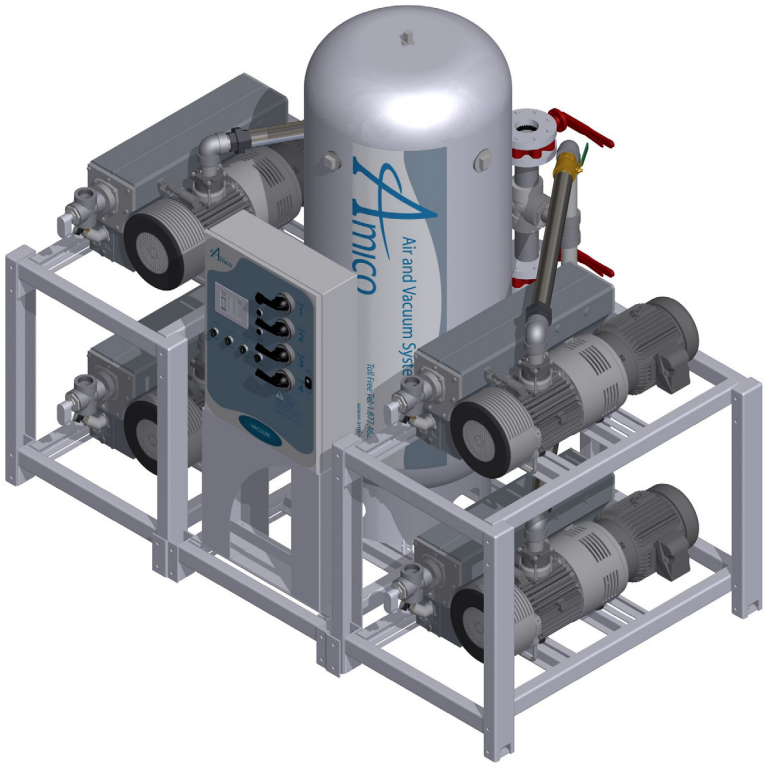
Lubricated

Rotary Vane Vacuum System



Control Panel Specifications

- UL listed control panel has a NEMA 12 enclosure.
- Externally operable circuit breakers with door interlocks, control circuit transformers with fused primary and secondary circuits, H-O-A switches and magnetic starters with three leg overload protection.
- Touch screen monitor displays the hours of operation of each pump, settings of the system and indicates any faults.
- Lighting on the H-O-A switches indicates which pump is running.
- Audible and visual local alarms are included for all required alarms and manufacturer recommended alarms.
- All control and alarm functions shall remain energized while any compressor in the system remains electrically online.
- The lag compressor shall be able to start automatically if the lead compressor fails to operate.
- Alarm contacts are provided for remote annunciation for all alarm points.
- Alarm logging within the control panel PLC (premium only).
- Ethernet connection for remote panel control (premium only).

Lubricated
Rotary Vane Vacuum System

Specifications

- Meets or exceeds the requirements of NFPA 99.
- Package contains: lubricated rotary vane vacuum pumps, associated piping and valves, one ASME air receiver and one control panel.
- System intake, exhaust and power connection at the control panel are the only field connections required.
- Air inlet and electrical shall be completely pre-piped and pre-wired to a single point service connection.
- All interconnecting piping and wiring are completed and operationally tested prior to shipment.
- Liquid tight conduit, fittings and junction boxes for all control and power wiring are provided.

Vacuum Pump

- The medical vacuum pump shall be of the rotary vane air-cooled design with integral, fully recirculating oil supply with sight glass to indicate oil level.
- The oil separation system shall be integral and shall consist of no less than three stages of internally installed oil and smoke eliminators.
- This system shall be capable of removing 99.9+ percent of all oil and smoke particles from the exhaust. Each pump shall include a built-in, anti-suck-back valve mounted at the pump inlet and each pump shall be equipped with three non-asbestos vanes.

Vacuum Pump Drive

The vacuum pump shall be direct driven. Torque is transmitted from the motor to the pump through a shaft coupling.

Vibration Isolation System

The pumps and motor are fully isolated from the package base by means of rubber mounts.

Vacuum System Accessories

Inlet and discharge flexible connectors, inlet check valves, inlet isolation valves, gauge exhaust tee with drip-leg and drain cock valve as well as poly tubing with DISS fitting for vacuum transducer.

Intake Piping

- Each vacuum pump shall have a factory piped intake with integral flex connector, isolation valve and check valve.
- Interconnecting piping shall consist of iron/galvanized pipe and fittings.

Vacuum Receiver

- ASME construction.
- The receiver shall be rated for full vacuum service and shall be equipped with a manual valve drain.
- Rated for a minimum 200 psig design pressure.

Furnish and install, where shown on the drawing, a prefabricated desiccant air treatment system as manufactured by Amico Source Corporation.

The service of a factory trained representative shall be made available at job site to check installation and start up as well as train operating personnel in proper operation and maintenance procedures. A start-up form shall be completed at the time of start-up by a factory trained representative.

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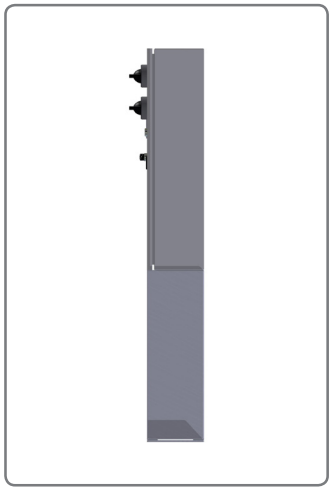
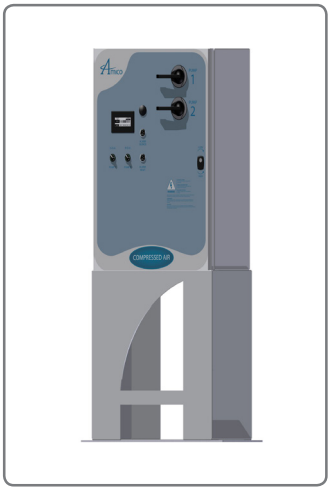
Air Compressors & Vacuum Systems

ECO+ Control Panel



Side View



Angled View

Specifications

- UL listed control panel has a NEMA 12 enclosure.
- Externally operable circuit breakers with door interlocks, control circuit transformers with fused primary and secondary circuits, H-O-A switches and magnetic starters with three leg thermal overload protection.
- Monochrome touch screen monitor with red background during fault displays the hours of operation of each pump, settings of the system and indicates any faults.
- Lighting on the H-O-A switches indicates which pump is running.
- Audible and visual local alarms are included for all alarm conditions.
- Manual reset for thermal malfunction shutdown.
- All control and alarm functions shall remain energized while any compressor or vacuum in the system remains electrically online.
- The lag compressor shall be able to start automatically if the lead compressor fails to operate.
- Digital dew point and CO readout integrated on screen, with alarm contacts.
- Digital display of the dew point (either in °F or °C) and CO in ppm on the monitor.
- Alarm contacts are provided for remote annunciation for all alarm conditions.
- Language selection: English, French or Spanish.
- Available for Duplex and Triplex systems.

The service of a factory trained representative shall be made available at job site to check installation and start up as well as train operating personnel in proper operation and maintenance procedures.

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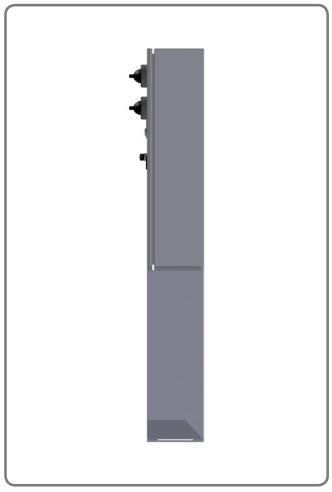
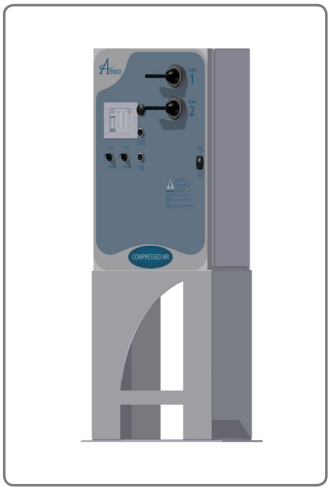
Air Compressors & Vacuum Systems

Premium 3.5 Control Panel



Side View



Angled View

Specifications

- UL listed control panel has a NEMA 12 enclosure.
- Externally operable circuit breakers with door interlocks, control circuit transformers with fused primary and secondary circuits, H-O-A switches and magnetic starters with three leg thermal overload protection.
- 3.5" (8.9 cm) multicolor touch screen monitor displays the hours of operation of each pump, settings of the system and indicates any faults.
- Lighting on the H-O-A switches indicates which pump is running.
- Audible and visual local alarms are included for all alarm conditions.
- Manual reset for thermal malfunction shutdown.
- All control and alarm functions shall remain energized while any compressor or vacuum in the system remains electrically online.
- The lag compressor shall be able to start automatically if the lead compressor fails to operate.
- Digital dew point and CO readout integrated on screen, with alarm contacts.
- Digital display of the dew point (either in °F or °C) and CO in ppm on the monitor.
- Alarm contacts are provided for remote annunciation for all alarm conditions.
- Ethernet connection for remote access to panel interface through the use of a web browser.
- Language selection: English, French or Spanish.
- Available for Duplex systems and above.

