



# Vacuum Pump Selector Guide

## Step 1 | Vertical Scale

Locate the desired vacuum level in inches of mercury along the Y axis.

1 Torr = 1mm mercury absolute pressure

## Step 2 | Horizontal Scale

Calculate and locate the required capacity in CFM or m<sup>3</sup>h along the X axis based on system volume, pump down time, gas load, and leakage.

## Step 3 | Intersection

The box where the two lines intersect contains the possible pumps for selected pressure and capacity.

### Selector Guide Example

Please consult your Kinney sales representative for final product selection.

For 50 CFM and 80 Torr the selector guide indicates that KD, KDH, KVA, KLRC, KDP, and SDV pumps should be considered.

TO CONVERT INCHES OF MERCURY VACUUM TO TORR:  
 Torr = (30 - inches of vacuum) x 25.4 at sea level  
 e.g., 20 inches Hg = (30-20) x 25.4 = 254 Torr

#### Key VANE AND CLAW



KVO Rotary Vane



KVC Rotary Dry Claw



KVA Rotary Vane

#### LIQUID RING



Single Stage A Series



Liquid Ring Two-Stage

#### PISTON



Rotary Piston KC



Rotary Piston KT



Rotary Piston KD



Rotary Piston KTC

#### BOOSTERS

VB

#### DRY SCREW



Screw Type-Dry Vacuum



Dry Screw Vacuum