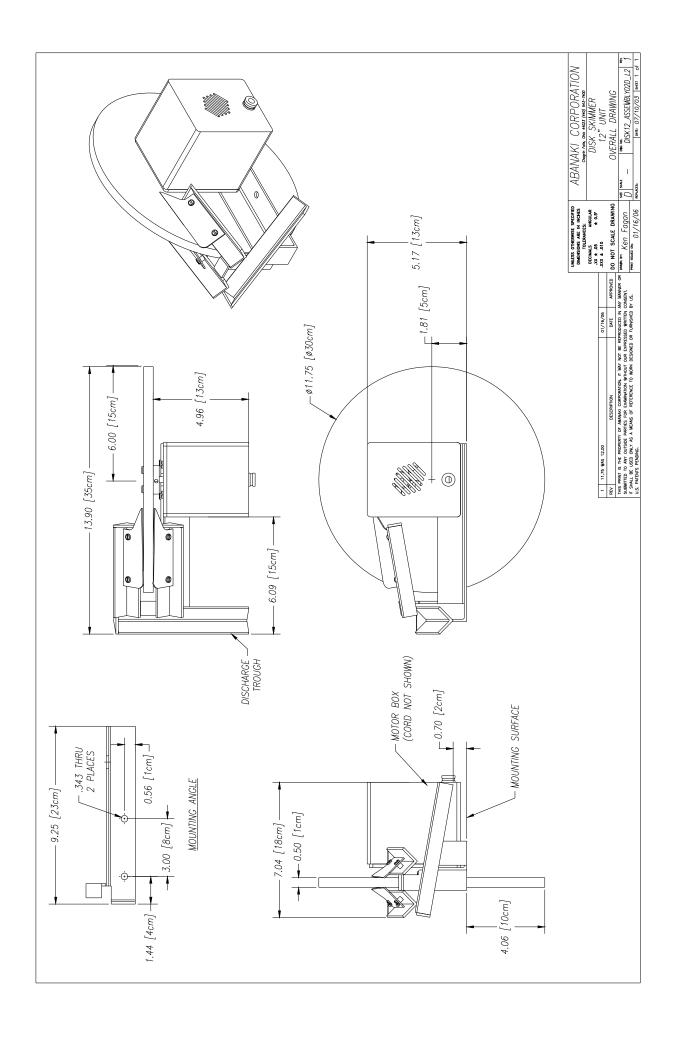
#### Highlights:

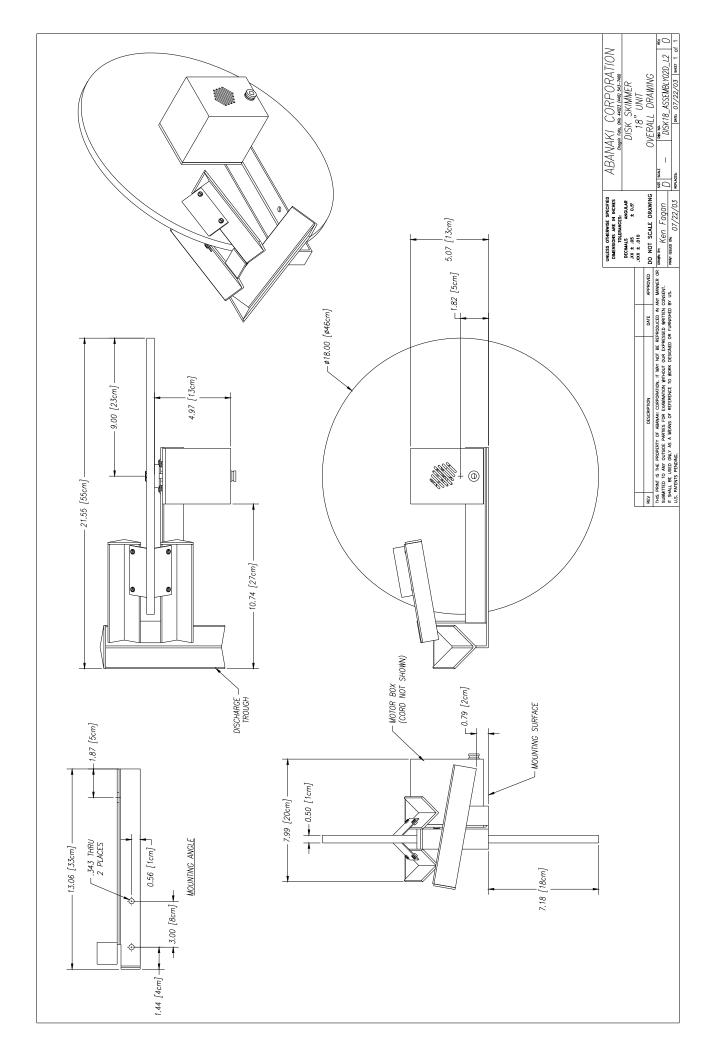
- 1. Disk available in 12" and 18" diameters.
- 2. 110v 60Hz. fan-cooled motor.
- 3. High temperature disk material available.
- 4. Quality construction.
- 5. Available in Stainless Steel with timer.
- 6. Removes up to 1-1/2 gallons of medium weight oil per hour.