Options

- Alarm logging
- Alarm emailing
- BACNET connection
- Extra alarm points monitoring
- Internet remote panel control via 3G cellular network (Monthly connection fee applies)
- Variable Speed Drive (VFD)

The service of a factory trained representative shall be made available at job site to check installation and start up as well as train operating personnel in proper operation and maintenance procedures.

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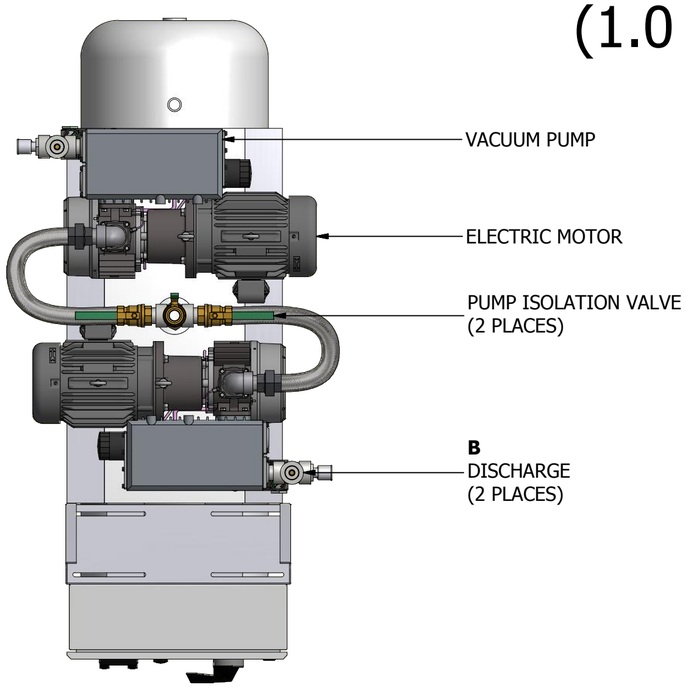
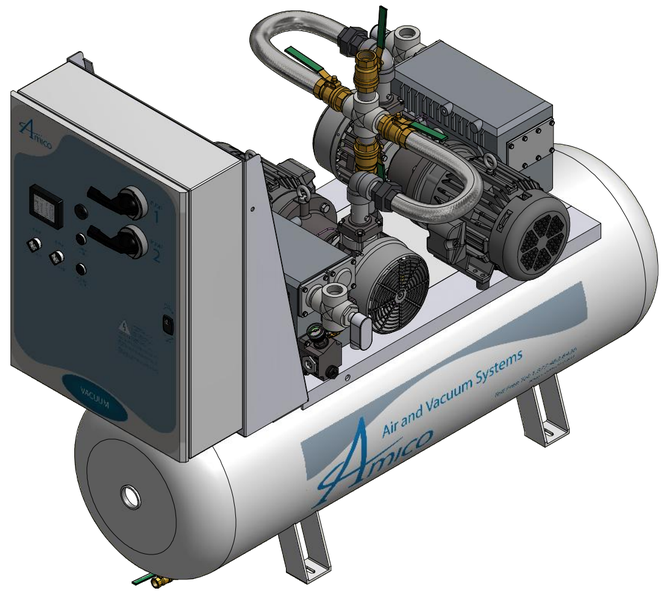
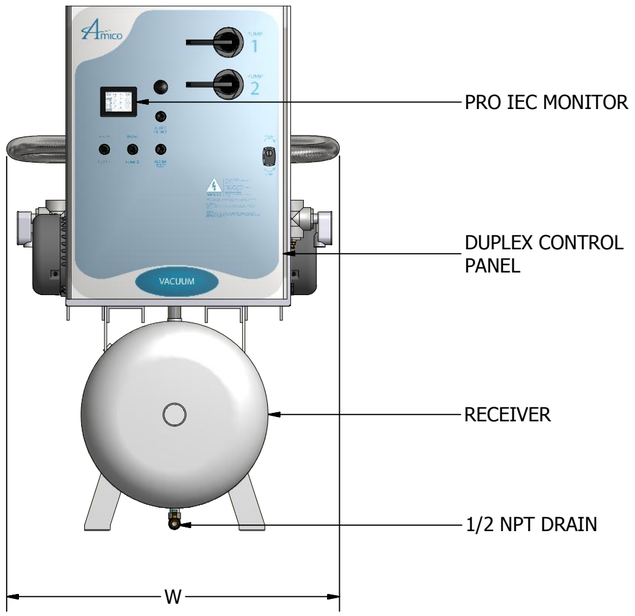
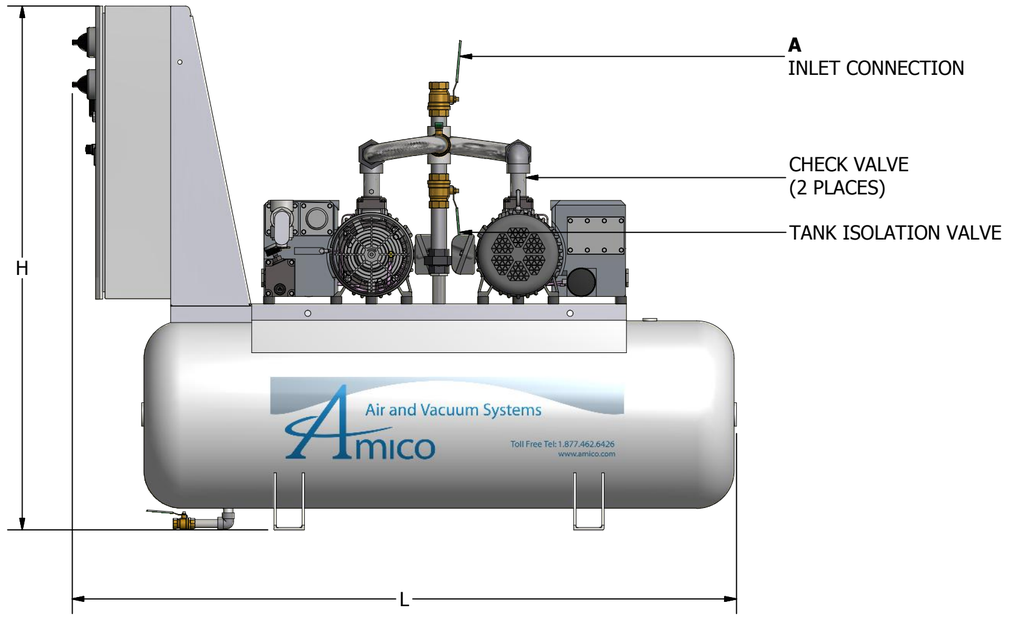
ROTARY VANE - LUBRICATED DUPLEX TANK MOUNTED VACUUM SYSTEM
(1.0 HP - 10.0 HP)









DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

MODEL	HP (kW)	A INLET NPT	B OUTLET NPT	TANK SIZE GALLON (LITRE)	PUMP SCFM @ 19" HG (LPM)		NFPA SYSTEM CAPACITIES WITH ONE COMPRESSOR ON STANDBY @ 19" HG (LPM)		WEIGHT IN LBS (KG)	SQ. FT. REQUIRED (M²)	SYSTEM FLA (WITH ALL COMPRESSORS RUNNING)				SYSTEM BTU/HR	SOUND LEVEL dB (A)	W (M)	L (M)	H (M)
					50 Hz Motor	60 Hz Motor	50 Hz Motor	60 Hz Motor			208V	230V	380V	460V					
V-RVL-D-080P-TH-N-010	1 (0.75)	0.75	0.75	80 (303)	4.6 (130)	5.5 (156)	4.6 (130)	5.5 (156)	839 (381)	15.1 (1.40)	7	7	4	4	2,545	72	32 (0.81)	68 (1.73)	60 (1.52)
V-RVL-D-080P-TH-N-015	1.5 (1.12)	1.25	1.25	80 (303)	5.8 (165)	7.0 (198)	5.8 (165)	7.0 (198)	1064 (482)	19.4 (1.81)	10	8	5	4	3,818	70	40 (1.02)	70 (1.78)	60 (1.52)
V-RVL-D-080P-TH-N-020	2 (1.49)	1.25	1.25	80 (303)	9.2 (260)	11.0 (311)	9.2 (260)	11.0 (311)	1041 (472)	16.5 (1.54)	12	11	6	5	5,091	70	34 (0.86)	70 (1.78)	60 (1.52)
V-RVL-D-080P-TH-N-030	3 (2.24)	1.25	1.25	80 (303)	14.2 (401)	17.0 (481)	14.2 (401)	17.0 (481)	1213 (550)	20.8 (1.94)	18	16	9	8	7,636	70	40 (1.02)	75 (1.91)	60 (1.52)
V-RVL-D-120P-TH-N-050	5 (3.73)	2.0	2.0	120 (454)	30.8 (873)	37.0 (1048)	30.8 (873)	37.0 (1048)	1795 (814)	30.9 (2.87)	29	26	15	13	12,727	79	57 (1.45)	78 (1.98)	66 (1.68)
V-RVL-D-120P-TH-N-075	7.5 (5.59)	2.0	2.0	120 (454)	43.3 (1227)	52.0 (1472)	43.3 (1227)	52.0 (1472)	1941 (880)	30.6 (2.84)	42	41	24	20	19,091	79	55 (1.40)	80 (2.03)	65 (1.65)
V-RVL-D-120P-TH-N-100	10 (7.46)	2.0	2.0	120 (454)	64.2 (1817)	77.0 (2180)	64.2 (1817)	77.0 (2180)	2204 (100)	32.2 (2.99)	53	51	30	26	25,455	81	58 (1.47)	80 (2.03)	65 (1.65)

