VRM-H Modular Vacuum Receivers with Hinged Lids

VRM-H Series Receivers provide transfer of plastic pellets and regrind using centralized vacuum pumps and controls. They offer a wide range of important advantages that improve performance and ease of use over typical vacuum receivers.

5 YEAR warranty — LOWEST TOTAL COST OF OWNERSHIP

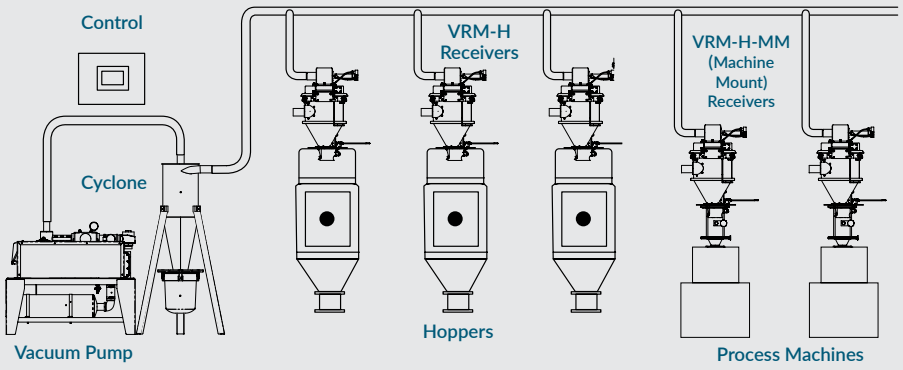
Standard models are constructed for flange mounting to existing bins or hoppers and smaller models will fit directly onto machine mount glasses for easy retrofit. An external fill valve (EFV) provides vacuum for each receiver and can be mounted on the receiver lid or externally in the vacuum line.

VRM-10-HF
(Filterless)

- **Hinged Lid with Adjustable Mount**
  Quick, hands-free access to filter. Easily reconfigure inlet-to-hinge orientation.
- **Bolt-on Inlets and External Fill Valves**
  Allow units to be repurposed with a simple line size replacement.
- **Stainless Steel Construction**
  Rugged 14 gauge SS body section provides a wear resistant, non-ferrous material contact surface.
- **Tangential Material Inlet**
  Provides cyclonic air/material separation which minimizes material degradation.
- **3" Discharge on 10, 20 and 30 lb Models**
  Provides faster and more complete discharge of materials - especially regrind.
- **Material Inlet Deflector Check Valve**
  FDA silicone gasket provides positive seal. No external material line valve needed!
- **Externally Mounted Mechanical Demand Switch**
  Proven reliability with years of use on Novatec GSL receivers.
- **Local On/Off Switch and LED**
  Convenient pause for material change, and visual indicators for receiver demand and fill cycle.
- **Dump Valve with Integrated Level Switch**
  Included on standard, blowback and filterless models. Dump valve protected from damage by protective shroud with less protrusion into hoppers/bins.
- **More Reliable Gasket Seal Design**
  Established through extensive testing with pellets and dusty regrind.
- **Terminal Box w/Plug & Cable**
  6-Pin quick release plug with 12-foot cable.

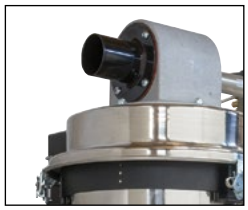
PLUS

- Reinforced 20 mesh stainless steel pellet screen
- Inlet/outlet diameters of 1.5" to 4" (3.8 – 10 cm)
- 24 VDC or 115 VAC control voltage
- 5-year warranty for lowest cost of ownership



NOVATEC

Many popular features
not found on other receivers



Bolt-on, integral, lid-mounted external fill valve (EFV) for vacuum sequencing is standard for vacuum lines up to 3" OD. Can be mounted externally if desired.

Bolt-on material lines allow inlets to be easily replaced due to wear issues or to be repurposed with a simple line size replacement.

Custom molded FDA silicone gasket on full-flow dump throat assures tight seal and no loss of vacuum. Unique design keeps resin from contacting gasket surface. Low profile shroud provides less intrusion into hopper/ bin and flapper protection.

Tangential inlet provides cyclonic flow minimizing material degradation. Internal flapper with FDA silicone seal allows common line system use.

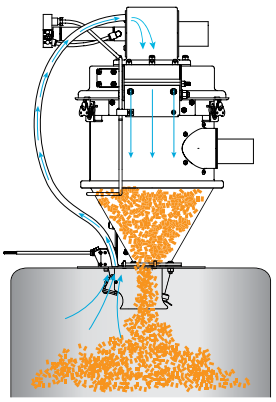
Expanded aluminum supports 20 mesh stainless steel fines filter screen.

Powerful blowback accessory.

