

applications

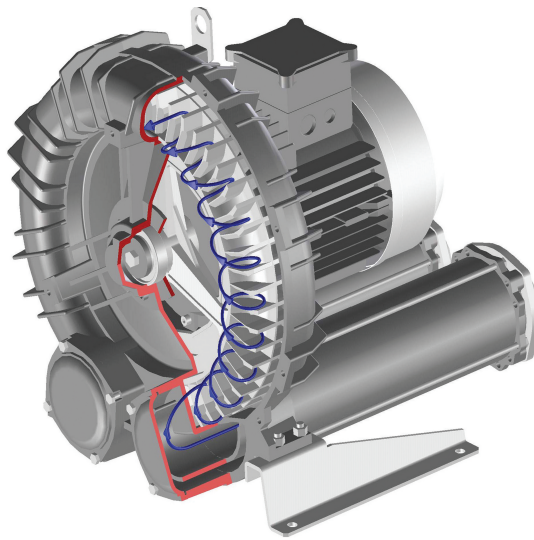
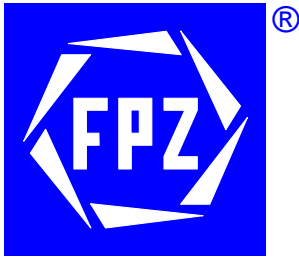
APPLICATIONS

Thousands of FPZ blowers are working in a variety of applications: from commercial to industrial installations, in food processing to pharmaceuticals, from textiles to aerospace, in medical applications to environmental. Wherever efficiency and reliability are needed, FPZ responds with the appropriate product "solution"

Advantages of side channel blowers

- Compact execution
- Simple concept
- Reduced maintenance costs
- Modular design
- Pulsation and oil free air





How blowers work

Blowers have an impeller blade mounted inside a housing. As air passes the inlet port impeller blades draw air in and accelerate the air outward and forward. As each impeller blade strikes it, the air moves faster and faster. At the base of the housing an air stripper diverts the air out of the housing reducing the speed and then increasing the pressure



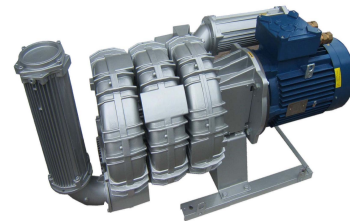
MS *single impeller - single stage*



TS
twin impeller - single stage



MD *single impeller - double stage*



TT
triple impeller - three stage



TD *twin impeller - double stage*

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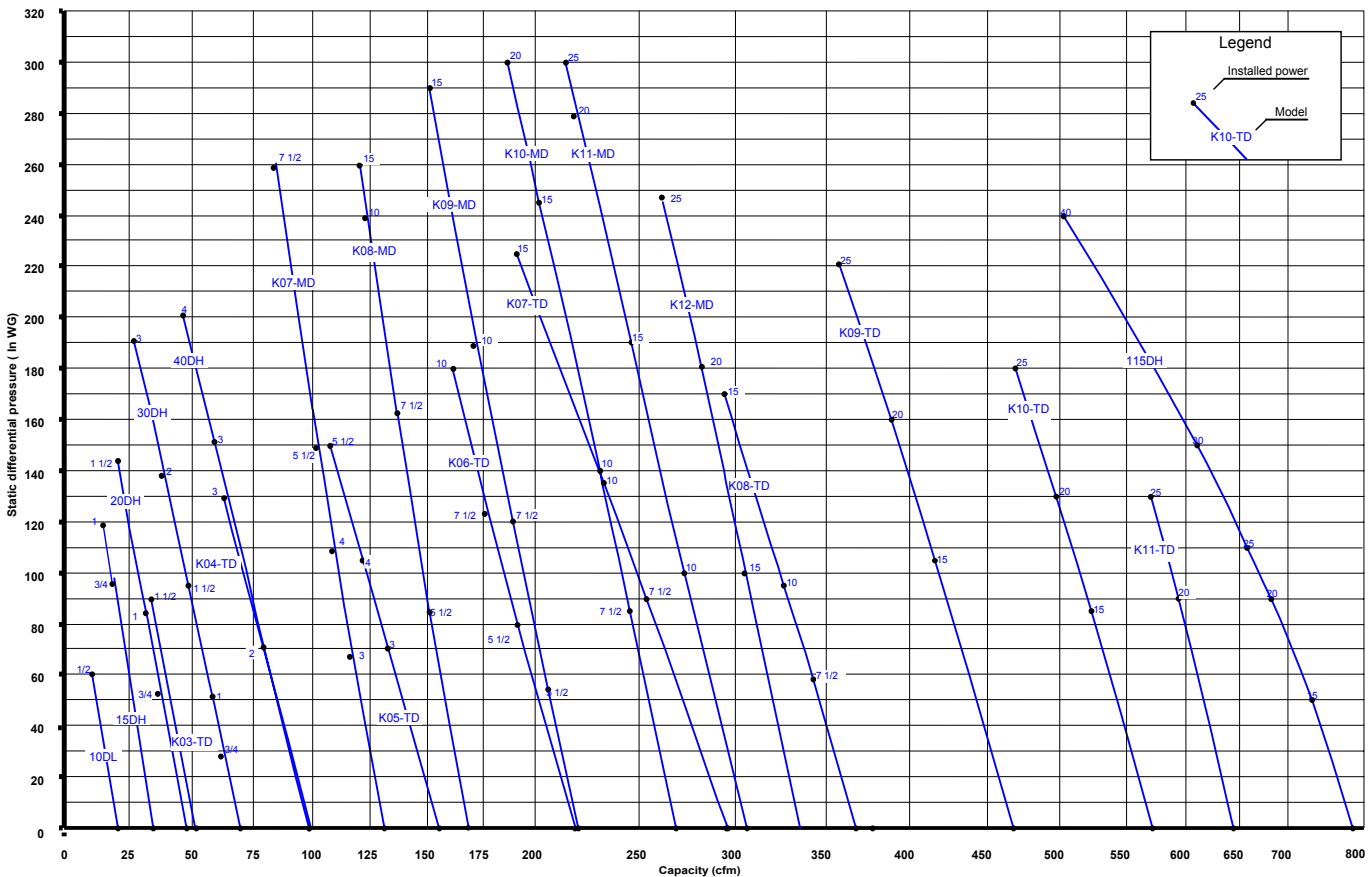
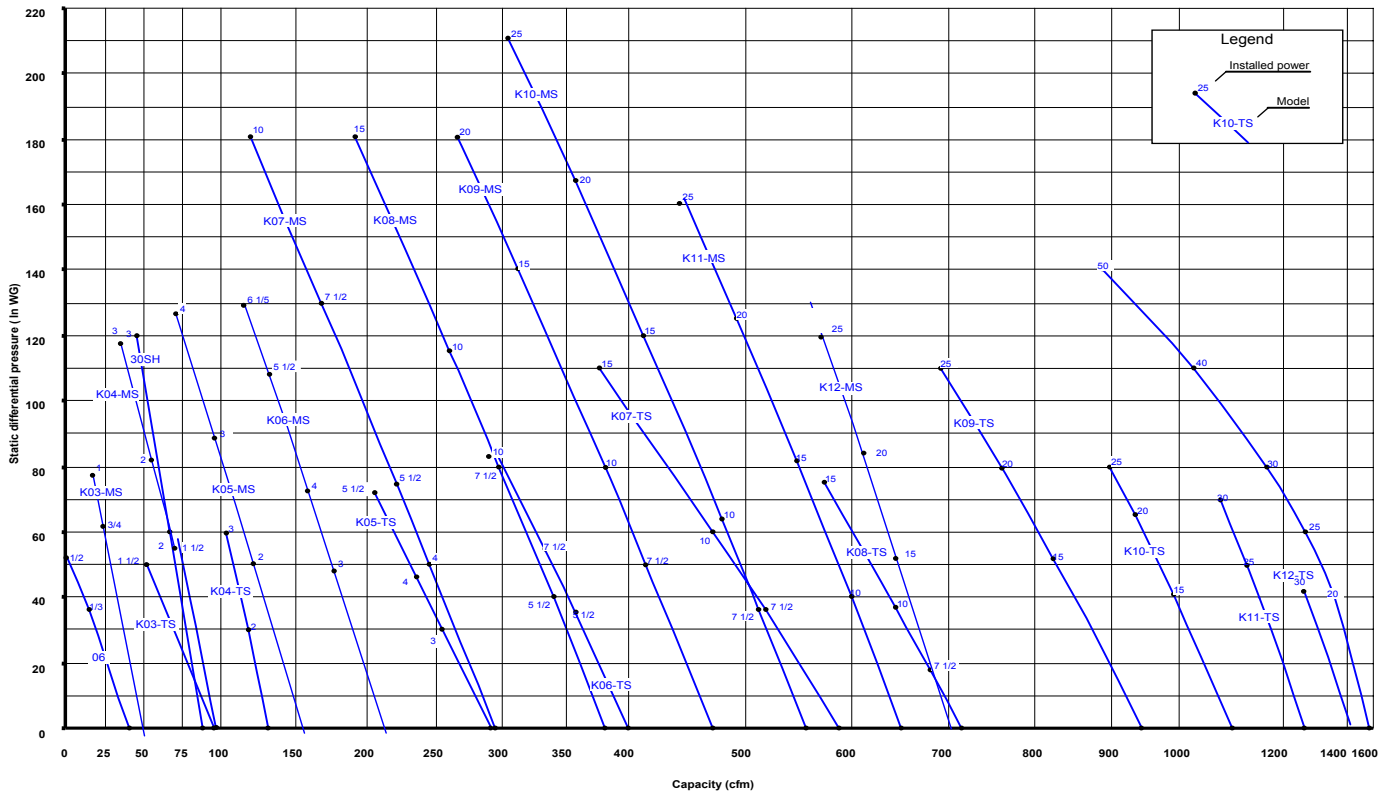
Disclaimer

The information contained in this catalog is based on information that we believe to be correct. It is the users responsibility to determine the suitability of the product for the application they are used in and the user assumes all risk and liability whatsoever in connection therewith.


