



Model RD Series Dust Collector with manual shaker

Owner's Manual

WARNING

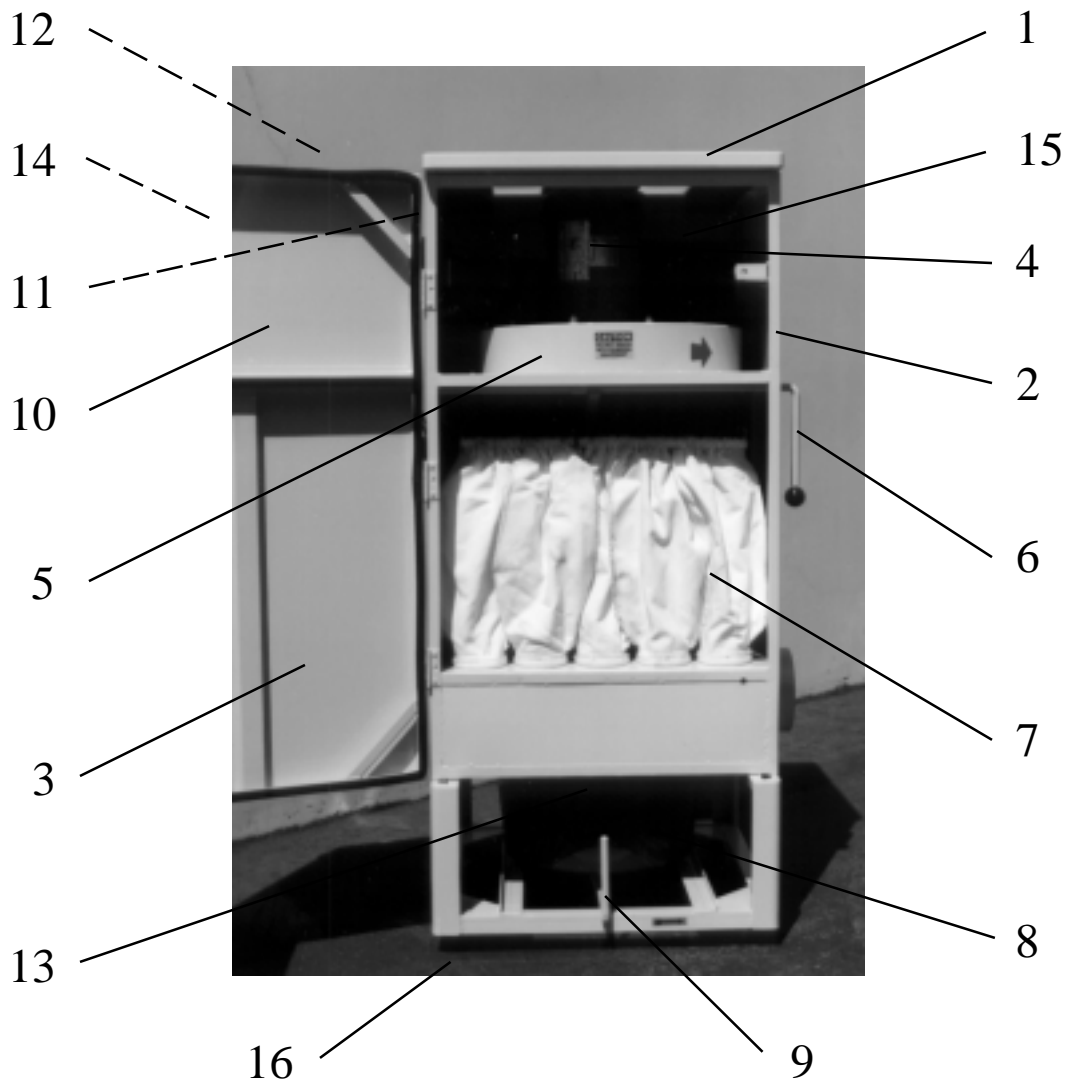
This equipment must not be operated without complete observance of the safety rules and grounding and power hook-up instructions. Not observing this information can result in electrical shock, serious physical injury or damage to the equipment.



