FSCURTIS AIR COMPRESSORS

CA SERIES

RECIPROCATING AIR COMPRESSORS

CHALLENGE AIR QUALITY. CAST IRON DURABILITY.

CHALLENGE AIR.

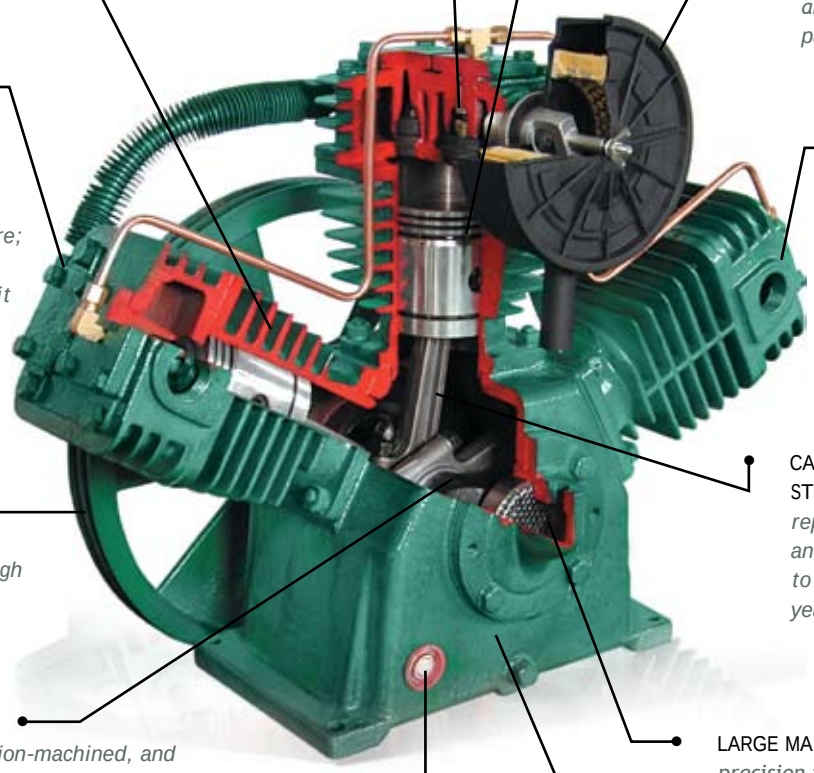
FSCURTIS® BASIC PUMPS

Industrial Design 1/2 - 15HP Single & Two-Stage up to 175 PSI

SELECT CA SERIES FOR QUALITY, ENERGY EFFICIENCY AND VALUE

Since 1854, CURTIS Air Compressors has empowered generations with the air power needed to support and grow efficient industrial, manufacturing, automotive, and service businesses. Today, FSCURTIS' revolutionary CA Series reciprocating air compressors are built to be rugged, reliable and include cast iron construction for long-lasting durability.

Durability is not unique to the CA Series. Long performance life is built into all FSCURTIS air compressors. End users request FSCURTIS by brand name because of the reputation often passed down from one generation to the next, one operations manager to the next. Look inside the basic pump to see how high quality components and forward thinking design provides long-lasting durability for all FSCURTIS compressors.



HEAVY-DUTY STAINLESS STEEL VALVES *standard on all CA Series compressors. Lapped to optical flatness for high efficiency and extended wear. All valves are oversized & designed for high flow.*

RINGS *long-life industrial design compression and oil control rings for maximum performance.*

CAST IRON CYLINDERS *precision bored for high performance and low oil carry-over.*

LARGE INTAKE FILTER SILENCERS *for quiet operation and provides maximum particulate protection.*

SUCTION VALVE HEAD UNLOADERS *for continuous running air compressors, unloader lets unit idle load-free until air supply drops to cut-in pressure; automatically lets unit idle again after high pressure limit is reached.*

DEEP FINNED CYLINDERS & HEADS *ensures cool, vibration free operation and long life.*

CAST IRON HIGH TENSILE STRENGTH RODS *with replaceable rod bearings and pin bushings. Machined to close tolerances for many years of service.*

BALANCED FLYWHEEL *for smooth operation with high volume airflow to cool heads and cylinders.*

DUCTILE IRON CRANKSHAFT *dynamically balanced, precision-machined, and ground. Assures extended running life for all internal bearings and wearing surfaces.*

LARGE MAIN ROLLER BEARINGS *precision fit to hold alignment of all rotating parts.*

OIL SIGHTGLASS *conveniently located for reading of oil level in crankcase.*

CAST IRON CRANKCASE *for strength & durability.*

Genuine. FSCURTIS.

