

AERATION SYSTEM RECORD INFORMATION

SUNSET ELECTRIC
POWER & CONTROL SYSTEMS
P. O. BOX 752
WILDOMAR, CA 92395
(714) 678-4183
Contr. Lic. #203855

Approved
PJ.

"Motor and Pump Control At Its Best"

DEAR BOB,

PLEASE FIND ENCLOSED PROPOSED METHOD OF
INSTALLATION & MATERIAL CUTS FOR AERATION
SYSTEM LAKE EVANS. PLEASE REVIEW & ADVISE.
YOUR PROMPT ATTENTION WILL MOST APPRECIATIVE.

CORDIALLY

Larry C. Preston

LARRY C. PRESTON
SUNSET ELECTRIC

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METHOD:

INSTALL 2" RIGID GAL. CONDUIT FROM DESIGNATED POLE TO MYERS PEDISTAL. USE 24" RADIUS SWEEPS & STUB 8' MINIMUM UP POWER POLE AS PER CITY OF RIVERSIDE UTILITY CODES.

INSTALL 1 1/2" SCH. 40 P.V.C FROM MYERS PEDISTAL TO PULL BOX ON SHORE LINE. CONTINUE ACROSS LAKE TO PULL BOX ON OPPOSITE SHORE LINE. CONDUIT WILL BE WEIGHTED WITH CONCRETE ANCHORS SUFFICIENT TO SINK CONDUIT. ANCHORS SHALL BE SECURED TO CONDUIT WITH STEEL CABLE ATTACHED WITH MINERALAC HANGERS & CABLE CLAMPS. TERMINATE 1 1/2" P.V.C IN AERATION VAULT WITH SAFTEY SWITCH. MOUNT PUMP PANEL & RELATED EQUIPMENT ON VAULT WALL FOR AERATION PUMPS. PULL 3 #4 POWER WIRES & 1 #8 SYSTEM GRD TO AERATION VAULT.

PROVIDE PROTECTION FROM TRAFFIC FOR MYERS PEDISTAL. USE EXISTING BUMPERS OR INSTALL AS REQUIRED.

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NOTES:

PLEASE REFER TO PLAN SHT. #9 D-431 FOR
EXPLANATION & LOCATION OF THE FOLLOWING:

1 MYERS UNDERGROUND METERING PEDISTAL
TO COMPLY WITH CITY OF RIVERSIDE REQUIREMENTS

2 # 3 1/2 UNDERGROUND PULL BOX AS MANUFACTURED
BY ASSOCIATED CONCRETE PRODUCTS OR EQUAL WITH
BOLT DOWN LID.

3 UNDERGROUND VAULT FOR AERATION SYSTEM &
RELATED EQUIPMENT.

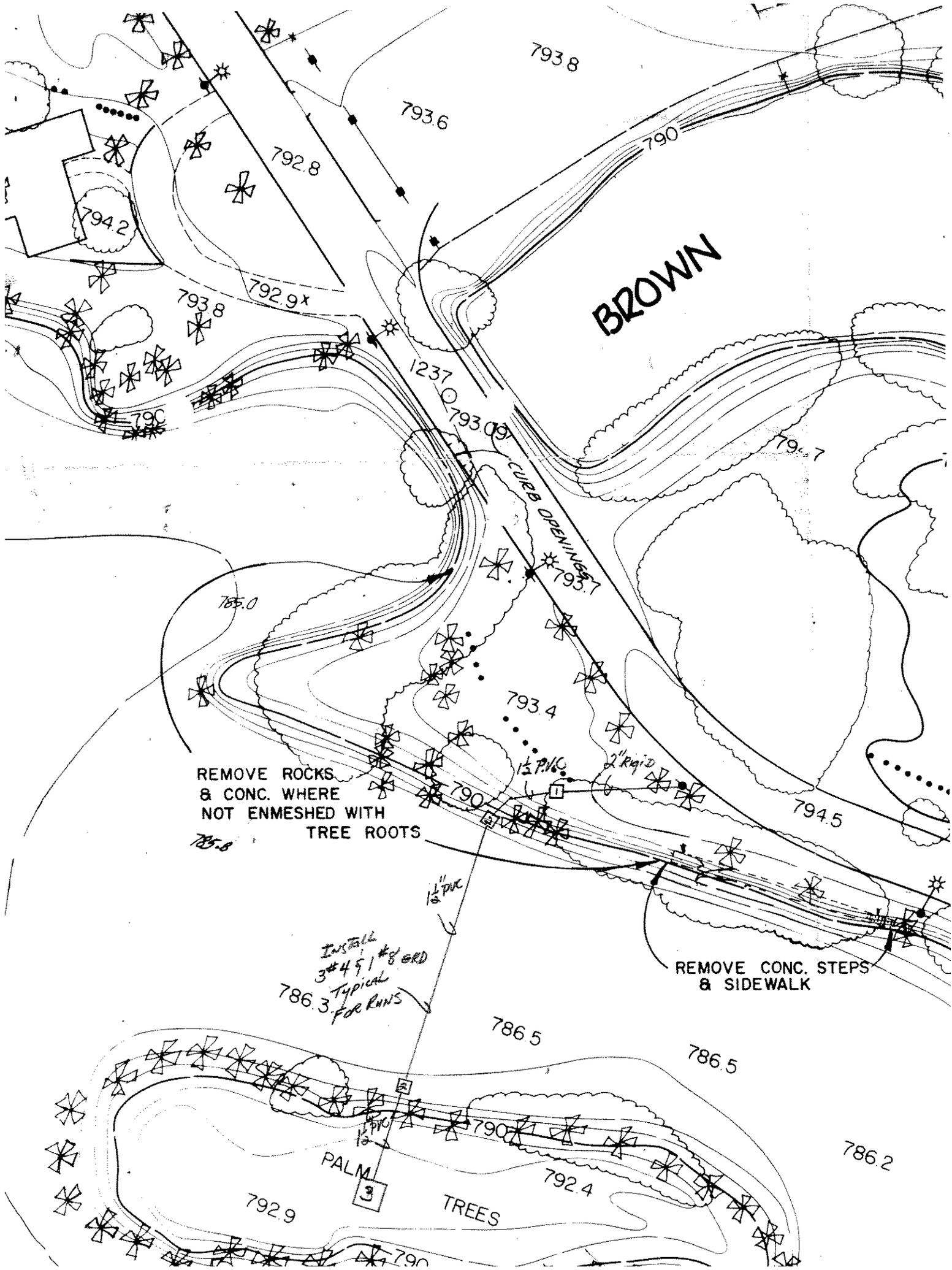
CONDUIT: 1 1/2" SCH. 40 PVC & 2" RIGID GAL. AS REQUIRED.

