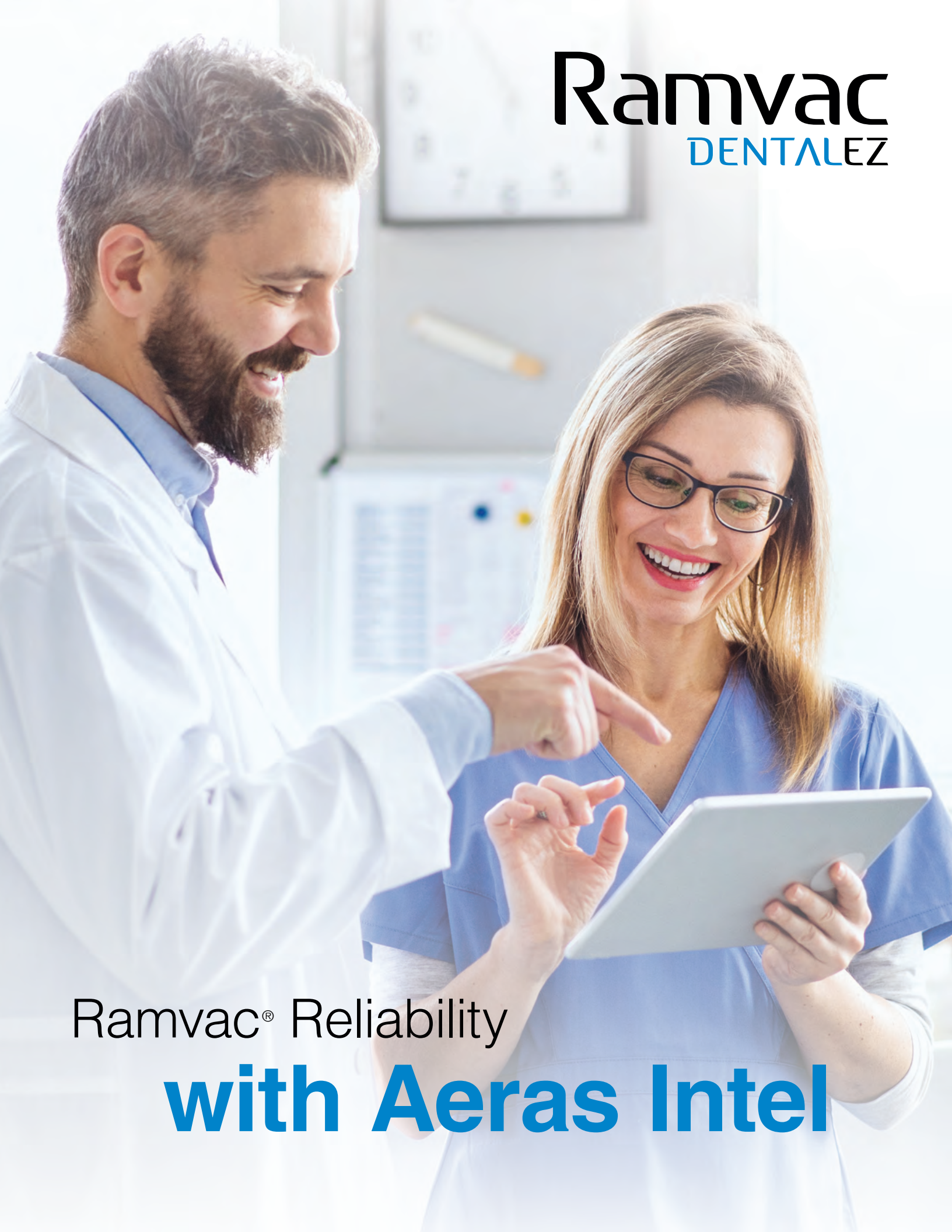
Ramvac
DENTALEZ



Ramvac® Reliability

with Aeras Intel

RAMVAC: MISSION CRITICAL

Your utility room is the heart of your practice. It has to work. It should never disrupt or distract you from improving the lives of your patients.

