



Date: 11/22/09

Supersedes: 2/11/08

**TECHNICAL DATA SHEET**

**VOONER VANEGARD® LIQUID RING VACUUM PUMP**

Specified, constructed, tested, and guaranteed by:

**Vooner FloGard® Corporation**

P.O. Box 240360, Charlotte, NC 28224-0360  
4729 Stockholm Court, Charlotte, NC 28273

Telephone: (704) 552-9314  
Toll Free: 1-800-345-7879  
Telefax: (704) 554-8230

**Model: VG30**

Type: Single stage rotor, cone shape ports, liquid ring vacuum pump

Sealing liquid flow rate nominal: 15”HgV (-L cone) - 20-30 gpm (75-115 lpm)  
20”-24”HgV (-M cone) - 40-56 gpm (150-210 lpm)  
24”-26”HgV (-H cone) - 56-70 gpm (210-265 lpm)

Sealing liquid connection: 1” NPT

Shaft sealing: Packing

Bearing design: Timken tapered roller bearing, grease lubricated  
Type: Timken Assembly 90020, 67388 Cone, 67322D Cup, X1S-67388 Spacer

Shaft diameter, drive end: 4”

Pump flange connections: 8” inlet, 6” outlet

Manifold flange connections: 10” inlet, 8” outlet

Approximate pump weight: 5,755 lbs. (2,610 kg)

**MATERIAL CONSTRUCTION FEATURES**

Model	Rotor	Cones	Heads	Bearing Carrier	Housing	Shaft	Pkg Gland, Studs, Nuts
A	Ductile Iron	Cast Iron	Cast Iron	Carbon Steel	Cast Iron	Carbon Steel	316 SS
C	304 SS	304 SS	Cast Iron	Carbon Steel	Cast Iron	410 HT SS	316 SS
XVE4	304 SS	304 SS	*316 SS	Carbon Steel	**304L SS	410 HT SS	316 SS
XVE6	316 SS	316 SS	*316 SS	Carbon Steel	**316L SS	410 HT SS	316 SS
XVS	304 SS	304 SS	*316 SS	Carbon Steel	304 SS	410 HT SS	316 SS
SS4	304 SS	304 SS	304 SS	Carbon Steel	304 SS	316 SS	316 SS
SS6	316 SS	316 SS	316 SS	Carbon Steel	316 SS	316 SS	316 SS