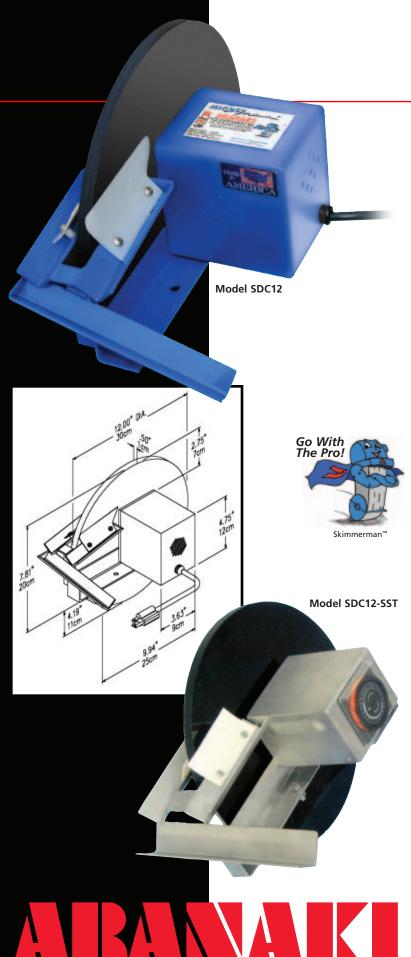
Optional coolant saving decanter available.



Spec:11040411-1 www.abanaki.com







# Cool Disk

The inexpensive way to remove unwanted tramp oils from coolants and parts washers, but with all the quality that you expect from Abanaki!

Long-Lasting. Engineered polymer construction insures a long, corrosion free life.

Effective. Removes up to 1½ gallons per hour of medium weight oil.

Compact. Use it almost anywhere a flat surface is available for mounting.

Portable. Weighs less than 10 pounds, installs in no time, and runs on 110v power (other voltages available).

Complete. Put it to work right out of the box. Just plug it in and skim!

#### Standard Features

- Available in 12" diameter
- 110v continuous duty fan cooled motor
- High temperature disk material (up to 160°)
- Capped troughs prevent oil drips
- Textured boomerang blades wipe more oil off disk and prevent sloppy drips
- · Motor shaft is sealed to prevent premature motor wear from oil contamination
- Motor housing is vented for longer motor life

#### Stainless steel disk skimmers for harsh chemical environments!

Introducing a disk skimmer constructed of stainless steel for those applications where carbon steel or polymer housing may fail. Includes an integrated 24 hour timer with unlimited 15 minute increment settings.Perfect for parts washers or plating tanks!