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Pressure Performance Curves

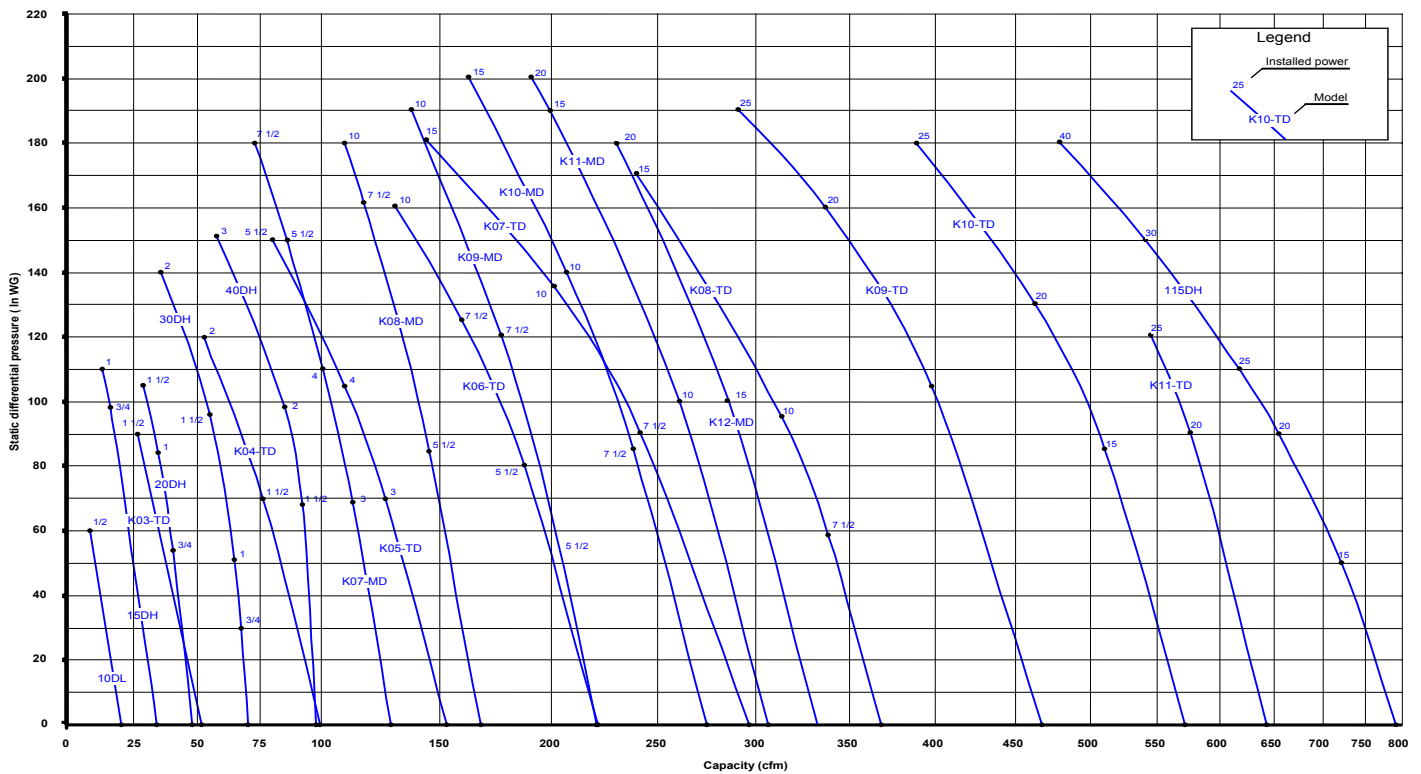
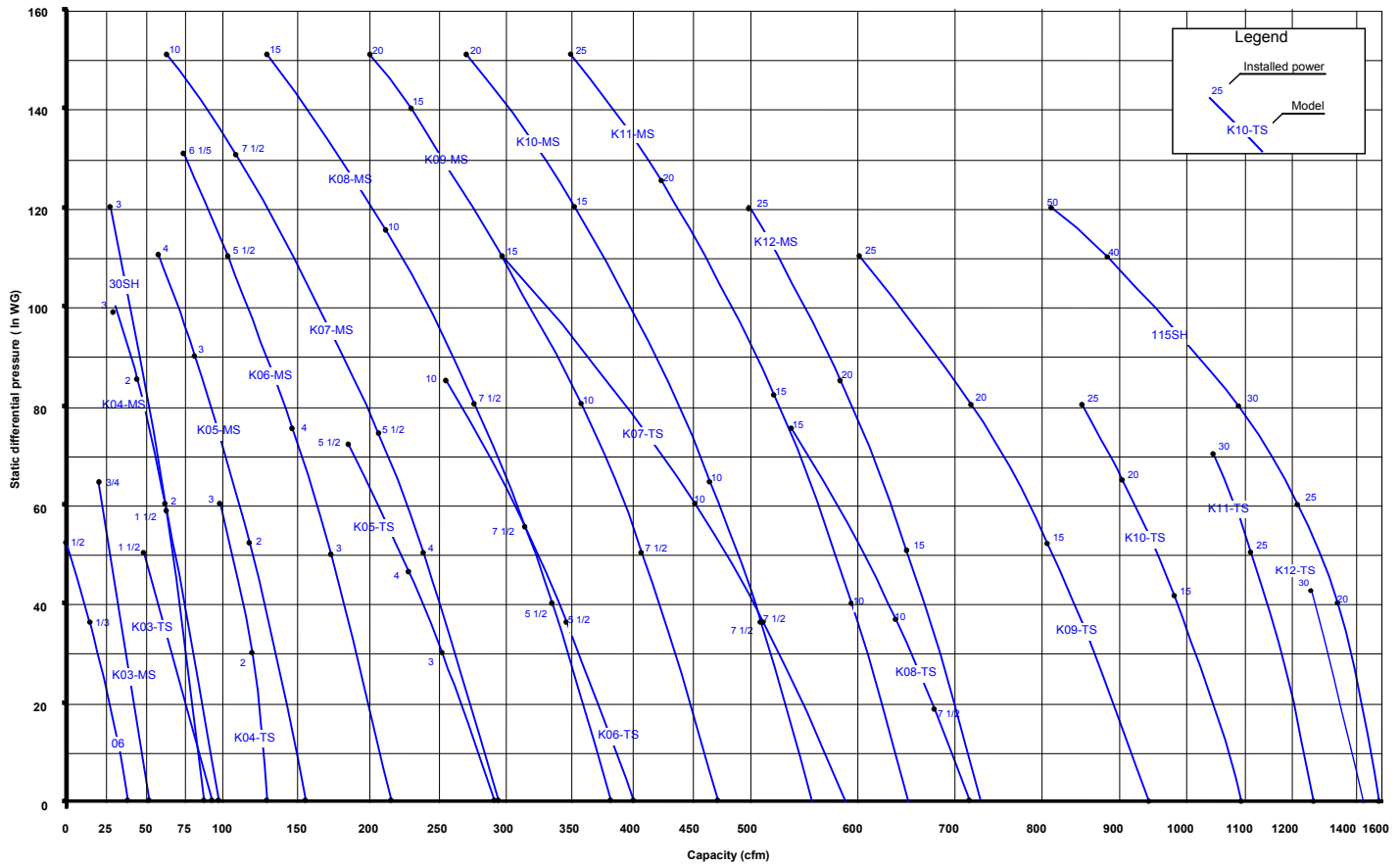


Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Tolerance on given values $\pm 10\%$ - data can change without prior notice.



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Vacuum Performance Curves



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Tolerance on given values $\pm 10\%$ - data can change without prior notice.

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REGENERATIVE BLOWERS - PRESSURE

SCL K03 / K04 / K05 / K06**MS SERIES**

SN 1874-8 1/2

TECHNICAL CHARACTERISTICS

- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

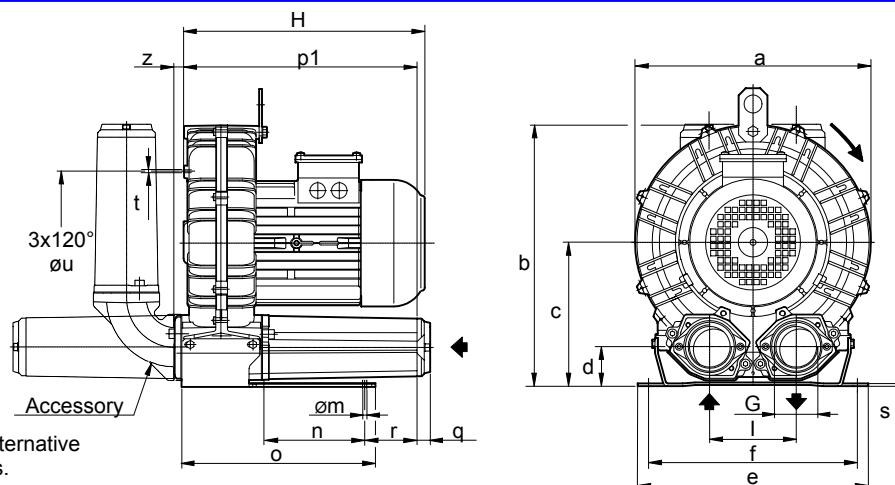
ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors

Dimensions in inches.

Dimension for reference only.

See page 68 for alternative mounting positions.



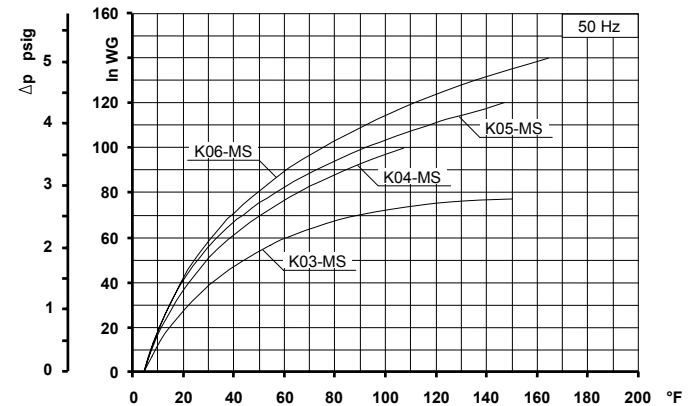
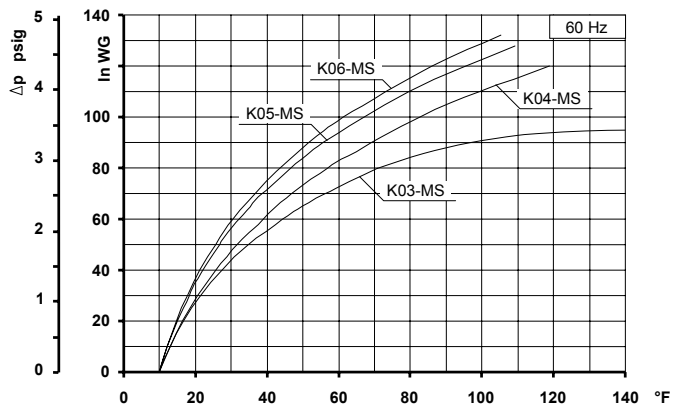
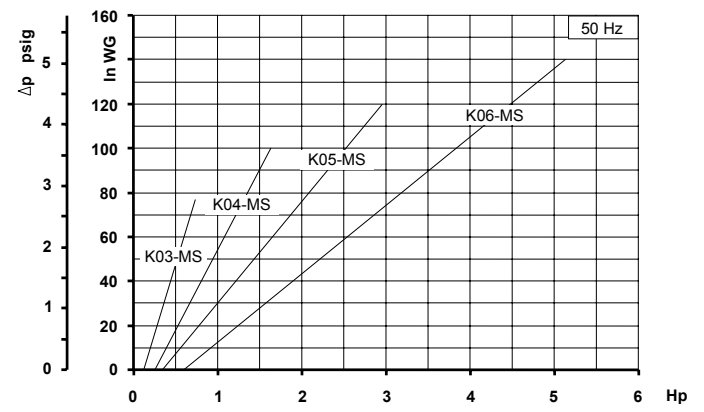
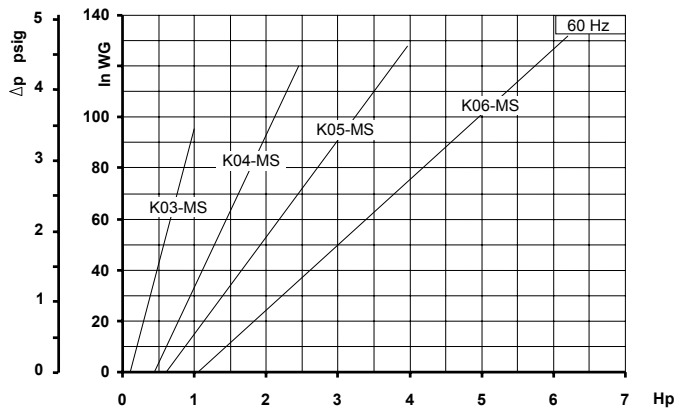
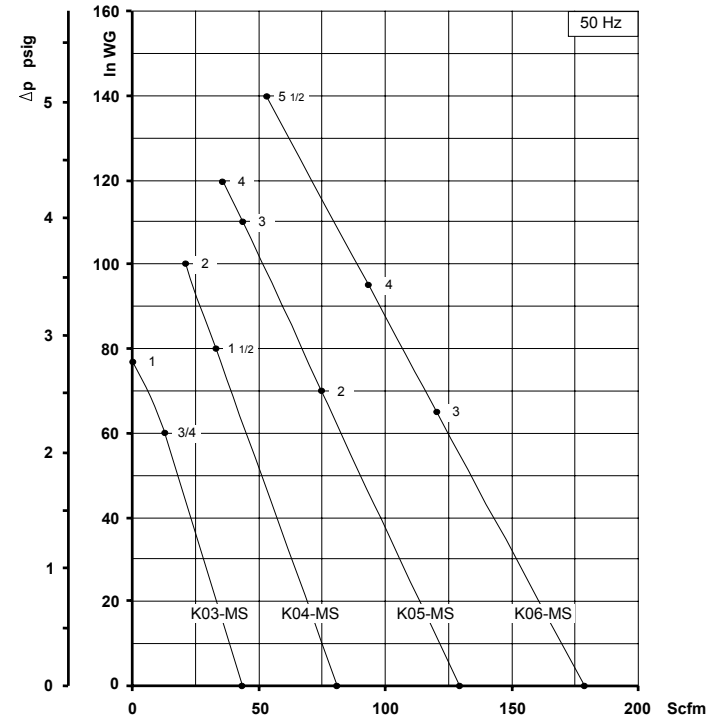
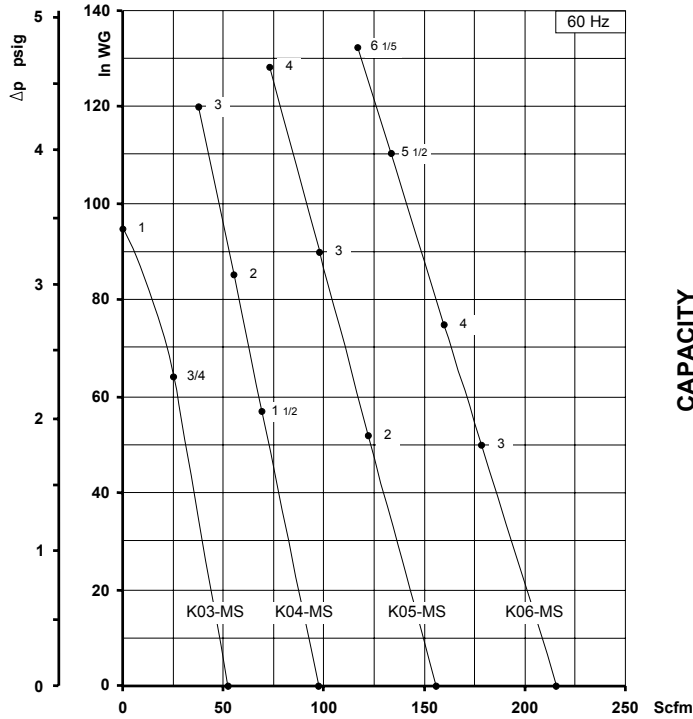
Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K03-MS	9.49	10.55	5.79	1.69	9.06	8.07	1"1/4 NPT	3.39	0.39	3.27	5.59	8.07	0.71	2.95	0.16	M6	5.51	0.47
K04-MS	11.22	12.40	6.77	1.93	10.04	8.86	1"1/2 NPT	4.02	0.47	3.74	6.73	8.74	0.71	2.76	0.16	M6	6.89	0.71
K05-MS	12.87	14.37	7.87	2.13	12.60	10.24	2" NPT	4.72	0.59	4.53	10.43	12.60	0.71	3.86	0.16	M8	7.87	0.75
K06-MS	14.80	15.47	8.07	2.13	12.80	11.42	2" NPT	4.92	0.59	5.51	10.71	13.15	0.71	3.35	0.16	M8	9.45	0.75