Having mission-critical data about the health of your compressor or vacuum is essential to your operations.

After all, patients are depending on you.

Ramvac Compressor

KNOW BEFORE AT NO CHARGE!

No matter the time, day or night, Ramvac with Aeras Intel gives you the confidence and convenience of knowing if there is preventative maintenance required with your utility equipment. Now, you can mitigate a crisis and work ahead to prevent the inevitable breakdown.

Ramvac Vacuum

WHAT'S THAT MEAN FOR YOU?

Powered by an easy-to-use and intuitive dashboard, you will know about potential utility preventative maintenance – anytime, anywere, so you can be prepared for anything.

With Aeras Intel, you will have one less thing to worry about.

AERAS, Inc. is a separate corporation from DENTALEZ, Inc.

BENEFITS THAT KEEP YOU AHEAD:

EASY SETUP: no wires to install, wifi to connect or apps to download. Equipment connects automatically through cellular and information is accessed through any web browser.

AUTOMATED SCHEDULING: automate daily activation and shutoff. Simply set it and forget it. When treatments run late, the equipment will sense activity and maintain power until the dentist is done.

COMPREHENSIVE DASHBOARD: get a bird's-eye view of a practice's entire back-office operation, including detailed technical outputs, configuration options and service records.

NOTIFICATIONS: you will get alerts and maintenance notifications so you can stay ahead of potential problems.

Your utility room is currently operating out of its normal temperature range.

BUILT TO PERFORM UNDER PRESSURE

Ramvac Vacuum *with Aeras Intel*

Every choice made in designing these vacuums is done to help protect your practice's investment — from the materials they're built with to the technology that powers them. Now with Aeras Intel, easy, proactive maintenance makes the promise of performance plus durability just about foolproof.

QUIET EFFICIENCY

Energy-efficient Ramvac motors run at a minimum of **50% less BTUs** than competitive technology, making them efficient and quiet*.

BUILT-IN SAVINGS

100% water-free operation means money saved compared to wet vacuum designs.

UNRIVALED PERFORMANCE

The advanced design of Ramvac's rotary vane pump shown in figure 1, **maintains the vacuum even as additional HVEs are opened**.

LONG-LASTING

Because our vacuum systems are lubricated, it will **far outlast non-lubricated systems**.

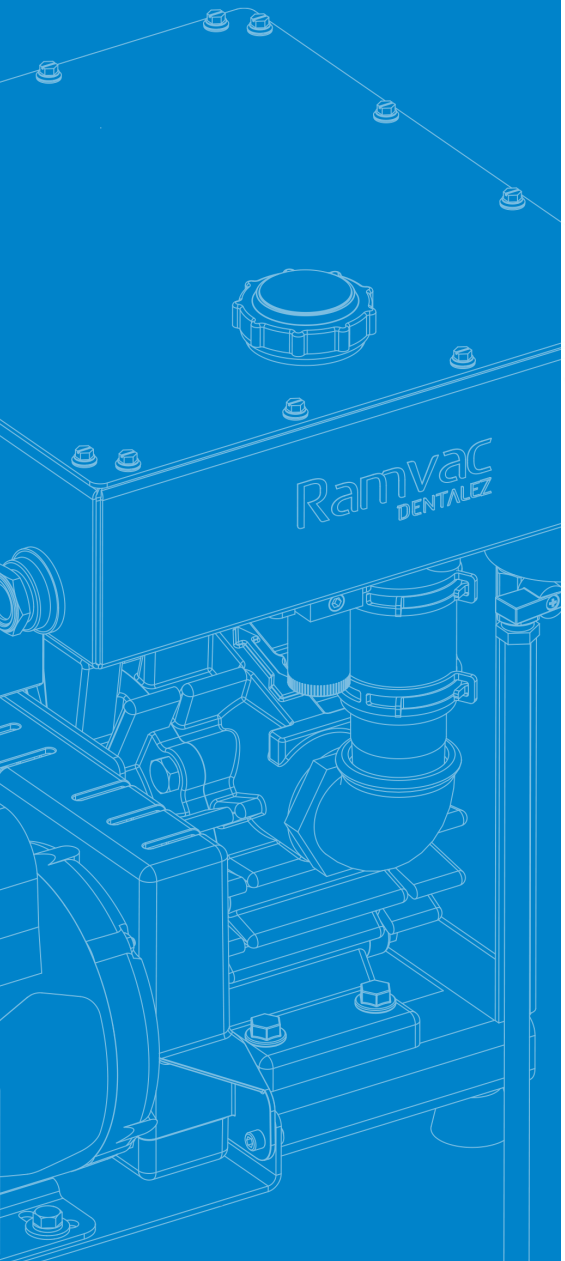
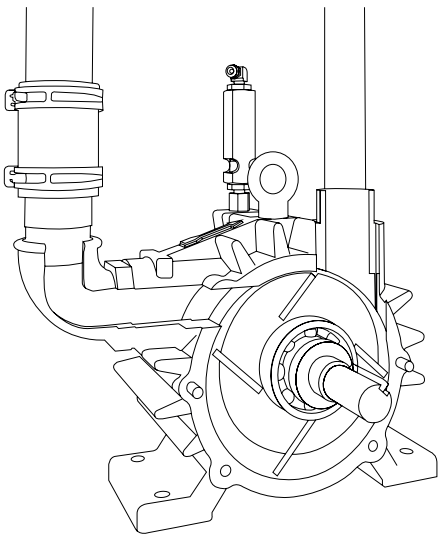


