

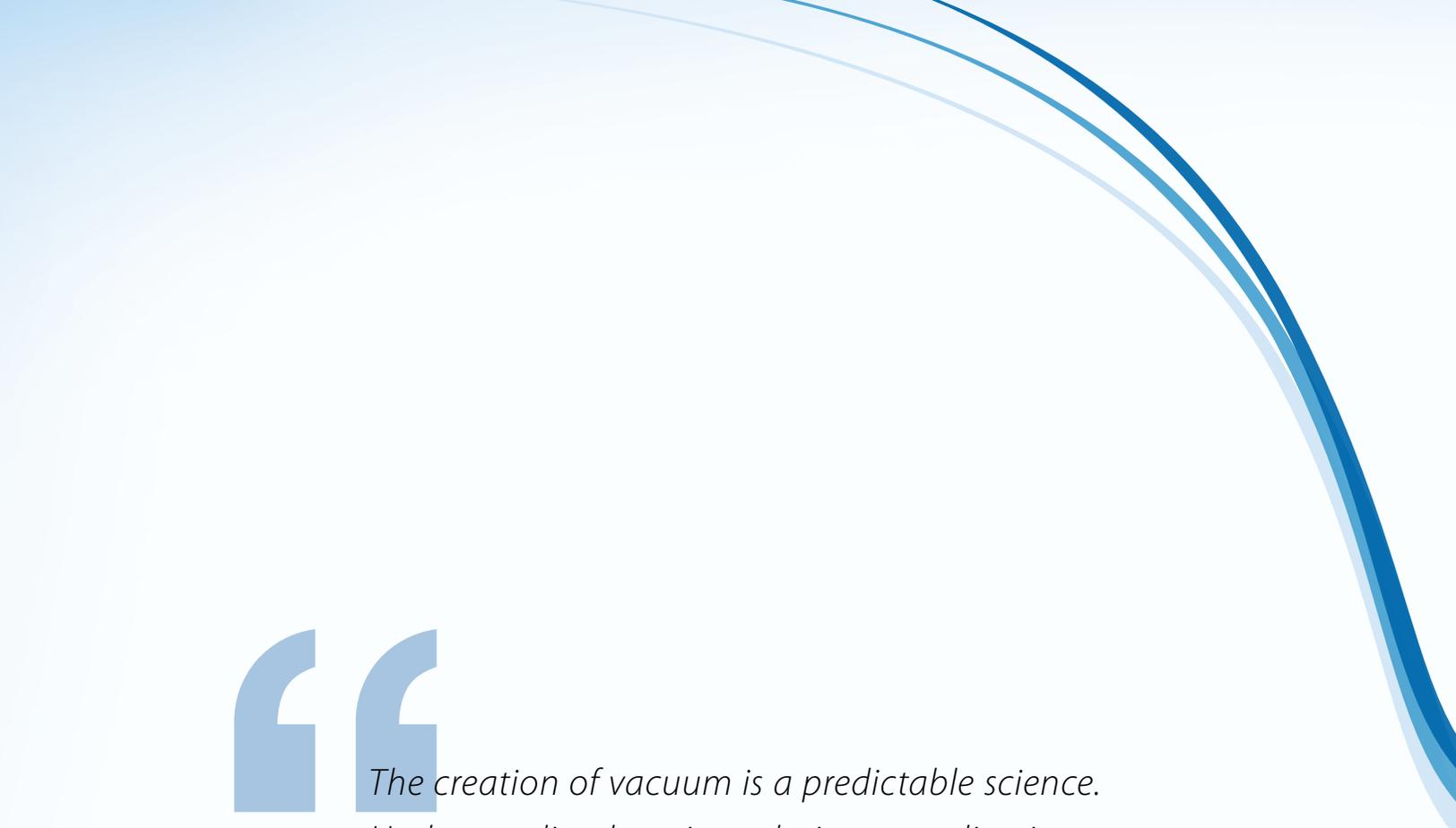
# Base

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

## THE ADVANCED DENTAL DRY VAC

100% Oil & Water Free Suction Systems  
Compact & Expandable Suction Systems  
Custom Engineered Large Scale Systems  
Portable Surgical Suction Systems



“

*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



**BaseVac Dental Suction Systems** are a product of Canadian manufacturer R.E Morrison Equipment Inc. Founded in 1984, R.E Morrison Equipment distributes and manufactures industrial and dental vacuum related products.

