

ST25D—ST250D/ST25X—ST250X

# SIMPLEX DRY ROTARY VANE 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 <sup>1</sup> dB(A)
							208	230	460	
ST25D/X	1.2	25.5	18	4.2	3,700	2,700	3.7	3.6	1.8	67
ST40D/X	2	25.5	28	6.8	5,200	4,900	6.5	5.8	2.9	72
ST60D/X	3.5	27	39	11.2	6,700	6,100	10.6	10.1	5.1	73
ST80D/X	3.5	27	46	12.9	8,300	8,000	9.7	9.3	4.6	75
ST100D/X	4.8	27	66	18.7	11,400	11,700	13.2	12.4	6.2	77
ST140D/X	6	24	91	25.4	17,400	16,000	18.7	18.4	9.2	79
ST250D/X	8.9	24	169	50.9	23,100	22,900	28.1	27.8	13.9	79
	12	27					35.4	33.4	16.7	

(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 DRY ROTARY VANE

### Industrial Vacuum System

#### BECKER ADVANTAGE D & X 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 D & X simplex systems include:

- One Becker dry rotary vane vacuum pump
- AMSE 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-free rotary vane vacuum pumps use vanes made of a carbon/resin composite material unique to Becker. Our Advantage X systems feature our long lasting vane design for an extended vane life of 20,000 hours. Additional specifications are:

- End vacuum of 25"Hg-27"Hg (Model Dependent)
- Integrated 2-micron paper inlet filter
- Carbon dust separator and vacuum safety relief valves
- Liquid filled vacuum gauges installed at the pump
- Quick and simple maintenance procedures
- ST25-ST40 – Direct drive integrated motor
- ST60-ST250 – 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

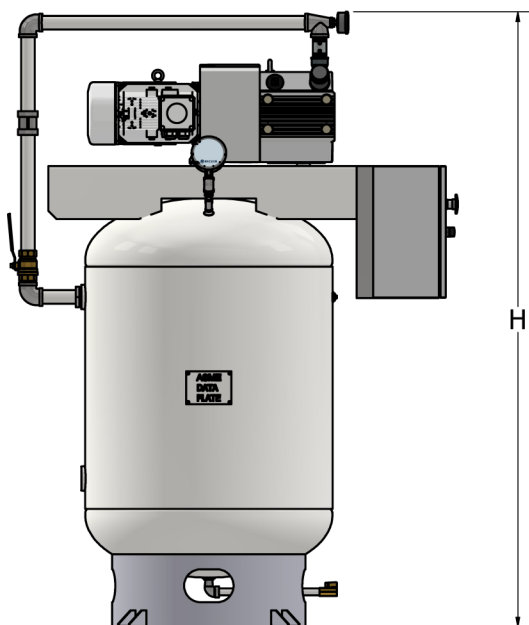
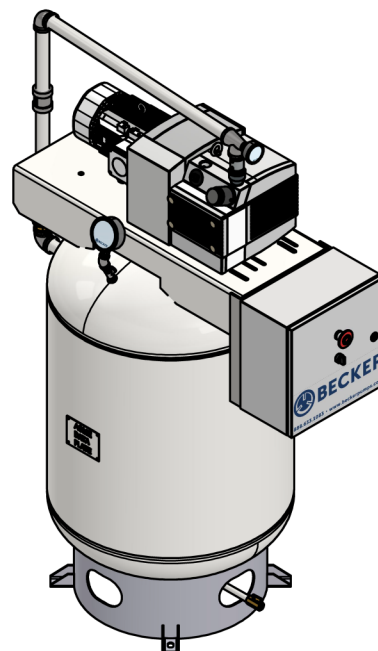
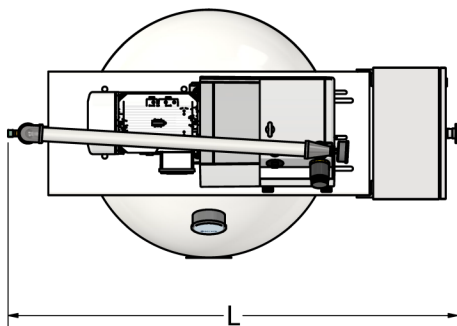
NEMA type 3R, 4 & 12 enclosure with UL listing; mounted and prewired for simplex controls. Becker simplex controls feature automatic start/stop of vacuum pump based on vacuum demand. Additional elements included are:

- 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)
ST25D/X	45	22	69	60	2	0.75	500
ST40D/X	45	22	69	60	2	0.75	515
ST60D/X	55	30	75	120	2	1	1,000
ST80D/X	55	30	75	120	2	1	1,000

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)
ST25D/X	50	28	42	60	2	0.75	500
ST40D/X	50	28	42	60	2	0.75	515
ST60D/X	70	32	48	120	2	1	1,000
ST80D/X	70	32	48	120	2	1	1,000
ST100D/X	70	32	48	120	2	1.5	1,150
ST140D/X	70	32	50	120	2	1.5	1,150
ST250D/X	86	35	60	240	2	2	2,500

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