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K03-MS	52	43	3/4	3/4	64	60	62.0	60.0	10.43	24.30
			1	1	95	77	62.3	60.3	11.97	26.50
K04-MS	98	81	1 1/2	1 1/2	58	80	64.8	62.8	11.65	36.40
			2	2	85	100	65.0	63.0	13.78	43.00
			3	-	120	-	65.2	-	13.78	49.60
K05-MS	156	129	2	2	52	70	70.5	68.5	13.20	51.80
			3	3	90	110	70.8	68.8	13.20	58.40
			4	4	128	120	71.1	69.1	14.40	67.20
K06-MS	216	179	3	3	50	65	73.0	71.0	13.54	68.70
			4	4	75	95	73.3	71.3	14.17	71.65
			5 1/2	5 1/2	110	140	73.6	71.6	14.17	77.60
			6 1/5 (2)	-	132	-	73.9	-	14.45	77.60

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) No cURus motor

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.


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REGENERATIVE BLOWERS - PRESSURE

SCL K07 / K08 / K09 / K10 / K11 / K12

MS SERIES

SN 1805-12 1/2

TECHNICAL CHARACTERISTICS

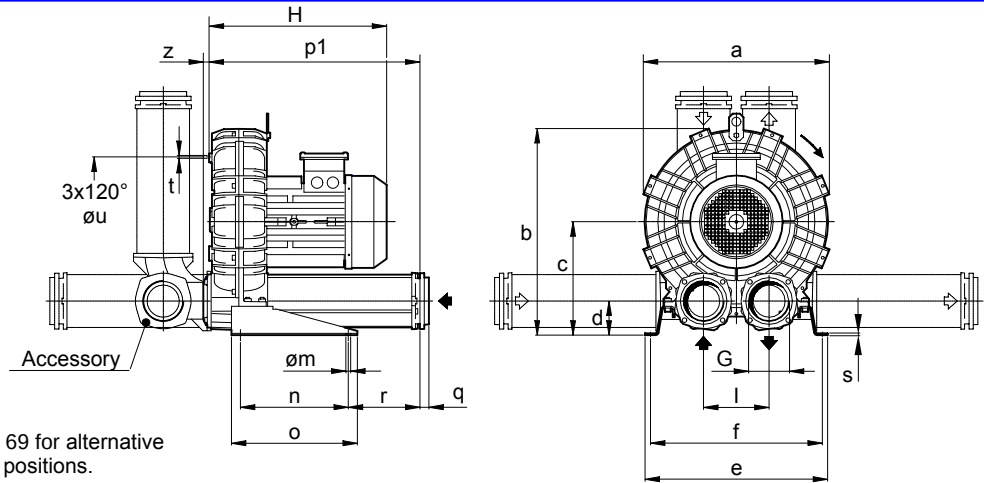
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - cURus motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



Dimensions in inches.
Dimension for reference only.

See page 69 for alternative mounting positions.

Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K07-MS	16.69	18.84	10.59	3.23	18.43	17.24	3" NPT	6.10	0.51	11.81	13.78	20.16	0.98	5.39	0.20	M8	11.61	0.63
K08-MS	17.99	19.61	10.59	3.23	18.82	17.64	3" NPT	6.10	0.51	11.81	13.78	20.16	0.98	5.39	0.20	M8	12.2	0.63
K09-MS	19.37	22.09	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	23.07	0.98	7.83	0.20	M8	14.17	0.63
K10-MS	20.31	22.56	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	23.07	0.98	7.83	0.20	M8	14.17	0.63
K11-MS	21.34	23.74	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78	23.46	0.98	8.03	0.20	M8	15.35	0.63
K12-MS	21.57	23.82	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78	23.58	0.98	8.03	0.20	M8	15.35	0.51

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K07-MS	294	243	4	4	50	63	78.7	76.7	15.45	103.00
			5 1/2	5 1/2	75	86	79.0	77.0	15.45	107.10
			7 1/2	7 1/2	130	138	79.3	77.3	18.37	145.70
			10	10	181	161	79.6	77.6	18.37	154.50
K08-MS	381	316	5 1/2	5 1/2	40	52	79.7	77.7	15.45	115.70
			7 1/2	7 1/2	80	90	80.0	78.0	18.37	154.30
			10	10	115	125	80.3	78.3	18.37	163.10
			15	15	181	181	80.6	78.6	19.15	184.00
K09-MS	471	390	7 1/2	7 1/2	50	63	80.2	78.2	18.84	166.50
			10	10	80	95	80.5	78.5	18.84	175.10
			15	15	140	155	81.0	79.0	19.63	196.20
			20	20	181	181	81.3	79.3	23.74	269.00
K10-MS	556	460	7 1/2	7 1/2	36	51	80.1	78.1	18.84	170.90
			10	10	64	80	80.5	78.5	18.84	179.50
			15	15	120	135	81.0	79.0	19.63	200.60
			20	20	167	191	81.4	79.4	23.74	273.40
K11-MS	650	539	25	25	211	201	81.6	79.6	24.61	298.70
			10	10	40	53	82.0	80.0	19.04	194.90
			15	15	82	97	82.4	80.4	19.83	216.00
			20	20	125	141	82.7	80.7	23.94	288.80
K12-MS	726	602	25	25	162	201	85.6	83.6	24.81	313.10
			15	15	52	90	82.9	80.9	19.95	223.70
			20	20	85	130	83.2	81.2	24.06	296.50
K12-MS	726	602	25	25	120	160	86.1	84.1	24.92	320.80

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.

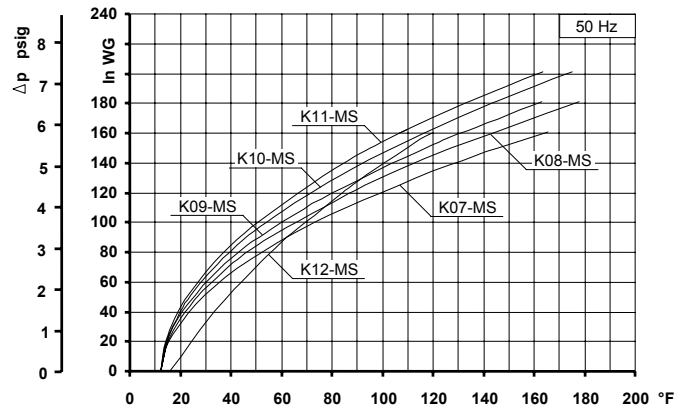
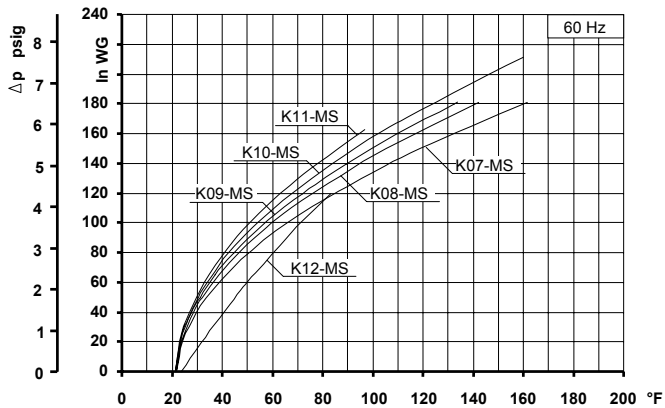
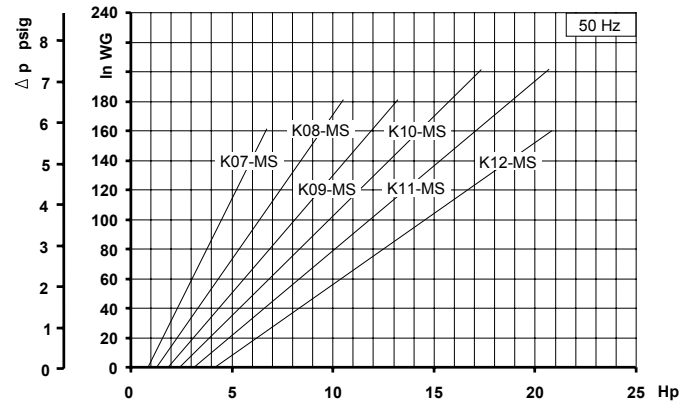
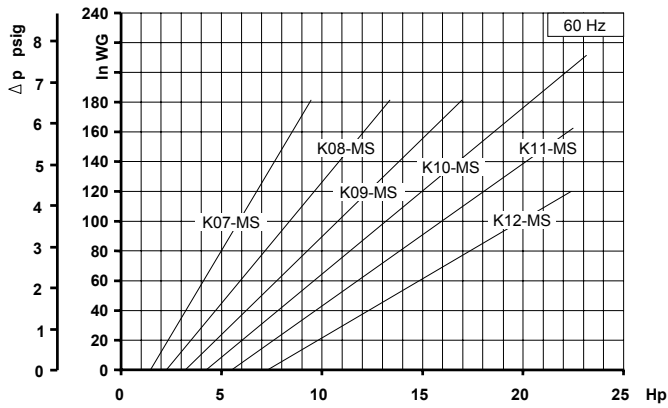
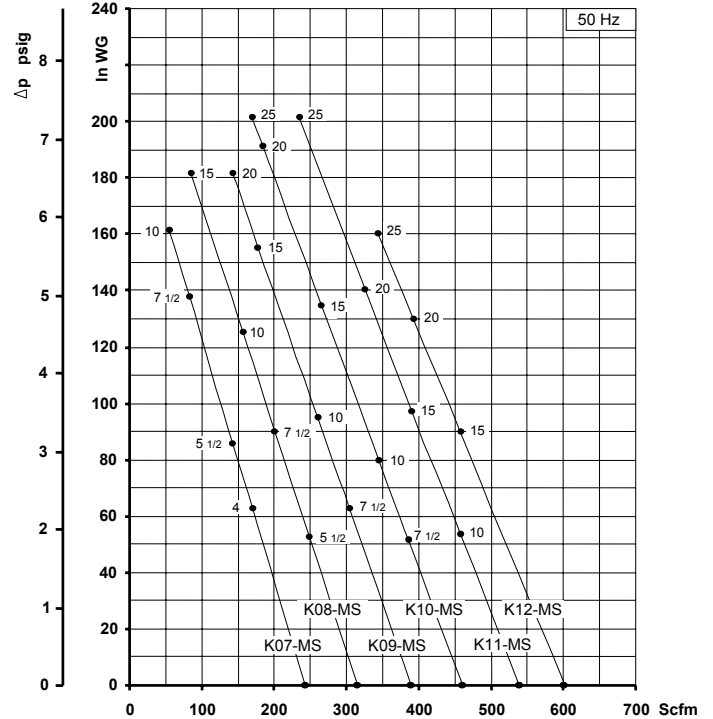
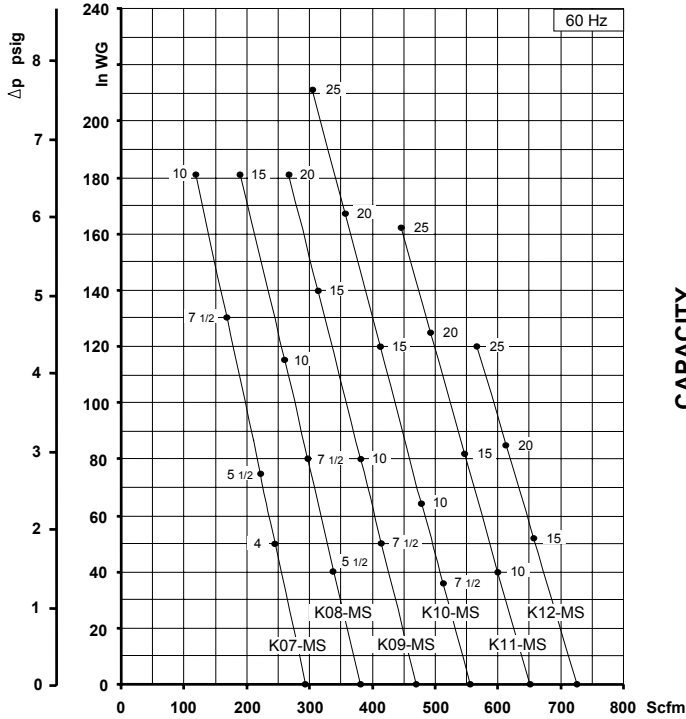