Dental vacuum systems were developed to fill the unique demand for a strong suction force in an industry that is truly unique. Dental suction requires a pumping system that: works in an environment full of difficult challenges, has to be small but large in capacity, work in hot, wet and small spaces, be quiet yet capable

of moving lots of air through tiny nozzles. Most importantly, any new technology must be environmentally friendly. Not just green, but free of oil and water consumption with reduced electrical power consumption per user.

At BaseVac we have accomplished all that by engineering a Vacuum System based on the dentist's suction tools. We looked at how air moves through a high flow evacuator and a saliva ejector. We looked at the effect of stored vacuum capacity, balanced flow demand and the science of air flow versus velocity versus vacuum energy.

The result is a full line of Dental Vacuum Products that work remarkably well when your clinic is working at its best. Designed to be strong, quiet, compact and have absolute minimal impact on the environment. BaseVac Dental Vacuum Systems are a perfect adaptation of the science of creating vacuum for use in dentistry. No confusion of terms, no compromise in performance.

# THE ENGINEERED ADVANTAGES OF BASEVAC DRY SUCTION

## 1 SUPERIOR AIR/WATER SEPARATION

Dry vac systems rely on capturing and draining liquids in tanks prior to reaching the vacuum pumps.

The BaseVac Air/Water separators are designed with one principle in mind: find the most innovative way of using existing technologies to make them work better than ever before. When it comes to collection tanks, simple features and reliable operation go a long way. BaseVac Dental Systems use superior controls to drain liquids more effectively, more often. The result is smaller tanks that drain frequently, reducing bacteria, odors and cleaning time.

BaseVac control systems interface with two tank options. Both options hold the waste liquid until it reaches a desired maximum, triggering a switch to shut the pump off and drain the tank automatically. Also, the tank will drain every time the pump is turned off: lunch, break, end of day, meaning no messy liquid is ever stored in the pump room. In cases where the pump room of choice has no drain access, the second tank option has a powerful pump built-in to pump the liquids to the drain.

## 2 POWER AND PERFORMANCE

BaseVac Dental Systems use a technically advanced oil free rotary vane vacuum pump as the heart of the dental vacuum package. Horsepower to horsepower it out performs liquid ring “wet vac” and windmill or turbine type systems. The oil free rotary vane vacuum pump is designed to continue sucking air up to 25” Hg suction pressure - that’s five times the acceptable minimum.

The BaseVac Dry Vac quietly evacuates the piping system beyond your required working vacuum. This forms a stored volume under vacuum adding significant capacity to your system to provide better performance when you need it.

Wear components are designed to exceed 8,000 running hours before needing replacement. The patented composition of the self lubricating carbon vanes means moisture in the system will not affect operating performance. The unique BaseVac carbon vane compound is designed for long lasting and very, very quiet operation.

# 3

## COMPACT/QUIET/FLEXIBLE

The BaseVac Dry Vac System is compact, quiet and designed to easily fit in the space of your existing system. The BaseVac HD Series Vacuum Pumps will work on any pipe size from ½" to 6". The sound isolating design means the BaseVac system can be installed anywhere you'd like - even in the closet.

The BaseVac engineers selected the world's most efficient vacuum pumps with the built in ability to handle variable speeds to meet the variable demands of your clinic. The optional BaseVac Smart System Control continually changes the speed of 1, 2 or 3 vacuum pumps in a system, turning them on or off as required to constantly match power requirements with demand. This means a system big enough for 30 users in a school environment with the automatic control capability to reduce the energy used when only 2 users are active. It also means a system will automatically go from 30 Hp to 3 Hp depending on demand to conserve energy, ultimately saving you money.