All VRM-H models available as filterless.

VRM-20-H with 12 lb machine mount glass and optional photo eye sensor. Standard HRH converts easily to machine-mount model.

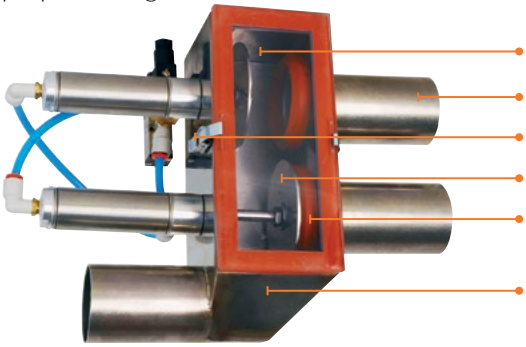
VRM-H with closed loop vent
Uses air from the hopper to vent the chamber during discharge while keeping ambient air out.



Optional External Proportioning Valve

External proportioning valve provides proportioning/ layering of materials when used with VRM-H receivers. Optional mini-PLC control may be programmed for proportioning.

Shipped with coupler.
Choose 24 VDC or 115 VAC.
See separate data sheet.

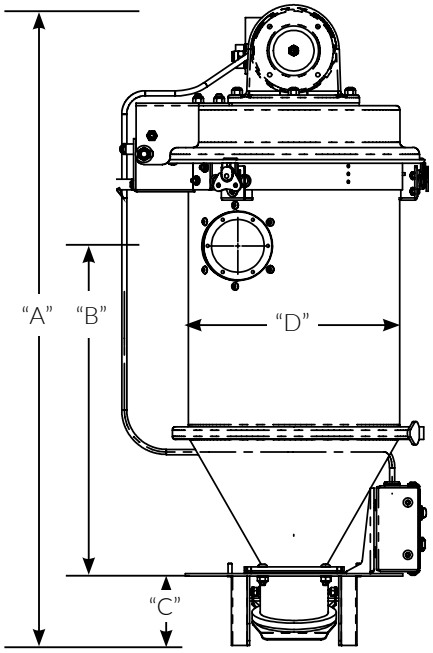


- Polycarbonate access window
- Inlet/outlet diameter 1.5” to 4.0"
- Quick-release latches
- Stainless steel disc/seat
- Molded V-tip ring gaskets are flange mounted - out of material flow
- Stainless steel body with unique design creates turbulent flow to clear material

DIMENSIONS AND WEIGHTS

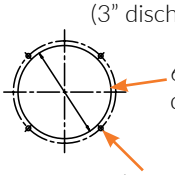
Hopper Loading Packages										
Part Number	A		B		C		D		Shipping Wgt.	
	in	cm	in	cm	in	cm	in	cm	lb	kg
VRM-10-H	25.5	64.8	9.52	24.2	3.3	8.4	10	25.4	25	11
VRM-20-H	30.5	77.5	15.5	39.4	3.3	8.4	10	25.4	29	13
VRM-30-H	37.9	96.3	22.9	58.2	3.3	8.4	10	25.4	40	18
VRM-40-H	30.3	77	15	38.1	3.5	8.9	16	40.6	45	21
VRM-70-H	36.8	93.5	21.5	54.6	3.5	8.9	16	40.6	55	25
VRM-100-H	46.2	117.4	30.9	78.5	3.5	8.9	16	40.6	65	30

Add 7” to “A” and “B” for Filterless on -10 through -30
Add 9” to “A” and “B” for Filterless on -40 through -100
Allow 5.5" additional clearance to open lid on the VRM-10/20/30
Allow 11" additional clearance to open lid on the VRM-40/70/100



Mounting Patterns

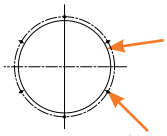
VRM-10 through VRM-30
(3” discharge assembly)



6.25”/159 mm dia. hole

4 each 0.39”/ 9.9 mm dia. holes equally spaced on a 6.88”/174.8 mm dia. B.C.

VRM-40 through VRM-100
(5” discharge assembly)



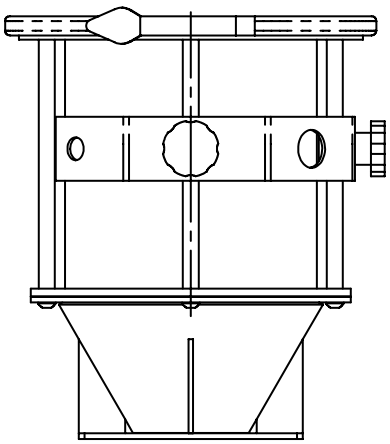
12”/305 mm dia. hole

6 each 0.31”/ 7.9 mm dia. holes equally spaced on a 13”/330.2 mm dia. B.C.