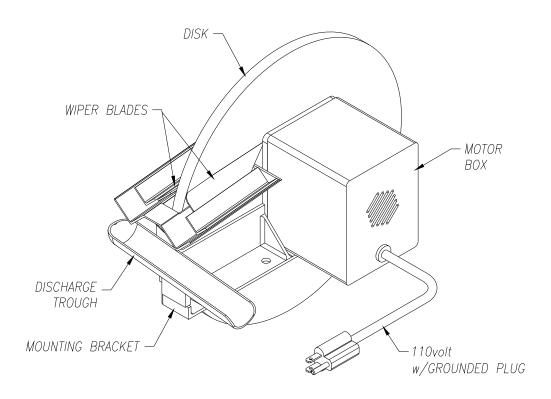
## Cool Disk Skimmer

#### Quick Summary:

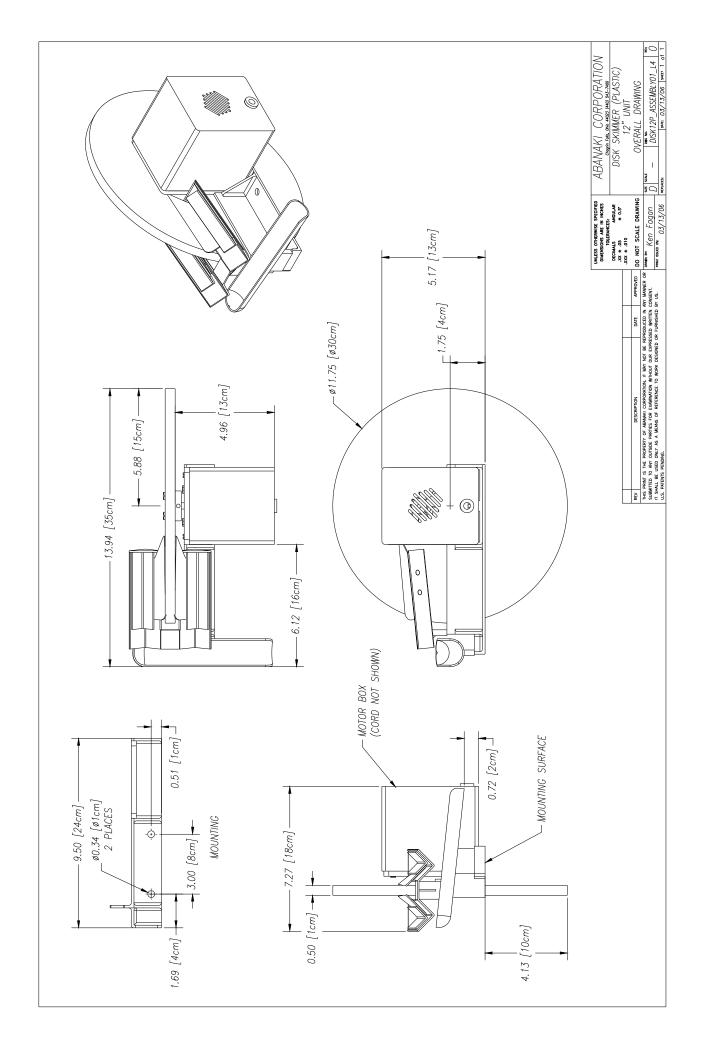
The inexpensive way to remove unwanted tramp oils from coolants and parts washers. New, sturdy, all plastic construction. Use it almost anywhere a flat surface is available for mounting. Weighs less than 9 pounds and installs in no time. Put it to work right out of the box.

#### Highlights:

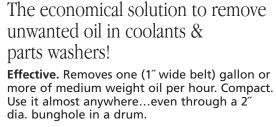
- 1. Disk available in 12" and 18" diameters.
- 2. 110v 60Hz. fan-cooled motor.
- 3. High temperature disk material available.
- 4. Quality all plastic construction.
- 5. Removes up to 1-1/2 gallons of medium weight oil per hour.