ADDITIONAL MODELS AVAILABLE UPON REQUEST

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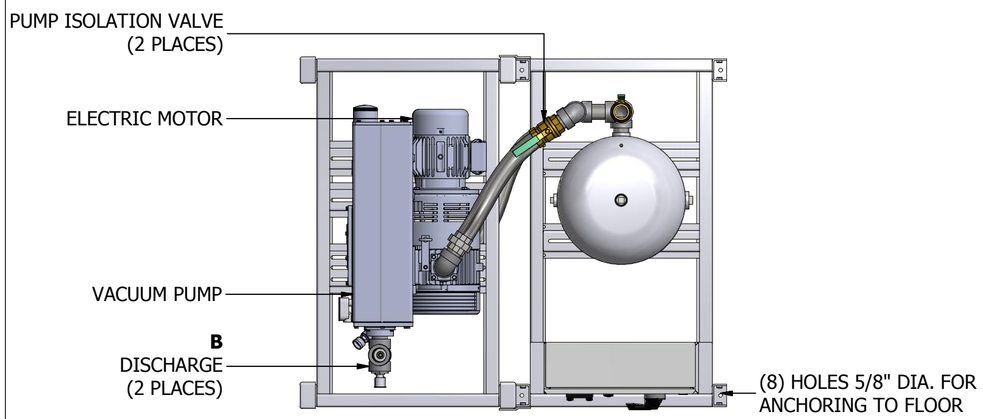
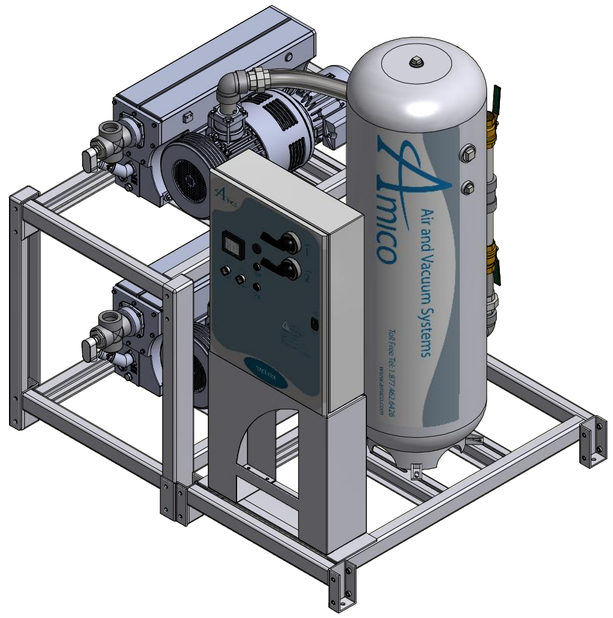
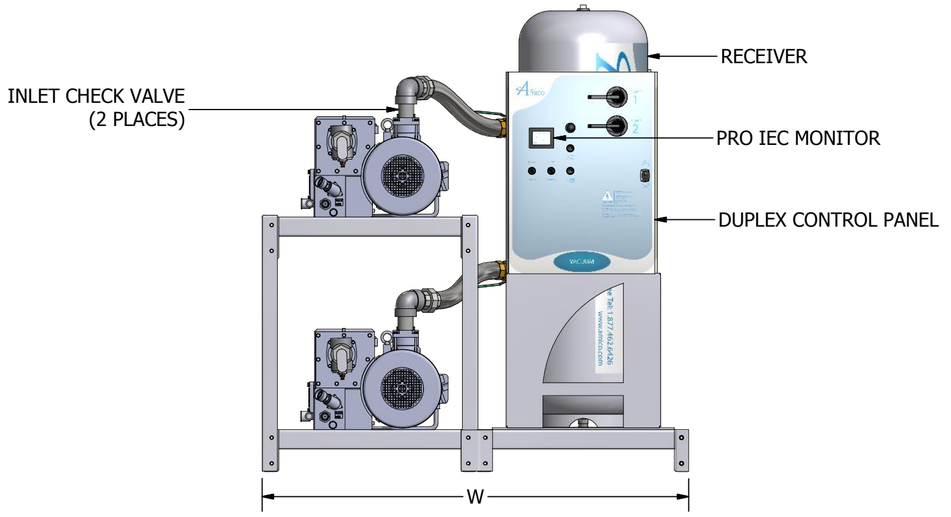
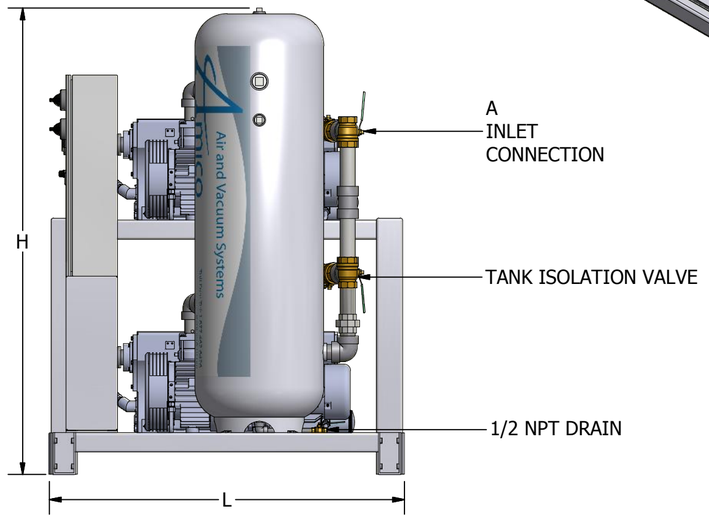
ROTARY VANE - LUBRICATED DUPLEX STACK MOUNTED VACUUM SYSTEM
(1.0 HP - 50.0 HP)









DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

MODEL	HP (kW)	A INLET NPT	B OUTLET NPT	TANK SIZE GALLON (LITRE)	PUMP SCFM @ 19" HG (LPM)		NFPA SYSTEM CAPACITIES WITH ONE COMPRESSOR ON STANDBY @ 19" HG (LPM)		WEIGHT IN LBS (KG)	SQ. FT. REQUIRED (M²)	SYSTEM FLA (WITH ALL COMPRESSORS RUNNING)				SYSTEM BTU/HR	SOUND LEVEL dB (A)	W (M)	L (M)	H (M)
					50 Hz Motor	60 Hz Motor	50 Hz Motor	60 Hz Motor			208V	230V	380V	460V					
V-RVL-D-200P-SS-N-010*	1 (0.75)	0.75	0.75	200 (757)	4.6 (130)	5.5 (156)	4.6 (130)	5.5 (156)	1349 (612)	25.7 (2.37)	7	7	4	4	2,545	72	66 (1.70)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-015*	1.5 (1.12)	1.25	1.25	200 (757)	5.8 (165)	7.0 (198)	5.8 (165)	7.0 (198)	1523 (691)	25.7 (2.38)	10	8	5	4	3,818	70	66 (1.68)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-020*	2 (1.49)	1.25	1.25	200 (757)	9.2 (260)	11.0 (311)	9.2 (260)	11.0 (311)	1551 (704)	25.7 (2.38)	12	11	6	5	5,091	70	66 (1.68)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-030*	3 (2.24)	1.25	1.25	200 (757)	14.2 (401)	17.0 (481)	14.2 (401)	17.0 (481)	1655 (751)	25.7 (2.38)	18	16	9	8	7,636	70	66 (1.68)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-050	5 (3.73)	2.0	2.0	200 (757)	30.8 (873)	37.0 (1048)	30.8 (873)	37.0 (1048)	2262 (1026)	26.1 (2.42)	29	26	15	13	12,727	79	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-075	7.5 (5.59)	2.0	2.0	200 (757)	43.3 (1227)	52.0 (1472)	43.3 (1227)	52.0 (1472)	2408 (1092)	26.1 (2.42)	42	41	24	20	19,091	79	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-100	10 (7.46)	2.0	2.0	200 (757)	64.2 (1817)	77.0 (2180)	64.2 (1817)	77.0 (2180)	2688 (1219)	26.1 (2.42)	53	51	30	26	25,455	81	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-D-200P-SS-N-150*	15 (11.2)	3.0	3.0	200 (757)	92.5 (2619)	111.0 (3143)	92.5 (2619)	111.0 (3143)	4039 (1832)	51.1 (4.75)	81	75	45	37	38,182	83	92 (2.34)	80 (2.03)	90 (2.29)
V-RVL-D-200P-SS-N-200*	20 (14.9)	3.0	3.0	200 (757)	114.2 (3233)	137.0 (3879)	114.2 (3233)	137.0 (3879)	4367 (1981)	51.1 (4.75)	108	104	56	52	50,909	84	92 (2.34)	80 (2.03)	90 (2.29)
V-RVL-D-200P-SS-N-250*	25 (18.6)	3.0	3.0	200 (757)	140.0 (3964)	168.0 (4757)	140.0 (3964)	168.0 (4757)	4785 (2170)	51.1 (4.75)	140	124	74	62	63,611	85	92 (2.34)	80 (2.03)	90 (2.29)
V-RVL-D-200P-SS-N-300*	30 (22.4)	4.0	3.0	200 (757)	165.0 (4668)	198.0 (5601)	165.0 (4668)	198.0 (5601)	5116 (2321)	80.0 (7.43)	-	148	90	80	76,333	81	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-D-200P-SS-N-400*	40 (29.8)	4.0	3.0	200 (757)	201.0 (5701)	242.0 (6841)	201.0 (5701)	242.0 (6841)	6642 (3013)	91.7 (8.53)	-	198	102	-	101,777	83	150 (3.81)	88 (2.24)	90 (2.29)
V-RVL-D-200P-SS-N-500*	50 (37.3)	4.0	3.0	200 (757)	246.0 (6968)	295.0 (8362)	246.0 (6968)	295.0 (8362)	6672 (3026)	91.7 (8.53)	-	244	128	122	127,222	84	150 (3.81)	88 (2.24)	90 (2.29)

