



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 (DIN)

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

Sealing liquid flow rate nominal: 15”HgV (-L cone) - 75-115 lpm
20”-24”HgV (-M cone) - 150-210 lpm
24”-26”HgV (-H cone) - 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: 101.6 mm

Pump flange connections: 200 mm inlet, 150 mm outlet

Manifold flange connections: 250 mm inlet, 200 mm outlet

Approximate pump weight: 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

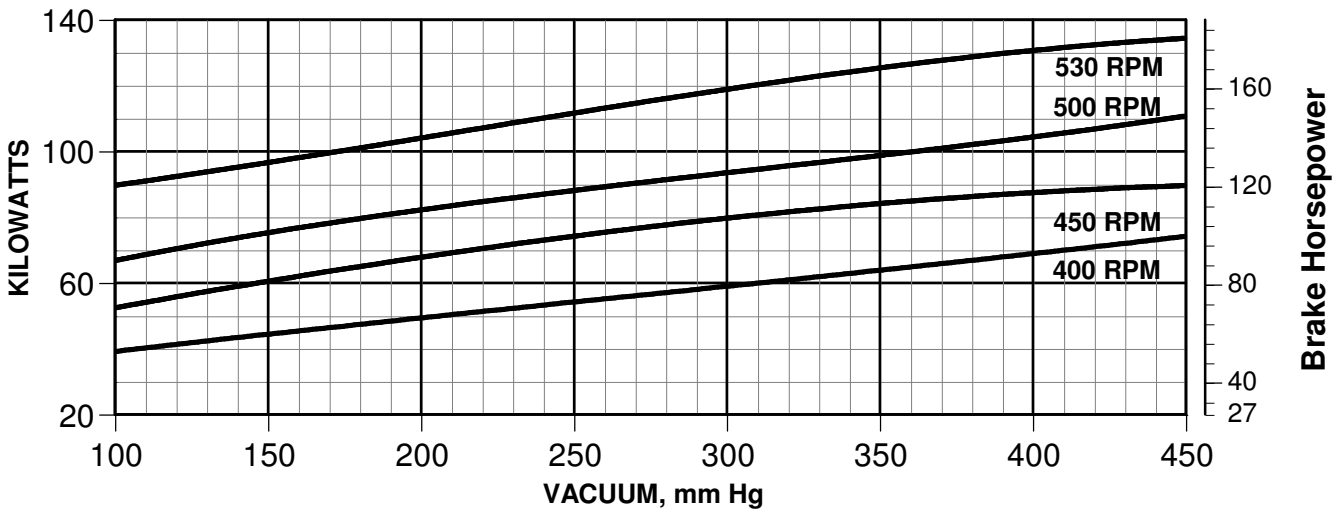
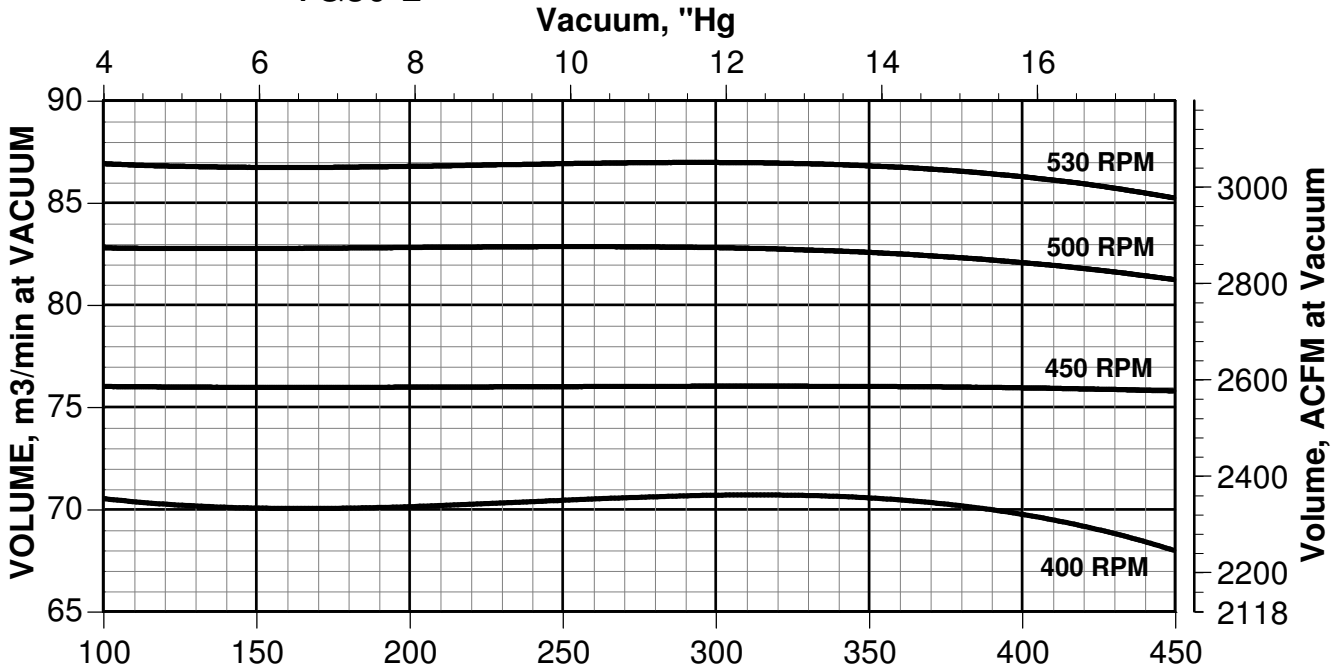
(SS - cast stainless steel) (HT - heat treated) (*Replaceable 316 SS Wear Plates on cast iron heads)
(**Stainless Steel liner in cast iron housing) (N/A - not available)