PRECISION BUILT.

SIMPLEX COMPRESSORS

Heavy Duty Cast Iron Construction

COMPRESSOR RELIABILITY

Standard Equipment

- ASME air receiver built with heavy gauge steel
- Vertical or horizontal mount
- U.L. approved pressure switch
- OSHA approved beltguard - totally enclosed
- ASME approved safety relief valve
- ASME approved discharge air service valve
- Slow V-belt drive
- Automatic start-stop control
- Large metal intake filter-silencers
- Manual condensate tank drain valve
- Dial read-out pressure gauge indicator
- Low power consumption
- Loadless starting
- Factory oil filled
- 5 year limited warranty

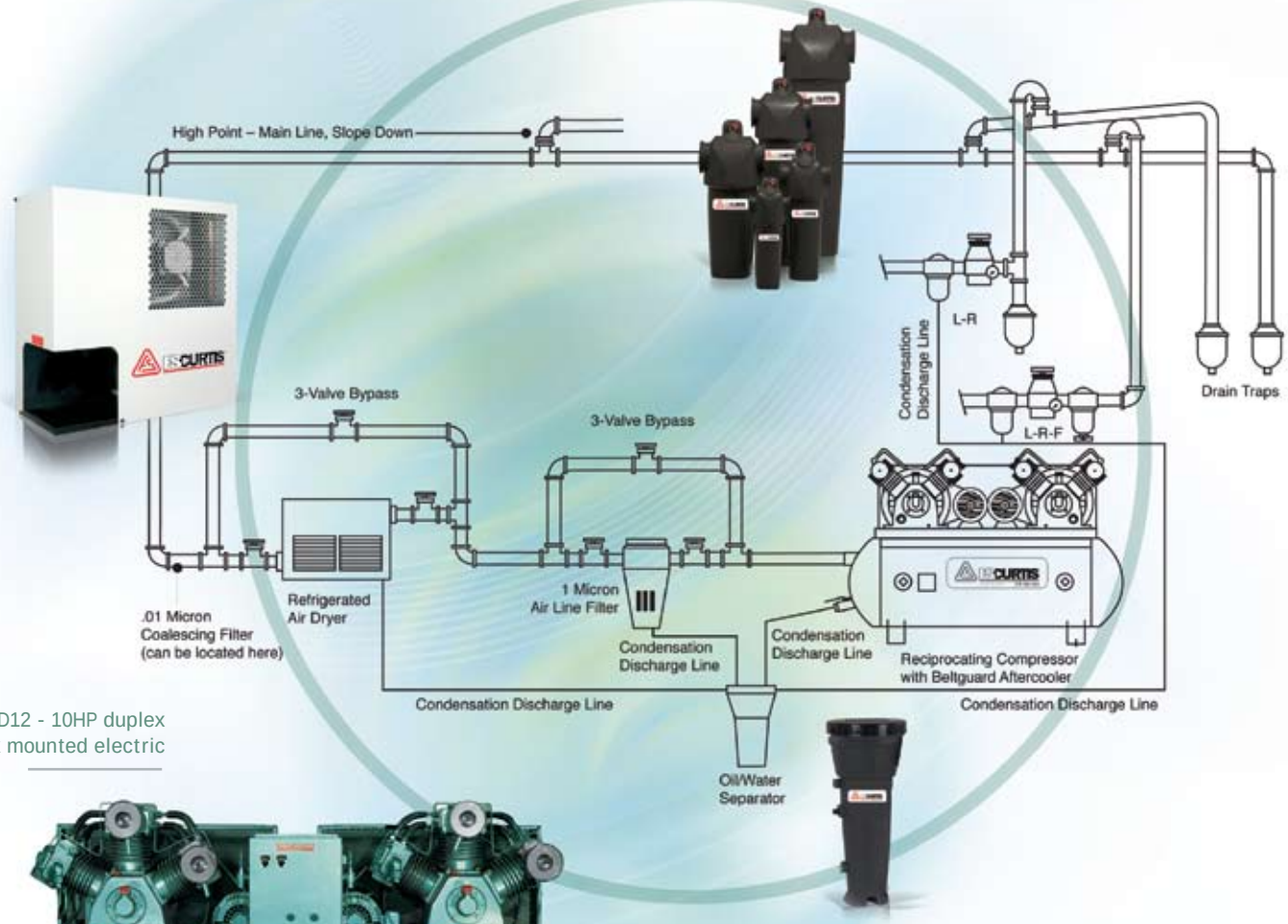
SIMPLEX TANK MOUNTED ELECTRIC - TWO STAGE 145-175 PSI									
HP	Model		Tank	Pump	CYL	CFM @	Dimension - Inches L x W x H		Approx. Weight
	Horizontal	Vertical	Gal.			175 PSI	Horizontal	Vertical	Lbs.
3	**3HT6**	**3VT6**	60	E-23	3	8.1	50 x 22 x 40	33 x 22 x 68	439
5	**5HT8**	**5VT8**	80	E-50	3	17.4	64 x 23 x 47	36 x 25 x 72	525
5	**5HT12**	**5VT12**	120	E-50	3	17.4	72 x 26 x 54	36 x 32 x 78	795
5	**5E2HT8**	**5E2VT8**	80	E-57	2	18.0	64 x 23 x 49	36 x 25 x 74	510
7.5	**7E2HT8**	**7E2VT8**	80	E-57	2	23.2	64 x 23 x 49	36 x 25 x 74	530
10	**10HT8**	**na**	80	E-71	3	34.2	64 x 26 x 50	na	670
10	**10HT12**	**10VT12**	120	E-71	3	34.2	73 x 28 x 55	38 x 32 x 80	940
15	**15HT12**	**na**	120	E-15	3	46.5	73 x 30 x 58	na	1080