WIRE : #4 THWN OR THWN 600 VOLT RATED
#8 GRD WIRE

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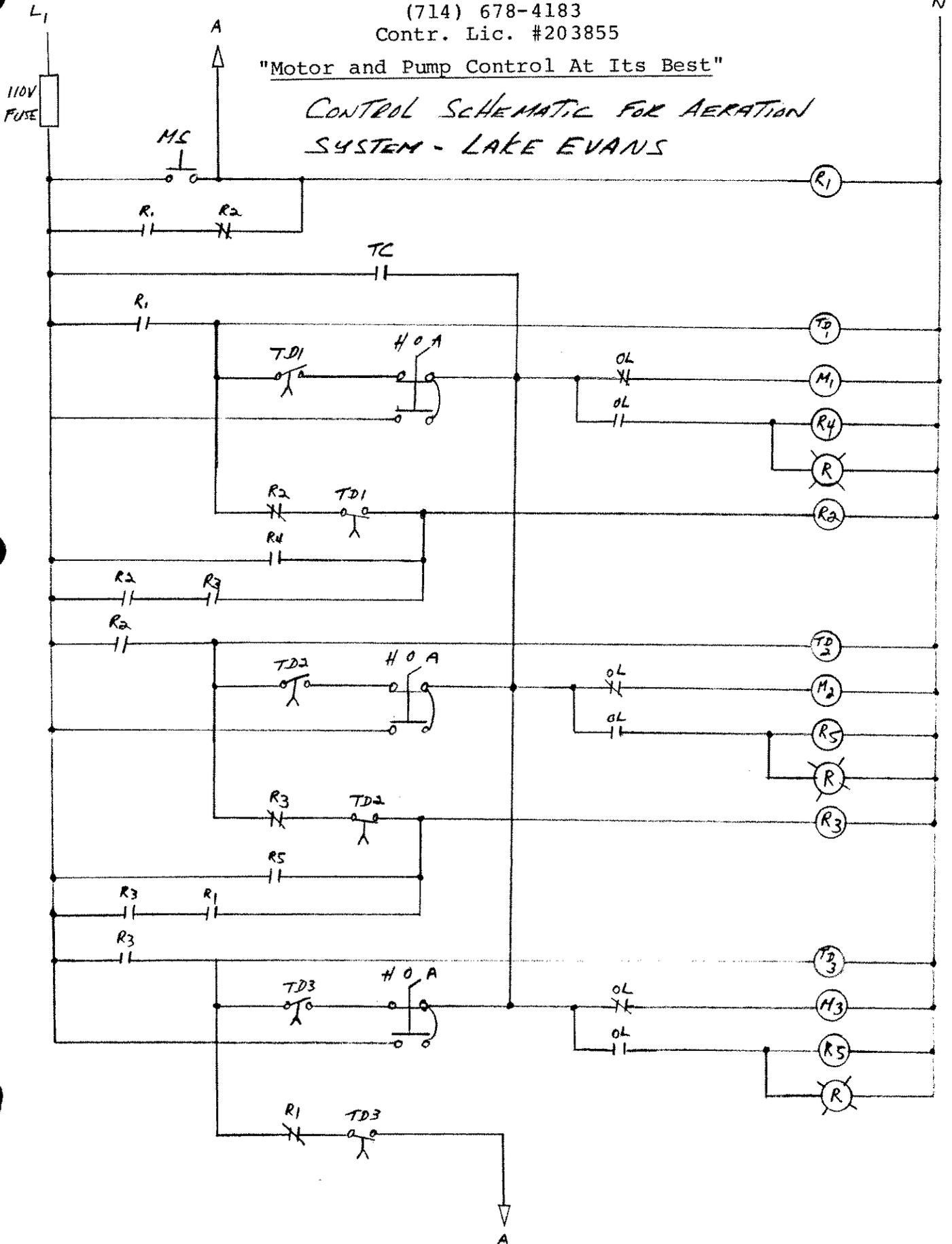
PUMP PANEL SHALL CONSIST OF KLOKNER MOELLER
EQUIPMENT MOUNTED IN A COMMON ENCLOSURE.
ENCLOSURE SHALL BE NEMA 3 WITH BREAKER, STARTERS,
OVERLOAD RELAYS H.O.A. SWITCHES & CONTROL COMPONENTS
AS NECESSARY FOR CONTROL CIRCUIT.



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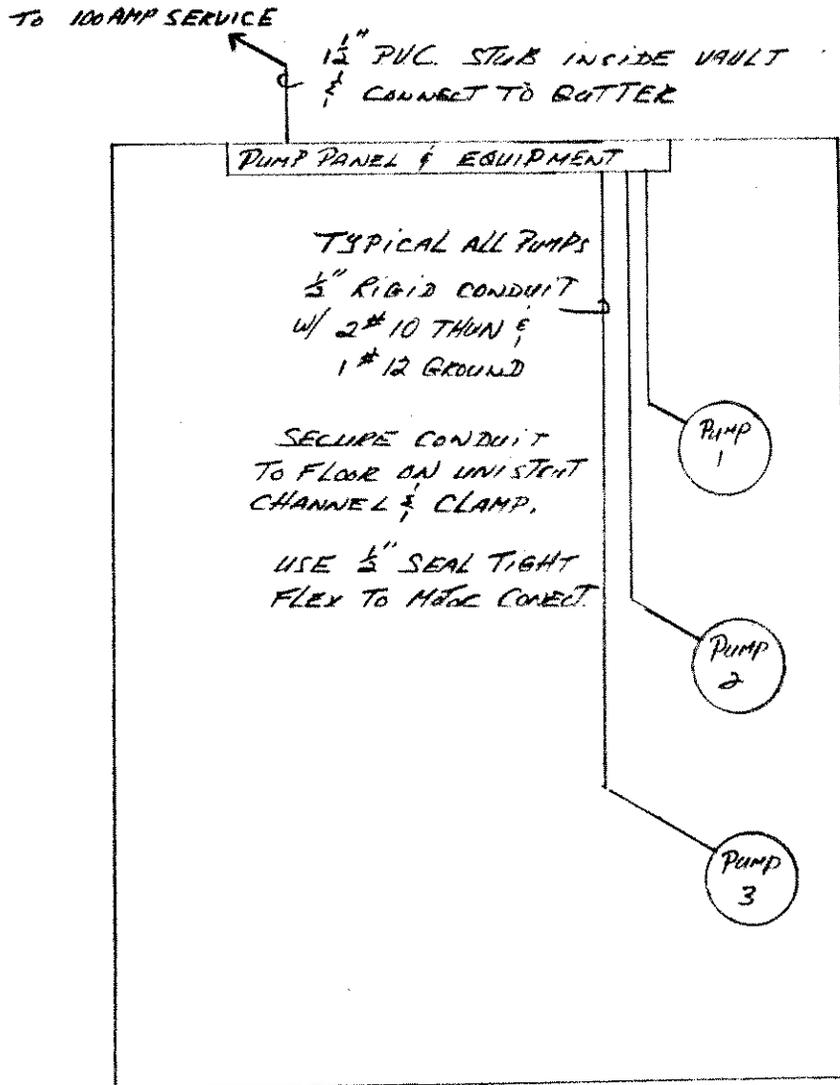
CONTROL SCHEMATIC FOR AERATION
 SYSTEM - LAKE EVANS



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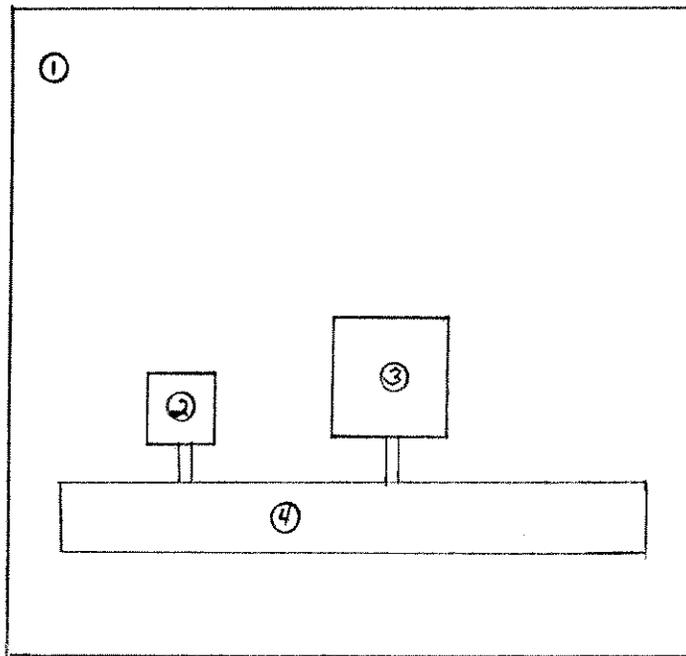
AERIAL VIEW OF VAULT
ELECTRICAL LAYOUT TO PUMPS