*SYSTEM CONFIGURATION DIFFERS FROM MODEL SHOWN

ADDITIONAL MODELS AVAILABLE UPON REQUEST

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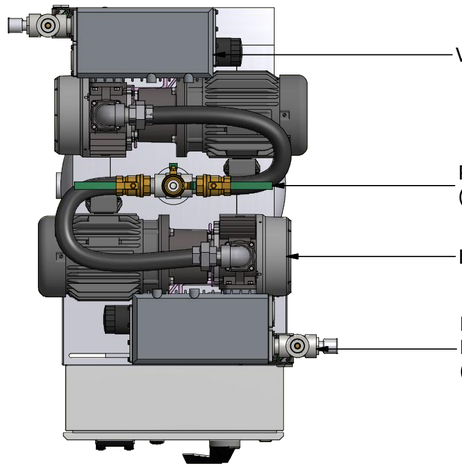
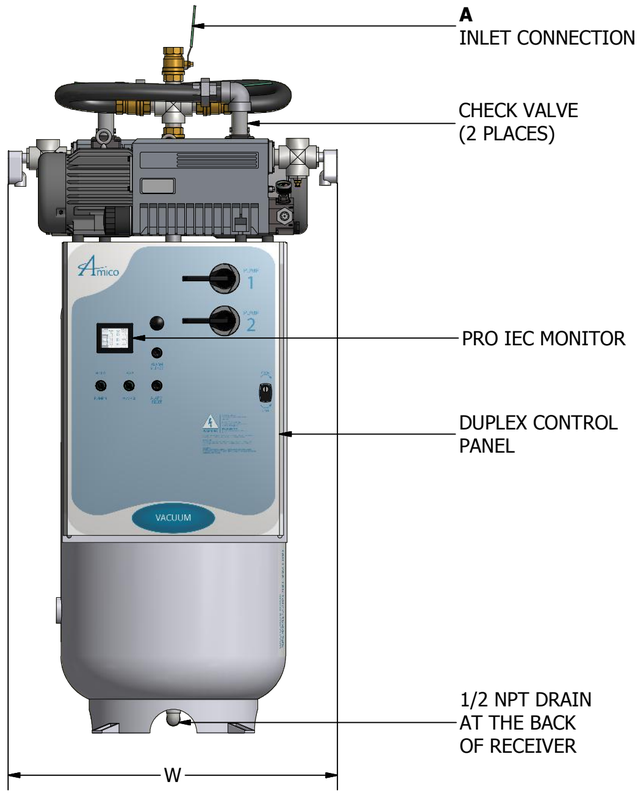
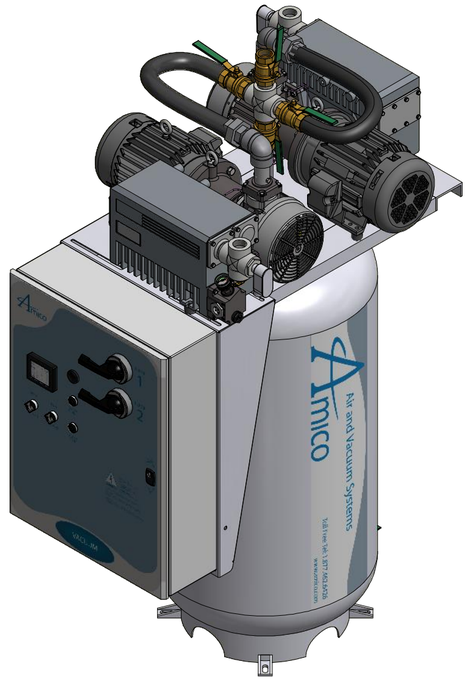
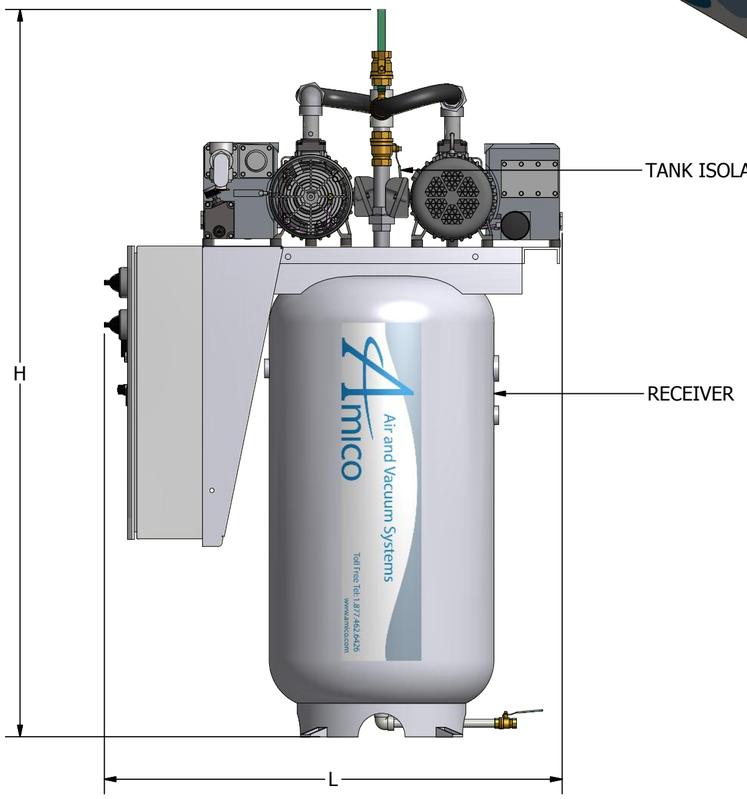
ROTARY VANE - LUBRICATED DUPLEX "SPACE SAVER" VACUUM SYSTEM
(1.0 HP - 10.0 HP)









DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

MODEL	HP (kW)	A INLET NPT	B OUTLET NPT	TANK SIZE GALLON (LITRE)	PUMP SCFM @ 19" HG (LPM)		NFPA SYSTEM CAPACITIES WITH ONE COMPRESSOR ON STANDBY @ 19" HG (LPM)		WEIGHT IN LBS (KG)	SQ. FT. REQUIRED (M²)	SYSTEM FLA (WITH ALL COMPRESSORS RUNNING)				SYSTEM BTU/HR	SOUND LEVEL dB (A)	W (M)	L (M)	H (M)
					50 Hz Motor	60 Hz Motor	50 Hz Motor	60 Hz Motor			208V	230V	380V	460V					
V-RVL-D-080P-TS-N-010	1 (0.75)	0.75	0.75	80 (303)	4.6 (130)	5.5 (156)	4.6 (130)	5.5 (156)	833 (378)	8.8 (0.81)	7	7	4	4	2,545	72	28 (0.71)	45 (1.14)	75 (1.91)
V-RVL-D-080P-TS-N-015	1.5 (1.12)	1.25	1.25	80 (303)	5.8 (165)	7.0 (198)	5.8 (165)	7.0 (198)	1058 (480)	11.4 (1.06)	10	8	5	4	3,818	70	35 (0.89)	47 (1.19)	82 (2.08)
V-RVL-D-080P-TS-N-020	2 (1.49)	1.25	1.25	80 (303)	9.2 (260)	11.0 (311)	9.2 (260)	11.0 (311)	1035 (469)	11.4 (1.06)	12	11	6	5	5,091	70	35 (0.89)	47 (1.19)	82 (2.08)
V-RVL-D-080P-TS-N-030	3 (2.24)	1.25	1.25	80 (303)	14.2 (401)	17.0 (481)	14.2 (401)	17.0 (481)	1207 (547)	13.9 (1.29)	18	16	9	8	7,636	70	40 (1.02)	50 (1.27)	82 (2.08)
V-RVL-D-120P-TS-N-050	5 (3.73)	2.0	2.0	120 (454)	30.8 (873)	37.0 (1048)	30.8 (873)	37.0 (1048)	1828 (829)	15.3 (1.42)	29	26	15	13	12,727	79	40 (1.02)	55 (1.40)	85 (2.16)
V-RVL-D-120P-TS-N-075	7.5 (5.59)	2.0	2.0	120 (454)	43.3 (1227)	52.0 (1472)	43.3 (1227)	52.0 (1472)	1974 (895)	24.6 (2.28)	42	41	24	20	19,091	79	58 (1.47)	61 (1.55)	85 (2.16)
V-RVL-D-120P-TS-N-100	10 (7.46)	2.0	2.0	120 (454)	64.2 (1817)	77.0 (2180)	64.2 (1817)	77.0 (2180)	2237 (1015)	27.5 (2.55)	53	51	30	26	25,455	81	60 (1.52)	66 (1.68)	85 (2.16)

