CM-VRU 10, 15 AND 25 VACUUM RAILCAR UNLOADING SYSTEMS

- **Reliable, efficient operation**
  Loads, power unloads and cleans filters automatically with each cycle.

- **Low cost, versatile**
  Allows system to grow with your needs.

- **Simple to operate, easy to maintain**
  Requires minimal attention and maintenance.

The CM-VRU is a reliable, low cost and simple solution for your railcar unloading requirements. Its reliability is based on simplicity. The CM-VRU uses a vacuum pump to convey material to a silo-mounted receiver. A timed valve on the pump then reverses the air flow to “power unload” the receiver and backwash all filters in the system without stopping the pump. Operation is completely automatic, highly efficient and fast.

A lower cost alternative to combination vacuum/pressure units, the single pump/dust collector design of the CM-VRU can direct material to as many as 12 silos by just adding receivers, allowing your system to grow with your material conveying needs.

If you need proven, long-life performance for unloading bulk material from distances up to 500 ft without the investment in a vacuum/pressure unit, put one of Milacron’s CM-VRU systems to work for you.

**HIGHLY RELIABLE. LOW COST. SIMPLE TO OPERATE**

Simple to operate and easy to maintain, the system requires minimal attention and features an easy-to-use control. The self-cleaning feature eliminates typical maintenance while the ground level dust collector and silo-mounted stainless steel receiver provide easy access for filter changes.

**SYSTEM COMPONENTS INCLUDE**

- Stainless steel built receiver with 7 ft³ capacity
- Vacuum pump assembly with all reversal valve
- Dust collector
- System control: Standard model monitors up to 4 silos; optional model up to 12 silos
- Railcar unloading valve kit
- 10 and 20 ft flex hoses with quick couplers; available in stainless steel as an option
- Railcar faucet filter

CINCINNATI MILACRON
CM-VRU 10, 15 AND 25 VACUUM RAILCAR UNLOADING SYSTEMS

**DIMENSIONS** inches and millimeter (mm) (ALL MODELS)

<table>
<thead>
<tr>
<th></th>
<th>CONTROL</th>
<th>RECEIVER</th>
<th>PUMP</th>
<th>DUST COLLECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>25 (635)</td>
<td>45 (1143)</td>
<td>52 (1321)</td>
<td>67 (1702)</td>
</tr>
<tr>
<td>Width</td>
<td>25 (635)</td>
<td>28 (711)</td>
<td>37 (940)</td>
<td>23 (584)</td>
</tr>
<tr>
<td>Depth</td>
<td>8 (203)</td>
<td>28 (711)</td>
<td>82 (2157)</td>
<td>19 (483)</td>
</tr>
<tr>
<td>Weight / lb [kg]</td>
<td>100 (45)</td>
<td>145 (66)</td>
<td>720 (327)</td>
<td>180 (82)</td>
</tr>
</tbody>
</table>

**MODEL**

<table>
<thead>
<tr>
<th></th>
<th>CM-VRU 10</th>
<th>CM-VRU 15</th>
<th>CM-VRU 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Hp</td>
<td>10</td>
<td>15</td>
<td>25</td>
</tr>
</tbody>
</table>

**VOLTAGE / Ampere**

- 240: 30, 40, 60
- 480: 15, 20, 30

Power is connected to the main control enclosure. Cable must be provided to connect the pump motor to the control.

**COMPRESSED AIR REQUIREMENT**

1/4 in NPT to Air Reversal Valve on Vacuum Pump

60 psi @ 1 CFM

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*Milacron offers a complete line of bulk conveying systems for rates up to 50,000 lb/hr and distances up to 1,000 ft. Milacron’s engineers will evaluate your requirements and offer the system solution that best fits your needs.*

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**TYPICAL CONVEYING RATE/DISTANCE PERFORMANCE FOR VRU 25**

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**THROUGHPUT RATES FOR VRU SYSTEMS**

<table>
<thead>
<tr>
<th></th>
<th>CM-VRU 10</th>
<th>CM-VRU 15</th>
<th>CM-VRU 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>THROUGHPUT WITH PE (35 lb/ft²) *</td>
<td>7000</td>
<td>11000</td>
<td>16000</td>
</tr>
<tr>
<td>at 100 ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a 500 ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THROUGHPUT WITH PET (53 lb/ft²) *</td>
<td>9000</td>
<td>14000</td>
<td>20000</td>
</tr>
<tr>
<td>at 100 ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 500 ft</td>
<td>4000</td>
<td>6000</td>
<td>9500</td>
</tr>
</tbody>
</table>

**MATERIAL/AIR LINE SIZE**

- 2.5 IN. OD
- 3 IN. OD
- 4 IN. OD

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*In pounds per hour, rates are approximate. Contact a Milacron Representative for guaranteed rates for your application.*

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**HOW IT WORKS**

**VACUUM CYCLE TO LOAD MATERIAL**

- Hatch Filter
- System Control
- Pressure Unloading Tube Kit

**PRESSURE CYCLE TO POWER UNLOAD AND CLEAN FILTER**

- Hatch Filter
- System Control
- Pressure Unloading Tube Kit

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Cincinnati Milacron

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