Vooner[®]

VACUUM PUMP, CONE PORT, SINGLE STAGE, LIQUID RING

MODEL: VG30-L



TEST DATA CONDITIONS:

INLET GAS TEMPERATURE: 15.6 C (60 F) @ 50% RELATIVE HUMIDITY

BAROMETRIC PRESSURE: 760mm (29.92") Hg ABSOLUTE

SEALING LIQUID TEMPERATURE: 15.6 C (60 F)

Issue date: 11/22/06

Supersedes date: 01/20/01

Performance to Heat Exchange Institute Standards (HEI)

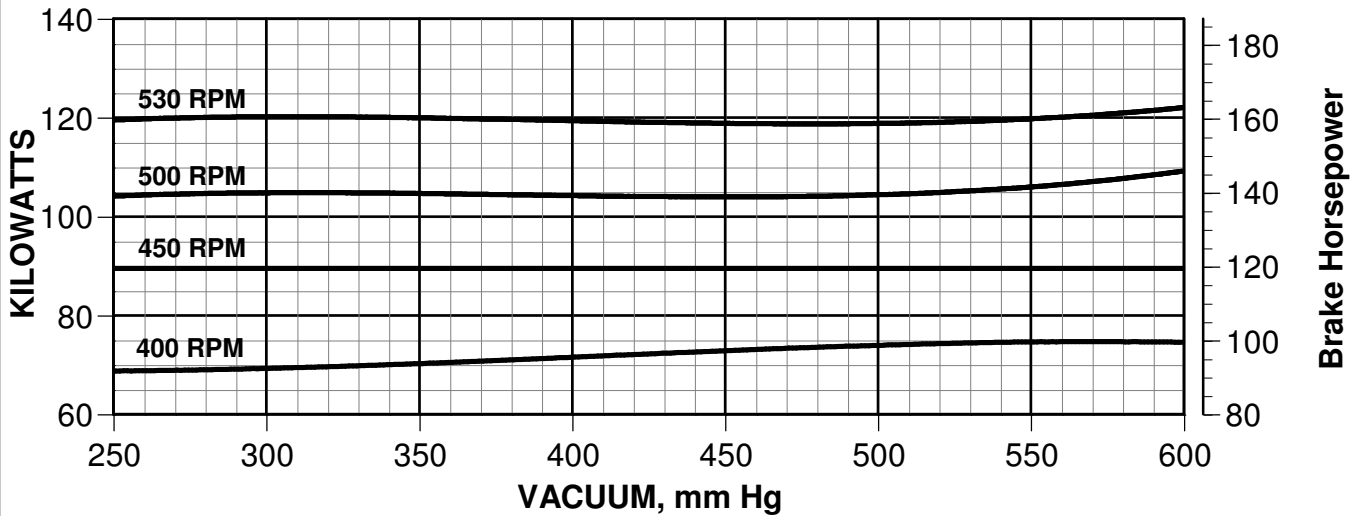
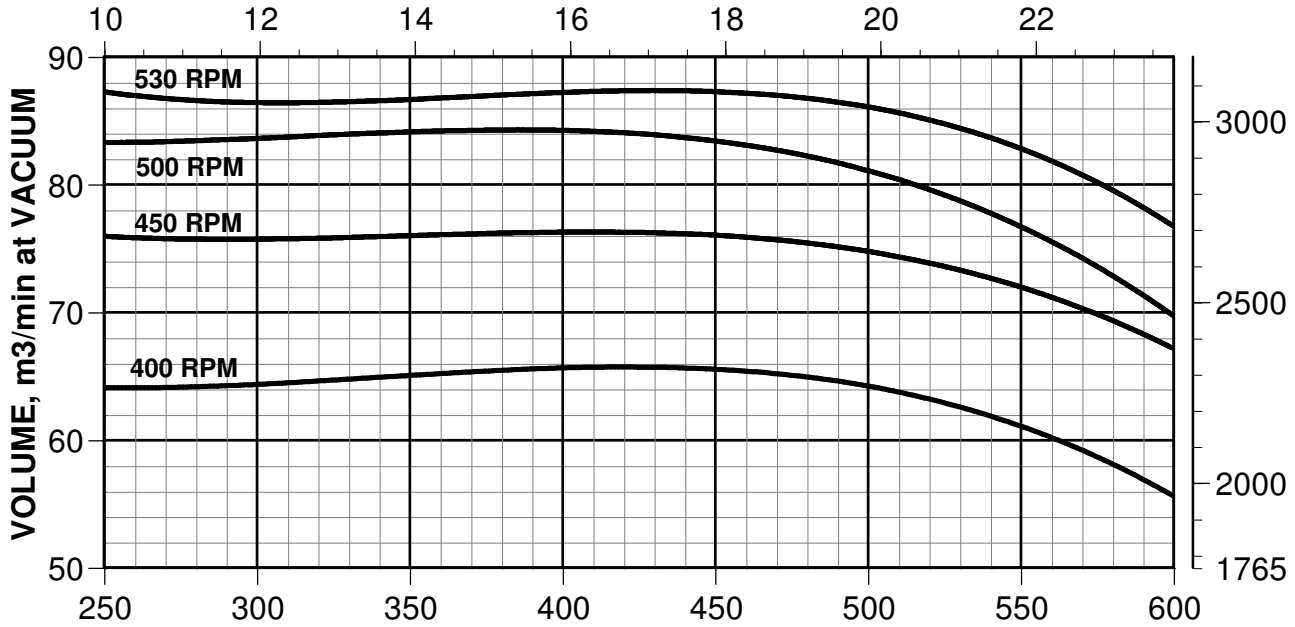


Vooner[®]

VACUUM PUMP, CONE PORT, SINGLE STAGE, LIQUID RING

MODEL: VG30-M

Vacuum, "Hg



TEST DATA CONDITIONS:

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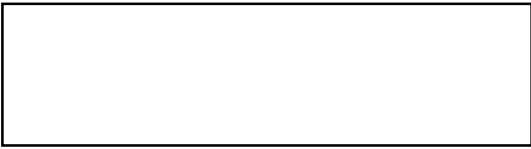
BAROMETRIC PRESSURE: 760mm (29.92") Hg ABSOLUTE

SEALING LIQUID TEMPERATURE: 15.6 C (60 F)

Issue date: 11/22/06

Supersedes date: 01/20/01

Performance to Heat Exchange Institute Standards (HEI)