Spec:12040412-1 www.abanaki.com





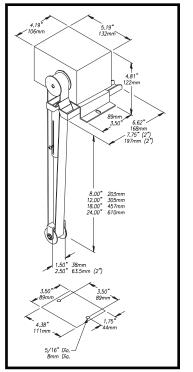


Portable. Use it here today, there tomorrow. Weights only 6 pounds, installs in seconds and runs on 110 v. power.

Complete. Put it to work right out of the box, or add the optional, easy-to-install decanter and brackets for an even more efficient system.

Durable. Constructed of tough engineered polymer and includes long life fan-cooled

30-day Money Back Guarantee. Every Abanaki skimmer is backed as well as it's built. We do it right or you don't pay!



#### Li'l Blue Skimmer

- Fan-cooled motor
- 1" oleophilic belts or specially-engineered plastic belts
- · Both sides of belt are wiped for better efficiency
- Engineered polymer base and housing
- · Spring-loaded stabilizer bar
- 3-foot clear discharge hose and clamp
- 8-foot grounded power cord w/plug
- · Stainless steel units available

Belt 1" (25.4mm) Capacity 1gph (3.8lph)

Models (Depth is measured from the bottom of Available the mounting base to the bottom of the

tail pulley)

Model MM 50-08 8" (203mm) Model MM 50-12 12" (305mm) Model MM 50-18 18" (457mm) Model MM 50-24 24" (610mm)

Standard Li'l Blue skimmers require 110v., 60-cycle electrical power. Models for 220v., 50-cycle are available.



Skimmerman<sup>1</sup>

# SKIMMERS

USA: 17387 Munn Road • Chagrin Falls, Ohio 44023

800-358-SKIM (7546) • (440) 543-7400 • FAX: (440) 543-7404

UK: Unit 13 • Avondale Business Centre • Woodland Way • Bristol BS15 1AW 0117 9616679 • FAX: 0117 9616687

www.abanaki.com



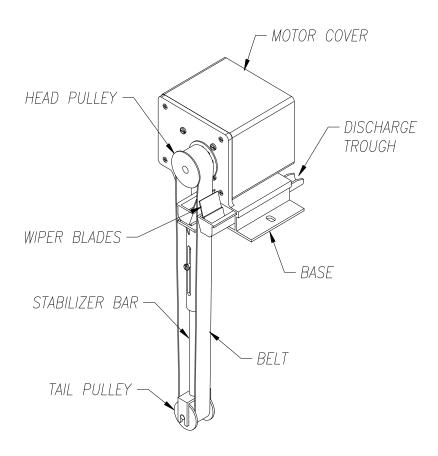
# Li'l Blue Skimmer

#### Quick Summary:

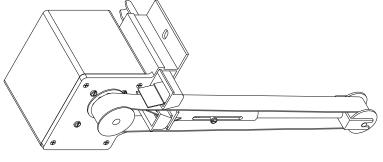
The economical solution to remove unwanted oil in coolants and parts washers. New, sturdy, polymer construction. Use it here today, there tomorrow. Weighs only 6 pounds and installs in seconds.

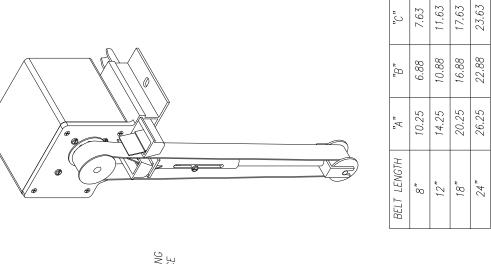
#### Highlights:

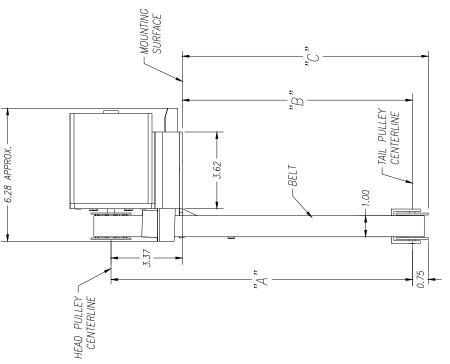
- 1. Fan-cooled motor.
- 2. 1" oleophilic belts or specially-engineered plastic belts.
- 3. Both sides of belt are wiped for better efficiency.
- 4. Engineered polymer base and housing.
- 5. Spring-loaded stabilizer bar
- 6. Weighs only 6 pounds.