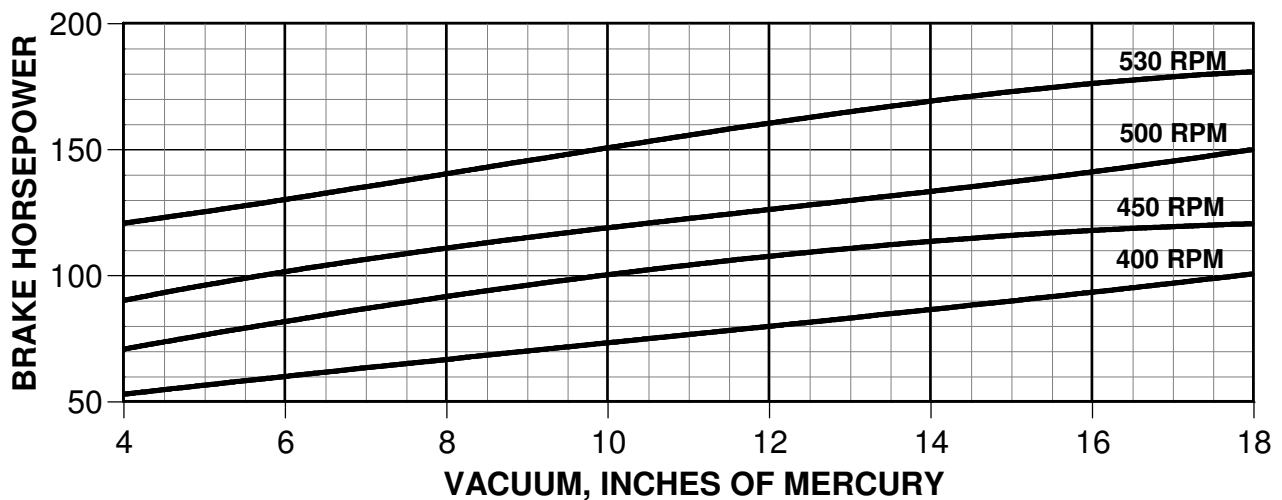
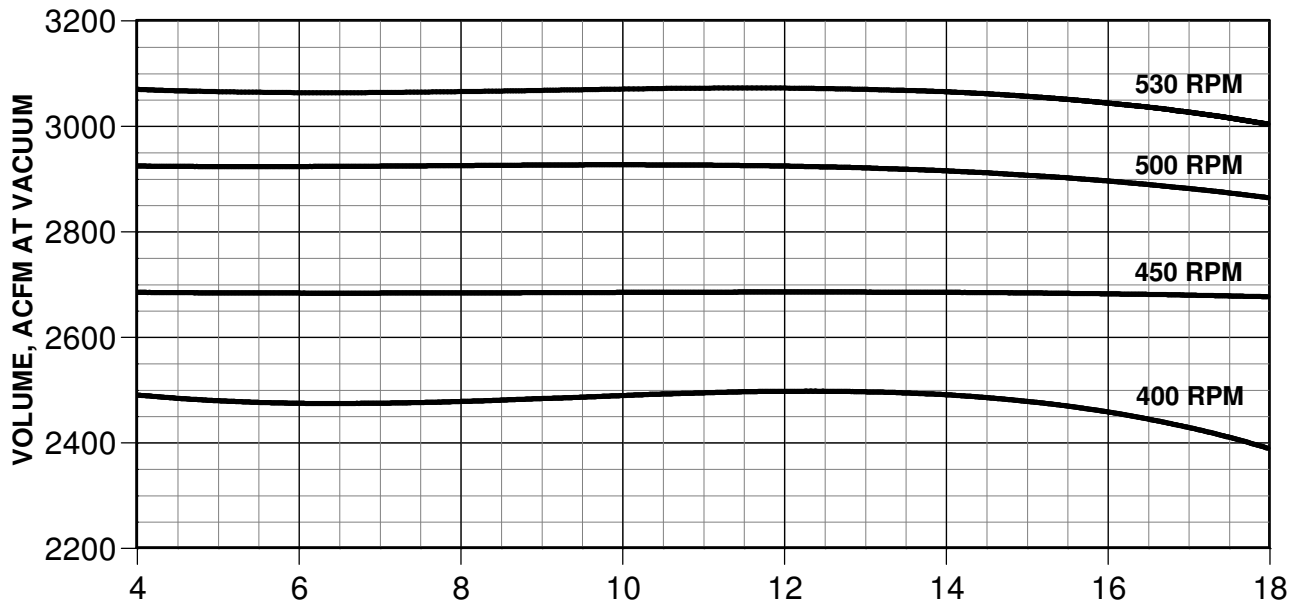
(SS - cast stainless steel) (HT - heat treated) (\*Replaceable 316 SS Wear Plates on cast iron heads)  
(\*\*Stainless Steel liner in cast iron housing) (N/A - not available)