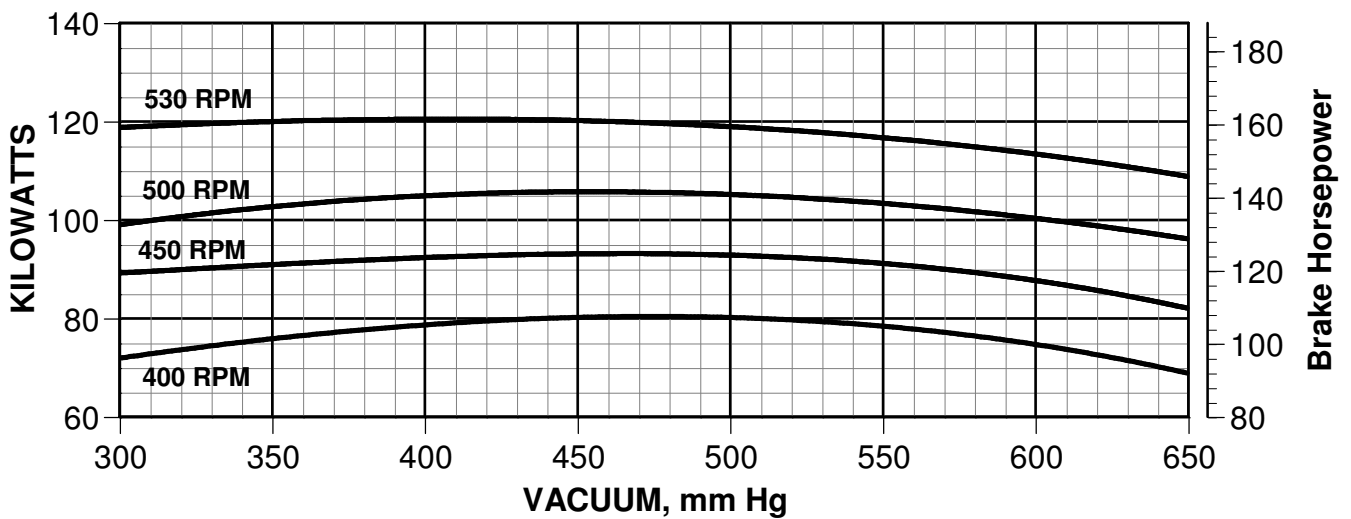
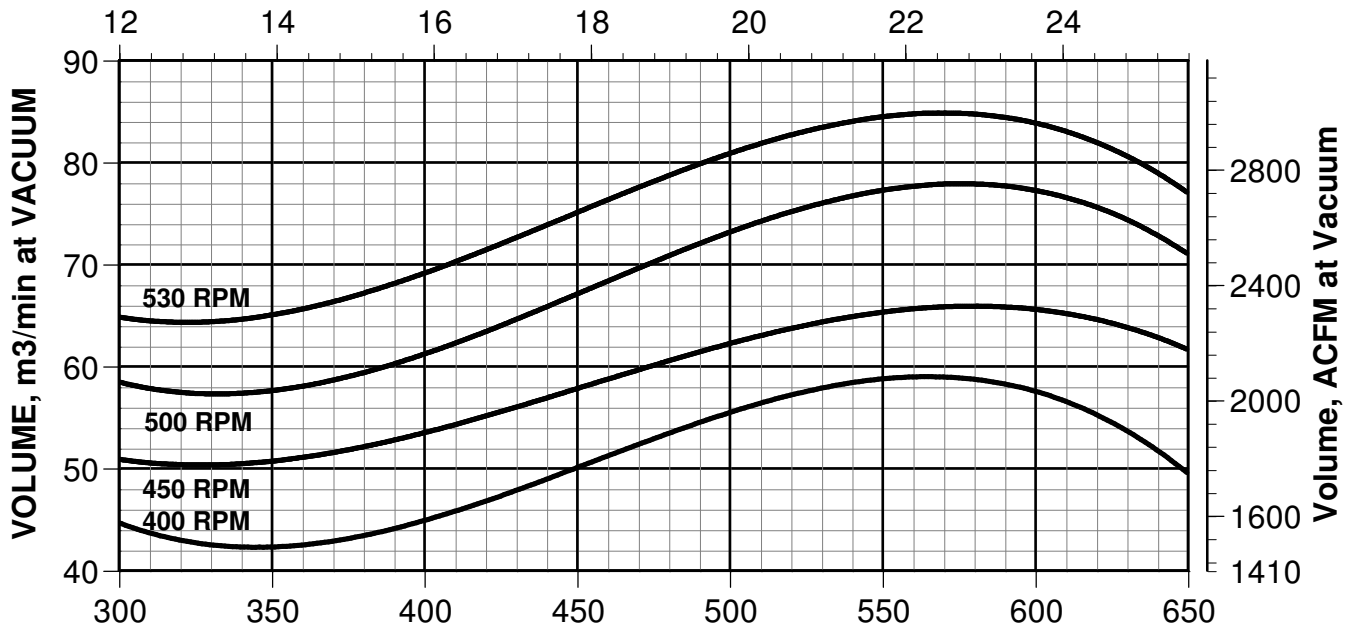


