

Vacuum Centre Sizing Guidelines

VACUUM CENTER SIZING GUIDELINES

The number of lift points, water flow, and type of equipment determine the size of your AcomVac Vacuum Center. These guidelines are provided as general information for estimating vacuum center size based on typical drainage requirements. Please contact AcomVac or your local representative for additional information if the equipment or facility drainage requirements are not covered in these guidelines.

Sizing Factors

Calculate the total load requirement by adding the total point value for all equipment requiring vacuum drainage. Some types of equipment have higher volume drainage requirements and add a greater number of points. See the following table:

Item	Total Qty	Load factor	Total load point value*
1. Refrigerated cases and refrigeration coils	_____	Divide by 2.5	= _____
2. Hand sinks	_____	Multiply by 1.0	= _____
3. Misting systems	_____	Multiply by 1.0	= _____
4. Prep sinks	_____	Multiply by 10	= _____
5. Floor drains, including trench drains	_____	Multiply by 5	= _____

*Note: Always round up to the next whole point when calculating total load point values

Calculating Size

Add the total value for each type of equipment to find the appropriate vacuum center size in Table 1:

Example:

Store requires vacuum drainage for the following equipment:

- 57 refrigerated and frozen food cases
- 2 misting systems
- 1 prep sink
- 2 floor drains

$$\begin{aligned}
 (57) \text{ divided by } 2.5 &= 22.8 &= 23 \\
 (2) \times 1 &= 2 \\
 (1) \times 10 &= 10 \\
 (2) \times 5 &= 10 \\
 \text{Total lift point value} &= 45
 \end{aligned}$$

Selection:

In this example, the total load point value is 45, which would recommend the use of an AcomVac Model AV-60S-2.3-LR-STK Vac Center.

SELECTION TABLE

Maximum Load Point Capacity	Vac Center Model	Maximum F.D. & Prep Sinks
5	AV-20S-1.2-LR(BV)	0
15	AV-30S-1.2-LR-STK ¹	0
35	AV-30S-2.2-LR-STK	0
55	AV-30S-2.3-LR-STK	1
55	AV-60S-2.3-LR-STK	3
75	AV-60S-2.5-LR-STK	5
100	AV-60S-3.5-LR-STK	7

Notes: 1) State and local code may require duplex pumps and tanks. If so, use AV-30S-2.2-LR-STK.

2) Same Load Point capacity applies to AV-30S-1.2-LR-STK-MOD.

3) Contact factory for sizing approval on installations at or above 3,300 feet elevation.

AV-20S-1.2-LR(BV)

Application Data

Capacity	5 Lift Points
Usage	Condensate, Hand Sinks

Dimensional Data

Dry	Wet		H	W	L
200 lbs	375 lbs	in	59	20	23
91 kg	170 kg	mm	1499	508	584

Electrical Data (60Hz)

200-275V	345-480V
8.3 FLA	4.7 FLA

Electrical Data (50Hz)

200-240V	345-415V
6.2 FLA	3.5 FLA