# Vooner<sup>®</sup>

VACUUM PUMP, CONE PORT, SINGLE STAGE, LIQUID RING

MODEL: VG30-L



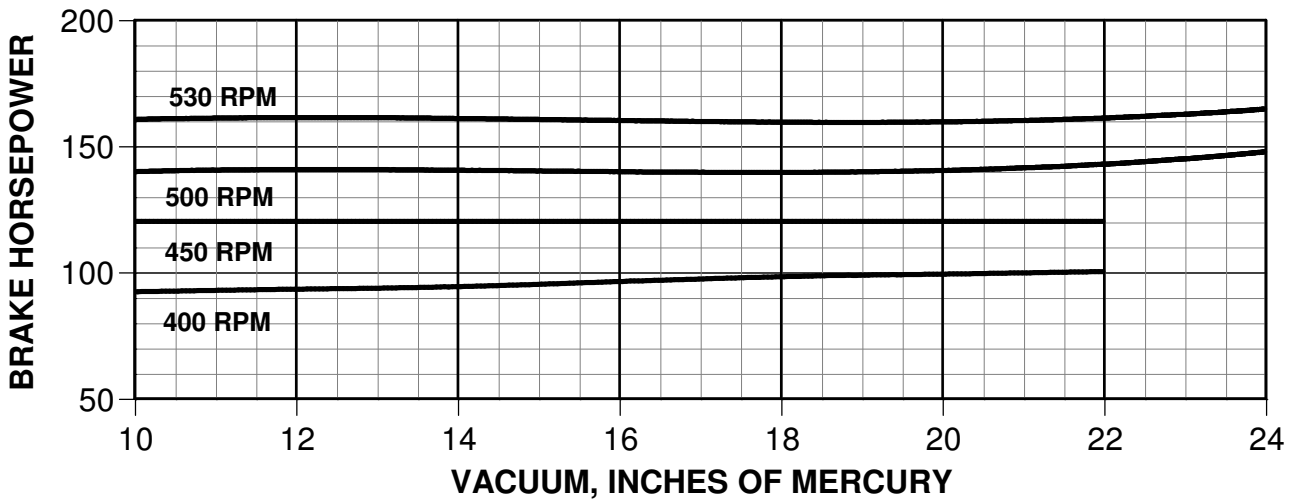
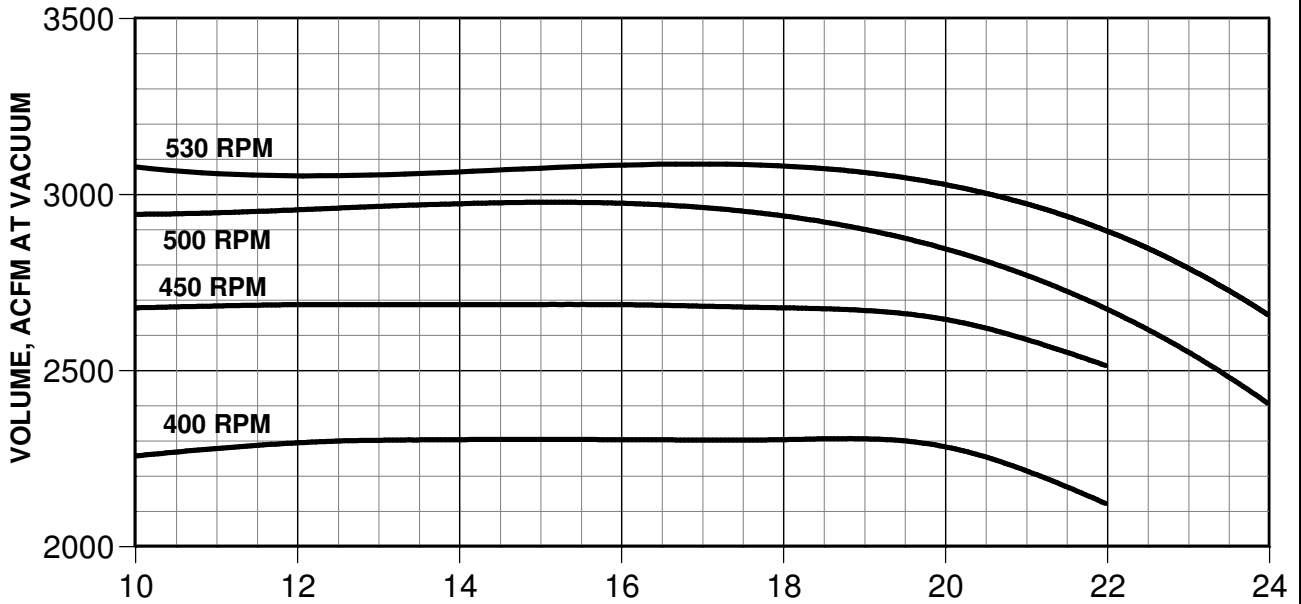
TEST DATA CONDITIONS:  
 INLET GAS TEMPERATURE: 60 F @ 50% RELATIVE HUMIDITY  
 BAROMETRIC PRESSURE: 29.9" HG ABSOLUTE  
 SEALING LIQUID TEMPERATURE: 60 F

Issue date: 11/22/06  
 Supersedes date: 03/20/00

Performance to Heat Exchange Institute Standards (HEI)