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EQUIPMENT BOARD LAYOUT

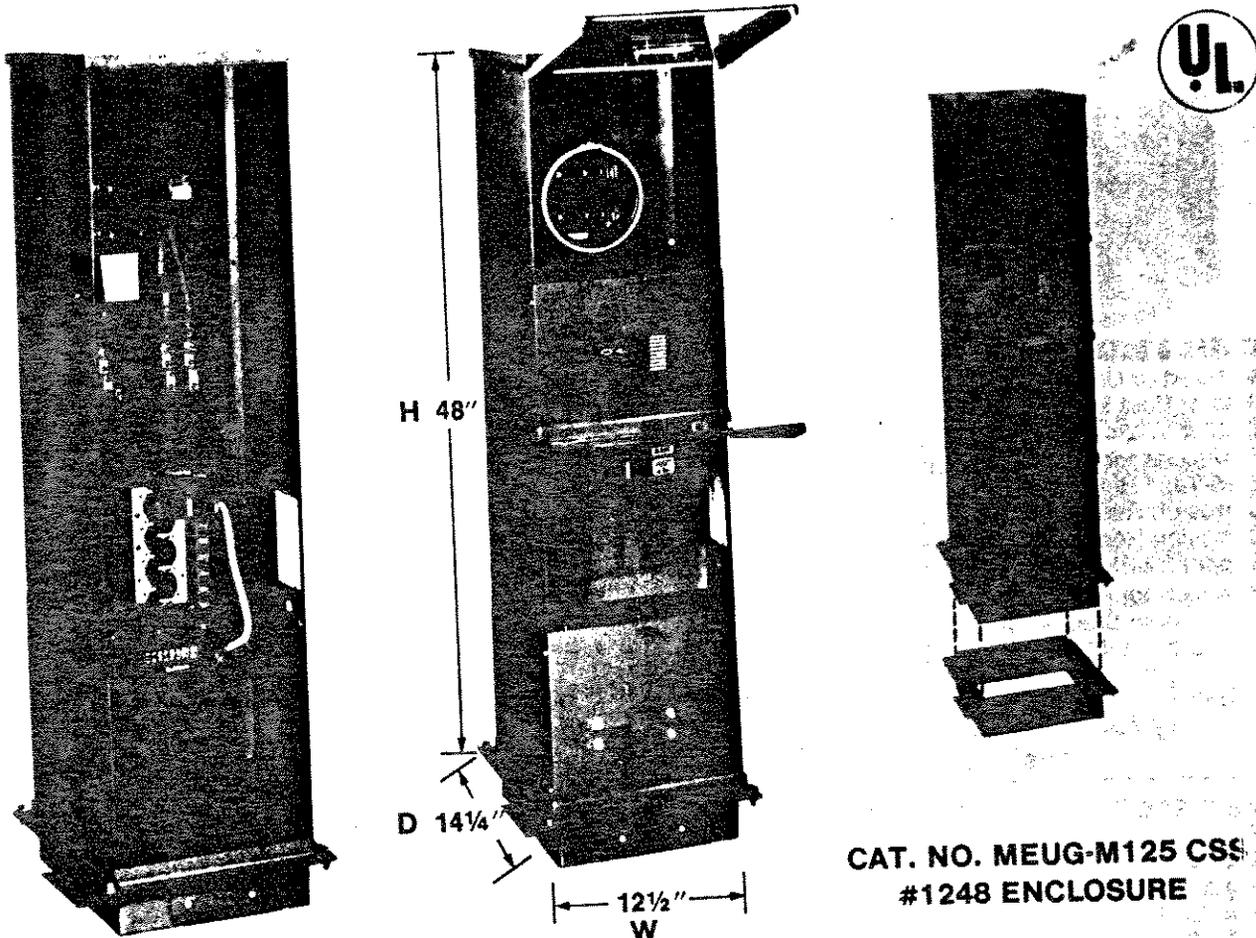


- ① $\frac{3}{4}$ " PLYWOOD - PAINT EQUIPMENT GRAY - MOUNT ON VAULT WALL
- ② 100 AMP 1Ø 240V SAFETY SWITCH SQUARE 'D' OR EQUAL
- ③ PUMP PANEL & RELATED EQUIPMENT AS DESCRIBED
- ④ 4" X 4" X 36" GUTTER

NOTES: ALL EQUIPMENT SHALL BE NEMA 3 RATED

TYPE MEUG-M

Underground Service Pedestal to Isolated Areas Cal Trans Type IIIB Service Per Spec ES-2D



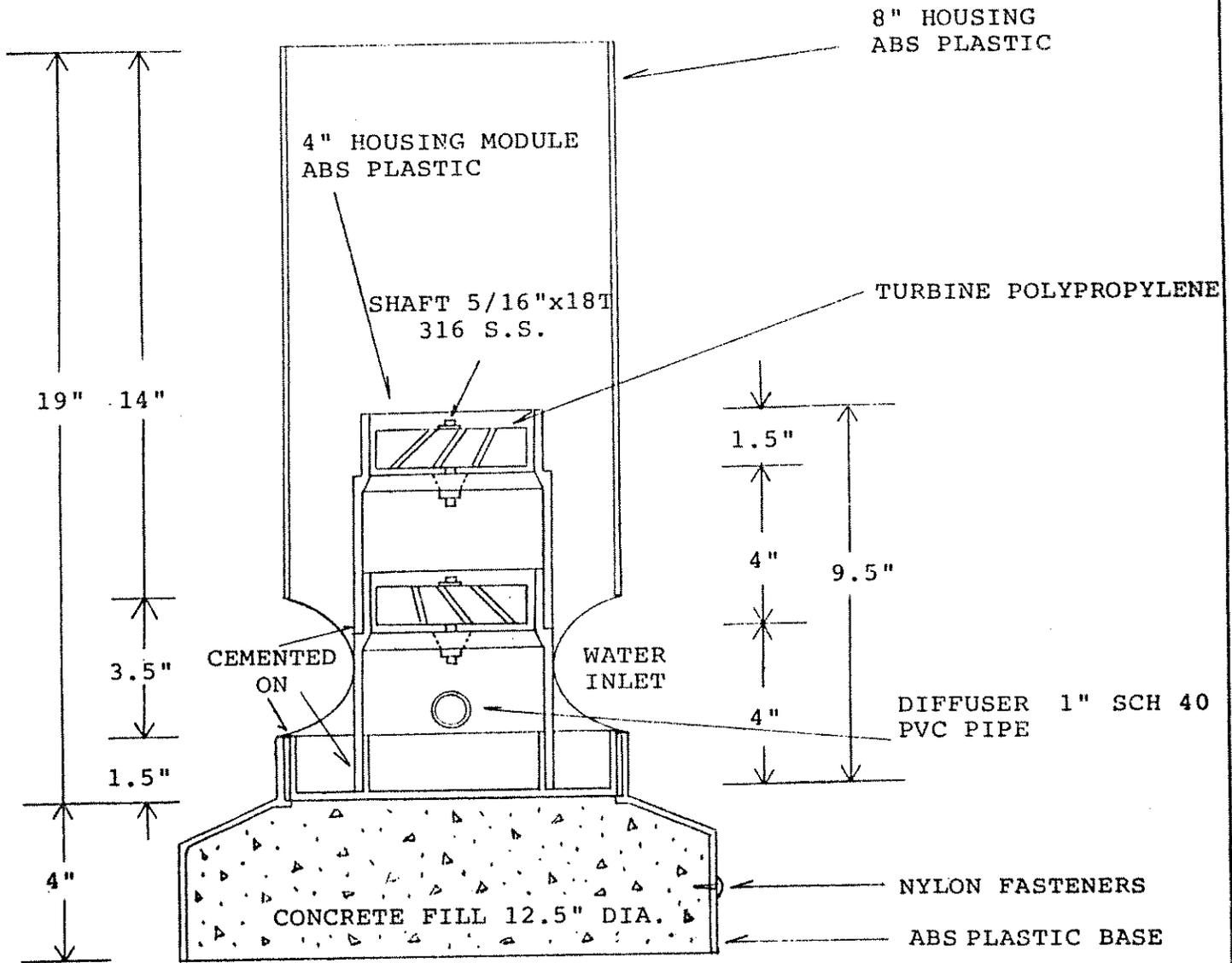
**CAT. NO. MEUG-M125 CSS
#1248 ENCLOSURE**

FEATURES & DATA:

- Copper bussed circuit breaker interior has provisions for twelve full one-inch poles (including main).
- Rating: 100, 125 or 200 Amp (see table) 120/240 VAC.
- Interior will accept plug-in breakers. (Murray, GE, Westinghouse, ITE, Bryant or American Switch).
- Rear service pull section, depth 4 1/2 inch for 100 or 125 Amp units and 6 inch for 200 Amp units.
- Rear access opening provided at bottom of service pull section.
- Heavy gauge corrosion resistant steel construction.
- Raintight enclosure incorporates baffled louvers to provide adequate ventilation assuring condensation free operation.
- Piano hinged doors, padlock provisions.
- Corrosion resistant hardware.
- Detachable pad-mount sleeve provides pre-installation in concrete pad.
- Standard finish: Environmental green baked enamel conforming to ASTM-B17 specifications, over corrosion resistant zinc chromate primer.
- Factory installed photo cell twistlock socket available.
- Utility approved safety sockets, including test blocks provided in all "S" units.
- Also available without main breaker
- Accepted by:
 - City of Los Angeles, Dept. of Water & Power
 - Southern Calif. Edison Co.
 - San Diego Gas & Electric (Factory Quoted)

*For other VAC ratings, consult factory.