# 4

## MEETS REGULATION/EFFICIENT

The BaseVac Dental Dry Vac System is designed to save you money, largely through more efficient use of water. In comparison to wet vac pumps, the BaseVac system saves money on the purchase and disposal of the water required for operations in one simple way: it does not need water to operate. In a medium size clinic using two 2 Hp wet vac pumps without re-circulated water, the annual water consumption can be as high as 200,000 gallons per year - the same as 67,000 toilet flushes, or a 16' x 32' swimming pool per month. With a wet vac system that's a lot of water in and a lot of water out. With the BaseVac Dry Vac System, that's a lot of water saved.

Across North America, communities are beginning to legislate against the excessive wastewater created by wet vac pumps. The BaseVac Dental Dry Vac not only offers industry-leading performance, it also saves money and contributes to a better managed environment. No waste water or waste oil to add to the environmental overload in your community.

# AIR/WATER SEPARATORS

## ALL PLASTIC - AUTO DRAIN



1H20COM



BVD12946



BVD17373

	CAPACITY (GALLONS)	DIMENSIONS (INCHES)	INLET (INCHES)	OUTLET (INCHES)	VOLTAGE	DRAIN TYPE	HIGH LEVEL SWITCH	WEIGHT (LBS)
BVD17373	2.5	22.5 x 11.5	0.5	0.5	N/A	Gravity	✓	22
BVD12946	12	28.75 x 16.5	1.5	1.5	24V	Gravity	✓	40
1H20COM	12	33.75 x 16.5	1.5	1.5	110V	Pump	✓	60

### The BaseVac HD Series Vacuum

System pumps are all designed to produce 25" Hg vacuum; that's 5 times the minimum required by dental standards. More efficiency and more power translate to more potential users per Hp than any other system. The systems are self

contained modules, cubes designed to be stacked into systems as your practice grows. The control module is pre-designed to accept expansion by just plugging it in. Space is always difficult to find, so we designed the tank to drain every time you stop the pumps, no need

for large storage tanks. It too is as compact as the pumps. Designed to fit, guaranteed to perform. BaseVac dental dry suction, a system where performance and the environmental compliance work together to save you money.

# DRY SUCTION HD SERIES

OIL FREE - WATER FREE - 100% DRY



1HD 4.8

1HD 4.16, 4.25, 4.40

2HD 4.25, 4.40

PORTA 4.8

	MAX # OF (HVE) USERS	SUCTION POWER ("HG)	POWER (HP)	POWER (AMP)	VOLTAGE	NOISE LEVEL (DBA)	DIMENSIONS (INCHES)	WEIGHT (LBS)
<b>PORTA 4.8</b> Portable System	1	25	0.56	4.8	115V, 1 Phase	65	25 x 20 x 12	65
<b>1HD 4.8</b> Stationary Mini	1	25	0.56	4.8	115V, 1 Phase	69	13 x 12.5 x 14.5	57
<b>1HD 4.16</b> Stationary Standard	2	25	0.94	5.2	220V, 1 Phase	67	19 x 18 x 26	87
<b>1HD 4.25</b> Stationary Standard	4	25	1.2	8.8	220V, 1 Phase	65	19 x 18 x 26	94
<b>1HD 4.40</b> Stationary Standard	6	25	2.0	9.5	220V, 1 Phase	72	19 x 18 x 26	121
<b>2HD 4.25</b> Stationary Duplex	8	25	2.4	2 x 8.8	220V, 1 Phase	74	38 x 18 x 26	2 x 94
<b>2HD 4.40</b> Stationary Duplex	12	25	4.0	2 x 9.5	220V, 1 Phase	74	38 x 18 x 26	2 x 121

Manufactured By:



R.E Morrison Equipment Inc  
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1-800-668-8736  
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**Base**  
DENTAL SYSTEMS **VAC**<sup>™</sup>

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