

ST20L—ST301L/ST20P—ST301P

SIMPLEX OIL LUBRICATED INDUSTRIAL VACUUM SYSTEM

MAKE IT BECKER.



figure ST100C system

MODEL	HP	END VACUUM ("Hg)	OPEN FLOW (SCFM)	FLOW @ 19"Hg (SCFM)	BTU/HR (19"Hg)	BTU/HR (MAX VAC)	FLA (Per Pump)			SOUND ¹ dB(A)
							208	230	460	
ST16L/P	0.89	29.8	11.2	3.6	2,300	1,600	3.0	3.0	1.5	64
ST25L/P	1.2	29.8	17.6	5.2	2,600	1,700	3.8	3.6	1.8	63
ST40L/P	2.4	29.9	28.3	9.0	5,600	4,400	6.62	6.48	3.24	71
ST71L/P	2.4	29.9	45.6	15.1	6,800	4,100	7.1	7.0	3.5	67
ST101L/P	3.5	29.9	67.5	22.0	10,500	5,100	9.7	9.3	4.6	68
ST166L/P	6	29.9	107.7	36.9	16,500	8,200	18.7	18.4	9.2	72
ST201L/P	8.9	29.9	127.7	44.2	21,000	11,600	23.3	21.1	11.1	74
ST301L/P	12	29.9	181.3	64.1	28,900	14,100	33.8	33.6	16.8	76

(1) Per Pump dB(A) – According to DIN EN ISO 3744 (KpA = 3db(A)), 39.4 inch distance, at medium load, both connection sides piped

(2) All values listed are at 60Hz

(3) Reference data (atmosphere) 0"HgV,68°F; Tolerance:±5%



THE BECKER ADVANTAGE SYSTEM

FEATURES OF THE SIMPLEX LUBRICATED ROTARY VANE

Industrial Vacuum System

BECKER ADVANTAGE L & P SIMPLEX TANK MOUNT VACUUM SYSTEM

Pneumatic vacuum system designed for industrial use. Features one Becker brand vacuum pump, with integrated filtration and safety relief valve. Pump and control panel are mounted to the air receiver for convenient installation. All systems are tested for leaks and functionality before shipping.

The Advantage L & P simplex systems include:

- One Becker lubricated rotary vane vacuum pump
- ASME coded vacuum receiver with drain and bypass manifold
- Single point service for electrical and vacuum connections
- Integrated electrical panel with simplex pump controls
- Optional external filtration canister

VACUUM PUMPS

All pumps used on our systems are Becker Manufactured and individually tested at factory before shipping. Becker oil lubricated rotary vane vacuum pumps feature:

- End vacuum of 29"Hg
- Integrated 2-micron paper inlet filter
- Gas ballast and anti-return valve
- Full Synthetic Vacuum Pump oil
 - * ISO-100
- Oil sight glass for visual inspection
- Liquid filled vacuum gauges installed at the pump
- Simple maintenance procedures
- ST20-ST40—Direct drive integrated motor
- ST71-ST301—Single shaft direct drive through coupling
- IE3/NEMA PREMIUM efficiency motors
- TEFC Motors
- 208V/230V/460V/575V – 3-phase motor options

PLUMBING & RECEIVER

All vacuum pumps are plumbed to a manifold and connected to the air receiver. A check valve is installed at the pump inlet to prevent backflow in the system. Ball valves are installed for pump and receiver isolation. One point connection for vacuum plumbing is standard for all Becker systems. Optional manifold and one point connection for exhaust plumbing is available.

All air receivers are ASME stamped to code and may have a mounted bypass and drain to allow for manual liquid removal.