NAED NO.	CAT. NO.	AMPS. (MAIN)	VAC *	PHASE	ENCLOSURE SIZE		
					H	W	D
39120	MEUG-M100C	100	120/240-3W	1	48	12 1/2	14 1/4
39121	MEUG-M125C	125	120/240-3W	1	48	12 1/2	14 1/4
39122	MEUG-M200C	200	120/240-3W	1	48	16	18
39123	MEUG-M100CSS	100	120/240-3W	1	48	12 1/2	14 1/4
39124	MEUG-M125CSS	125	120/240-3W	1	48	12 1/2	14 1/4
39125	MEUG-M200CSS	200	120/240-3W	1	48	16	18



U.S. PATENT #4272461

RAMCO SALES INC.

403 W. 21st STREET
SAN PEDRO, Ca 90731

8/4 "MASP"

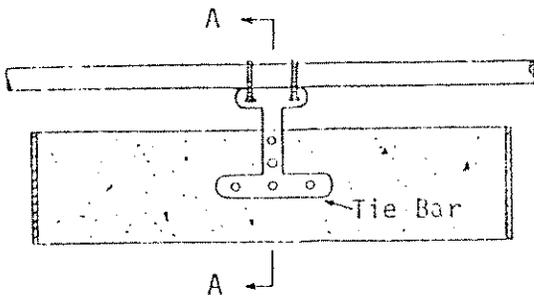
DRAWN BY	S.H.	APPROVED	D.F.	DRAWING NO SK 4140 M
DATE	01-21-87	REVISED		



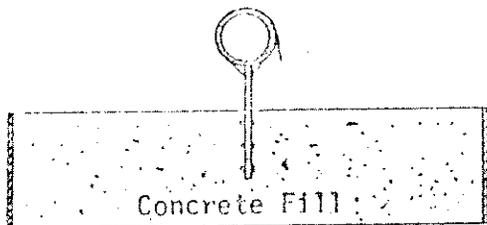
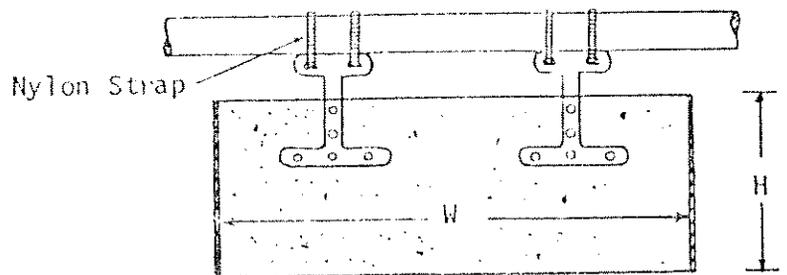
RAMCO

Subject AIRLINE ANCHORS Sheet of
 (CIRCULAR OR SQUARE) Date 9-9-82
 By L.G. Checked by R.C. Job No. SK 4161

2" Diam. Airline and smaller



2½" Diam. Airline and larger



Concrete Fill

Section A-A

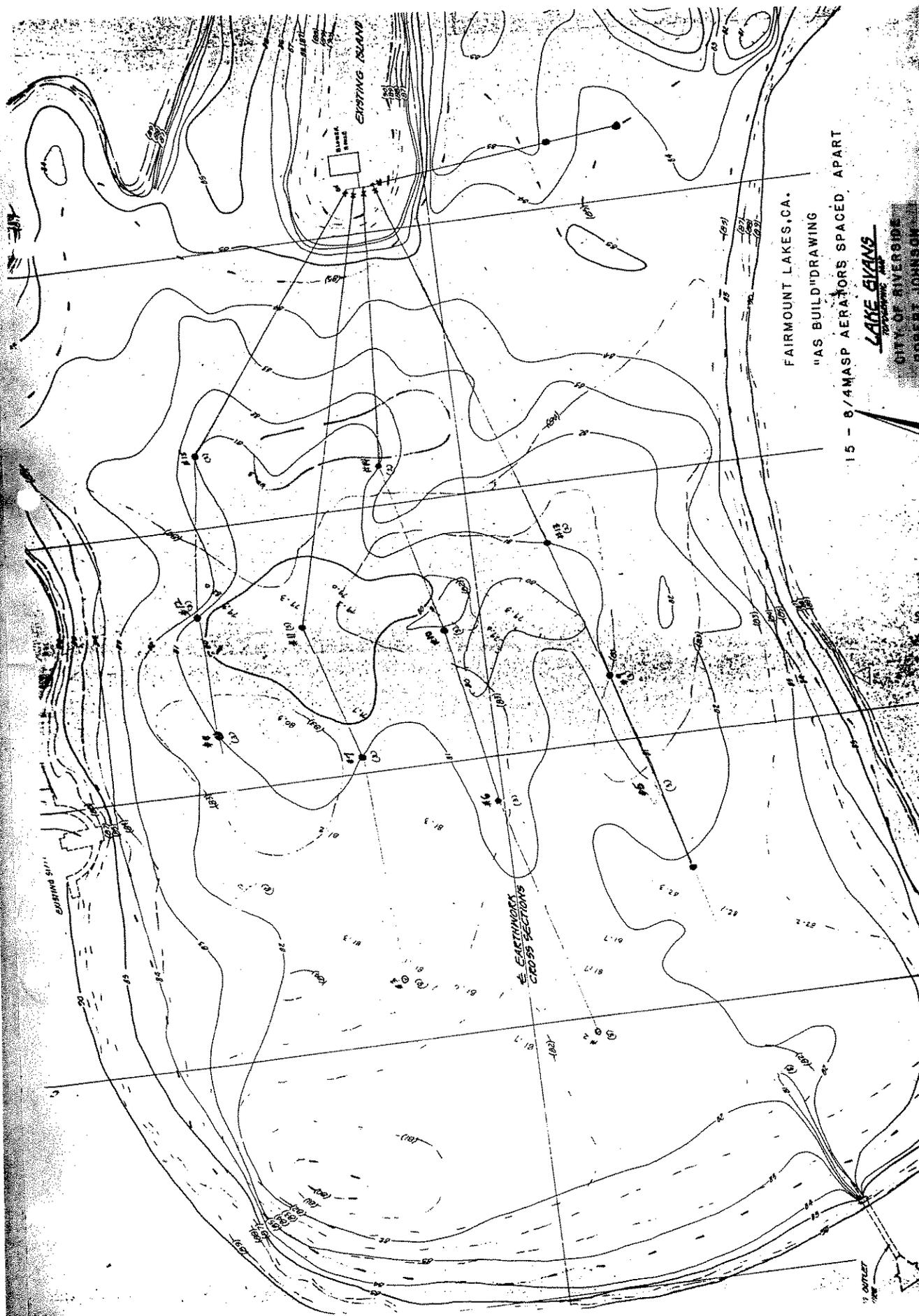
W	H	Wt. in Air lbs.
12" Dia.	3"	30.3
12" Dia.	4"	40.4
12" Dia.	6"	60.3
15" Dia.	3"	45.6
15" Dia.	4"	60.8
18" Dia.	5½"	100
12" Sq.	3"	37.8
12" Sq.	4"	50.0
15" Sq.	3"	58.6
15" Sq.	4"	78.1
MAT base	5½"	39.7

MAXIMUM ANCHOR SPACING

WEIGHT IN AIR	100 lbs.	60 lbs.	50 lbs.	40 lbs.	30 lbs.	20 lbs.
3"	12 Ft.	10 Ft.	8 Ft.	7 Ft.	--	--
2½"	20 "	18 "	15 "	12 "	8 Ft.	6 Ft.
2"	25 "	25 "	20 "	15 "	12 "	8 "
1½"	--	--	30 "	30 "	20 "	15"
1¼"	--	--	--	--	25 "	20"
1"	--	--	--	--	30 "	30"

Tie Bar constructed of durable polypropylene.
 Solar treated nylon strap tested to 120 lbs. tensile strength.