REGENERATIVE BLOWERS - PRESSURE 9

SCL K07 / K08 / K09 / K10 / K11 / K12

MS SERIES

SN 1805-12 2/2



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

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REGENERATIVE BLOWERS - **PRESSURE****SCL K03 / K04 / K05 / K06****TS SERIES**

SN 1921-4 1/2

TECHNICAL CHARACTERISTICS

- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

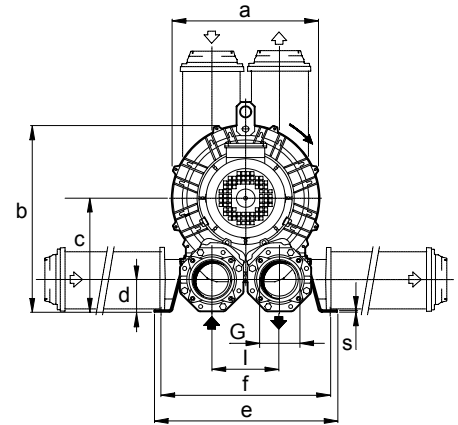
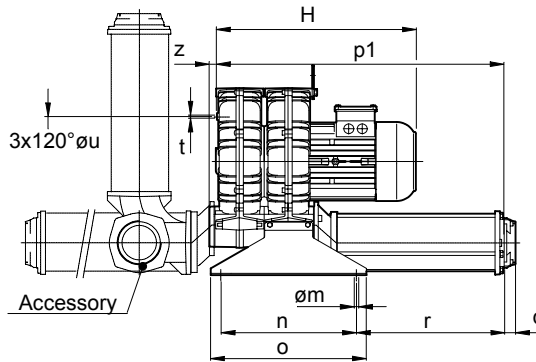
- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors

See pages 70 & 71

for alternative mounting positions.



Dimensions in inches.

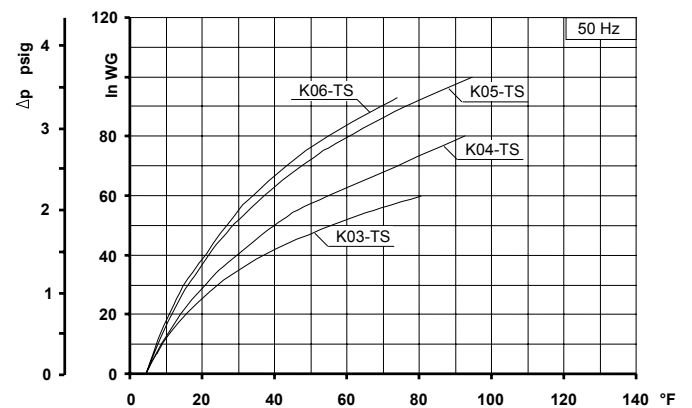
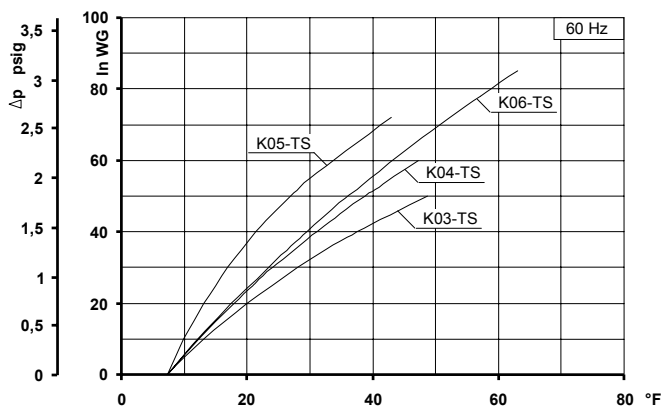
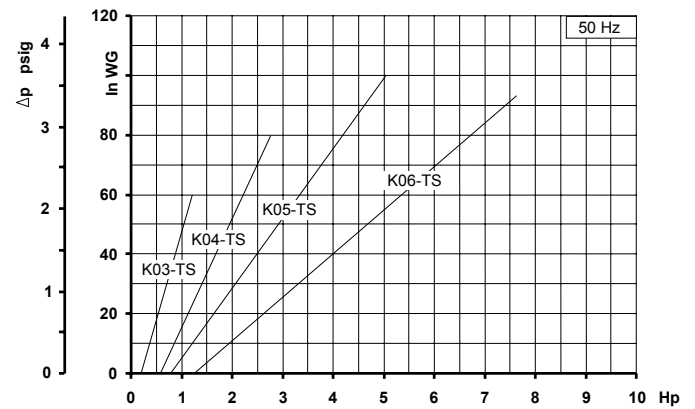
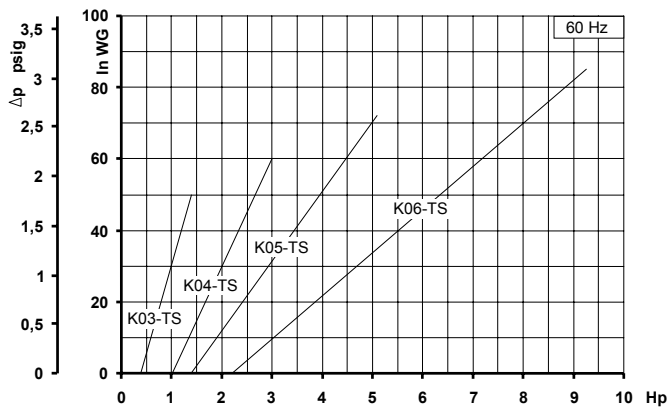
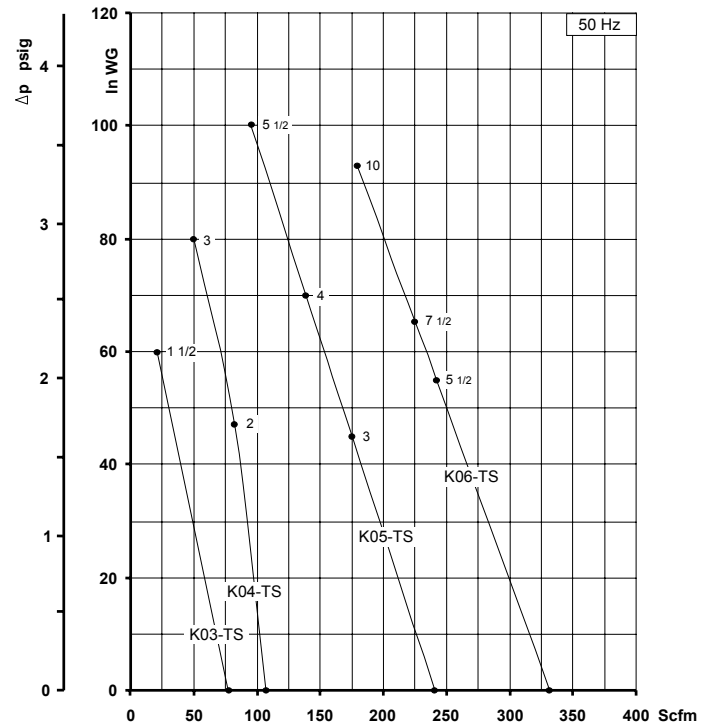
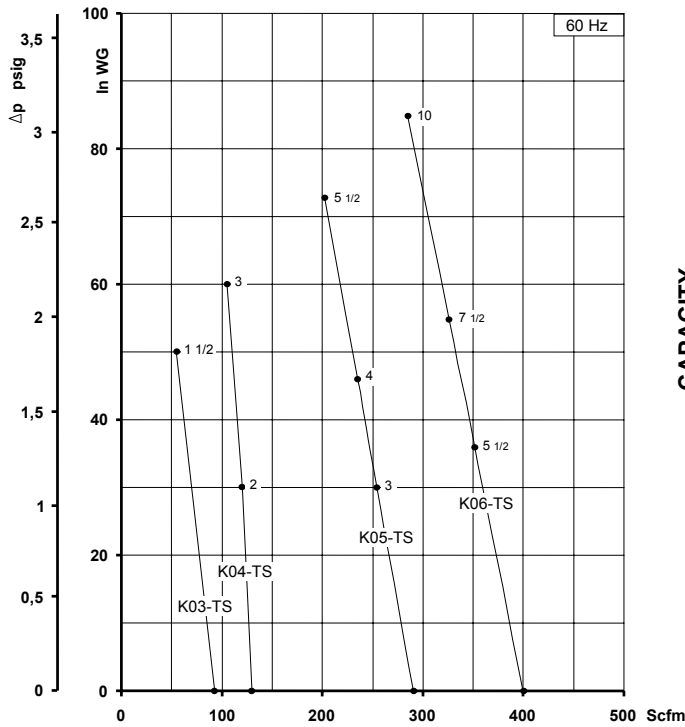
Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K03-TS	9.49	10.55	5.79	1.69	9.06	8.07	1" 1/4 NPT	3.39	0.39	3.27	5.59	11.02	0.71	2.95	0.16	M6	5.51	0.47
K04-TS	11.22	12.40	6.77	1.93	10.04	8.86	1" 1/2 NPT	4.02	0.47	3.74	6.73	12.40	0.71	2.76	0.16	M6	6.89	0.71
K05-TS	12.87	16.61	10.16	3.03	15.91	14.72	3" NPT	5.91	0.51	11.81	13.58	24.96	0.98	12.91	0.16	M8	7.87	0.75
K06-TS	14.80	17.72	10.31	2.95	15.91	14.72	3" NPT	6.10	0.51	11.81	13.58	26.06	0.98	13.19	0.16	M8	9.45	0.75

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K03-TS	93	77	1 1/2	1 1/2	50	60	71.0	69.0	14.87	48.50
K04-TS	130	107	2	2	30	47	73.0	71.0	17.26	61.73
			3	3	60	80	74.5	72.5	17.26	68.34
K05-TS	290	241	3	3	30	45	72.0	70.0	17.45	85.98
			4	4	46	70	73.5	71.5	18.64	89.29
			5 1/2	5 1/2	72	100	75.5	73.5	18.64	93.70
K06-TS	400	331	5 1/2	5 1/2	36	55	77.2	75.2	18.98	104.72
			7 1/2	7 1/2	55	65	77.5	75.5	22.60	141.09
			10	10	85	93	77.8	75.8	22.60	149.91

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68 $^{\circ}$ F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.



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REGENERATIVE BLOWERS - PRESSURE

SCL K07 / K08 / K09 / K10 / K11 / K12

TS SERIES
 SN 1822-11 1/2

TECHNICAL CHARACTERISTICS

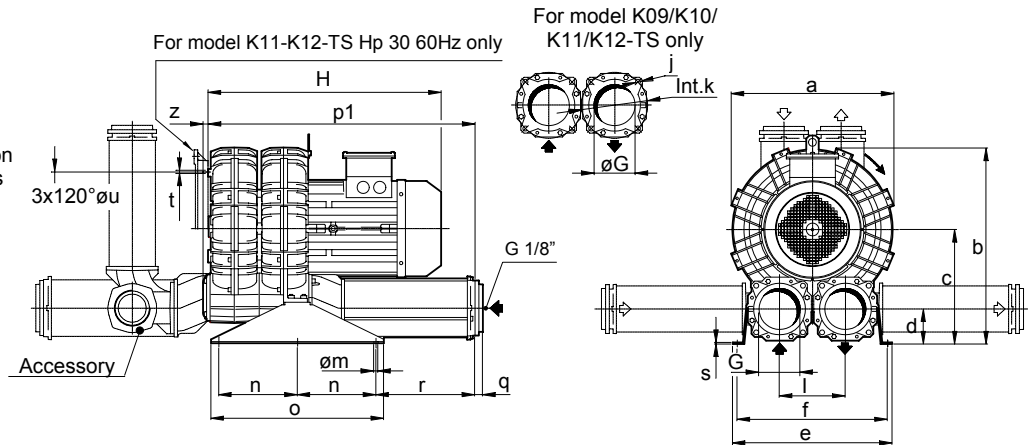
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor
- G1/8" female thread on both suction and discharge silencer port flanges

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



See page 72 for alternative mounting positions.