Spec:12040412-1







- MOUNTING SURFACE

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– HEAD PULLEY

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TAIL PULLEY

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DECIMALS ANGULAR XX ± .05 ± 0.3°	.xxx ± .010	APPROVED DO NOT SCALE DRAWING	pour Br. Ken Fagan D	PRINT ISSUED ON: 09/17/09 REPLACES:
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ABANAKI CORPORATION

Dayon Fast, the 4882 (449) 845-7400

LIL' BLUE OIL SKIMMER

BELT LENGTH

LAYOUT DRAWING

AYOUT DRAWING

DAYOUT DRAWING

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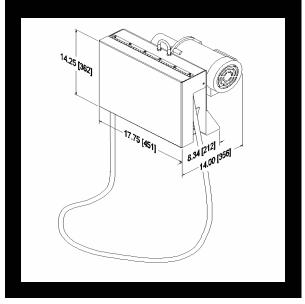
# The Oil Viper Tube Skimmer

The Abanaki *Oil Viper* tube skimmer effectively removes floating surface oils by means of a oleophilic (oil attracting) 3/4 inch diameter continuous looped tube. The tube extends out over the surface of the tank or pit and collects the free floating oils.

The Oil Viper's specially designed wiper mechanism uses an o-ring wiper attached to the tube along with an additional ceramic wiper on the skimmer to remove the collected oil from the tube. The result is a virtually oil free tube as it returns to the water for quicker oil removal. Removal rates can be as high as 100 gallons per hour.

The unit is powered by a fractional horse power TEFC in any voltage configuration. Explosion proof and wash down duty motors are available. An automatic shutoff switch turns the skimmer off when the cover is in the open position for safe and easy maintenance. The tube is available in lengths up to one hundred feet. Predrilled mounting holes in the bottom of the unit for easy mounting to any flat surface.

The Oil Viper is designed to remove all types of oil, making it perfect for use in any industrial or food processing industry where free floating oil is present.





## **Key Features:**

- Compact design fits almost any tank or pit.
- Explosion proof and wash down duty motors available.
- Tubes with up to 100 foot reach.
- Safety shut off switch for safe maintenance.
- Simple and effective drive design for lasting performance.
- Unique wiping system for more effective oil removal.
- Weighs 74 pounds.
- Units with removal rates of up to 100 gph.



ABAMAK<sup>®</sup> CORPORATION

17387 Munn Road Chagrin Falls, OH 44023 Phone: (440) 543-7400 Fax: (440) 543-7404 1-800-358-5KIM (7546) www.abanaki.com

# ABAWAKI

Oil skimming makes use of the differences in specific gravity between oil and water. These physical characteristics allow the tube to attract oil and other hydrocarbon liquids from the surface of the fluid. The *Oil Viper* can be used in tanks with depths as shallow as a few inches, or reach as far as 100 feet.

#### Where To Use The Oil Viper

The *Oil Viper* is a compact, versatile Abanaki skimmer. Its size and removal capacity make it suitable for most applications. From a mere shimmer on top of water to a heavy oil slick, the *Oil Viper* performs efficiently, removing up to 100 gallons of oil per hour.

#### Typical Applications

- Wastewater sumps
- Coolant systems
- Food processing plants
- Parking lots, garages and service facilities
- · Outdoor ponds, lakes and basins
- Underground tanks
- Ships bilges
- Aircraft service areas and tarmac runoff
- Truck, locomotive and other mobile equipment washing facilities
- Steel Manufacturing Plants

#### Rugged Construction for Harsh Conditions

The Oil Viper is designed to last for many years. With the proper configuration it can handle liquid temperatures up to 212°F, and the pH of the fluid can range from 3 to 13.