NOTE: Extreme cold temperature may require additional security.
 Use a nylon or rayon cord 3/16" or heavier. This should be looped around pipe and secured to Tie bar or base.
 Nylon straps should be snug fit with some slack.



FAIRMOUNT LAKES, CA.
"AS BUILT" DRAWING

15 - 8/4 MASP AERATORS SPACED APART

LAKE EVANS
CITY OF RIVERSIDE
ROBERT JOHNSON

OUTLET

Condé Pumps

**The
air pumps
that keep on
pumping.**

Condé Pumps: Our air pumps can do whatever you need done.

At Condé, we make different pumps for a lot of different low pressure and vacuum applications.

Basically, they fall into two categories: Dri-Air Pumps—which require no lubrication—and Vapor-Oiled Pumps. Both are available in several sizes, specifically, Dri-Air models from 1/2 cfm to 60 cfm, no load. And Vapor-Oiled models from 16 cfm to 60 cfm, also no load.

Our selection of pump and motor sizes allows Condé to custom-design the best combination—our pump only—you need for your specific application. You see, when you buy a Condé pump, you won't buy a pump that was designed to do some other job.

You'll get the pump we designed to do *your* job. What's more, you'll also appreciate knowing we have a full line of pump accessories—in all the right capacities—to complement each pump unit. When necessary, we can also provide you with whatever special accessories your Condé-customized pump may require.

When it comes time to replace parts, we stock and sell them all. And if you need them fast, don't worry. We'll get them to you fast.

Our pumps can be serviced fast, too. Because not only are they extremely dependable, they're also extraordinarily serviceable. This is due to the fact that the common denominator of all Condé pumps is their simple design which makes them very easy to repair.

Which is just one more reason why Condé pumps are the pumps that keep on pumping.

Behind every Condé Pump is a Condé.

We're a family-owned business. That's me, Al Condé, pictured on this page. When you call Condé Pumps, you'll be talking to me. Now I don't pretend to be the smartest man in the world, but do know an awful lot about our pumps. By telling me what you need a pump to accomplish, 99 times out of 100 I can immediately tell you what's best for your needs.

So can Condé distributors who are located in major industrial areas and will be referred to you for prompt personal service along with our personal advice.

Our personal service at Condé is not only something we believe you'll personally appreciate, it's one heck of a shortcut. You'll save time, effort and money by talking directly to us.

What's more, you'll get the right pump (or pumps) that's right for your needs, and you'll get it right on time.

You may have my word on that.

Before you buy a Condé Pump, you can try a Condé Pump.

There are a lot of good reasons to do business with Condé, but if you're the doubting-Thomas type, this could be the best one:

Our No-Charge Evaluation Offer.

We invite qualified OEM accounts to try a Condé Pump—at absolutely no cost or obligation—before you buy it. Put it to work and see if it isn't everything we say it is. If you're at all unhappy with it, just return it.

This unheard of offer, unique to our industry, is not as crazy as it sounds. There is, after all, a method to our madness. We've made this offer hundreds of times since 1950 and in this time span we've had very few returned.

The odds are clearly in our favor that you'll be pleased, too.

After you buy a Condé Pump, rest assured.

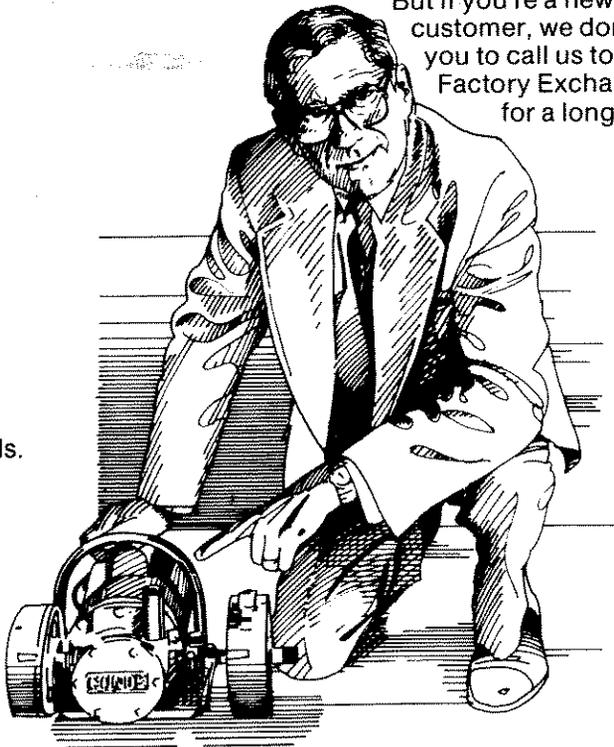
We've been making Condé Pumps for over 40 years. They're all designed, engineered and manufactured in our modern plant in Sherrill, New York. And they're all built to last.

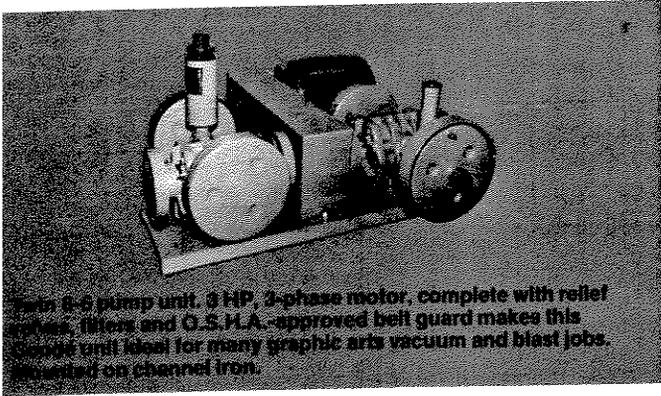
But eventually, all good things must come to an end. Condé Pumps are no exception. Someday you'll need to replace them.

When that day comes, rest assured. Because we offer a rather unique Factory Exchange Program. It's quite simple, too. Ship us your used Condé Pump and we'll send you a rebuilt one at a reasonable cost.

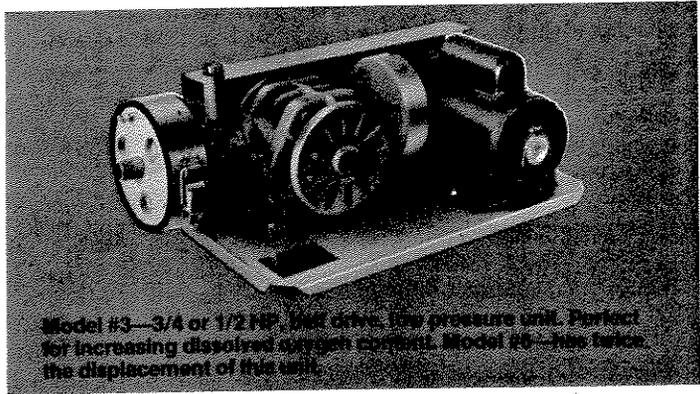
The value of your old Condé Pump—if the castings are salvageable—will, more than likely, be greater than you think. Which means your out-of-pocket cost for a rebuilt pump will be less than you think. Obviously, because pump prices vary, we'd like you to call us for complete details when the need arises.

But if you're a new Condé customer, we don't expect you to call us to discuss our Factory Exchange Program for a long, long time.

