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Vooner VTS Two Stage Conical Port Liquid Ring Vacuum Pumps

General Specifications

Vooner VTS Series Vacuum Pumps are two stage liquid sealed, non-pulsating, vacuum pumps. The pumps consist of two rotors dynamically balanced, and keyed to a common shaft. The first stage is equipped with two conical ports, and the rotor has a shroud in the center. The second stage is equipped with a single conical port in a separate housing. Self-aligning removable bearing carriers support the shaft. Shaft sealing is provided by braided packing with two-piece cast 316 stainless steel packing glands, studs and nuts.

Pump performance is defined by specifications as actual volume of dry air (ACFM flow rate) at the vacuum level (in. Hg vacuum) when operated at a given speed (RPM) consuming a certain amount of brake horsepower (BHP), at standard conditions of temperature and pressure. The pump performance curves provide a graphic representation of the specifications for a particular pump model. Individual pumps with rotor diameters greater than 19.7 in. (VTS20 and larger) are guaranteed to perform according to these curves with a tolerance of 95% ACFM and 105% BHP at the standard conditions of 50% relative humidity, 60° F inlet air temperature, 60° F sealing liquid temperature, and 29.92" Hg absolute barometric pressure. Individual pumps with rotor diameters less than 19.7 in. (VTS10 and smaller) are guaranteed to perform according to these curves with a tolerance of 90% ACFM and 110% BHP at the standard conditions of 50% relative humidity, 60° F inlet air temperature, 60° F sealing liquid temperature, and 29.92" Hg absolute barometric pressure. Performance is confirmed by individual testing and recorded by pump serial number.

MODEL IDENTIFICATIONS

Pumps models are designed by alphanumeric code Design style + nominal capacity size (ACFM) in hundreds + material construction features.

DESIGN STYLE

Model (Series):	Bolt in Replace:
VTS	AT

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MATERIAL CONSTRUCTION FEATURES

Model	Rotors	Cones	Heads	Bearing Carrier	Housing	Shaft	Packing Gland, Studs, Nuts
A	Ductile Iron	Cast Iron	Cast Iron	Carbon Steel	Cast Iron	Carbon Steel	316 SS
K	304 SS	Cast Iron	Cast Iron	Carbon Steel	Cast Iron	Carbon Steel	316 SS

(SS – cast stainless steel)

EXAMPLE

VTS20A 2,000 ACFM nominal capacity, “A” construction