Fig. 1



**Data on File*
Fig 1. Cross Section of Rotary Vane Pump

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Ramvac Compressor *with Aeras Intel*

Your office's most expensive instrumentation is powered by air from a compressor, including chairs, handpieces, and the milling station you may be investing in. The health of your patients depends on this air as well.

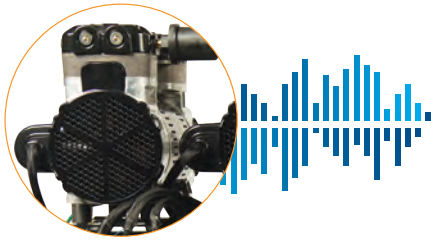
INTRODUCING THE REFINED C8!

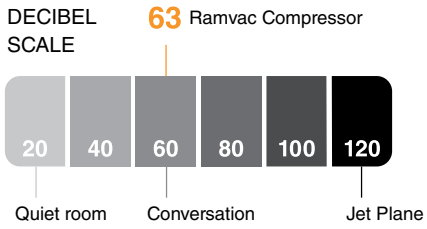
*Quieter. Lighter. Smaller.**

Quieter - Half as loud, eliminates the need for a sound shield.
Lighter - Designed for easier installs, the C8 is 135 lbs. lighter than the leading competitive option.
Smaller - Less space needed in utility room.

OUR QUIETEST COMPRESSOR

The redesigned C8 model is roughly half as loud as the older version, with no need to buy a sound shield. C3, C12 & C18 models feature an integrated sound shield option that provides a sound level as quiet as a conversation.





DRY, CLEAN AIR

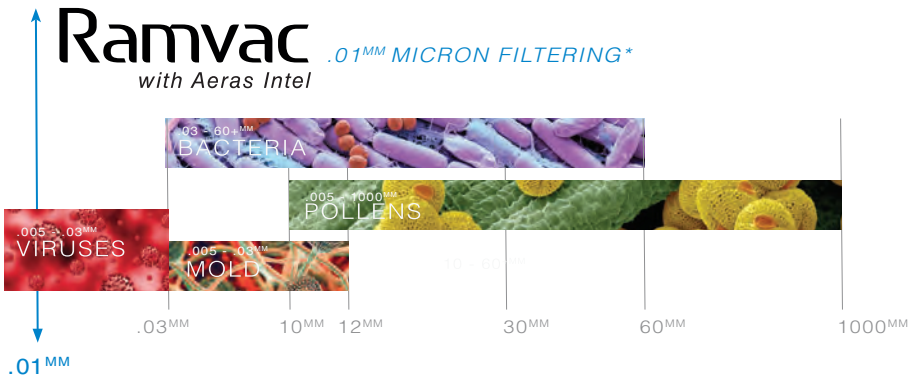
The dual-desiccant setup shown in figure 2 produces an uninterrupted supply of clean air to power the practice. Air is stored at a **pressure dew point of -40° C, preventing harmful bacteria growth**, and particulates in the air are **filtered to 0.01 microns, trapping most airborne bacteria and microbes**, see chart below.