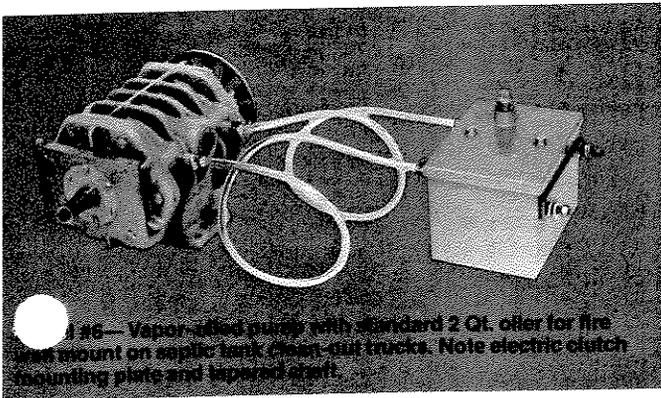




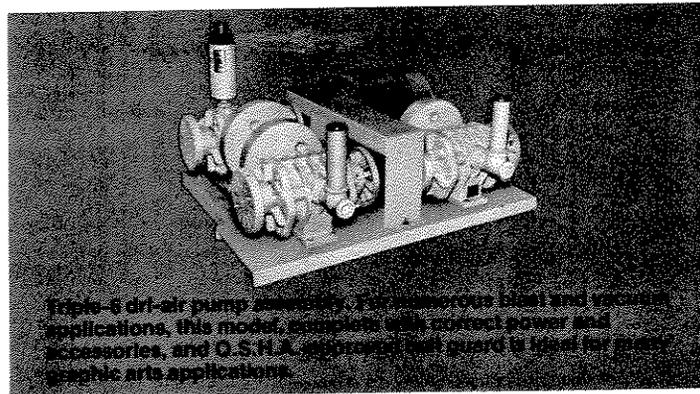
Model #6-6 pump unit, 3 HP, 3-phase motor, complete with relief valves, filters and O.S.H.A.-approved belt guard makes this vacuum unit ideal for many graphic arts vacuum and blast jobs. Mounted on channel iron.



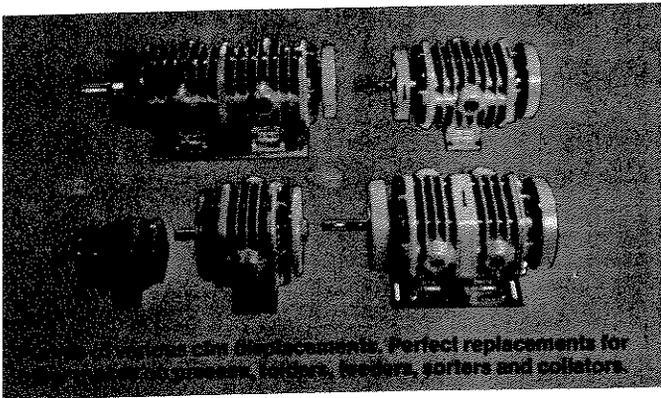
Model #3—3/4 or 1/2 HP, belt drive, low pressure unit. Perfect for increasing dissolved oxygen content. Model #5—has twice the displacement of this unit.



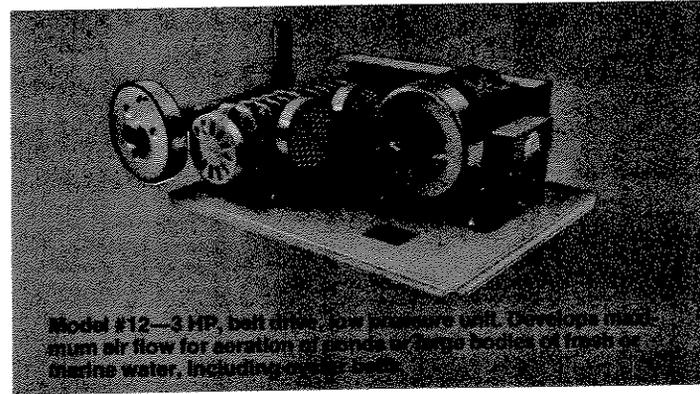
Model #5—Vapor-aided pump with standard 2 QI. offer for fire and mount on applic tank clean-out trucks. Note electric clutch mounting plate and tapered shaft.



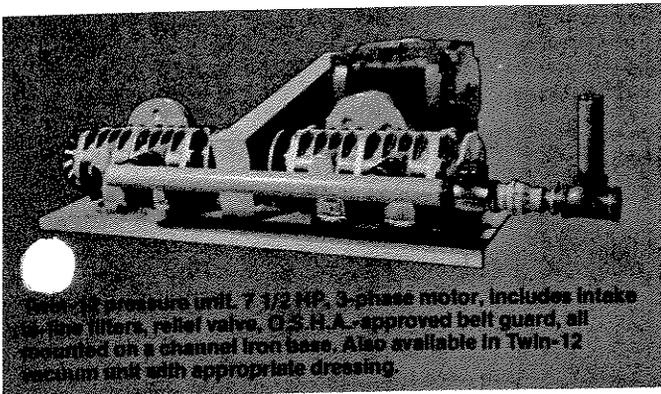
Model #6 dri-air pump assembly. For numerous blast and vacuum applications, this model, complete with correct power and accessories, and O.S.H.A.-approved belt guard is ideal for many graphic arts applications.



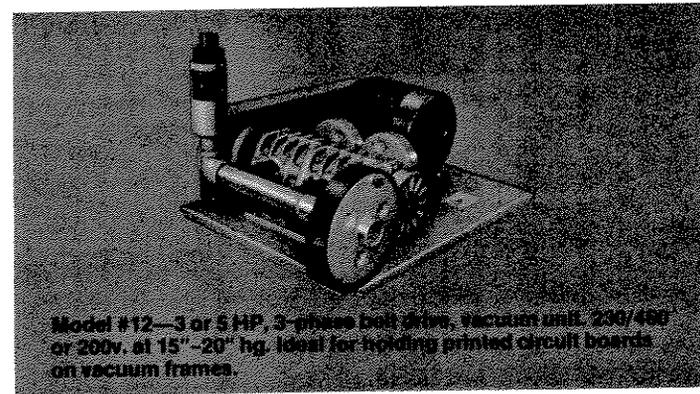
Four different motor sizes. Perfect replacements for applications in presses, rollers, feeders, sorters and collectors.



Model #12—3 HP, belt drive, low pressure unit. Develops maximum air flow for aeration of ponds or large bodies of fresh or marine water, including water beds.

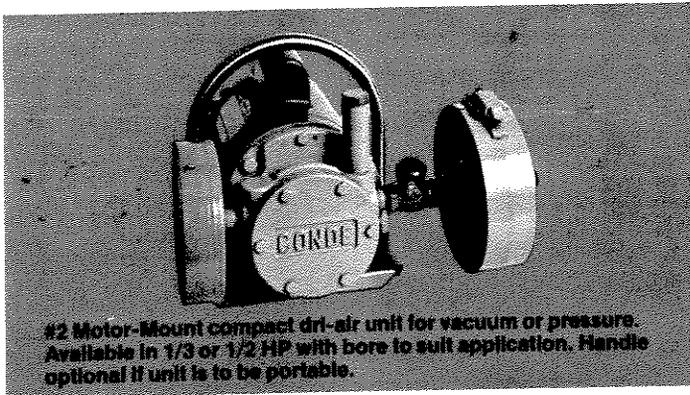


Model #12 pressure unit, 7 1/2 HP, 3-phase motor, includes intake air-line filters, relief valve, O.S.H.A.-approved belt guard, all mounted on a channel iron base. Also available in Twin-12 vacuum unit with appropriate dressing.