Vooner[®]

VACUUM PUMP, CONE PORT, SINGLE STAGE, LIQUID RING

MODEL: VG30-H

Vacuum, "Hg



TEST DATA CONDITIONS:

INLET GAS TEMPERATURE: 15.6 C (60 F) @ 50% RELATIVE HUMIDITY

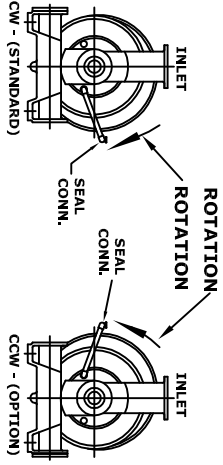
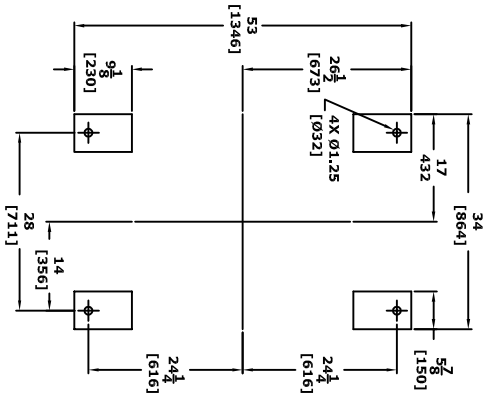
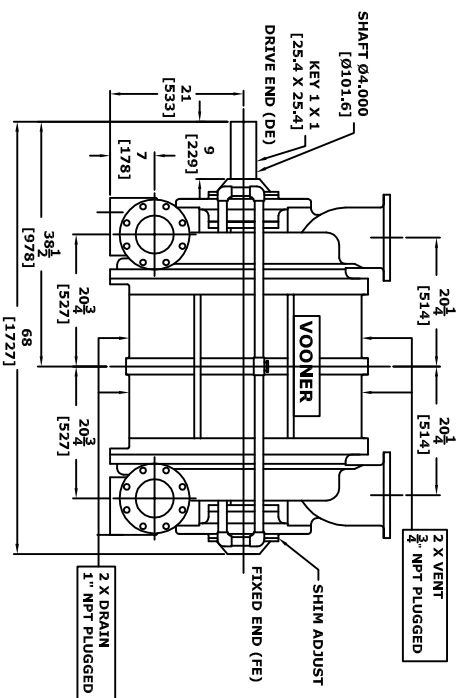
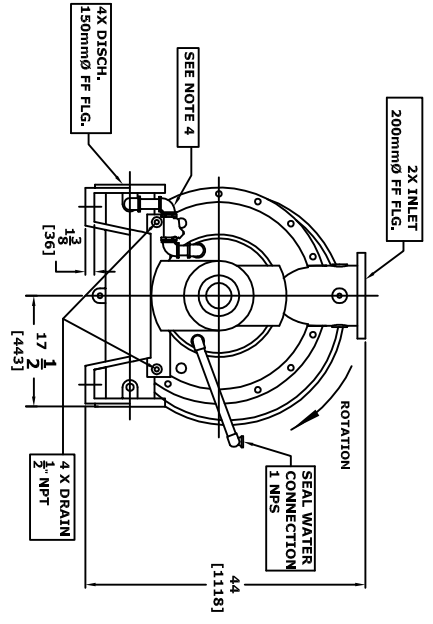
BAROMETRIC PRESSURE: 760mm (29.92") Hg ABSOLUTE

SEALING LIQUID TEMPERATURE: 15.6 C (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 DIN P10 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	
PUMP ASSY - DRY	LBS. [KG]
IMPELLER/SHAFT ASSY	5755 [2610]
HOUSING*	1676 [760]
HEADS (EA.)*	1257 [570]
CONES (EA.)*	838 [380]
BEARING CARRIER (EA)	139 [63]
	104 [47]

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

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 <p>Vooner Flogard VOONER FLOGARD CORPORATION CHARLOTTE, NC 28273</p>			
<p>OUTLINE DRAWING VG30 DIN</p>			
SIZE	FSCM NO.	DWG NO.	REV
A	NONE	VG30 DIN	B
Scale: none	Date: 9/19/07	Sheet 1 of 1	