Specifications

MODEL(Standard Flow)	RD-211-QL/QLH	RD-322-QL/QLH	RD-437-QL/QLH
Input Voltage (VAC)	230/460, 3Φ	230/460, 3Φ	230/460, 3Φ
Power Consumption (KW)	1.1 (1.5 H.P.)	2.2 (3 H.P.)	3.7 (5 H.P.)
Amperage (A)	4.2 / 2.1	7.6 / 3.8	12.8 / 6.4
Power Cable Length (FT)	10, 18 AWG	10, 18 AWG	10, 16/18 AWG
Fan Wheel (DIA x WIDTH)	12-3/16 x 2-1/2	13-1/2 x 2-1/2	15 x 2-1/2
Max Air Flow (CFM)	1200 (34 M3/m)	1700 (48 M3/m)	2000 (57 M3/m)
Max Static Pressure (INCH H2O)	9 (230 mm)	12 (300 mm)	14 (350 mm)
Filter Area 1st (SQ FT)	50, Polyester	76, Polyester	135, Polyester
Filter Area 2nd (SQ FT)	Optional	Optional	Optional
Dust Capacity (GALLON)	5	15	27
Noise Level (dB A)	80	83	85
Hose Inlet Diameter (INCH)	6	8	10
Size W x L x H (INCH)	24 x 24 x 52/66	29 x 29 x 60/75	35 x 35 x 72/89
Weight (LB)	190/220	370/410	500/560

MODEL (Premium Flow)	RD-222-QL/QLH	RD-337-QL/QLH	RD-455-QL/QLH
Input Voltage (VAC)	230/460, 3Φ	230/460, 3Φ	230/460, 3Φ
Power Consumption (KW)	2.2 (3 H.P.)	3.7 (5 H.P.)	5.5 (7.5 H.P.)
Amperage (A)	7.6 / 3.8	12.8 / 6.4	18.4 / 9.2
Power Cable Length (FT)	10, 18 AWG	10, 16/18 AWG	10, 12/16 AWG
Fan Wheel (DIA x WIDTH)	12-3/16 x 4	13-1/2 x 4	15 x 4
Max Air Flow (CFM)	1900 (54 M3/m)	2500 (72 M3/m)	3200 (90 M3/m)
Max Static Pressure (INCH H2O)	9 (230 mm)	12 (300 mm)	14 (350 mm)
Filter Area 1st (SQ FT)	50, Polyester	76, Polyester	135, Polyester
Filter Area 2nd (SQ FT)	Optional	Optional	Optional
Dust Capacity (GALLON)	5	15	27
Noise Level (dB A)	83	85	88
Hose Inlet Diameter (INCH)	6	8	10
Size W x L x H (INCH)	24 x 24 x 52/66	29 x 29 x 60/75	35 x 35 x 72/89
Weight (LB)	200/230	390/430	530/590



ITEM NO	RD-2XX	RD-3XX	RD-4XX	DESCRIPTION
1	RV-20112	RV-30312	RV-40512	EnclosureTop
2	RV-20111	RV-30311	RV-40511	Enclosure Main
3	RV-20113	RV-30313	RV-40513	Enclosure Door
4	1-1/2H.P., 2 Poles	3H.P., 2 Poles	5P.H., 2 Poles	Standard Electric Motor
5	RV-20072	RV-30072	RV-40072	Standard Fan Assy
6	PV-20129	RV-30329	RV-40529	Manual Shaking Assy
7	RV-00092-2 x 12	RV-00092-2 x 18	RV-00092-2 x 32	Filter Element Assy
8	RV-10025	RV-15025	RV-10841	Dust Bucket
9	RV-20156	RV-30356	RV-40556	Dust Bucket Release Handle
10	1/2" THK Foam	1/2" THK Foam	1/2" THK Foam	Sound Insulator
11	PS-111-C	PS-111-C	PS-118-C	Motor Starter Switch
12	18/4 SJOW x 10'	18/4 SJOW x 10'	16/4 SJOW x 10'	Standard Power Cable
13	RV-10329-2	RV-10329-4	RV-10329-5	Dust Bucket Gasket
14	2-1/2" Dia Knob	2-1/2" Dia Knob	2-1/2" Dia Knob	Door Knob
15	RV-20114	RV-30314	RV-40514	Sound Baffle Plate(Optional)
16	2" Dia Caster	2" Dia Caster	2" Dia Caster	Steel Caster