SIMPLEX TANK MOUNTED ELECTRIC - SINGLE STAGE 95-125 PSI									
HP	Model		Tank	Pump	CYL	CFM @	Dimension - Inches L x W x H		Approx. Weight
	Horizontal	Vertical	Gal.			125 PSI	Horizontal	Vertical	Lbs.
2	**2HS3**	**2VS3**	30	ES-10	2	7.0	42 x 20 x 34	28 x 20 x 58	270
3	**3HS6**	**3VS6**	60	ES-20	3	10.4	50 x 22 x 40	33 x 22 x 68	439
5	**5ES50HS8**	**5ES50VS8**	80	ES-50	3	19.5	64 x 23 x 45	36 x 25 x 72	525
7.5	**7HS8**	**7VS8**	80	ES-50	3	23.4	64 x 23 x 47	36 x 25 x 74	535
10	**10HS12**	**10VS12**	120	ES-100	3	37.7	73 x 28 x 55	38 x 32 x 80	940
15	**15HS12**	**na**	120	ES-150	3	53.3	73 x 29 x 58	na	1080

CHALLENGE AIR.

FSCURTIS®

INTEGRATED SYSTEMS



10HTD12 - 10HP duplex tank mounted electric

ENERGY EFFICIENT CA SERIES COMPRESSORS

- Alternator control panel mounted with motor starters
- Compressors alternate during normal operation
- Both compressors run when system demands
- System reduces electrical cost and eliminates downtime

DUPLEX COMPRESSORS

DUPLEX TANK MOUNTED ELECTRIC – Two Stage 145-175 psi						Dimensions	Approx. Weight
HP	Model	Tank	Pump	CYL	CFM @	L x W x H	
		Gal.			175 PSI	Inches	Lbs.
5	**5HTD12**	120	E-50	3	34.8	74 x 26 x 51	940
5	**5E2HTD12**	120	E-57	2	36.0	74 x 26 x 53	910
7.5	**7E2HTD12**	120	E-57	2	46.4	74 x 26 x 53	930
7.5	**7HTD12**	120	E-71	3	52.4	78 x 28 x 55	1205
10	**10HTD12**	120	E-71	3	68.4	78 x 28 x 55	1225
15	**15HTD20**	200	E-15	3	93.0	88 x 32 x 64	1755

ENERGY SAVING.

GAS AND DIESEL DRIVEN COMPRESSORS

GAS DRIVEN - TWO STAGE 145-175 PSI Engine Idle Control and 12V D.C. Starter with Alternator							Dimensions	
HP	Model	Engine	Tank	Pump	Cylinder	CFM @	L x W x H	Approx. Weight
			Gal.			175 PSI	Inches	Lbs.
13	**13E2GT3-HE**	HONDA	30	E-57	2	22.0	42 x 21 x 43	460
13	**13E2GT6-HE**	HONDA	60	E-57	2	22.0	50 x 22 x 50	510
13	**13E2GT3-K**	KOHLER	30	E-57	2	22.0	42 x 21 x 43	475
13	**13E2GT6-K**	KOHLER	60	E-57	2	22.0	50 x 22 x 50	525
18*	**18GT6-K**	KOHLER	60	E-71	3	34.2	52 x 25 x 56	760