Dimensions in inches.

Dimension for reference only.

Model	a	b	c	d	e	f	G	l	j	k	m	n	o	p1	q	r	s	t	u	z
K07-TS	16.69	20.91	12.56	3.86	18.43	17.24	4"NPT	7.17	-	-	0.51	9.84	21.65	31.57	0.98	11.77	0.20	M8	11.61	0.63
K08-TS	18.03	21.57	12.56	3.86	18.82	17.64	4"NPT	7.17	-	-	0.51	9.84	21.65	31.57	0.98	11.77	0.20	M8	12.20	0.63
K09-TS	19.37	24.02	14.37	4.41	20.00	18.82	5.12	8.27	M16	8.27	0.51	9.84	21.65	33.46	-	12.40	0.20	M8	14.17	0.63
K10-TS	20.31	24.53	14.37	4.41	20.00	18.82	5.12	8.27	M16	8.27	0.51	9.84	21.65	33.46	-	12.40	0.20	M8	14.17	0.63
K11-TS	21.26	25.59	14.96	4.17	21.26	20.08	5.12	8.98	M16	8.27	0.51	9.84	21.65	34.25	-	12.60	0.20	M8	15.35	0.63
K12-TS	21.57	25.66	14.96	4.17	21.26	20.08	5.12	8.98	M16	8.27	0.51	9.84	21.65	34.37	-	12.60	0.20	M8	15.35	0.63

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K07-TS	588	487	7 1/2	7 1/2	36	48	83.9	81.9	23.76	197.31
			10	10	60	71	84.2	82.2	23.76	206.13
			15	15	110	121	84.8	82.8	24.55	223.77
K08-TS	715	592	7 1/2	7 1/2	18	30	80.8	78.8	23.76	205.47
			10	10	37	50	80.9	78.9	23.76	214.29
			15	15	75	87	83.3	81.3	24.55	231.92
K09-TS	941	780	15	15	52	62	83.0	81.0	25.81	270.06
			20	20	80	90	85.0	83.0	29.92	350.53
			25	25	110	120	87.0	85.0	30.79	383.60
K10-TS	1093	906	15	15	41	51	87.8	85.8	25.81	274.47
			20	20	65	75	88.1	86.1	29.92	354.94
			25	25	80	95	88.4	86.4	30.79	388.01
K11-TS	1254	1039	25	25	50	69	89.4	87.4	31.38	429.02
			30 (2)	30 (2)	70	90	90.0	88.0	31.38	434.53
K12-TS	1410	1168	30 (2)	30 (2)	45	80	90.6	88.6	31.50	436.75

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) K11-K12-TS Hp 30 vertical assembly only.

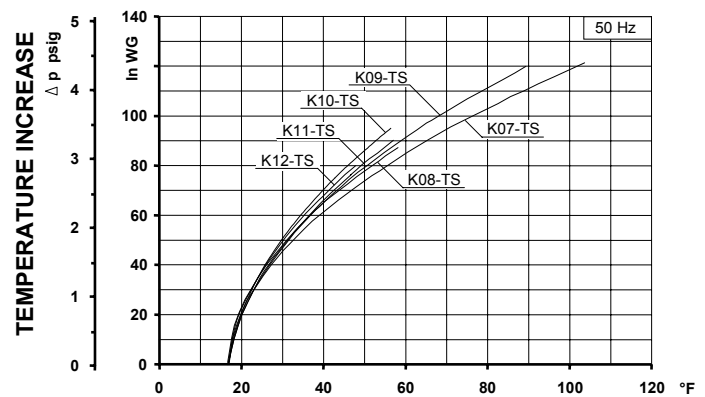
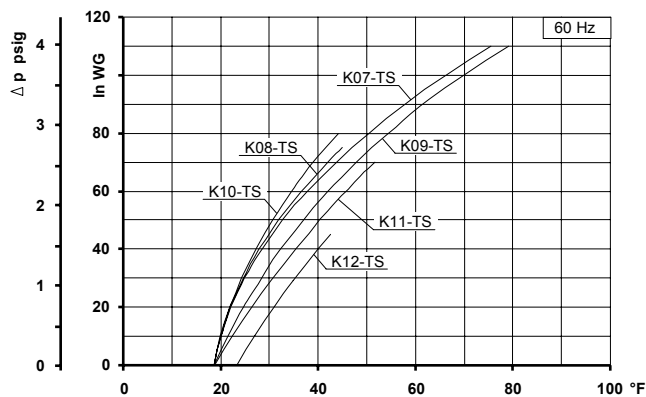
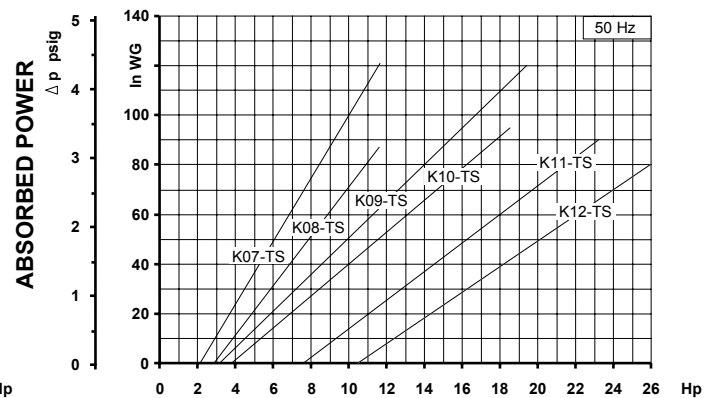
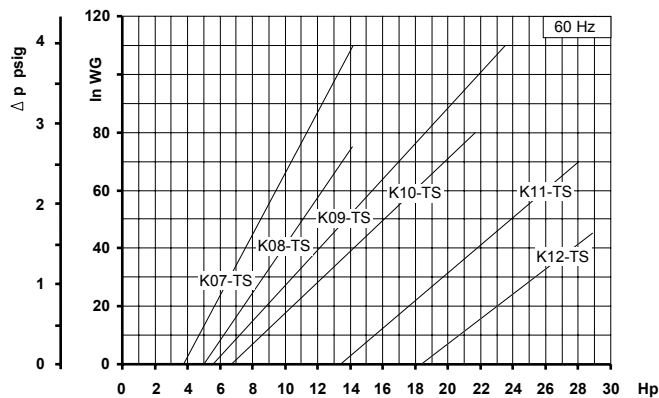
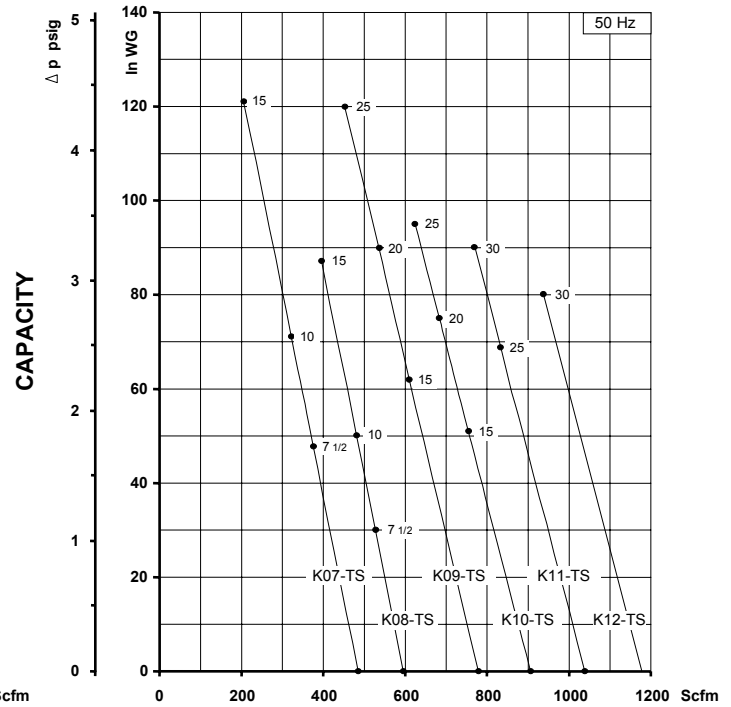
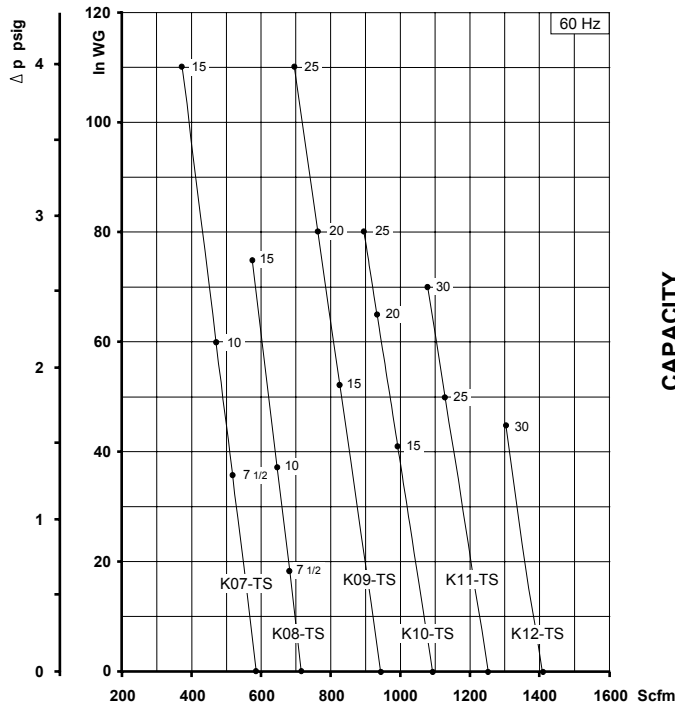
- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



REGENERATIVE BLOWERS - PRESSURE 13

SCL K07 / K08 / K09 / K10 / K11 / K12

TS SERIES
SN 1822-11 2/2



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

**TECHNICAL CHARACTERISTICS**

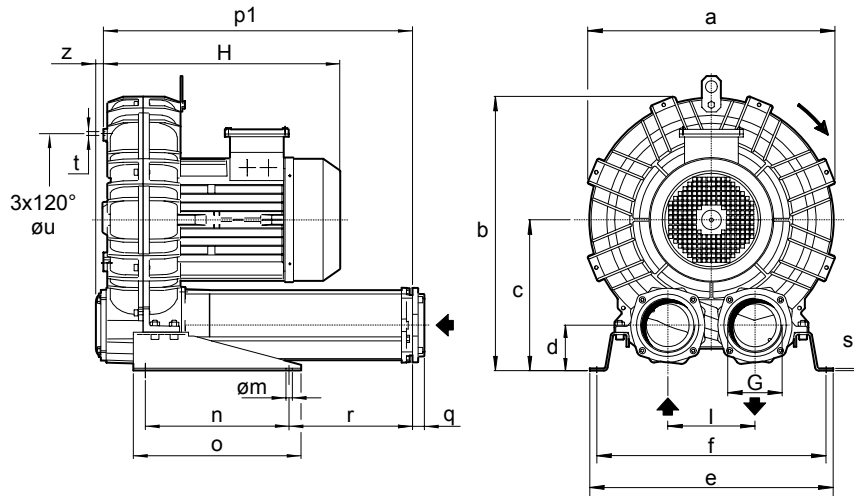
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



Dimensions in inches.

Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K07R-MD	16.69	18.94	10.59	3.23	18.43	17.24	2" NPT	6.10	0.51	11.81	13.78	16.46	0.71	1.70	0.20	M8	11.61	0.63
K08R-MD	17.99	19.61	10.59	3.23	18.82	17.64	2" NPT	6.10	0.51	11.81	13.78	16.46	0.71	1.70	0.20	M8	12.20	0.63
K09-MD	19.37	22.09	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	25.35	0.98	10.12	0.20	M8	14.17	0.63
K10-MD	20.31	22.56	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	25.35	0.98	10.12	0.20	M8	14.17	0.63
K11-MD	21.35	23.74	13.07	3.58	21.18	20.00	4" NPT	7.87	0.51	11.81	13.78	25.75	0.98	10.31	0.20	M8	15.35	0.63
K12-MD	21.57	23.85	13.07	3.58	21.18	20.00	4" NPT	7.87	0.51	11.81	13.78	25.87	0.98	10.31	0.20	M8	15.35	0.52

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H		Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	Inches	Lbs	
K07R-MD	129	107	3	3	68	87	73.5	71.5	16.14	101.40	
			4	4	110	128	74.0	72.0	16.14	103.60	
			5 1/2	5 1/2	150	170	74.5	72.5	16.14	111.50	
			7 1/2	7 1/2	260	260	75.0	73.0	17.52	134.50	
K08R-MD	168	139	5 1/2	5 1/2	85	110	76.2	74.2	16.14	116.90	
			7 1/2	7 1/2	162	185	76.6	74.6	17.52	140.00	
			10	10	240	260	77.0	75.0	17.52	151.00	
			15	-	260	-	77.3	-	17.52	173.00	
K09-MD	221	183	5 1/2	5 1/2	54	78	76.9	74.9	16.54	144.40	
			7 1/2	7 1/2	120	143	78.0	76.0	17.95	167.60	
			10	10	190	210	79.5	77.5	17.95	178.60	
			15	15	290	290	80.5	78.5	19.29	200.60	
K10-MD	275	228	7 1/2	7 1/2	85	110	79.9	77.9	17.91	170.90	
			10	10	140	165	80.3	78.3	17.91	181.90	
			15	15	245	270	81.4	79.4	19.29	203.90	
			20	20	300	300	81.7	79.7	22.97	270.00	
K11-MD	306	254	10	10	100	125	81.1	79.1	18.11	211.60	
			15	15	190	220	81.4	79.4	19.49	232.60	
			20	20	280	300	81.7	79.7	23.23	287.20	
			25	-	300	-	82.0	-	23.23	353.30	
K12-MD	336	278	15	15	100	180	82.3	80.3	19.61	240.30	
			20	20	180	260	82.6	80.6	23.42	295.00	
			25	-	250	-	82.9	-	23.42	361.00	

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.

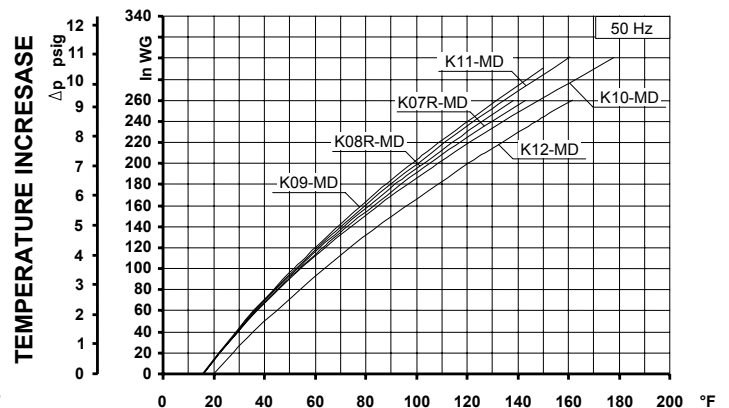
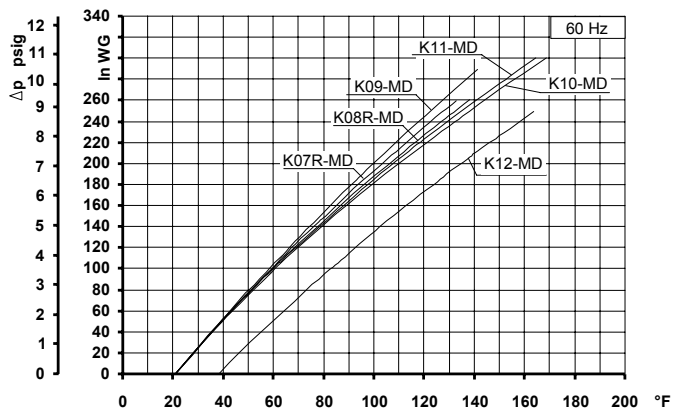
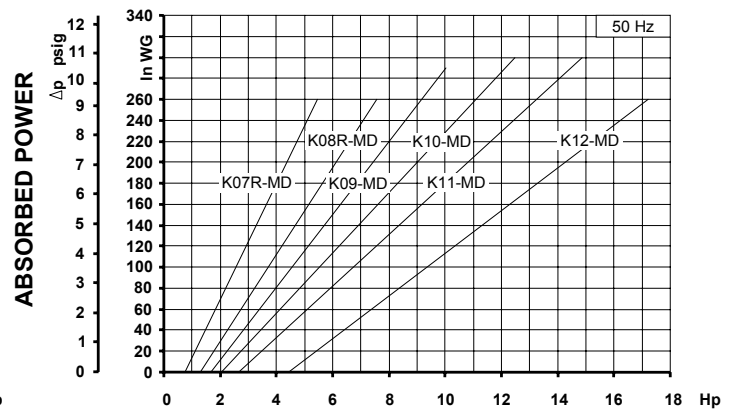
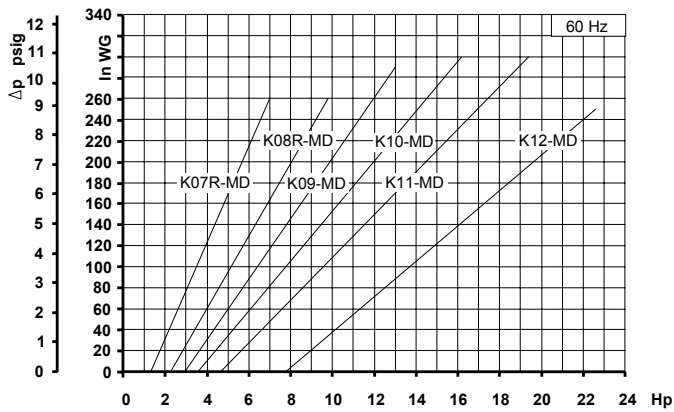
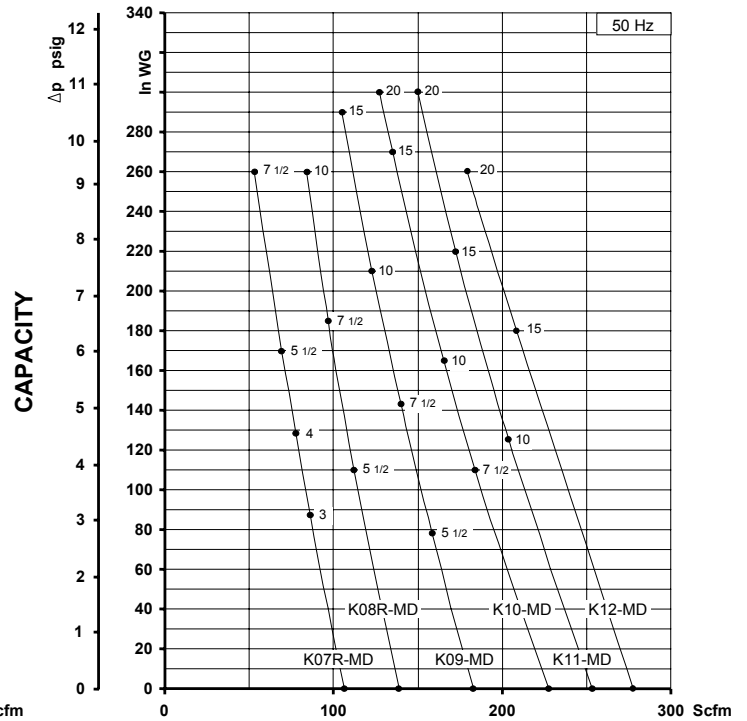
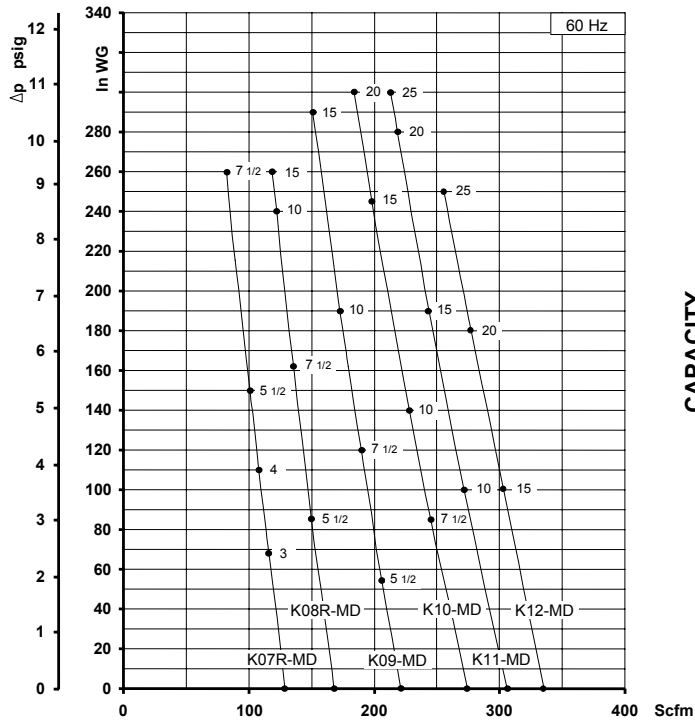


REGENERATIVE BLOWERS - PRESSURE 15

SCL K07R / K08R / K09 / K10 / K11 / K12

MD SERIES

SN 1848-8 2/2



Curves refer to air at 68 $^{\circ}$ F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: $\pm$ 10% tolerance.
Data subject to change without notice.



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REGENERATIVE BLOWERS - PRESSURE
SCL K03 / K04 / K05 / K06
TD SERIES
 SN 1931-4 1/2

TECHNICAL CHARACTERISTICS

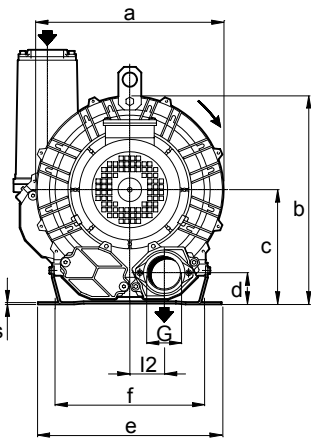
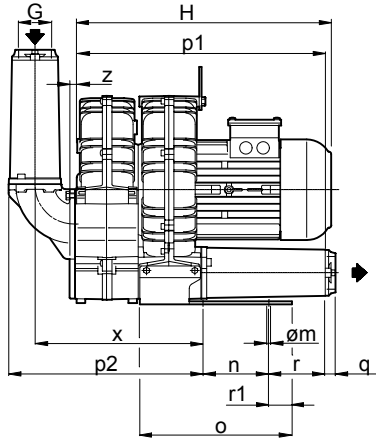
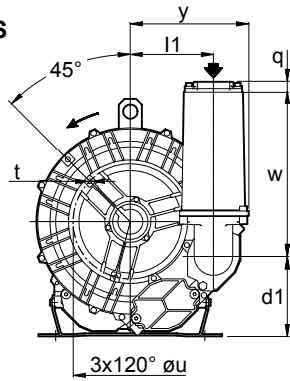
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