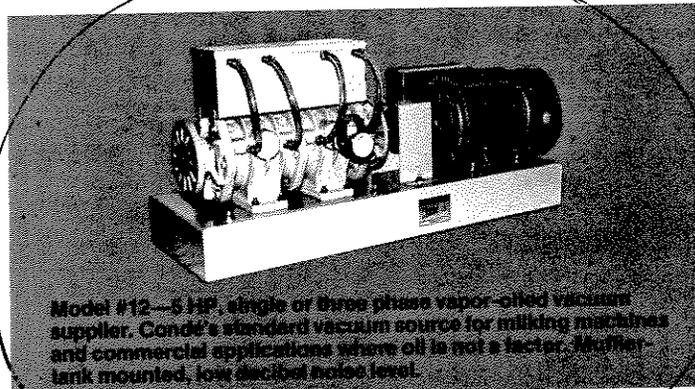


Model #12—3 or 5 HP, 3-phase belt drive, vacuum unit. 230/460 or 200v. at 15"-20" hg. Ideal for holding printed circuit boards on vacuum frames.

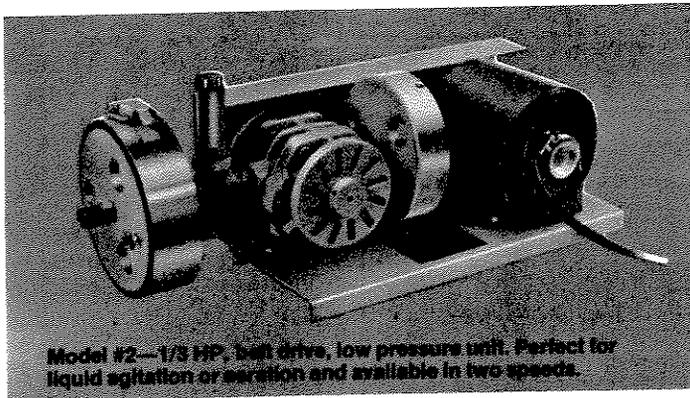
Condé Dri-Air and Vapor-Oiled high vacuum, low pressure, rotary, positive displacement pumps. For whatever, wherever, whenever.



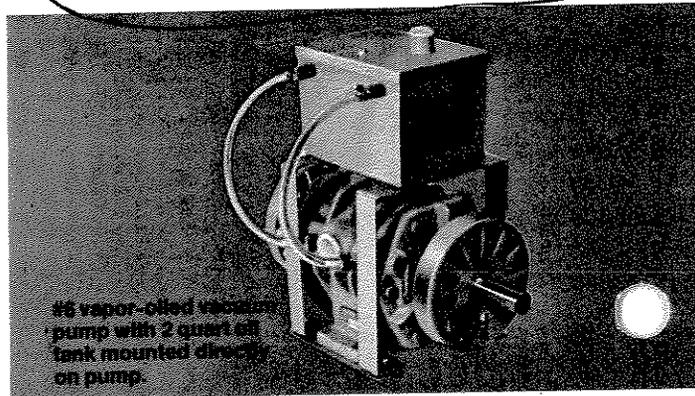
#2 Motor-Mount compact dri-air unit for vacuum or pressure. Available in 1/3 or 1/2 HP with bore to suit application. Handle optional if unit is to be portable.



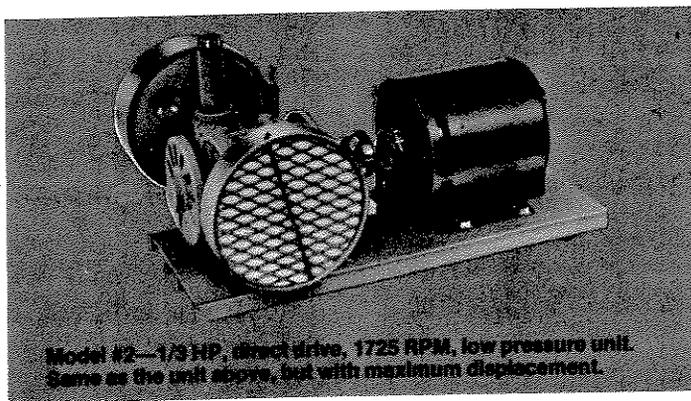
Model #12—5 HP, single or three phase vapor-oiled vacuum supplier. Condé's standard vacuum source for milking machines and commercial applications where oil is not a factor. Muffler tank mounted, low decibel noise level.



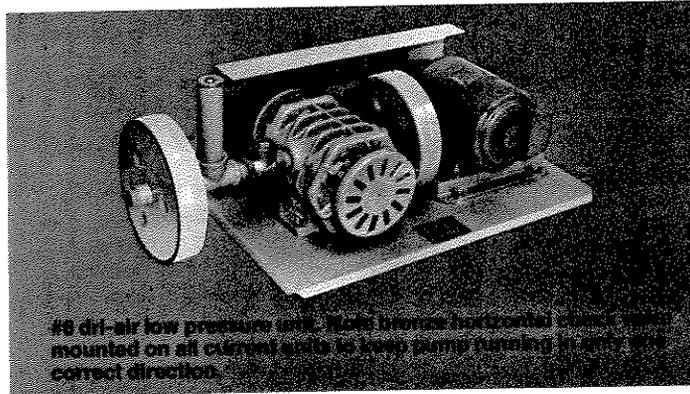
Model #2—1/3 HP, belt drive, low pressure unit. Perfect for liquid agitation or aeration and available in two speeds.



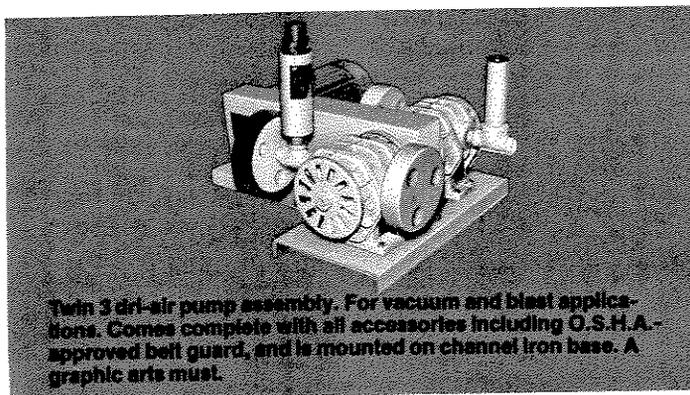
#6 vapor-oiled vacuum pump with 2 quart oil tank mounted directly on pump.



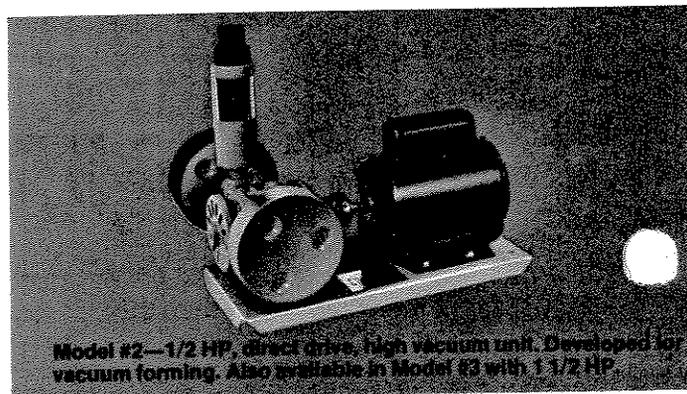
Model #2—1/3 HP, direct drive, 1725 RPM, low pressure unit. Same as the unit above, but with maximum displacement.



#8 dri-air low pressure unit. Note bronze horizontal crank shaft mounted on all curved ends to keep pump running in only one correct direction.



Twin 3 dri-air pump assembly. For vacuum and blast applications. Comes complete with all accessories including O.S.H.A.-approved bell guard, and is mounted on channel iron base. A graphic arts must.



Model #2—1/2 HP, direct drive, high vacuum unit. Developed for vacuum forming. Also available in Model #3 with 1 1/2 HP.

the low pressure or vacuum pump—or unit—right for you isn't right before your eyes, don't worry.

We can custom manufacture the one (or one hundred), right for you.

You see, at Condé, we have the capabilities to make many as you need.

But as you can plainly see, we already make a wide selection of pumps and pump units. Belt-drive and direct drive, $\frac{1}{3}$ to $7\frac{1}{2}$ HP, $\frac{1}{2}$ to 60 CFM, and Dri-Air and Vapor-Oiled models make the Condé combinations almost endless. Most are single stage, positive displacement, self-lubricating rotary pumps with sealed bearings. You'll note there's several two stage Dri-Air models available, too.