The skimmer drive includes an oil filled gear reducer with bronze gears and ball bearings. The motor, gear reducer, and powder coated finish of the weldments give the *Oil Viper* exceptionally long life, even under the harshest conditions.

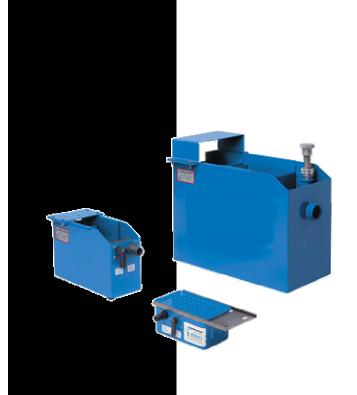


### Key Features of the Oil Viper:

- Requires only a small area in the tank or sump
- Easy mounting
- High temperature capability
- Chip resistant powder finish
- Carbon Steel or Stainless Steel Construction
- Custom designs and turnkey systems available
- Fast cleaning with minimal maintenance



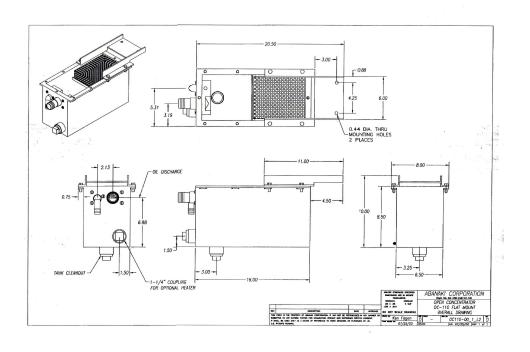
# TubeTastic! Series Oil Viper



## Abanaki's Oil Concentrators®

The Oil Concentrator® is an option available on almost all ABANAKI oil skimmers. Under Most operating conditions ABANAKI oil skimmers will pick up oil with less than 5% water. But as surface oil is reduced to a thin layer (1/16 to 1/8 inch thick), more water or coolant may also be picked up along with the oil. When used in tandem with the oil skimmer, an Oil Concentrator will solve this problem, and provides virtually complete oil/water separation, saving money and improving the efficiency of the skimmer.

Based on the principle of gravity separation, the Oil Concentrator uses no electricity, timers, sensors, pumps, or other moving parts. The Oil Concentrator sits behind the skimmer and receives its discharged oil. The unit comes complete with a mounting bracket, removable sludge screen and a drain plug to ease clean up. For higher viscosity oils or low temperature applications, a thermostatically controlled heater is available as an option.



#### TubeTastic! Series

# Oil Viper Tube Skimmer

Abanaki has thousands of skimmers installed worldwide at leading companies such as...

American Cyanamid Armstrong World Industries Bethlehem Steel

Boeing British Steel

Bureau of Reclamation

Caterpillar Chevron

Corning **Dow Chemical** 

Eaton Flying J

Ford Motor General Electric

Henry Filters Honda John Deere

Kaiser Aluminum

Lockheed Mazak

Monroe Auto Equipment New York Power Authority

Nissan Motor

Norfolk Southern Railroad Nucor-Yamato Steel

**Outboard Marine TRW** 

Union Pacific Railroad

**United Airlines** 

**USS Great Lakes Fleet** 

Volvo AB Wartsila Diesel

Westinghouse Electric

### Other Oil Skimming Products From Abanaki

#### Model 4®

#### For Most Applications

Single 8-inch wide belt (20.3 cm)

Any length belt

Capacity: 40 GPH (151.4 LPH)

#### Model MB®

#### For High Volume

Two to five 8-inch belts (20.3 cm)

Any length belts

Capacity: to 200 GPH (757.1 LPH)