*18 HP engine requires auxiliary fuel tank

13E2GT3-K
13HP tank
mounted Kohler
gas driven

13E2GT3-HE
13HP tank
mounted Honda
gas driven

ENGINEERED QUALITY

Standard Equipment

- Heavy cast iron pump construction for dependable operation
- Slow speed design for extended life
- OSHA approved belt guard – totally enclosed
- ASME approved air receiver
- 12V D.C. starter with alternator
- Engine idle control

9E2GT3-YB
9HP tank
mounted Yanmar
diesel driven

DIESEL DRIVEN - TWO STAGE 145-175 PSI Engine Idle Control and 12V D.C. Starter with Alternator							Dimensions	
HP	Model	Engine	Battery	Pump	Tank	CFM @	L x W x H	Approx. Weight
			Mounted		Gal.	175 PSI	Inches	Lbs.
9	**9E2GT3-Y**	YANMAR	NO	E-57	30	22.0	42 x 21 x 43	480
9	**9E2GT3-YB**	YANMAR	YES	E-57	30	22.0	42 x 21 x 43	480

GENUINE. FSCURTIS.

Rugged Durability.
UltraPack COMPRESSORS

FULLY PACKED WITH ALL THE OPTIONS YOU NEED

Simplex and Duplex - Packaged with Optional Equipment

- Air-cooled aftercooler
- Magnetic motor starter (Simplex)
- Alternator control panel (Duplex)
- Dual control (10-30HP Simplex)
- Low oil level shutdown
- Automatic tank drain
- Tank isolator pads
- Factory oil filled
- 5 year limited warranty

SIMPLEX UltraPack SERIES (5-30HP)												
HP	Model		Tank	Pump	CYL	CFM @	Magnetic Starter & Low Oil Switch	After-cooler	Tank Pads	Auto Drain	Dual Control	Approx. Weight
	Horizontal	Vertical	Gal.			175 PSI						Lbs.
5	**5HT8UP**	**5VT8UP**	80	E-50	3	17.4	YES	NO	YES	YES	NO	600
5	**5E2HT8UP**	**5E2VT8UP**	80	E-57	2	18.0	YES	YES	YES	YES	NO	575
7.5	**7E2HT8UP**	**7E2VT8UP**	80	E-57	2	23.2	YES	YES	YES	YES	NO	580
10	**10HT12UPN**	**10VT12UPN**	120	E-71	3	34.2	YES	YES	YES	YES	NO	1000
10	**10HT12UPY**	**na**	120	E-71	3	34.2	YES	YES	YES	YES	YES	1025
15	**CV9712UP**	**na**	120	D-97	2	49.5	YES	YES	YES	YES	YES	1075
20	**CWT9813AUP**	**na**	120	C-98	2	76.5	YES	YES	YES	YES	YES	1840
25	**CWT9814AUP**	**na**	120	C-98	2	91.4	YES	YES	YES	YES	YES	1870
30	**CWT9815AUP**	**na**	120	C-98	2	102.2	YES	YES	YES	YES	YES	1920

15-30HP models = ML Series

DUPLEX UltraPack SERIES (5-30HP)													
HP	Model		Tank	Pump	CYL	CFM @	Low Oil Switches	After-coolers	Tank Pads	Auto Drain	3 Position Switch	Alt. Panel	Approx. Weight
	Horizontal	Vertical	Gal.			175 PSI	(2)	(2)					Lbs.
5	**5HTD12UP**	**na**	120	E-50	3	34.8	YES	NO	YES	YES	YES	YES	940
5	**5E2HTD12UP**	**na**	120	E-57	2	36.0	YES	YES	YES	YES	YES	YES	910
7.5	**7E2HTD12UP**	**na**	120	E-57	2	46.4	YES	YES	YES	YES	YES	YES	930
10	**10HTD12UP**	**na**	120	E-71	3	68.4	YES	YES	YES	YES	YES	YES	1225
15	**CVD9712BUP**	**na**	200	D97	2	99.0	YES	YES	YES	YES	YES	YES	2660
20	**CVD9813CUP**	**na**	240	C98	2	153.0	YES	YES	YES	YES	YES	YES	3500
25	**CVD9814CUP**	**na**	240	C98	2	182.8	YES	YES	YES	YES	YES	YES	3750
30	**CVD9815CUP**	**na**	240	C98	2	204.4	YES	YES	YES	YES	YES	YES	3850

15-30HP models = ML Series

SOLID INVESTMENT.

