



## 6. LARGE CAPACITY PUMPS

### **MAXIMA-K** 3K series single-stage liquid ring vacuum pump model DV13003K-K

**Introducing the MAXIMA-K 3K series maximum efficiency, single-stage liquid ring vacuum pump.**

- ◆ Reliable heavy-duty design, built to rigid quality standards.
- ◆ Variable discharge port enables pumps to operate at maximum efficiency over the entire vacuum range.
- ◆ Shaft sleeves are standard, virtually eliminating the possibility of shaft wear.
- ◆ Available in different materials to suit your application.
- ◆ Standard sealing is packed gland, mechanical seals available.
- ◆ Heavy duty bearings mounted external to the pumping chamber, eliminating potential bearing failure due to process contamination.
- ◆ Low operating speeds ensure an extended life cycle.
- ◆ The pump can handle large amounts of condensable vapors which enhances the performance significantly.
- ◆ No metal-to-metal contact, only one moving part.
- ◆ The pumps can handle carry-over of liquids and/or soft solids without causing damage to the internal parts.
- ◆ The design allows operation with various seal fluids.
- ◆ Low operating noise levels are in the 75 - 85 dBA range.



#### Performance characteristics

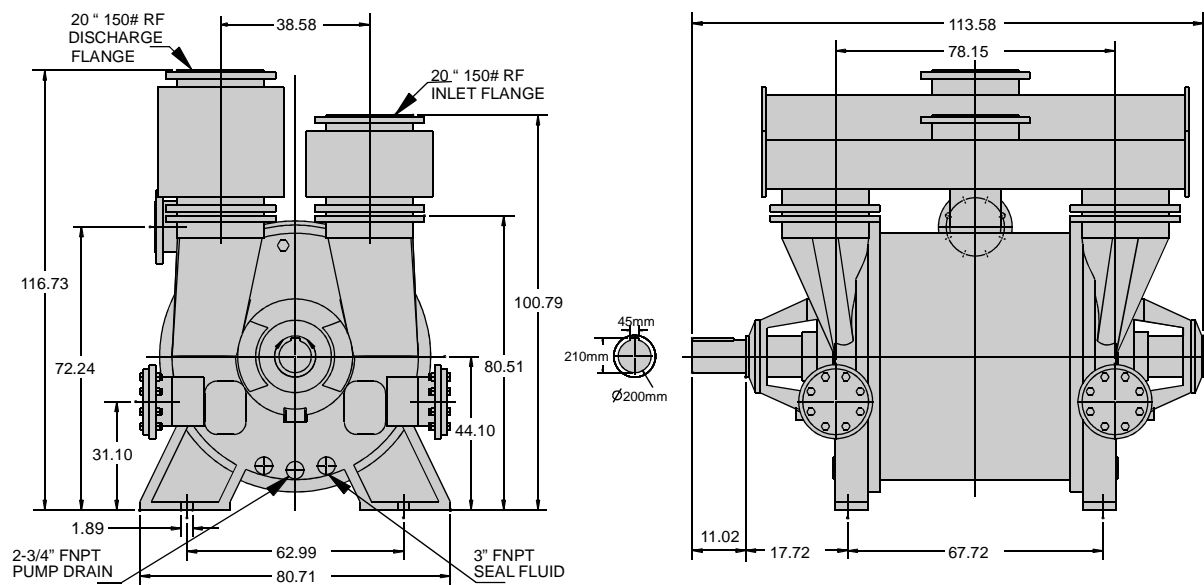
Nominal capacity:	8000-13000CFM
Motor range:	350-750HP
Speed range:	210-330RPM
Maximum vacuum:	29"Hg/26Torr
Weight (bare-shaft):	23980Lbs/10900kg
Maximum gas inlet temp.:	212°F/100°C
Noise level(at 3ft):	75-85 dBA

#### Materials of construction/Seal code

Mat.code	3	4**	7*	8*	11	14
Casing	CI	316SS	NA	CI	CI	304SS
Portplate	CI	316SS	NA	CS	CI	304SS
Impeller	316SS	316SS	NA	DI	304SS	304SS
Shaft	CS	316SS	NA	CS	420SS	304SS
Seal code	P***	P***	P***	P***	P***	P***

CI = cast iron - DI = ductile iron - CS = carbon steel  
**304SS** = AISI 304 stainless steel - **316SS** = AISI 316 stainless steel - **420SS** = AISI 420 stainless steel  
 \* standard material pumps protected by 420 SS shaft sleeves.  
 \*\* 316 SS pumps protected by 316 SS shaft sleeves  
 \*\*\* P = standard seal is packed gland, other seal materials available.  
 Other materials and special coatings available upon request.

### DV13003K-K



Performance charts see next page

Dimensions (inches) not binding. Subject to change without notice. Inlet manifold, discharge separator and companion flanges are sold separately.

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Reference  
 0408/5/ado