EFFICIENCY & DURABILITY

The unique rocking-piston design **doubles the life of compression rings compared to standard piston**. The **improved 100% duty cycle design allows for continuous, consistent airflow** even when the practice is operating at full capacity.

FLEXIBLE DUAL-PRESSURE SETTINGS

A pressure toggle switch lets you easily switch between standard (85-115 PSI) and high-pressure (105-125 PSI), so **you can add a milling machine without having to upgrade equipment**.



Source: https://www.engineeringtoolbox.com/particle-sizes-d_934.html

Fig.2. Dual-Desiccant Dryer Technology

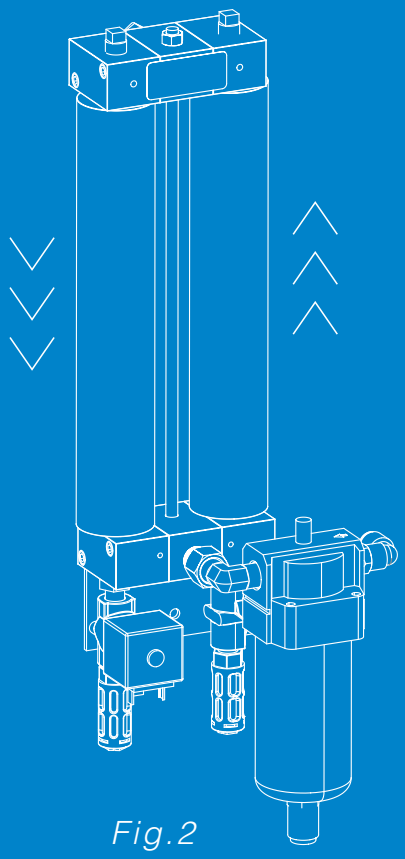


Fig.2

* Compared to previous models.

Vacuum Specifications

NOMENCLATURE KEY

Series Name	Max Number of Users	Max Input Power	Tank Included
RV = Ramvac Dry Vacuum	4 = up to 4 users	12 = 115v / 230v	T = tank included
	5 = up to 5 users	2 = 230v	
	7 = up to 7 users	23 = 230v / 3-phase	
	10 = up to 10 users		
	12 = up to 12 users		

Sizing Guide: 1 HVE = 1 User, 1 SE = 1/5 User, Nitrous Scavenger = 1/4 User

ELECTRICAL REQUIREMENTS

Item No.	Description	Output Power	Input Power	Max Amps
RV4-12T	Ramvac 4 Dry Vacuum System	1 hp (0.745kW)	115v or 230v, 1 ph 60 Hz	9 @ 115v, 4.5 @ 230v
RV5-2T	Ramvac 5 Dry Vacuum System	3 hp (2.2kW)	230v, 1 ph 60 Hz	16.0 @ 230v
RV7-2T	Ramvac 7 Dry Vacuum System	3 hp (2.2kW)	230v, 1 ph 60 Hz	16.0 @ 230v
RV10-2T	Ramvac 10 Dry Vacuum System	3 hp (2.2kW)	230v, 1 ph 60 Hz	16.0 @ 230v
RV12-23T	Ramvac 12 Dry Vacuum System	5 hp (3.7kW)	230v, 3 ph 60 Hz	13.2 @ 230v