**Vooner<sup>®</sup>**  
**VACUUM PUMP, CONE PORT, SINGLE STAGE, LIQUID RING**  
**MODEL: VG30-M**



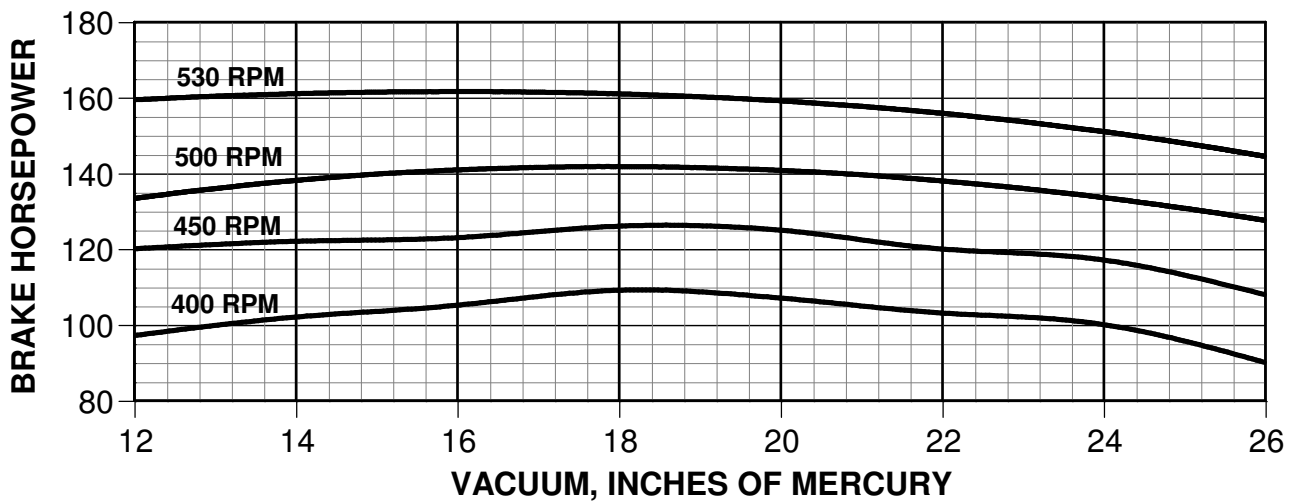
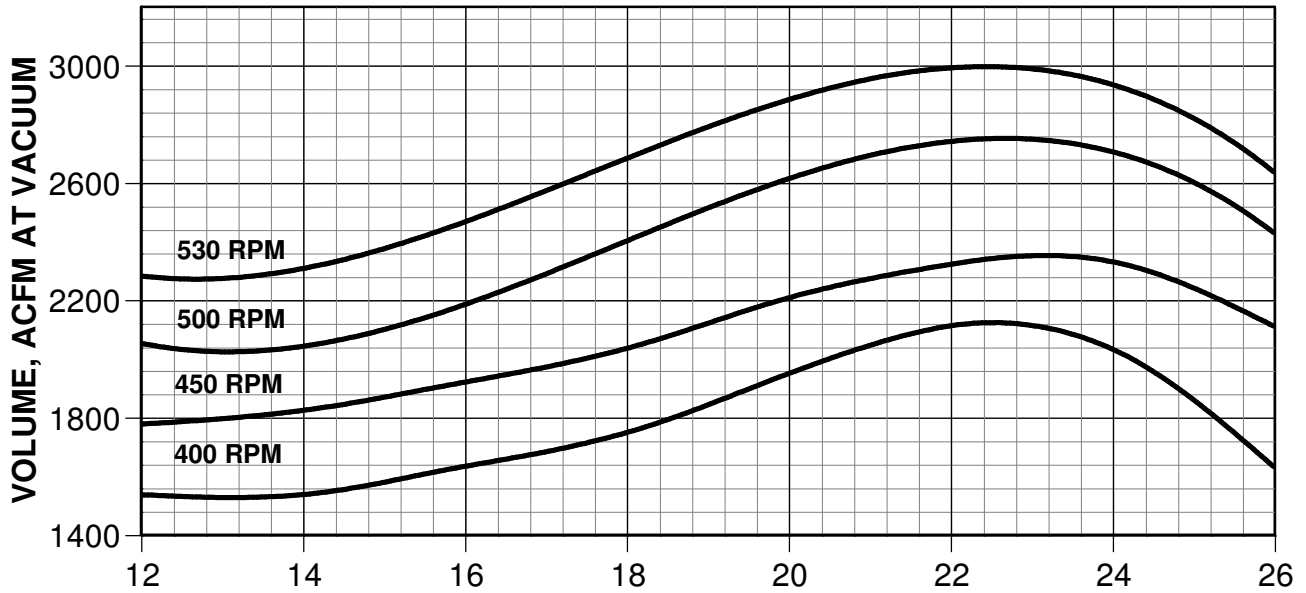
TEST DATA CONDITIONS:  
 INLET GAS TEMPERATURE: 60 F @ 50% RELATIVE HUMIDITY  
 BAROMETRIC PRESSURE: 29.9" HG ABSOLUTE  
 SEALING LIQUID TEMPERATURE: 60 F

Issue date: 11/22/06  
 Supersedes date: 03/20/00

Performance to Heat Exchange Institute Standards (HEI)