However, there's one thing you can't see and that's the fact all of our pumps are built to the highest quality standards.

Standards that begin with time-tested, solid and serviceable designs, integrated with quality materials, completed and inspected by conscientious craftsmen. These standards are your assurance of long life and dependable operation in every Condé Pump or complete unit.

The other important factor that's invisible is Condé's direct, personal service. That's your assurance you'll get the best pump unit—or pump only—best for you.

Condé accessories are available when you need them.

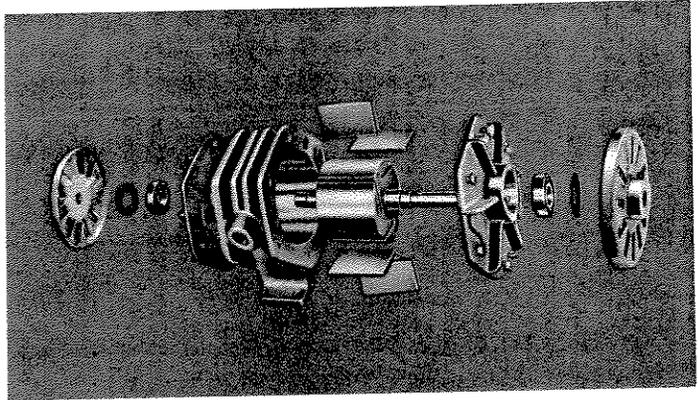
You can order our accessories now—or later. Condé Air Filters exemplify our quality. They eliminate dust or other foreign matter before the air enters and/or leaves our line of Dri-Air Pumps. They're rugged, compact, efficient and available in two sizes.

Condé intake noise-reducing filters for pressure applications and exhaust mufflers for vacuum applications are custom-made for extra effectiveness.

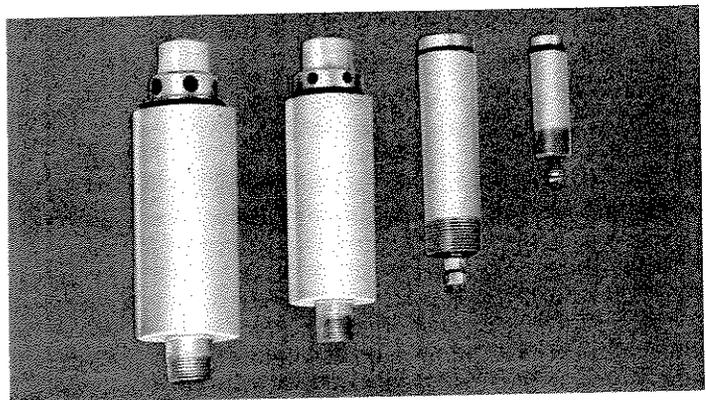
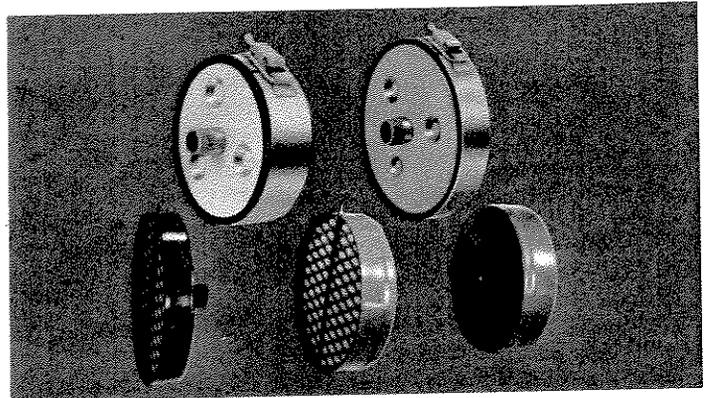
When ordering Condé Air Filters, please specify pump speed and operating conditions and let Condé's personal service select the filter(s) best for you.

When and if you need them, there's also a complete line of Vacuum and Pressure Relief valves available, too. These provide proper protection with ample capacity and accuracy of operation at various load levels.

To protect personnel, and to comply with O.S.H.A., we also make a line of Belt Guards for use with our Belt-Drive Pumps.



This Condé Dri-Air pump is available in 5 popular models and combinations. Like all Condé Pumps, it features: completely sealed bearings; field replaceable graphite-carbon vanes for longer life, cooler running; low micro-finish on body periphery; close, yet sensible tolerance; rugged cast iron construction; fans to keep bearings cool. A simple tool kit with step by step instructions for disassembly and reassembly is also available from Condé to minimize downtime.



Condé Pumps

Condé Pumps are used worldwide for a wide number of applications. For applications you would expect, and some totally unexpected ones, too.

This will give you a clear idea of the versatility of Condé Pumps.

Graphic arts industry. Condé Pumps have found a home in this industry. Doing everything from moving paper, cardboard—even tin!—separating paper sheets, eliminating static electricity, moving paper up, down, forward, backward. And because a certain amount of blast is required, Condé Pumps—from 2 to 10 psi—are right for the job.

Aquaculture. To increase dissolved oxygen content, marine or fresh water fish farmers keep their crabs, catfish, lobsters, shrimp and eels healthy with Condé Pumps at 4-8 psi.

Aquarium. The standard of the industry, Condé Pumps with a range of 4-5 psi are the standard choice of pet store jobbers and retailers for both marine and fresh water fish nationwide.

Septic tank cleaning. Our vapor-oiled pump, usually a #6 model, is often installed in the tank truck engine compartment with a separate oiler mounted on the firewall. If there's room for our #12, the cleaning cycle can be increased to approximately three times the speed. For special applications, our #9 pump is the answer. It's faster than our #6, but smaller than our #12.

Other vacuum and pressure (blast) applications for Condé Pumps.

Vacuum frames for PC boards. #6 and #12 Condé Pumps are in great demand for the 15" or more vacuum application to hold down PC boards. The porosity and thickness of the board with size of fixture will determine pump size and amperage needed. As always, call us for our recommendation.

Vacuum forming. For blister packaging, or shaping styrofoam that's warm, Condé's #2 or #3 pumps handle this task exceptionally well.

Ice removal—in marinas and private boatyards. At 4, 5 or 6 psi—depending upon water depth—Condé Pumps take the difficulty out of winter docking and damage to pilings.

Purging irrigation tubing. Farmers purge their portable 4" ID lines before the rubber tubing is rolled up and stored with 10 psi from our #3 pump.

Chemical tank aeration. Commercial platers, and industries using their own plating tanks, keep chemical solutions in a homogeneous state using low pressure Condé Pumps. Our #2 pump is often used for aerating cutting fluid which prevents expensive chemicals from souring and possibly harming the operator. (In fact, we use Condé Pumps in our own plant on turret lathes and grinders.)

Plastic and pharmaceutical fluffing. In these two industries, Condé Pumps often work overtime to fluff powders and pellets as they are uniformly fed into production machinery.

Natural and exotic gases. These can be easily moved by a Condé Pump if the dew point of the material is not so low that it takes the binder out of our vane material. Each gas type has to be studied before we can make the right recommendations; shaft seal pumps are required for this application.

Digesting effluent. Ecologists love Condé Pumps when they're working in tandem with diffusers (of many makes and sizes) to digest effluents for small home applications, or large industrial complexes.

Totally unexpected applications.

Condé vacuum pumps are being used to get air samples from the subterranean alleys in Hong Kong subways so air quality can be measured.

Worldwide, Condé Pumps are used for air sampling to detect possible nuclear radiation contamination in powerplants, submarines and aircraft carriers. You'll also find Condé Pumps at high altitudes as well, gathering air samples for air content (pollution) measurement.

Call me, please.

Call Al Condé, when you'd like to know more about Condé Pumps, or want to order one or one hundred.

We'll be happy to share with you the pump knowledge we've accumulated in the past 40 years. And we'll be genuinely pleased to make sure you have the right Condé Pump unit or pump only—best for your particular needs.

Where will Condé Pumps be working tomorrow? We're waiting for you to call the number below to tell us.

One more thing—all of us at Condé look forward to the opportunity to serve you.



(315) 363-1500

Condé Pumps

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