WEIGHT AND DIMENSIONS

Item No.	Description	Weight (lbs) Pump only	Dimensions (Pump only) W x D x H (in)	Stacked Dimensions (Pump and Tank)
RV4-12T	Ramvac 4 Dry Vacuum System	200 lbs	25” x 17” x 28”	29” x 19” x 48”
RV5-2T	Ramvac 5 Dry Vacuum System	345 lbs	26” x 19” x 31”	33” x 21” x 59”
RV7-2T	Ramvac 7 Dry Vacuum System	345 lbs	26” x 19” x 31”	33” x 21” x 59”
RV10-2T	Ramvac 10 Dry Vacuum System	395 lbs	26” x 22” x 31”	33” x 22” x 59”
RV12-23T	Ramvac 12 Dry Vacuum System	395 lbs	26” x 22” x 31”	33” x 22” x 71”

SIZING GUIDE

Item No.	Description	No. of Users	Breaker Size	Drain Valve Centerline to Floor
RV4-12T	Ramvac 4 Dry Vacuum System	4	15 amp	8”
RV5-2T	Ramvac 5 Dry Vacuum System	5	20 amp	8”
RV7-2T	Ramvac 7 Dry Vacuum System	7	20 amp	8”
RV10-2T	Ramvac 10 Dry Vacuum System	10	20 amp	8”
RV12-23T	Ramvac 12 Dry Vacuum System	12	20 amp	8”

MODEL NO.	*DESCRIPTION*
003583	Air Filter Set for 4 User Vacuum Includes: Main Air Filter & Vacuum Controller Filter
310705	Oil Filter element
003740	Service Filter Set for 4 user Vacuum Includes: Main Air Filter, Vacuum Control Filter & Oil Filter Element
003700	Air Filter set for 5-12 user Vacuum Includes: Main Air Filter & Vacuum Controller Filter
003750	User Service Filter set for 5-12 user Vacuum Includes: Main Air Filter, Vacuum Control Filter & Oil Filter Elements
7809-001	Ramvac Synthetic Oil, 6 x 1qt. bottles

Notes: All Ramvac with Aeras Intel Vacuum systems (pump and tank) except RV4-12T include a platform (575056) for stacking. Height dimensions do not include S-type filters

Ramvac
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Compressor Specifications

NOMENCLATURE KEY

Series Name	Max Number of Users		Max Input Power
C = Ramvac® Compressor	3 = up to 3 users	8 = up to 8 users	12 = 115 / 230 volts
SS = Sound Shield	5 = up to 5 users	12 = up to 12 users	2 = 230 volts
		18 = up to 18 users	

ELECTRICAL REQUIREMENTS

Model Number	Description	Voltage	Amps	Breaker Size	Total HP
C3-12	Ramvac 3 Compressor	115v / 230v	12 / 6.1	15 amp	1.0
C3-12SS	Ramvac 3 Compressor w/Sound Shield	115v / 230v	12 / 6.1	15 amp	1.0
C5-12	Ramvac 5 Compressor	115v / 230v	17.6 / 9	20 / 15 amp	1.5
C8-2	Ramvac 8 Compressor	230v	16	20 amp	2.25
C12-2	Ramvac 12 Compressor	230v	21	30 amp	4
C12-2SS	Ramvac 12 Compressor w/Sound Shield	230v	21	30 amp	4
C18-2	Ramvac 18 Compressor	230v	30.5	40 amp	6
C18-2SS	Ramvac 18 Compressor w/Sound Shield	230v	30.5	40 amp	6

WEIGHT AND DIMENSIONS

Model Number	Description	Weight (lbs)	Dimensions W x D x H (in)	Dimensions w Sound Shield W x D x H (in)	Tank Size (Gallon)
C3-12	Ramvac 3 Compressor	136	30” x 21” x 26”	NA	12
C3-12SS	Ramvac 3 Compressor w/Sound Shield	136	NA	30” x 20” x 26”	12
C5-12	Ramvac 5 Compressor	128	30” x 21” x 26”	NA	12
C8-2	Ramvac 8 Compressor	155	30” x 21” x 27”	NA	12
C12-2	Ramvac 12 Compressor	230	35” x 25” x 31”	NA	20
C12-2SS	Ramvac 12 Compressor w/Sound Shield	230	NA	35” x 25” x 31”	20
C18-2	Ramvac 18 Compressor	335	41” x 29” x 32”	NA	30
C18-2SS	Ramvac 18 Compressor w/Sound Shield	335	NA	41” x 29” x 32”	30