TWO STAGE 145-175 PSI								
HP	Model	ACFM	Flywheel Diameter	Oil Capacity	Bore	Stroke	Dimensions H x W x D	Approx. Weight
		175 PSI	O.D.		Inches	Inches	Inches	Lbs.
1	**E-11**	3.0	10.63	1 1/4 pints	2.56 - 1.65	1.73	12.5 x 14.1 x 10.6	48
2	**E-23**	6.0	10.63	1 3/4 pints	(2) 2.56 - 2.00	1.89	14.1 x 18.4 x 12.6	67
3	**E-23**	8.1						
5	**E-35**	14.0	14.57	2 1/2 pints	3.39 - 1.85	2.76	17.7 x 14.6 x 13.7	93
5	**E-50**	17.4	15.75	1 1/2 quarts	(2) 3.15 - 2.56	2.36	18.1 x 23.3 x 16.7	155
5	**E-57**	18.0	16.28	2 quarts	3.94 - 2.17	3.39	21 x 16.3 x 16.1	134
7.5	**E-57**	23.2						
7.5	**E-71**	26.1	20.87	2 1/2 quarts	(2) 3.93 - 3.15	2.76	20.9 x 13.8 x 20.06	262
10	**E-71**	34.2						
15	**E-15**	46.5	24.75	5 quarts	(2) 4.72 - 3.93	3.15	26 x 30.3 x 22.3	393

FSCURTIS® BASIC PUMPS

THE BETTER BUILT COMPRESSOR

Quality and industrial durability are built into each cast iron pump to give you a solid return on your compressor investment. Engineered to last – heavy cast iron construction. Serious protection – comes standard with ductile iron crankshafts, high strength metal connecting rods, rod insert bearings, wrist pin bushings, high-capacity hardened and lapped stainless steel valves with suction valve head unloaders. Efficiency - maximum CFM output per energy dollar.

Cutaway Illustration for model E-50 Basic Pump

SINGLE STAGE 95-125 PSI								
HP	Model	ACFM	Flywheel Diameter	Oil Capacity	Bore	Stroke	Dimensions H x W x D	Approx. Weight
		125 PSI	O.D.		Inches	Inches	Inches	Lbs.
0.5	**ES-03**	1.8	6.1	1/2 pint	2.01	1.65	10.7 x 6.1 x 7.5	28
0.5	**ES-05**	1.9	10.6	1/2 pint	2.56	1.73	13 x 10.6 x 8.7	33
0.75	**ES-06**	3.1	10.2	10 ounces	(2) 2.01	1.65	10.1 x 12.2 x 8.9	33
2	**ES-10**	7.0	10.6	1 1/4 pints	(2) 2.56	1.75	12.4 x 14 x 10.6	50
3	**ES-20**	10.4	10.6	1 3/4 pints	(3) 2.56	1.89	14.1 x 18.3 x 12.6	70
5	**ES-20**	12.3						
5	**ES-30**	14.3	12.3	1 quart	(2) 3.15	2.36	15.5 x 20.4 x 14.9	112
5	**ES-50**	19.5	15.75	1 1/2 quart	(3) 3.15	2.36	18.1 x 23.3 x 16.7	157
7.5	**ES-50**	23.4						
10	**ES-100**	37.7	20.8	2 1/2 quarts	(3) 3.94	2.75	20.9 x 25.5 x 20.06	267
15	**ES-150**	53.3	24.8	5 quarts	(3) 4.72	3.15	24.4 x 30.3 x 20.2	393
15	**ES-150A**	53.3	24.8	5 quarts	(3) 4.72	3.15	24.4 x 30.3 x 20.2	393

FSCURTIS® GENUINE PARTS

PROTECT YOUR INVESTMENT WITH FSCURTIS SERVICE MAINTENANCE KITS

Check out our large inventory of replacement parts at www.fscurtis.com or call your FSCURTIS Distributor.

ALWAYS USE FSCURTIS LUBRICANT TO KEEP YOUR COMPRESSOR RUNNING SMOOTHLY

LP Lubricant is specially formulated for FSCURTIS compressors and designed to increase efficiency, reduce wear, and prevent carbon build up. Recommended 2000 hours of service between lubricant change-out under normal conditions.

RUGGED DURABILITY:

FSCURTIS facilities include a 144,000 square foot facility in St. Louis, Missouri, as well as facilities in Buffalo, New York; Los Angeles, California; and San Diego, California. All phases of production, from design and engineering to final assembly and shipping meet or exceed the highest industry standards. State-of-the-art computer aided design allows FSCURTIS to meet the hundreds of customer specified compressor package configurations.

FSCURTIS®

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CAGI
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Improvements and research are continuous at FSCURTIS. *Specifications may change without notice.*

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