#### Tote-It® Portable

#### **Portable for Moderate Capacity Applications**

Single belt: 2-inch or 4-inch (5.1 or 10.2 cm) Belt length: 1'- 6" to 5'-0" (45.2 to 152.4 cm) Capacity: 6 GPH - 2" belt (15.1 LPH - 5.1 cm belt) 12 GPH - 4" belt (22.7 LPH - 10.2 cm belt)

#### Mighty Mini®

Small Applications (Parts Washers, CNC Machines, 55 Gal. Drums)

Single belt: 1-inch or 2-inch (25.4 or 50.8 mm) Belt length: 6", 12", 18", 24" (153, 305, 458, 610 mm)

Capacity: 1 GPH - 1" belt (3.81 LPH)

2 GPH - 2" belt (5.71 LPH)

# **Specifications:**

Oil Removal Up to 100 gph (378 lph).

Rate Rate is based on 30 weight oil in water

at ambient temperature

Fractional hp, TEFC, gear motor operating on either 115/230VAC, single phase, 60Hz Motor

or 230/460VAC, three phase, 60Hz. **Optional:** 50Hz power source; explosion proof; drip proof; pneumatic; and WD duty.

Tube Dia. 3/4" O.D.(2 cm)

Wiper

Tube Length Up to 100 (30 m) foot reach.

Tube Standard synthetic material for wastewater Material applications not involving high temperature

or chemical applications.

Rough service synthetic material for higher temperature and chemical applications.

Nitrile & ceramic wiping system completely removes the oil collected on the tube.

Mounting Standard flat mount using an eight bolt hole Method pattern with oil discharge through a 4" n.p.t.

(10 cm) pipe fitting.

Weight Drive assembly and housing with motor,

without collector tube: 74 lbs. (34 kg) Collector tube weight determined by its

**Options** 4 ft. (1.2 m) vertical mounting stand.

304 stainless steel construction.

Float switch with signal light (fits 3/4" drum bung) to prevent discharge drum overflow.

Timer and electrical controls.

Wiper Rings	Temperature of Liquid	pH 3-5 (acidic)	pH 6-8 (neutral)	pH 9-14 (alkaline)
	33℉-175℉ (.05℃-80℃)	CRV	CRV Nitrile	CRV Nitrile
	175年-212年 (80℃-100℃)	CRV	CRV	CRV
Tubes	Temperature of Liquid	pH 3-5 (acidic)	pH 6-8 (neutral)	pH 9-14 (alkaline)
	33℉-175℉ (.05℃-80℃)	Super Poly	Poly	Super Poly
	175年-212年 (80℃-100℃)	Super Poly	Super Poly	Super Poly





# **OIL SKIMMERS**

USA: 17387 Munn Road, Chagrin Falls, Ohio 44023

800-358-SKIM (7546) (440)543-7400 FAX: (440)543-7404 Unit 13 Avondale Business Center Woodland Way Bristol BS15 1AW

0117 9616679 FAX: 0117 9616687

www.abanaki.com

# Oil Viper Tube Skimmer

#### Quick Summary:

Removes floating surface oils in industrial or food processing use.

Effectively removes floating surface oils by means of a oleophilic (oil attracting) 3/4 inch diameter continuous looped tube. The tube extends out over the surface of the tank or pit and collects the free floating oils.

The Oil Viper has a specially designed method for removing the oil from the tube. It has a unique wiper combination attached to the tube itself in addition to the ceramic wiper on the skimmer. The result is a virtually oil free tube as it leaves the skimmer for quicker oil removal. Removal rates can be as high as one hundred gallons per hour.

#### *Highlights:*

- 1. Compact design fits almost any tank or pit.
- 2. Explosion Proof motors available.
- 3. Tubes with up to 100 ft. reach.
- 4. Safety shutoff switch for safe maintenance.
- 5. Simple and effective drive design for lasting performance.
- 6. Unique wiping system for more effective oil removal.