SIZING GUIDE

Model Number	Description	Number of Users	Number of Heads	Sound Shield
C3-12	Ramvac 3 Compressor	3	2	8658-016 (x2)
C3-12SS	Ramvac 3 Compressor w/Sound Shield	3	2	Included
C5-12	Ramvac 5 Compressor	5	2	Integrated
C8-2	Ramvac 8 Compressor	8	3	Integrated
C12-2	Ramvac 12 Compressor	12	2	8625-022 (x2)
C12-2SS	Ramvac 12 Compressor w/Sound Shield	12	2	Included
C18-2	Ramvac 18 Compressor	18	3	8625-022 (x3)
C18-2SS	Ramvac 18 Compressor w/Sound Shield	18	3	Included

Notes: Pressure is 85-115 PSI. High-Pressure Mode is 105-125 PSI. Pump Up Cycle Time, 85 to 115 PSI (Sec) is 40-60

Accessories and Maintenance

MODEL NO.	DESCRIPTION
8658-016	Ramvac Sound Shield Field Install Kit 3 to 5 users, one kit per motor
8801-080	Filter Maintenance Kit - Dual Voltage 3 to 5 users
8801-079	Filter Maintenance Kit - Dual Voltage 3 to 5 users w/ Sound Shield
8801-087	Filter Maintenance Kit - C8, C12, C18
8658-009	Fresh Air Intake Kit for C3-12
8658-010	Fresh Air Intake Kit for C4-12 & C5-12
8658-012	Fresh Air Intake Kit for C8 & C12
8658-013	Fresh Air Intake Kit, C18

MODEL NO.	DESCRIPTION
8658-014	Fresh Air Intake Kit, C3-12SS
8658-015	Fresh Air Intake Kit, C4-12SS & C5-12SS
8658-019	Fresh Air Intake Kit, C8-2SS & C12-2SS
8658-020	Fresh Air Intake Kit, C18-2SS
004018SP	Service Part, Dryer HR2 for C4-1 (OSP13), C4-2 (OSP23), C3-2 (OSP22), C3-12, C4-12 & C5-12
004019SP	Service Part, Dryer HR3 for C5-12 & C8-2
004020SP	Service Part, Dryer HR4 for C6-2 (OSP24), C7-2 (OSP25), C8-2 & C12-2
005413SP	Service Part, Dryer HR4L for C11-2 (OSP28) & C18-2

Milling Machine Guidelines

COMPANY	MODEL	RAMVAC with Aeras Intel MODEL
3M	LAVA CNC 240	Ramvac 8
Amann Girrback	Ceramill Matik Ceramill Mikro Motion 2 Agrotherm	Ramvac 5 Ramvac 5 Ramvac 8 Ramvac 8
Imes-icore	CORiTEC One and One+ CORiTEC 140i now 150i CORiTEC 250i CORiTEC 350i CORiTEC 650i	Ramvac 5 Ramvac 5 Ramvac 8 Ramvac 8 Ramvac 12
Jensen	Preciso M200	Ramvac 8
Novux NX	Mill4 & 5	Ramvac 5
Roland	DGA DWX-42W MWX-52D now DWX-52D MDX-52DCi now DWX-52DCi	Ramvac 5 Ramvac 5 Ramvac 5
ShuetzDental	Tizian Cut 4 & 5.2 plus	Ramvac 8
Dentsply Sirona	CEREC MCXL, Inlab MCX5 Inlab MCXL	Ramvac 8
VHF	N4+ K4 S5 R5 K5+	Ramvac 5 Ramvac 5 Ramvac 8 Ramvac 8 Ramvac 8
Wieland	Zenotec select hybrid select ion, select mini	Ramvac 8
Zirkonzahn	M1, M2, M3, M4, M5, M6	Ramvac 8

For more information visit DENTALEZ.COM

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