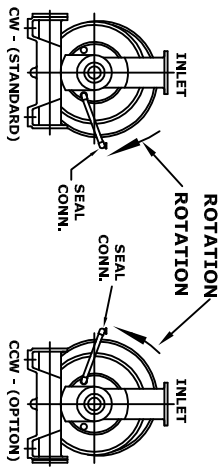
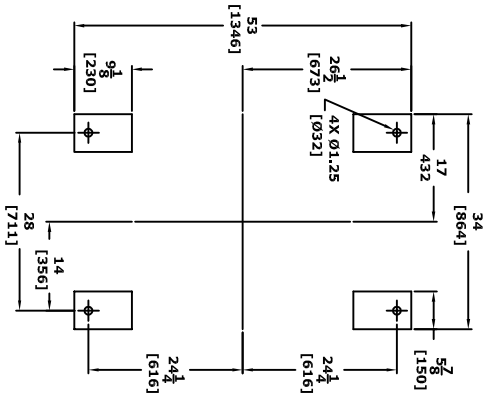
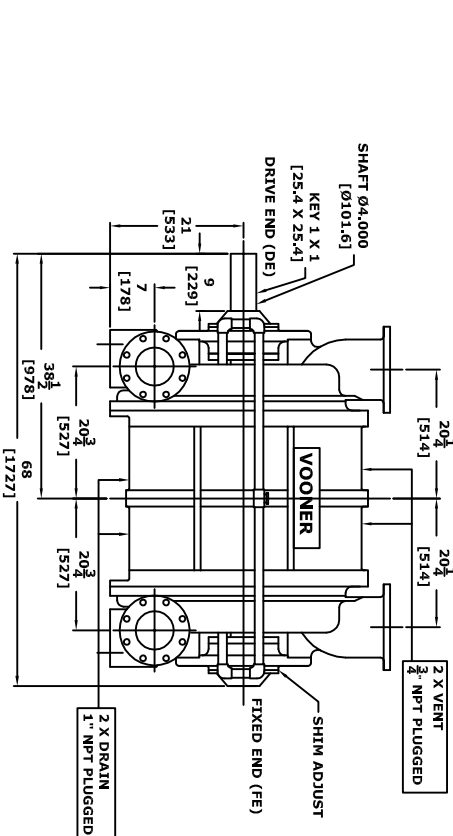
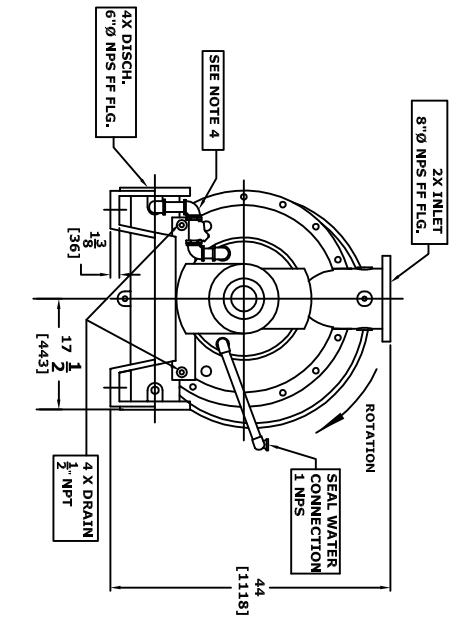
**Vooner<sup>®</sup>**  
**VACUUM PUMP, CONE PORT, SINGLE STAGE, LIQUID RING**  
**MODEL: VG30-H**



TEST DATA CONDITIONS:  
 INLET GAS TEMPERATURE: 60 F @ 50% RELATIVE HUMIDITY  
 BAROMETRIC PRESSURE: 29.9" HG ABSOLUTE  
 SEALING LIQUID TEMPERATURE: 60 F

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Performance to Heat Exchange Institute Standards (HEI)



**ASSY POSITIONS**  
(FACING DRIVE END)

**GENERAL NOTES:**  
 1) PRIMARY DIMENSIONS ARE IN INCHES. [mm]  
 2) FLANGES TO ANSI B16.5 CLASS 125  
 BOLT PATTERNS AND THICKNESS, BOLT  
 HOLES STRADDLE CENTER LINES.  
 3) PIPE THD. CONNECTIONS ARE ANSI B2.1,  
 4) SHROUD VENT PIPING FURNISHED ONLY ON  
 "M" AND "H" MODELS.

**APPROX. WEIGHTS**

	LBS. [kg]
PUMP ASSY - DRY	5755 [2610]
IMPELLER/SHAFT ASSY	1676 [760]
HOUSING*	1257 [570]
HEADS (EA.)*	838 [380]
CONES (EA.)*	139 [63]
BEARING CARRIER (EA)	104 [47]

\* COMPONENTS ARE IRON, FOR S/STL ADD 13%.

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SIZE	FSCM NO.	DWG NO.	REV
A	NONE	VG30	B

**Vooner Flogard CORPORATION**  
 CHARLOTTE, NC 28273

**OUTLINE DRAWING**  
**VG30**

Scale: none	Date: 9/19/07	Sheet 1 of 1
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