ADDITIONAL MODELS AVAILABLE UPON REQUEST

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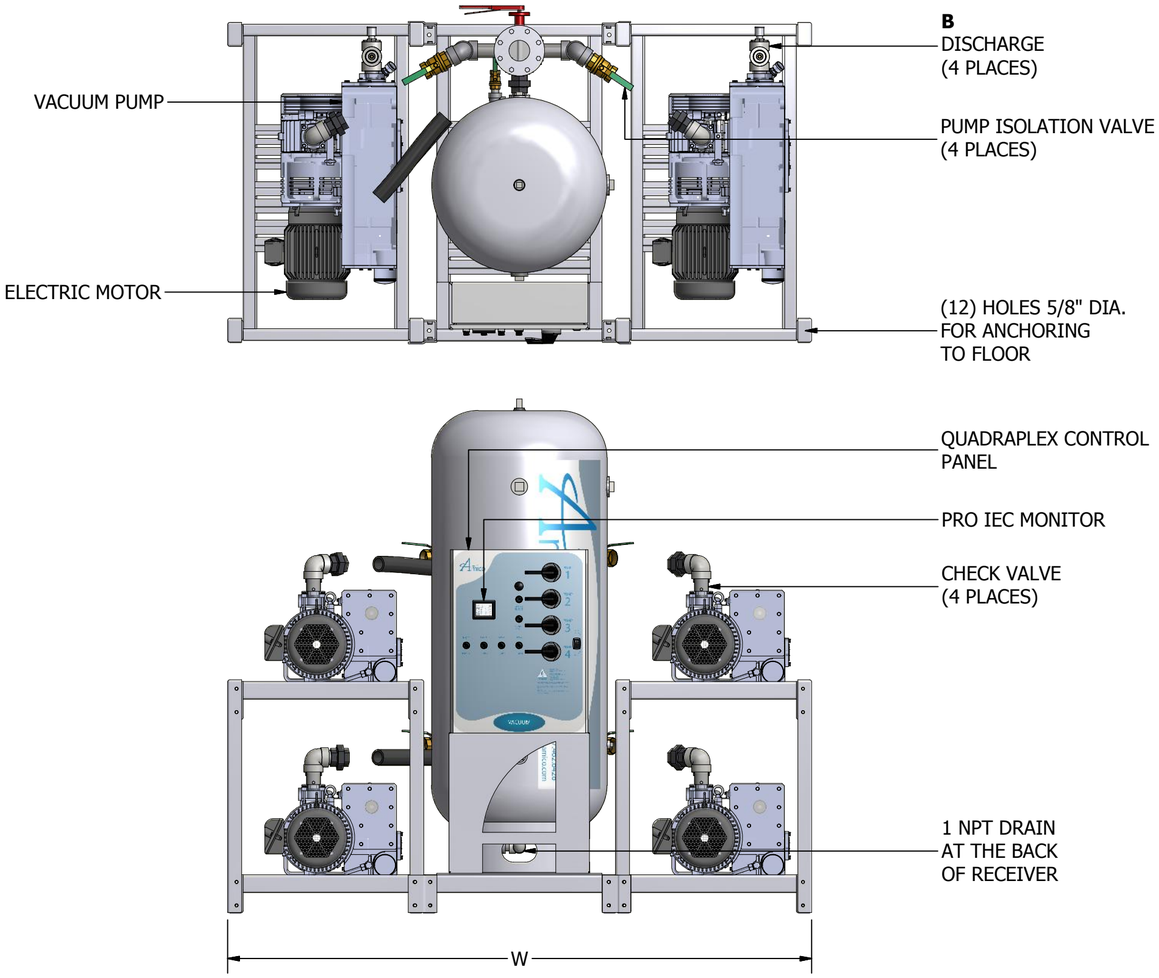
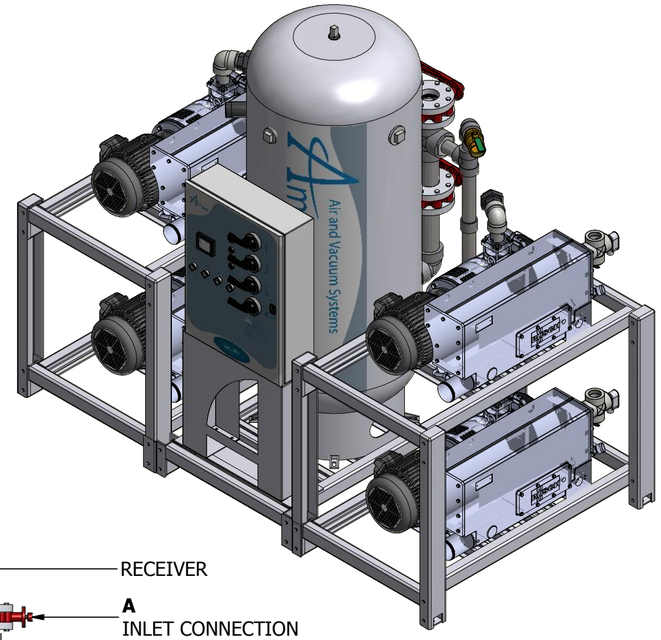
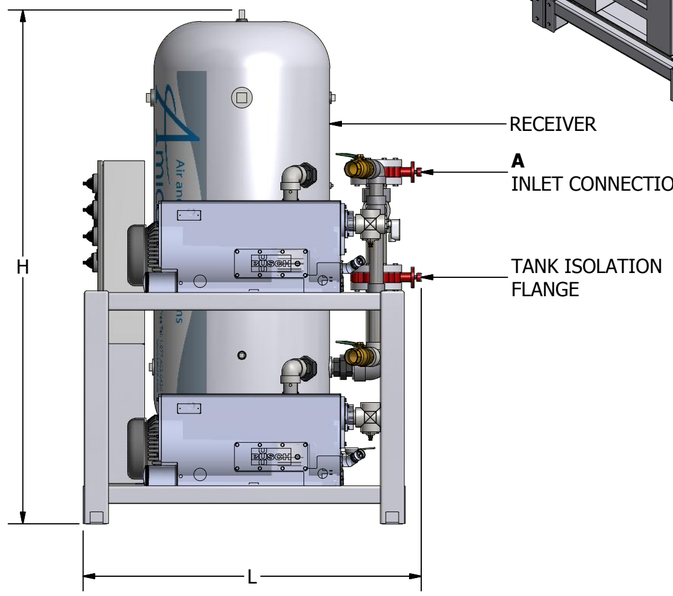
ROTARY VANE - LUBRICATED QUADRAPLEX STACK MOUNTED VACUUM SYSTEM
(1.0 HP - 50.0 HP)







DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

MODEL	HP (kW)	A INLET NPT	B OUTLET NPT	TANK SIZE GALLON (LITRE)	PUMP SCFM @ 19" HG (LPM)		NFPA SYSTEM CAPACITIES WITH ONE COMPRESSOR ON STANDBY @ 19" HG (LPM)		WEIGHT IN LBS (KG)	SQ. FT. REQUIRED (M²)	SYSTEM FLA (WITH ALL COMPRESSORS RUNNING)				SYSTEM BTU/HR	SOUND LEVEL dB (A)	W (M)	L (M)	H (M)
					50 Hz Motor	60 Hz Motor	50 Hz Motor	60 Hz Motor			208V	230V	380V	460V					
V-RVL-Q-200P-SS-N-010*	1 (0.75)	1.25	0.75	200 (757)	4.6 (130)	5.5 (156)	13.8 (389)	16.5 (467)	1833 (831)	26.1 (2.42)	14	14	8	8	7,635	77	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-Q-200P-SS-N-015*	1.5 (1.12)	2.0	1.25	200 (757)	5.8 (165)	7.0 (198)	17.5 (496)	21.0 (595)	2131 (967)	26.1 (2.42)	20	17	10	8	11,454	75	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-Q-200P-SS-N-020*	2 (1.49)	2.0	1.25	200 (757)	9.2 (260)	11.0 (311)	27.5 (779)	33.0 (934)	2187 (992)	26.1 (2.42)	25	22	12	11	15,273	75	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-Q-200P-SS-N-030*	3 (2.24)	2.0	1.25	200 (757)	14.2 (401)	17.0 (481)	42.5 (1203)	51.0 (1444)	2395 (1086)	26.1 (2.42)	36	31	18	16	22,908	75	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-Q-200P-SS-N-050	5 (3.73)	4.0	2.0	200 (757)	30.8 (873)	37.0 (1048)	92.5 (2619)	111.0 (3143)	3517 (1595)	51.9 (4.82)	58	52	29	26	38,181	84	115 (2.92)	65 (1.65)	91 (2.31)
V-RVL-Q-200P-SS-N-075	7.5 (5.59)	4.0	2.0	200 (757)	43.3 (1227)	52.0 (1472)	130.0 (3681)	156.0 (4417)	3809 (1728)	51.9 (4.82)	84	82	48	41	57,273	84	115 (2.92)	65 (1.65)	91 (2.31)
V-RVL-Q-200P-SS-N-100	10 (7.46)	4.0	2.0	200 (757)	64.2 (1817)	77.0 (2180)	192.5 (5451)	231.0 (6541)	4369 (1982)	51.9 (4.82)	106	102	60	51	76,365	86	115 (2.92)	65 (1.65)	91 (2.31)
V-RVL-Q-200P-SS-N-150*	15 (11.2)	5.0	3.0	200 (757)	92.5 (2619)	111.0 (3143)	277.5 (7858)	333.0 (9429)	6988 (3170)	80.0 (7.43)	162	150	89	75	114,546	88	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-Q-200P-SS-N-200*	20 (14.9)	5.0	3.0	200 (757)	114.2 (3233)	137.0 (3879)	342.5 (9699)	411.0 (11638)	7644 (3467)	80.0 (7.43)	216	208	112	104	152,727	89	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-Q-200P-SS-N-250*	25 (18.6)	5.0	3.0	200 (757)	140.0 (3964)	168.0 (4757)	420.0 (11893)	504.0 (14272)	8480 (3847)	80.0 (7.43)	280	248	148	124	190,833	90	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-Q-200P-SS-N-300*	30 (22.4)	6.0	3.0	200 (757)	165.0 (4668)	198.0 (5601)	495.0 (14003)	593.0 (16803)	9087 (4122)	137.8 (12.80)	-	296	180	160	228,999	86	248 (6.30)	80 (2.03)	90 (2.29)
V-RVL-Q-200P-SS-N-400*	40 (29.8)	6.0	3.0	200 (757)	201.0 (5701)	242.0 (6841)	604.0 (17103)	725.0 (20524)	12134 (5504)	151.6 (14.11)	-	396	204	-	305,331	88	248 (6.30)	88 (2.24)	90 (2.29)
V-RVL-Q-200P-SS-N-500*	50 (37.3)	6.0	3.0	200 (757)	246.0 (6968)	295.0 (8362)	738.0 (20905)	886.0 (25086)	12194 (5531)	151.6 (14.11)	-	488	256	244	381,666	89	248 (6.30)	88 (2.24)	90 (2.29)

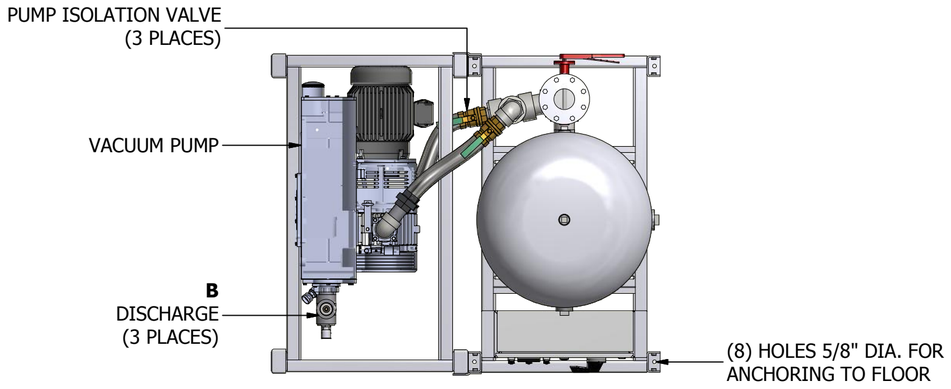
*SYSTEM CONFIGURATION DIFFERS FROM MODEL SHOWN

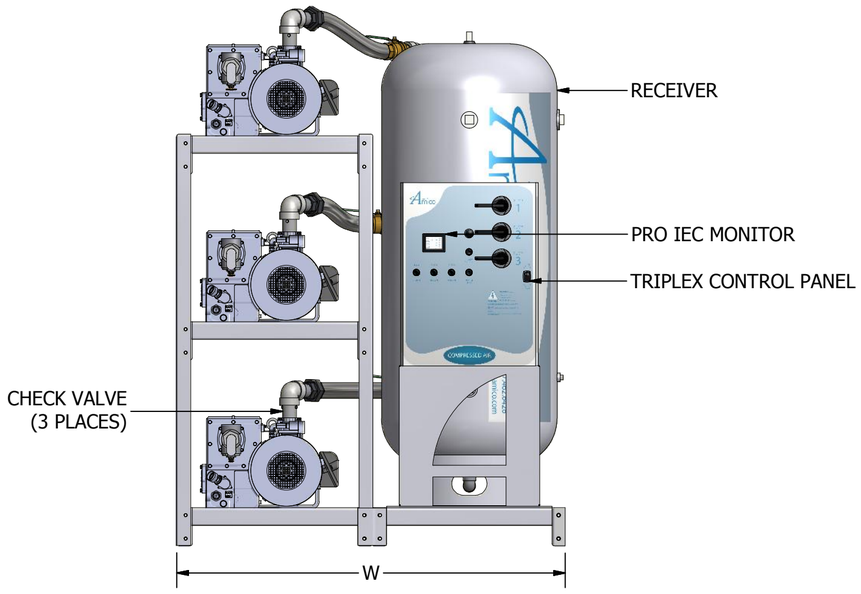
ADDITIONAL MODELS AVAILABLE UPON REQUEST

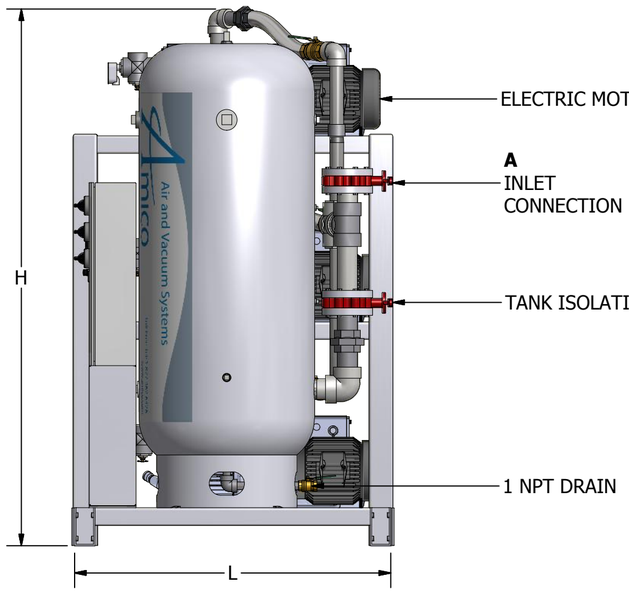
Amico
www.amico.com

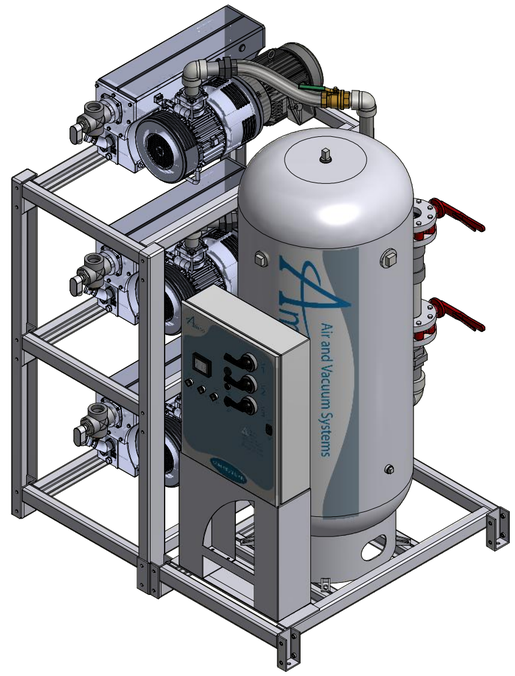
85 Fulton Way, Richmond Hill
Ontario, L4B 2N4 Canada
71 East Industry Court
Deer Park, NY 11729
Direct Tel: 905.764.0800
Tel: 1.877.462.6426
Fax: 1.866.440.4986

ROTARY VANE - LUBRICATED TRIPLEX STACK MOUNTED VACUUM SYSTEM
(1.0 HP - 50.0 HP)









DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

MODEL	HP (kW)	A INLET NPT	B OUTLET NPT	TANK SIZE GALLON (LITRE)	PUMP SCFM @ 19" HG (LPM)		NFPA SYSTEM CAPACITIES WITH ONE COMPRESSOR ON STANDBY @ 19" HG (LPM)		WEIGHT IN LBS (KG)	SQ. FT. REQUIRED (M²)	SYSTEM FLA (WITH ALL COMPRESSORS RUNNING)				SYSTEM BTU/HR	SOUND LEVEL dB (A)	W (M)	L (M)	H (M)
					50 Hz Motor	60 Hz Motor	50 Hz Motor	60 Hz Motor			208V	230V	380V	460V					
V-RVL-T-200P-SS-N-010*	1 (0.75)	1.0	0.75	200 (757)	4.6 (130)	5.5 (156)	9.2 (260)	11.0 (311)	1692 (767)	26.1 (2.42)	11	10	6	6	5,090	75	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-T-200P-SS-N-015*	1.5 (1.12)	1.5	1.25	200 (757)	5.8 (165)	7.0 (198)	11.7 (330)	14.0 (396)	1928 (875)	26.1 (2.42)	15	13	8	6	7,636	73	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-T-200P-SS-N-020*	2 (1.49)	1.5	1.25	200 (757)	9.2 (260)	11.0 (311)	18.3 (519)	22.0 (623)	1970 (894)	26.1 (2.42)	19	16	9	8	10,182	73	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-T-200P-SS-N-030*	3 (2.24)	1.5	1.25	200 (757)	14.2 (401)	17.0 (481)	28.3 (802)	34.0 (963)	2126 (964)	26.1 (2.42)	27	23	14	12	15,272	73	67 (1.70)	56 (1.42)	91 (2.31)
V-RVL-T-200P-SS-N-050	5 (3.73)	3.0	2.0	200 (757)	30.8 (873)	37.0 (1048)	61.7 (1746)	74.0 (2095)	2951 (1339)	26.1 (2.42)	44	39	22	20	25,454	81	67 (1.70)	56 (1.42)	97 (2.46)
V-RVL-T-200P-SS-N-075	7.5 (5.59)	3.0	2.0	200 (757)	43.3 (1227)	52.0 (1472)	86.7 (2454)	104.0 (2945)	3170 (1438)	26.1 (2.42)	63	61	36	31	38,182	84	67 (1.70)	56 (1.42)	97 (2.46)
V-RVL-T-200P-SS-N-100	10 (7.46)	3.0	2.0	200 (757)	64.2 (1817)	77.0 (2180)	128.3 (3634)	154.0 (4361)	3590 (1628)	26.1 (2.42)	79	77	45	38	50,910	84	67 (1.70)	56 (1.42)	97 (2.46)
V-RVL-T-200P-SS-N-150*	15 (11.2)	4.0	3.0	200 (757)	92.5 (2619)	111.0 (3143)	185.0 (5239)	222.0 (6286)	5491 (2491)	80.0 (7.43)	121	112	67	56	76,364	86	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-T-200P-SS-N-200*	20 (14.9)	4.0	3.0	200 (757)	114.2 (3233)	137.0 (3879)	228.3 (6466)	274.0 (7759)	5983 (2714)	80.0 (7.43)	162	156	84	78	101,818	87	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-T-200P-SS-N-250*	25 (18.6)	4.0	3.0	200 (757)	140.0 (3964)	168.0 (4757)	280.0 (7929)	336.0 (9514)	6610 (2998)	80.0 (7.43)	210	186	111	93	127,222	88	144 (3.66)	80 (2.03)	90 (2.29)
V-RVL-T-200P-SS-N-300*	30 (22.4)	5.0	3.0	200 (757)	165.0 (4668)	198.0 (5601)	330.0 (9335)	396.0 (11202)	7144 (3240)	108.9 (10.12)	-	222	135	120	152,666	84	196 (4.98)	80 (2.03)	90 (2.29)
V-RVL-T-200P-SS-N-400*	40 (29.8)	5.0	3.0	200 (757)	201.0 (5701)	242.0 (6841)	403.0 (11402)	484.0 (13705)	9428 (4277)	119.8 (11.13)	-	297	153	-	203,554	86	196 (4.98)	88 (2.24)	90 (2.29)
V-RVL-T-200P-SS-N-500*	50 (37.3)	5.0	3.0	200 (757)	246.0 (6968)	295.0 (8362)	492.0 (13937)	591.0 (16724)	9473 (4297)	119.8 (11.13)	-	366	192	183	254,444	87	196 (4.98)	88 (2.24)	90 (2.29)

*SYSTEM CONFIGURATION DIFFERS FROM MODEL SHOWN

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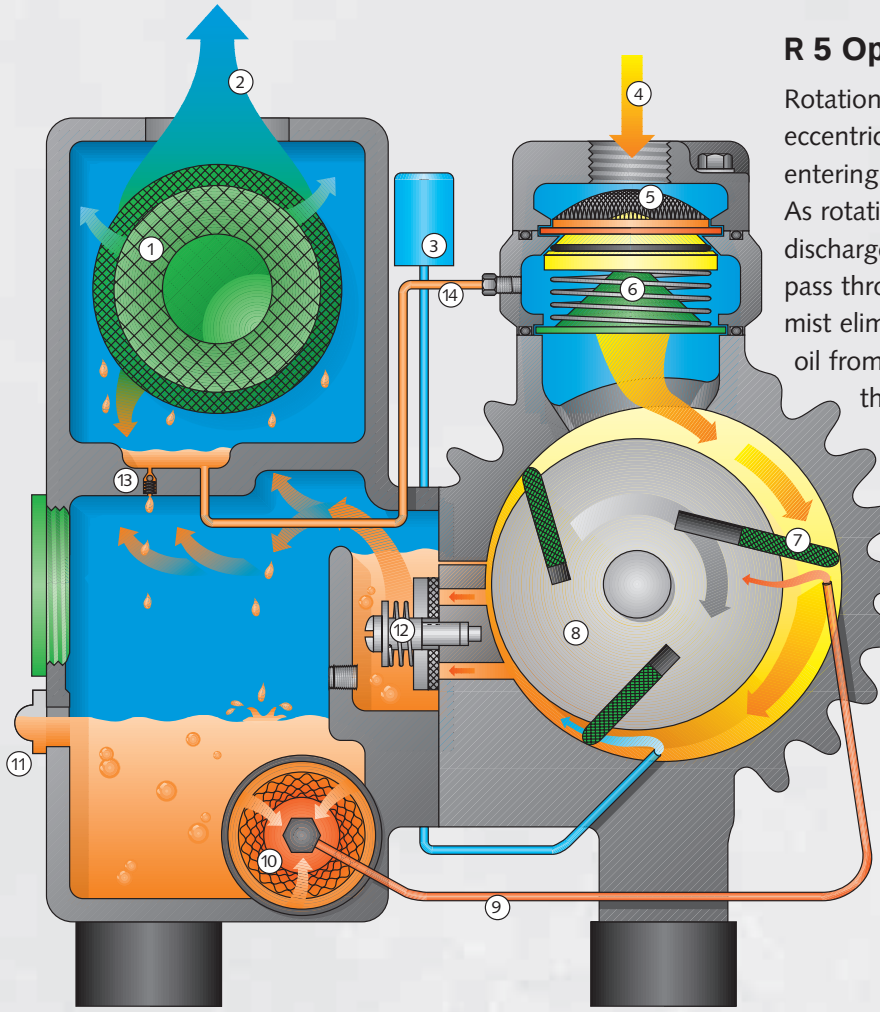


R 5 Operating Principle

Rotation of the pump rotor, which is mounted eccentrically in the pump cylinder, traps entering vapor between rotor vane segments. As rotation continues, vapor is compressed and discharged into the exhaust box. Vapors then pass through several stages of internal oil and mist eliminators to remove 99.9% of lubricating oil from the exhaust. Oil is then returned to the oil reservoir. Additional features include an automotive type spin-on oil filter, and a built-in inlet anti-suckback valve that prevents the pump from rotating backwards. A built-in gas ballast is available on most models, which permits pumping with high water vapor loads.

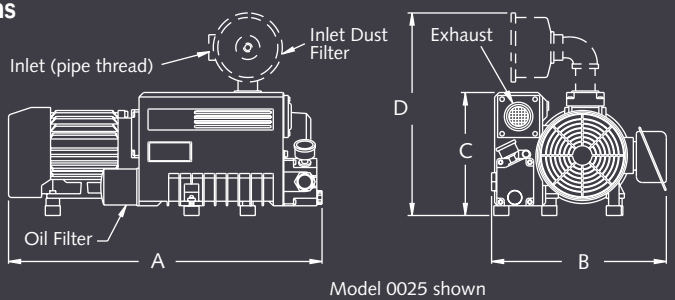
1. Oil Mist Eliminator
2. Exhaust
3. Gas Ballast (RA)
4. Inlet
5. Inlet Screen
6. Anti-Suckback Valve
7. Vane
8. Rotor
9. Main Oil Feed Line
10. Spin-On Oil Filter
11. Oil Sight Glass
12. Exhaust Valve
13. Oil Return Valve
14. Oil Return Line