See page 73 for alternative mounting positions

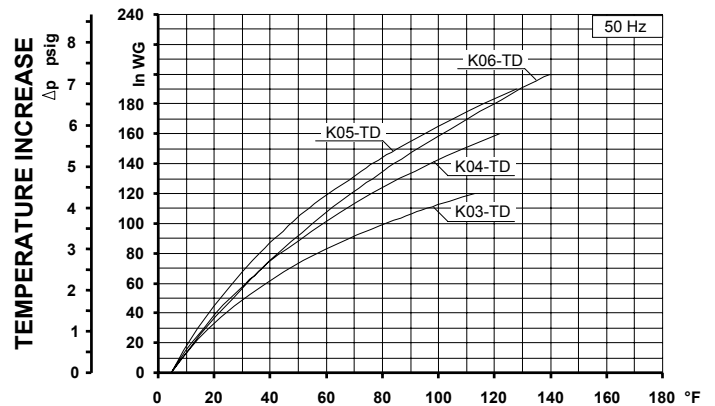
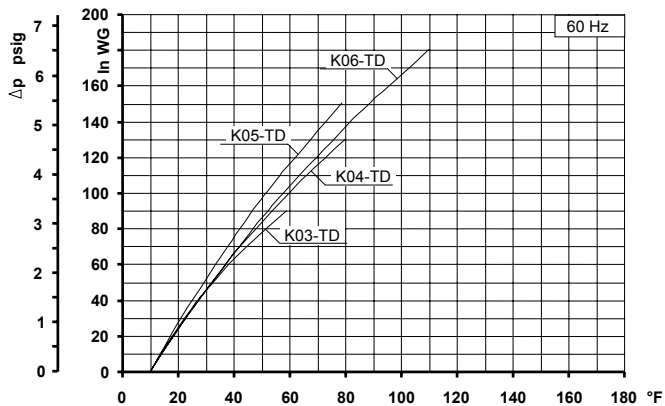
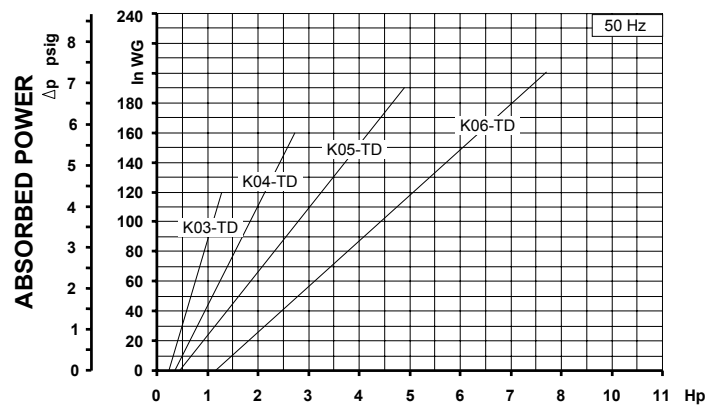
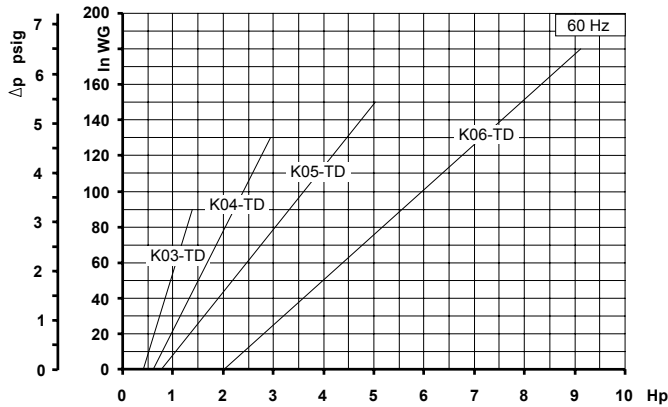
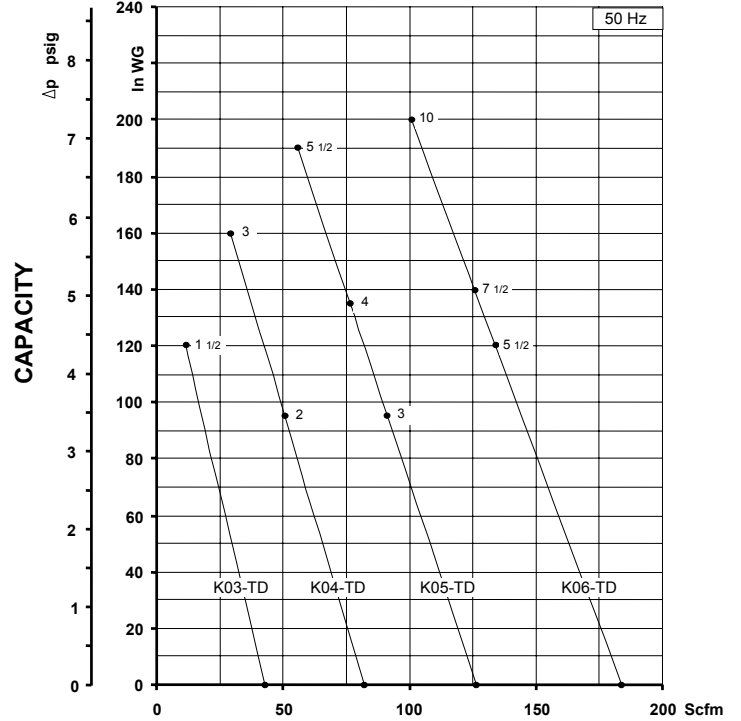
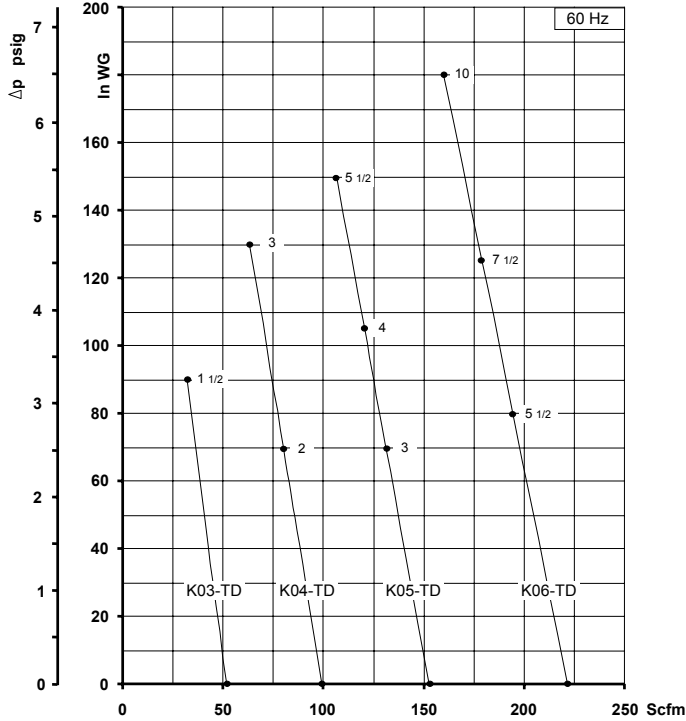
Dimensions in inches.
 Dimension for reference only.

Model	a	b	c	d	d1	e	f	G	l1	l2	m	n	o	p1	p2	q	r	r1	s	t	u	w	x	y	z
K03-TD	9.49	10.55	5.79	1.69	4.09	9.06	8.07	1" 1/4 NPT	4.09	1.69	0.39	3.27	5.59	8.19	8.46	0.71	2.95	0.51	0.16	M6	5.51	7.40	7.09	5.75	0.47
K04-TD	11.22	12.40	6.77	1.93	4.76	10.04	8.86	1" 1/2 NPT	4.84	2.01	0.47	3.74	6.73	12.44	10.00	0.71	2.76	0.59	0.16	M6	6.89	7.40	8.43	6.81	0.71
K05-TD	12.87	14.37	7.87	2.13	5.51	12.60	10.24	2" NPT	5.71	2.36	0.59	4.53	10.43	16.85	13.39	0.71	3.86	1.57	0.16	M8	7.87	11.26	11.54	8.11	0.75
K06-TD	14.80	16.54	9.13	2.32	6.69	12.80	11.42	2" NPT	5.94	2.87	0.59	5.51	10.43	19.92	13.94	0.71	5.35	0.75	0.16	M8	9.45	11.26	12.13	8.27	0.75

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H	Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K03-TD	52	43	1 1/2	1 1/2	90	120	68.0	66.0	14.87	49.60
K04-TD	99	82	2	2	70	95	71.0	69.0	17.26	62.83
			3	3	130	160	72.0	70.0	17.26	69.44
K05-TD	153	127	3	3	70	95	73.0	71.0	17.45	84.88
			4	4	105	135	74.5	72.5	18.64	88.18
			5 1/2	5 1/2	150	190	76.0	74.0	18.64	92.59
K06-TD	222	184	5 1/2	5 1/2	80	120	75.0	73.0	18.98	103.62
			7 1/2	7 1/2	125	140	76.0	74.0	22.60	139.99
			10	10	180	200	77.0	75.0	22.60	148.81

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

**FPZ, Inc**

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REGENERATIVE BLOWERS - PRESSURE

SCL K07 / K08 / K09 / K10 / K11 / K12**TD SERIES**

SN 1830-9 1/2

TECHNICAL CHARACTERISTICS

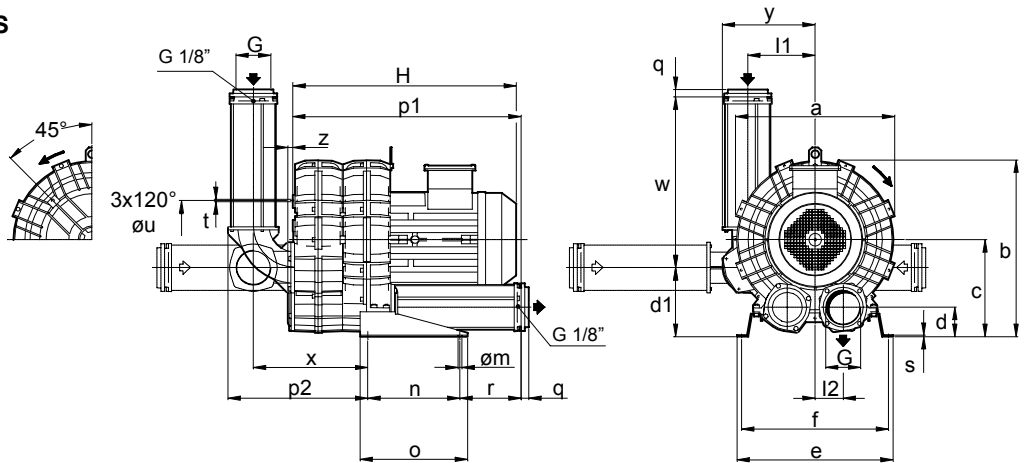
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor
- G1/8" female thread on both suction and discharge silencer port flanges

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



See page 74 for alternative mounting positions.

Dimensions in inches.

Dimension for reference only.

Model	a	b	c	d	d1	e	f	G	l1	l2	m	n	o	p1	p2	q	r	s	t	u	w	x	y	z
K07-TD	16.69	18.94	10.59	3.23	7.56	18.43	17.24	3"NPT	7.36	3.05	0.51	11.81	13.78	25.55	15.43	0.98	5.39	0.20	M8	11.61	18.94	12.56	10.24	0.63
K08-TD	17.99	19.61	10.59	3.23	7.56	18.82	17.64	3"NPT	7.36	3.05	0.51	11.81	13.78	25.55	15.43	0.98	5.39	0.20	M8	12.20	18.94	12.56	10.24	0.63
K09-TD	19.37	22.09	12.4	3.78	8.86	20.00	18.82	4"NPT	8.66	3.58	0.51	11.81	13.78	29.33	17.91	0.98	7.83	0.20	M8	14.17	21.89	14.65	11.89	0.63
K10-TD	20.31	22.56	12.4	3.78	8.86	20.00	18.82	4"NPT	8.66	3.58	0.51	11.81	13.78	29.33	17.91	0.98	7.83	0.20	M8	14.17	21.89	14.65	11.89	0.63
K11-TD	21.26	23.70	13.07	3.54	9.13	21.18	20.00	4"NPT	9.53	3.94	0.51	11.81	13.78	30.12	18.50	0.98	8.03	0.20	M8	15.35	21.89	15.24	12.76	0.63
K12-TD	21.57	23.81	13.07	3.54	9.13	21.18	20.00	4"NPT	9.53	3.94	0.51	11.81	13.78	30.23	18.50	0.98	8.03	0.20	M8	15.35	21.89	15.24	12.76	0.63