CONTROL PANEL

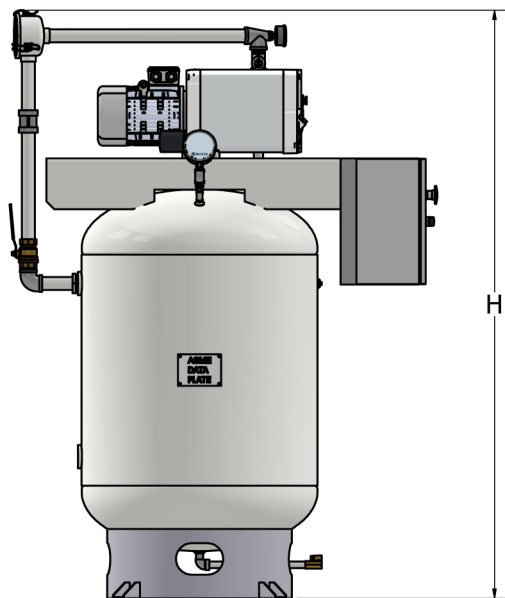
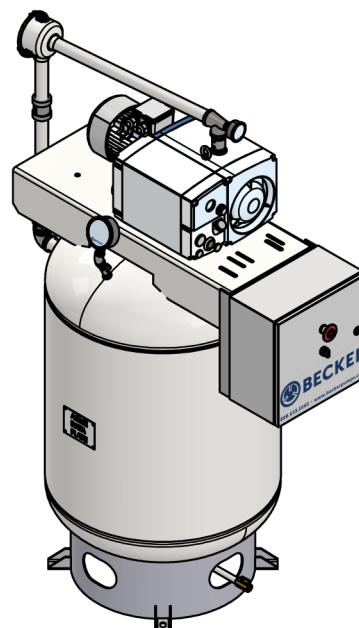
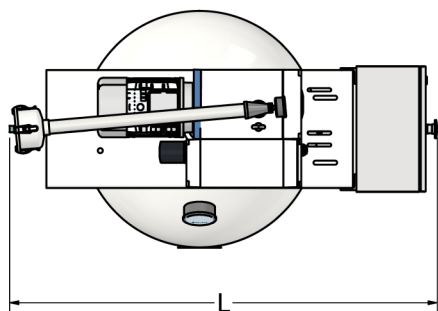
NEMA type 3R, 4 & 12 enclosure with UL listing; mounted and prewired for simplex controls. Becker simplex controls feature automatic start/stop of vacuum pump based on vacuum demand. Additional elements included are:

- Motor starters with overload protection
- 115V low voltage control transformer with fused primary and secondary
- One Hand-Off-Auto switch
- System Run Lamp
- Adjustable minimum run timer
- Preinstalled vacuum transducer
- Zelio2 Smart Relay

DIMENSIONS—VERTICAL SYSTEM

MODEL	LENGTH (Inches)	WIDTH (Inches)	HEIGHT (Inches)	RECEIVER CAPACITY (Gallons)	INLET (NPT)	EXHAUST (NPT)	WEIGHT (Pounds)
ST16L/P	45	22	70	60	2	0.75	380
ST25L/P	45	22	70	60	2	0.75	380
ST40L/P	45	22	71	60	2	0.75	410
ST71L/P	55	30	75	120	2	1.25	920
ST101L/P	56	30	76	120	2	1.25	950

Dimensions subject to change.
Minimum clearance around system is 24 inches.
Contact factory for dimensional drawings.



DIMENSIONS—HORIZONTAL SYSTEM

MODEL	LENGTH (Inches)	WIDTH (Inches)	HEIGHT (Inches)	RECEIVER CAPACITY (Gallons)	INLET (NPT)	EXHAUST (NPT)	WEIGHT (Pounds)
ST16L/P	50	28	42	60	2	0.75	380
ST25L/P	50	28	42	60	2	0.75	380
ST40L/P	50	28	45	60	2	0.75	410
ST71L/P	70	32	49	120	2	1.25	920
ST101L/P	70	32	49	120	2	1.25	950
ST166L/P	70	32	53	120	2	2	1,075
ST201L/P	70	32	53	120	2	2	1,125
ST301L/P	86	35	60	240	2	2	1,450

Dimensions subject to change.
Minimum clearance around system is 24 inches.
Contact factory for dimensional drawings.

