



**Base**  
DENTAL SYSTEMS **VAC**<sup>TM</sup>

**DRY CENTRAL VACUUM SYSTEMS**

Base Vac Modular Dry Systems  
Base Vac Vertical Tank Mounted Dry Systems

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*The creation of vacuum is a predictable science. Understanding how it works in an application, is our business and our strength. At BaseVac we know that making vacuum work in dentistry means following the path of predictable science. That's why it works and works very well.*

**Ray Ralph**

President R.E Morrison Equipment  
Manufacturer of BaseVac Dental Suction Systems



# SETTING THE STANDARD IN DENTAL DRY SUCTION



**Many dental facilities are being** serviced by vacuum pumps that may not be the most ideal, simply because of the fact that there was no “ideal” solution. The majority of pumps used in the past required either oil or water for operation. Oil provides lubrication and cooling, but is not without its penalties. If operation is continuously below about 20” Hg, oil aerosols may be emitted, causing “smoking”. This fouls equipment or discharge piping. Water, on the other hand, requires dependence upon other utility, adding cost, and may cause contamination of the water supply. We often make compromises because there is no alternative.

The introduction of the BaseVac™ dry central vacuum systems means that there is an alternative. One that can be operated at all vacuum levels from atmospheric to as high as 27”Hg, depending on model; one that is air cooled and requires no oil or water for operation; one that doesn’t require oil filling, changes, draining, or disposal; one that is self-lubricated and minimizes any routine maintenance.

Our dry vacuum pumps have long had the best reputation in the industry. In 1994, we introduced the world’s first standard line of 100% oil-less rotary vane central vacuum system, which quickly became the

most popular type of system in North America. Base Vac™ systems are ideal for use where any of the following conditions are a concern:

- *Where any oil mist, or aerosols, present in the discharge air could contaminate the workplace or enter compressor inlets.*
- *Where oil filling, changing, and disposal is an inconvenience, or a hazard.*
- *Where water and sewage charges add to your cost of operation.*
- *If water pollution is a concern.*
- *If you would like to minimize your maintenance requirements due to personnel downsizing.*

# MODULAR/EXPANDABLE MODELS

## DUPLEX & TRIPLEX



**These are the premier BaseVac™ central vacuum** systems. They are available as duplex and triplex systems, with additional capacity upon request. Except for the latter, all are expandable, using standard factory modules, up to a triplex. As with the tank mounted units, all come with the basic accessories; mounting, however, is vertical. Each pump is mounted on its own stand, which stacks, one above the other. Each pump is connected to a central manifold, which is plumbed to a vertical air water separator.

The control panel employs a programmable controller to determine the operating sequence of the pumps. Automatically alternating lead/lag, or "cascading", controls operate on a first-on/first off basis. This ensures that each pump will have approximately the

same amount of running time. This evens the wear on all pumps and prevents the backup pump from deteriorating due to lack of use. Minimum run timers on all pumps prevent excessive wear on motors due to a high frequency of starts.

The entire system can be upgraded with additional capacity by adding a pump and electric module. This can be performed in minutes with no interruption to the integrity of the vacuum system. Isolation valves are already installed for up to 3 pumps, and individual disconnects are provided for each motor. Since the system is vertically oriented, additional floor space may not be required. All service points are easily accessible without crawling over piping and pumps.

# TANK MOUNTED MODELS

## SIMPLEX & DUPLEX



**Systems are available in both simplex and duplex** tank mounted versions. These are the most cost effective units, offering capacities adequate for many facilities, while providing the basic functions of automatic operation, controlled by a programmable controller. They are compact in design due to the pumps being mounted on top of the receiver.

Included are all of the necessary accessories such as inlet check valves, isolation valves, inlet filters, flexible connectors and vibration isolators. Controls permit automatic first-on/first-off, lead/lag operation that remains within two preset vacuum levels.

**BaseVac™ dry central vacuum systems** can operate all the way from atmospheric pressure to as much as 27"Hg; all our multiplex systems are PLC operated, and all (except tank mounted units) are fully expandable to a triplex system.



## HORIZONTAL TANK MOUNTED

SIMPLEX SYSTEMS

	SYSTEM VOLUME CFM				TANK(GAL)	LENGTH(in.)	DEPTH(in.)	HEIGHT(in.)
	0" Hg	19" Hg	24" Hg	hp				
<b>S60D</b>	39	12.4	5.5	3	80	56	48	85
<b>S80D</b>	48	15.4	6.8	5	80	56	48	85
<b>S100D</b>	69	22.1	9.8	5	80	56	48	85
<b>S140D</b>	95	30.4	13.4	7.5	80	56	48	85
<b>S200D</b>	130	41.4	18.4	7.5	80	68	52	85
<b>S250D</b>	173	55.4	24.5	10	80	68	52	85
<b>S400D</b>	-	-	-	-	120	80	64	93



## VERTICAL TANK MOUNTED

SIMPLEX SYSTEMS

	SYSTEM VOLUME CFM				TANK(GAL)	LENGTH(in.)	DEPTH(in.)	HEIGHT(in.)
	0" Hg	19" Hg	24" Hg	hp				
<b>ST60D-V</b>	39	12.5	5.5	3	120	54	30	74
<b>ST80D-V</b>	48	15.4	6.8	5	120	54	30	74



## VERTICAL TANK MOUNTED

DUPLEX SYSTEMS

	SYSTEM VOLUME CFM				TANK(GAL)	LENGTH(in.)	DEPTH(in.)	HEIGHT(in.)
	0" Hg	19" Hg	24" Hg	hp				
<b>DT60D-V</b>	78	25	11	6	120	54	33	74
<b>DT80D-V</b>	96	30.8	13.6	10	120	54	33	74



## MODULAR / EXPANDABLE DUPLIX SYSTEMS

	SYSTEM VOLUME CFM				TANK(GAL)	LENGTH(in.)	DEPTH(in.)	HEIGHT(in.)
	0" Hg	19" Hg	24" Hg	hp				
D60D	78	25	11	6	80	56	48	85
D80D	96	30.8	13.6	10	80	56	48	85
D100D	138	44.2	20.6	10	80	56	48	85
D140D	190	60.8	26.8	15	80	56	48	85
D200D	260	82.8	36.8	15	120	68	52	93
D250D	346	110.8	49	20	120	68	52	93
D400D	-	-	-	-	240	80	64	108



## MODULAR / EXPANDABLE TRIPLEX SYSTEMS

	SYSTEM VOLUME CFM				TANK(GAL)	LENGTH(in.)	DEPTH(in.)	HEIGHT(in.)
	0" Hg	19" Hg	24" Hg	hp				
T60D	117	37.2	16.5	18	80	56	48	85
T80D	144	46.2	20.4	30	80	56	48	85
T100D	207	66.3	29.4	30	120	56	48	93
T140D	285	91.2	40.20	45	120	68	48	93
T200D	390	124.2	55.2	45	120	68	52	93
T250D	519	166.2	73.5	60	120	68	52	93
T400D	-	-	-	-	240	80	64	108

\*Dimensions are for two skids. Divide by 2 for unit width.

\*\* These dimensions are for estimates of the overall system envelope, and should not be depended on for installation details. The dimensions are subject to change without notice. Contact the factory for certified dimensional drawings.

Manufactured By:



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