Technical Data

R 5 Model	0004	0006	0010	0012	0016	0021	0025	0040	0063	0100	0165	0205	0255	0400	0630	1000	1600
Nominal pumping speed (ACFM)	3.3	3.9	6	7	8.6	14	18	26	36	56	115	130	170	305	455	670	1030
Free air displacement (CFM)	3	4.2	7.1	8.5	11.2	15	20	28	41	63	117	141	180	330	490	704	1130
Max. sound level (dBA)	58	62	69	68	70	72	70	70	70	71	79	79	81	83	85	85	86
Motor size for 3 phase (HP)	NA	1/2	3/4	3/4	3/4	1	1 1/2	2	3	5	7.5	7.5	10	15	25	40	50
Motor size for 1 phase (HP)	3/8	1/2	1	3/4	1	1 1/4	1 1/2	2	3	5	NA	NA	NA	NA	NA	NA	NA
Motor rotational speed (rpm)	1750	3550	1750	1750	1750	3550	1750	1750	1750	1750	1750	1750	1750	1150	1150	1150	1150
Approx. oil capacity, (qt.)*	0.1	0.1	0.5	0.5	0.5	0.5	1.4	1.4	2.5	2.7	7	7	7	14	16	42	44
Inlet connections — NPT (inch)	3/8	3/8	3/4	1" Hose	3/4	1" Hose	1 1/4	1 1/4	1 1/4	1 1/4	2	2	2	3	3	6 (ASA)	6 (ASA)
End Vacuum Torr (RC)	NA	NA	15	15	15	15	15	15	15	15	NA	NA	NA	15	15	15	15
End Vacuum Torr (RA)[1]	5**	2**	0.5	2**	0.5	2**	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Approximate Weight (lbs.)	27	28	49	42	60	42	106	120	172	198	416	435	460	1152	1525	2151	2833

*We recommend Busch R-530 vacuum pump oil for most applications; Busch R-580 vacuum pump oil for models 0004, 0006 and 0021; and Busch R-590 for severe applications.
** RB version for Models 0004, 0006, 0012, and 0021. 1. Models 0165-0630 are continuous duty. Consult factory for special applications.

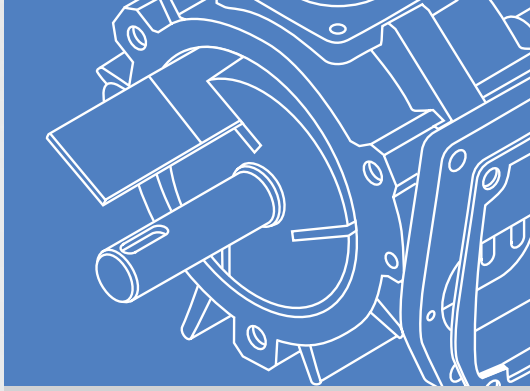
R 5 Dimensions



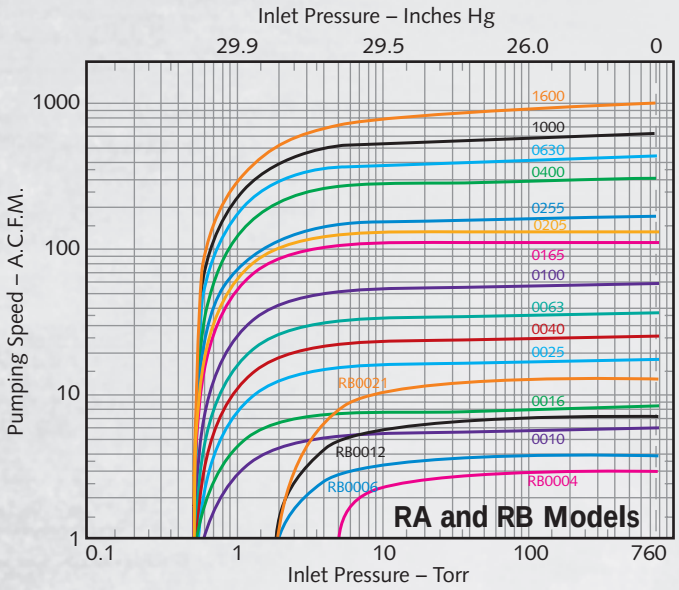
Model 0025 shown

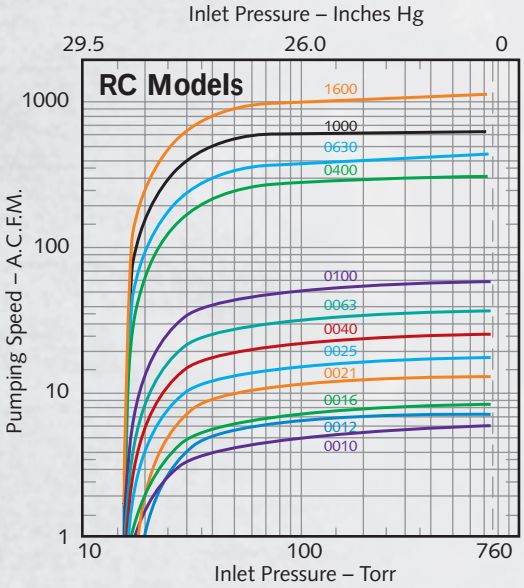
Model	0004	0006	0010	0012	0016	0021
A length	12 1/8	12	17 11/16	16 5/8	19 1/2	17 1/4
B width	7 1/8	7 1/2	10 3/4	11	8 1/2	11 7/16
C height	7	6 1/8	7 7/8	6 3/4	8	7 3/16
D height*	NA	NA	11 7/8	10 5/8	11 7/8	10 5/8

*With filter; All dimensions in inches. Dimensions m



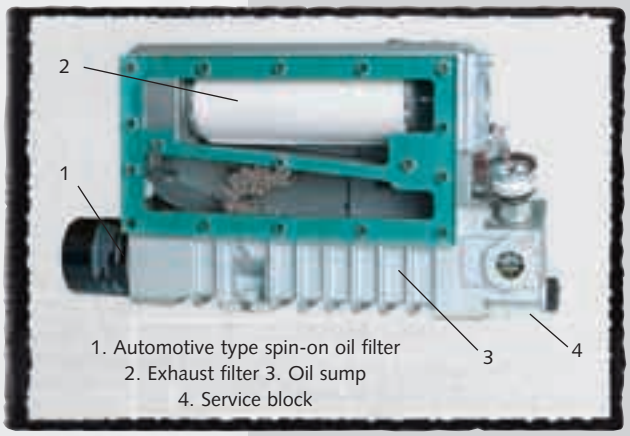
Performance Data (Based on 60 cycle motor, with gas ballast closed)





Standard Equipment

- TEFC motor
- Motor starter (optional)
- NPT inlet on most models
- Exhaust pressure gauge
- Anti-suckback valve
- Built-in exhaust filter
- Wire mesh inlet screen
- Non-metallic, non-asbestos vanes
- Vibration isolators
- Automotive type spin-on oil filter on most models
- Oil level sight glass



1. Automotive type spin-on oil filter
2. Exhaust filter 3. Oil sump
4. Service block

0025	0040	0063	0100	0165	0205	0255	0400	0630	1000	1600
$26^{1}/_{8}$	$26^{13}/_{16}$	28	$29^{1}/_{2}$	$40^{1}/_{2}$	$40^{1}/_{2}$	$43^{5}/_{8}$	$54^{3}/_{8}$	70	75	$87^{3}/_{4}$
$14^{9}/_{16}$	$14^{9}/_{16}$	$19^{5}/_{16}$	$19^{5}/_{16}$	$23^{9}/_{16}$	$23^{9}/_{16}$	$23^{9}/_{16}$	$36^{3}/_{8}$	$37^{3}/_{4}$	$45^{5}/_{8}$	$45^{5}/_{8}$
$10^{3}/_{8}$	$10^{3}/_{8}$	$11^{7}/_{8}$	$11^{7}/_{8}$	$16^{1}/_{2}$	$16^{1}/_{2}$	$16^{1}/_{2}$	$26^{1}/_{2}$	$26^{1}/_{2}$	$36^{3}/_{4}$	$36^{3}/_{4}$
$17^{1}/_{8}$	$17^{1}/_{8}$	$18^{1}/_{4}$	$18^{3}/_{4}$	$25^{3}/_{8}$	$25^{3}/_{8}$	$25^{3}/_{8}$	42	42	57	57

ay vary depending on motor specs.

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Vacuum Pumps and Systems

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Boisrbiand, Québec J7H 1N7
Phone (450) 435-6899
FAX (450) 430-5132

www.busch.ca

1-800-363-6360

R 5 Maintenance Items

Exhaust Filters – Designed for proper oil and air separation with minimal back pressure. End caps resist corrosion. Filter materials are manufactured for long service life.

Inlet Filters – Filter incoming air and protects pump against particulates.

Oil Filters – Filter out impurities in the oil. Designed for low pressure filtration for proper oil flow.

Pump Oil – Pump oils are odorless, detergent free, and derived from highly refined paraffinic crudes with excellent lubrication properties for longer pump life.

Overhaul Kits – Genuine Busch parts consisting of vanes, O-rings, gaskets, bearings and shaft seals designed specifically for R 5 pumps.

Maintenance Kits – include 12 month supply of exhaust filters, inlet filter, pump oil, and oil drain plugs. Synthetic baffles are included with pump models 0165 to 1600.

Standard Warranty – 12 months from date of installation or 18 months from date of shipment, whichever occurs first.

Maintenance kit for 0025 pump shown.

Busch Factory Service Centers maintain an extensive inventory of maintenance items.