Machine Mount Packages								
Part Number	Height		Capacity		Discharge Dia.		Shipping Wgt.	
	in	cm	lb	kg	in	cm	lb	kg
GMM-VRM-8	14.4	14.4	8	3.6	2	15.2	30	14
GMM-VRM-8-7F	13	33	8	3.6	3.5	15.2	34	16
GMM-VRM-12	18.4	46.7	12	5.4	2	25	45	21
GMM-VRM-12-7F	17	43.2	12	5.4	3.5	25	50	23
GMM-VRM-16	21.4	54.4	16	7.3	2	4.6	60	28
GMM-VRM-16-7F	20	50.8	16	7.3	3.5	25	65	30
**MHA-38	27	68.7	38	18.8				

*For VRM-10 through VRM-30
**For VRM-40, use machine/surge hopper MHA-38
See MHA data sheet for details.

MHA-38



Machine mount package shown with bracket for optional photo eye sensor.

SPECIFICATIONS

Model	Configuration	Volume		Capacity*		Line Size	
		ft^3	liters	lb	kg	in	mm
VRM-10-H	Standard	0.26	7.4	10	4.5	1.5, 2, 2.5 & **3	38, 50, 64 & **76
VRM-10-HB	Blowback						
VRM-10-HF	Filterless					1.5 & 2	38 & 50
VRM-20-H	Standard	0.53	15	20	9.1	1.5, 2, 2.5 & **3	38, 50, 64 & **76
VRM-20-HB	Blowback						
VRM-20-HF	Filterless					1.5 & 2	38 & 50
VRM-30-H	Standard	0.79	22.4	30	13.6	1.5, 2, 2.5 & **3	38, 50, 64 & **76
VRM-30-HB	Blowback						
VRM-30-HF	Filterless					1.5 & 2	38 & 50
VRM-40-H	Standard	1.1	31.2	40	18.1	1.5, 2, 2.5, 3 &**4	38, 50, 64, 76 & **100
VRM-40-HB	Blowback						
VRM-40-HF	Filterless					1.5, 2 & 2.5	38, 50, 64
VRM-70-H	Standard	1.85	52.4	70	31.8	1.5, 2, 2.5, 3 &**4	38, 50, 64, 76 & **100
VRM-70-HB	Blowback						
VRM-70-HF	Filterless					1.5, 2 & 2.5	38, 50, 64
VRM-100-H	Standard	2.63	74.5	100	45.4	1.5, 2, 2.5, 3 &**4	38, 50, 64, 76 & **100
VRM-100-HB	Blowback						
VRM-100-HF	Filterless					1.5, 2, & 2.5	38, 50, 64

*Resin capacity based on 38 lb/ft^3 bulk density.
**These sizes available as welded tube stubs. 4.0" vacuum line only available as lid tube stub and used with the SV-40, 4.0" station valve (included).
For all models: 24 VDC standard – 115 VAC is a no charge option.

ACCESSORIES

Pulsed Blowback Control
Mini-PLC control mounts near receiver and generates adjustable blowback signals when the central control is not equipped with the blowback feature.

External Proportioning Valve with Coupler
Available for all receivers. *(See separate data sheet.)*

Proportioning Valve Control
Mini-PLC control mounts near receiver and generates adjustable proportioning signals when the central control is not equipped with proportioning capability. Utilizes the receiver's load signal.

Retrofit Glass Hopper Sizes for Existing MM Units
Field conversion kit includes base, glass, top adapter plate and discharge cone/valve assembly 8, 12, or 16 lb glass.

Level Switch, Capacitance
30 mm diameter, 2 m cable - Available for all receivers.

OPTIONS

Must Specify Glass Hopper for Machine Mount Units
See Machine Mount Packages chart on previous page.

DeviceNet Cables for All Models
In lieu of standard cables, 24 VDC only.

Custom Drilling of MM Flange
Standard base flange is blank for customer drilling.

Extended Wear Package for VRM-10 through VRM-100 Models Include:
- Removable ceramic lined inlet
- Ceramic coated inlet flapper check valve
- Removable ceramic coated impact wear plate
- SS discharge flapper

Ceramic-lined Inlet Diameters Available for Wear Package
- VRM-W10-H, VRM-W20-H, and VRM-W30-H (1.5"-3")
- VRM-W40-H, VRM-W70-H and VRM-W100-H (1.5" to 4.0")
  (See price list 315A.)

Baltimore, MD 21225 USA 410-789-4811 | Fax: 410-789-4638 | 1-800-BESTDRY (800-237-8379) | sales@novatec.com | **www.novatec.com**

© 2019 NOVATEC, Inc. All rights reserved. All information in this bulletin is subject to change without notice.
Form # VRM-H 22 JULY 2019