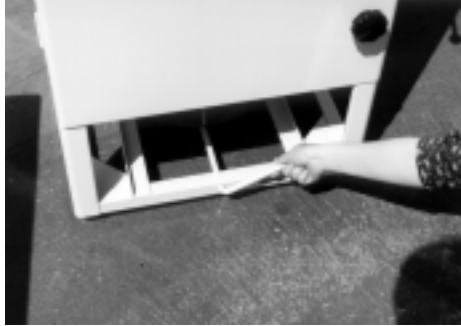
Safety Precautions

1. **Grounding** - This equipment must be grounded. Make sure that the green wire in the power cable is properly attached to a secure earth ground.
2. **Power Hook-up** - This equipment is designed to be operated from a source of three phase power. When an extension cord is needed, the extension cord must be of the same or larger guage as the supplied power cable to prevent loss of power or overheating of the cable.
3. **Overload Circuit Breaker** - Make sure that the overload circuit breaker is set to proper amperage according to the input voltage at which the unit is to be operated.
4. **Static Shock** - Static shock is common in areas with low relative humidity and is not indicative of improper functioning of the Dust Collector. This problem can be reduced by adding moisture to the air with a conventional humidifier.
5. **Dry Pick-up** - Do not vacuum toxic, combustible, or other hazardous materials such as asbestos, arsenic, barium, beryllium, lead, or pesticides. Do not pick up burning cigarettes or other smoking materials, ashes, matches, or similar materials.
6. **Never** operate the unit in the presence of flammable vapors or dust or as a sprayer of liquids such as paints or oils.
7. **Never** operate the unit without the filters in place.

Operating Instructions

1. **Power Hook-up** - Electrical power hook-up must be performed by a licensed electrician in accordance with the applicable electrical codes. This unit is equipped with a three phase motor. The direction of rotation of the motor must be confirmed to be in the direction of the arrow inscribed on the unit.
2. **Inlet Hose / Duct Installation** - Attach the proper diameter hose to the inlet using conventional hose clamps.
3. **Power On** - This unit is designed for continuous operation. When first powered on, please check for powerful suction from the unit. If the unit does not power on, or shuts down after prolonged use in high temperature environments, the thermal overload protection circuit may have become activated. If so, please wait 10 minutes and try the power on again.

4. Emptying of Dust Bucket - To empty the dust bucket, first rotate the level clockwise one-quarter turn to lower and release the bucket. Then gently slide the bucket out for emptying. When reversing these steps for reinstallation, please be sure that the bucket is properly positioned so as not to cause a vacuum leak.



5. Shaker Operation - This dust collector is equipped with a shaker mechanism to help clear the filters when they clogged. Before and after each use, the shaker knob should be moved up and down vigorously ten times. This will ensure that your dust collector will deliver its full performance for many years of trouble-free use.



Maintenance

1. Changing Filters - Filters are designed to provide long service life. However, depending upon usage and the type of materials vacuumed, they may need replacement every one to three years. Replace tube filter elements as follows:



- a. Open the front door by releasing two knobs.
- b. Remove one hitch pin clip from the arm of the shaking handle.
- c. Pull the shaking handle outward to release the shaking hanger assembly from the arm.
- d. Remove every filter tubes from the sheet metal by squeeing the cuff rings. Then take out the whole filter assembly with the hanger.
- e. Remove all filters from the hanger and set all hitch pin clips aside.
- f. Replace with new filters.
- g. Reassemble and reinstall by reversing these steps.

Caution: Verify that the every filter is snugly seated at the cuff rings.

2. **Lubrication** - No lubrication is necessary. However, certain parts of the compressor assembly are subject to wear and should be replaced as necessary, depending upon operating conditions.

LIMITED WARRANTY

Ryvac Engineering Company warrants this equipment to the original owner against defective materials or workmanship for a period of one year from the date of purchase on repair parts and labor. The manufacturer's responsibility under this warranty is limited to the repair or replacement of defective parts. The manufacturer reserves the right to dertermine whether the failure is due to defective material, workmanship or other causes. Failures caused by alteration or misuse are not covered by this warranty.

All warranty repairs must be done by **Ryvac Engineering Company** or an authorized service representative. Any repair to the equipment other than by these authorized facilities voids this warranty. These rights under this warranty are limited to the original owner and may not be transferred to subsequernt owners.

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