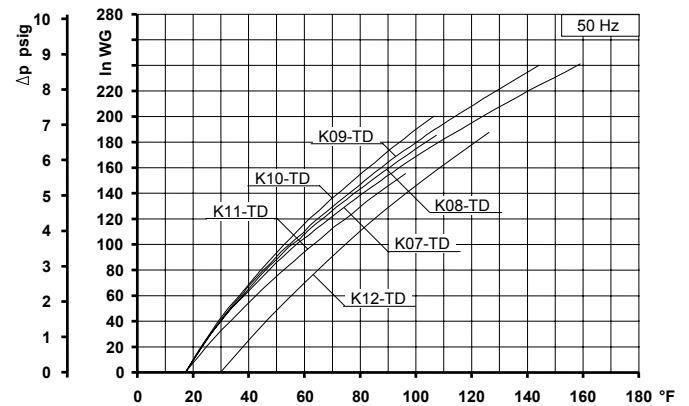
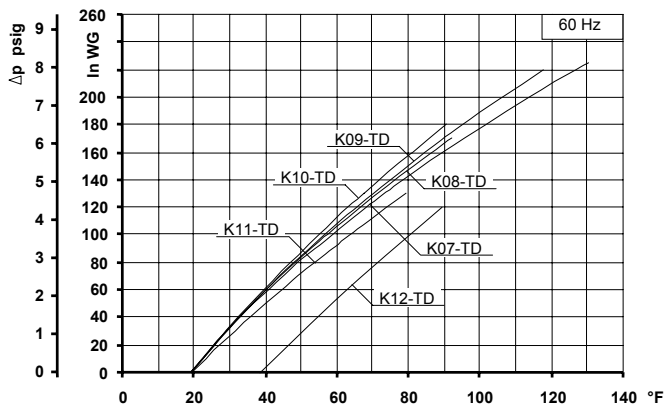
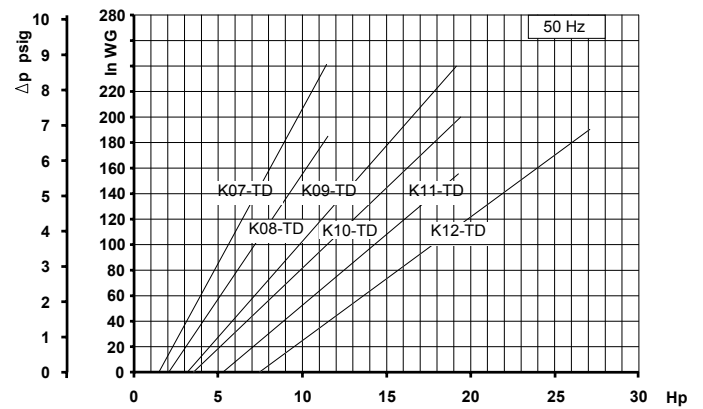
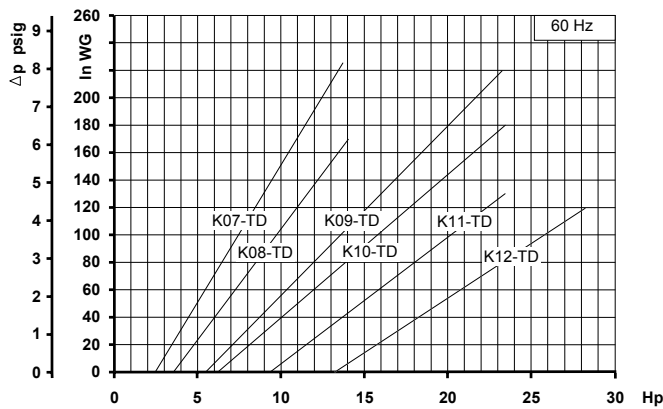
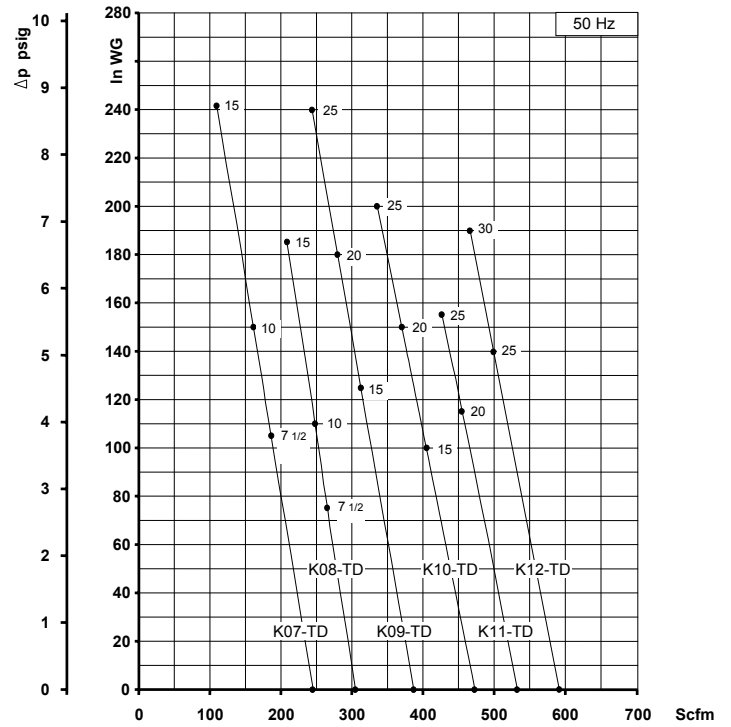
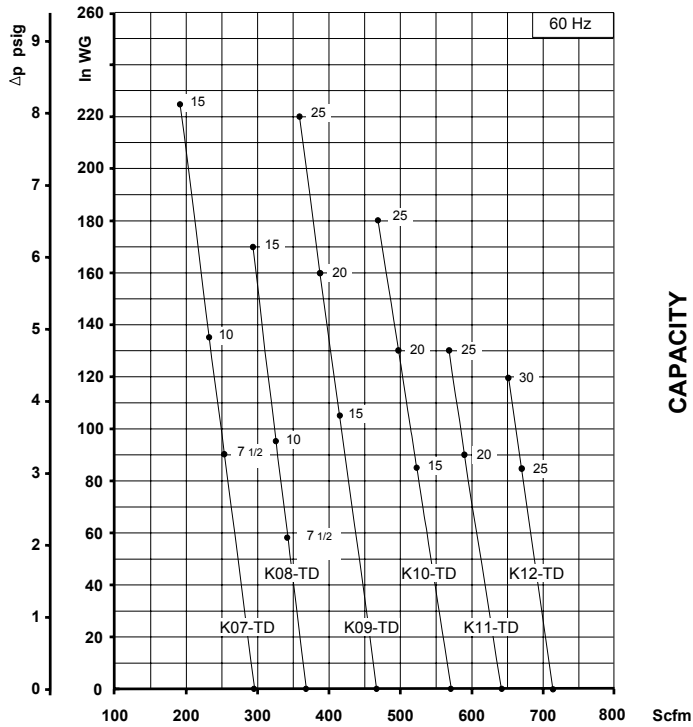
Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K07-TD	296	245	7 1/2	7 1/2	90	105	80.9	78.9	23.76	194.00
			10	10	135	150	81.2	79.2	23.76	202.82
			15	15	225	241	81.8	79.8	24.55	220.46
K08-TD	368	305	7 1/2	7 1/2	58	75	80.1	78.1	23.76	202.16
			10	10	95	110	80.4	78.4	23.76	210.98
			15	15	170	185	81.5	79.5	24.55	228.62
K09-TD	467	387	15	15	105	125	82.7	80.7	25.81	222.66
			20	20	160	180	83.0	81.0	29.92	347.22
			25	25	220	240	83.3	81.3	30.79	380.29
K10-TD	571	473	15	15	85	100	86.6	84.6	25.81	271.17
			20	20	130	150	86.9	84.9	29.92	351.63
			25	25	180	200	87.2	85.2	30.79	384.70
K11-TD	642	532	20	20	90	115	87.4	85.4	31.38	392.64
			25	25	130	155	87.9	85.9	31.38	425.71
K12-TD	716	593	25	25	85	140	88.2	86.2	31.50	423.50
			30	30	120	190	88.7	86.7	31.50	429.00

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



REGENERATIVE BLOWERS - **PRESSURE** 19 **SCL K07 / K08 / K09 / K10 / K11 / K12** **TD SERIES** SN 1830-9 2/2



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.

**FPZ, Inc**

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REGENERATIVE BLOWERS - PRESSURE

SCL K09 / K10 / K11**TT SERIES - GOR RANGE**

SN 2778-1 1/2

TECHNICAL CHARACTERISTICS

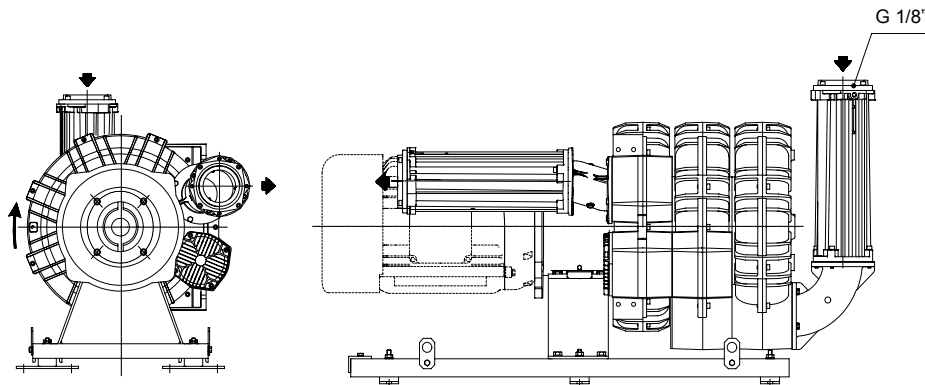
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- G1/8" female thread on both suction and discharge silencer port flanges

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Optional connectors



For dimensions, please refer to drw:

SI 2180

Model	Maximum flow Scfm		Installed power Hp	Size	Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Weight (2) Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm			60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	
K09-TT	423	351	25	NEMA 284-6TSC	-	260	-	85.9	354
			30		220	330	88.2	86.2	
			40	NEMA 324-6TSC	330	-	88.5	-	363
K10-TT	526	436	30	NEMA 284-6TSC	-	260	-	86.5	365
			40	NEMA 324-6TSC	260	340	88.8	86.8	380
			50		340	-	89.1	-	
K11-TT	597	495	40	NEMA 324-6TSC	220	300	89.1	87.1	434
			50		320	350	89.5	87.5	

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) Value is referred to weight of the machine without electric motor

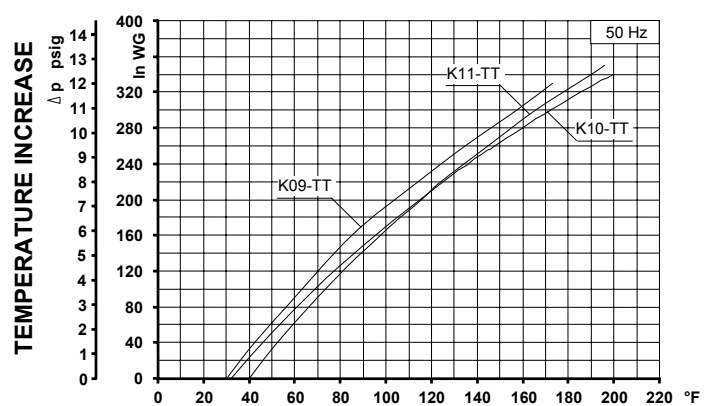
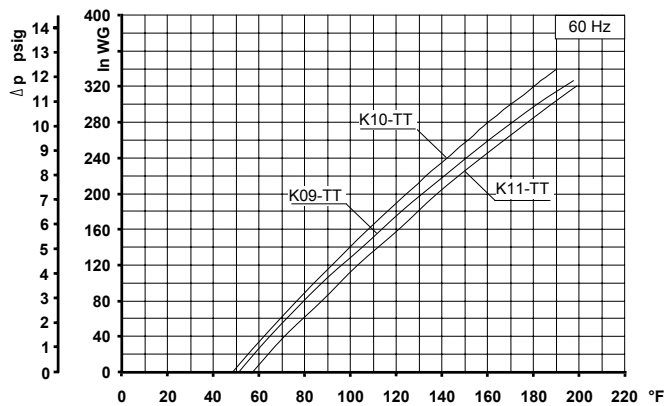
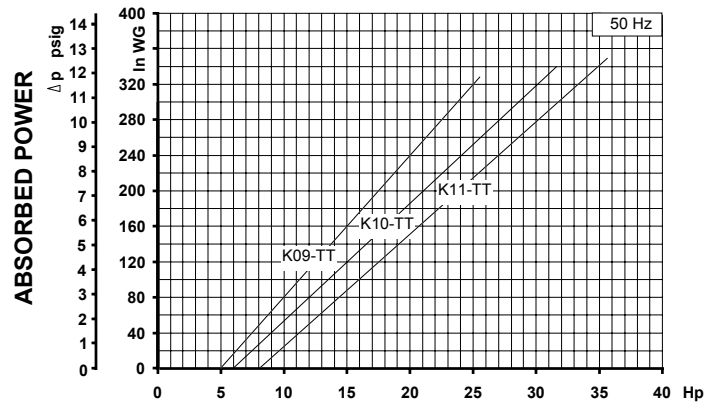
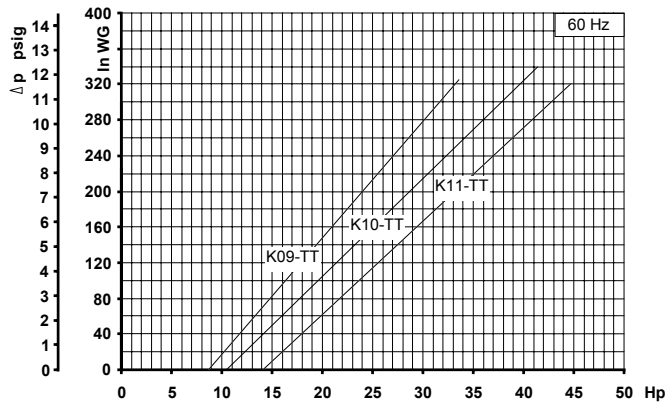
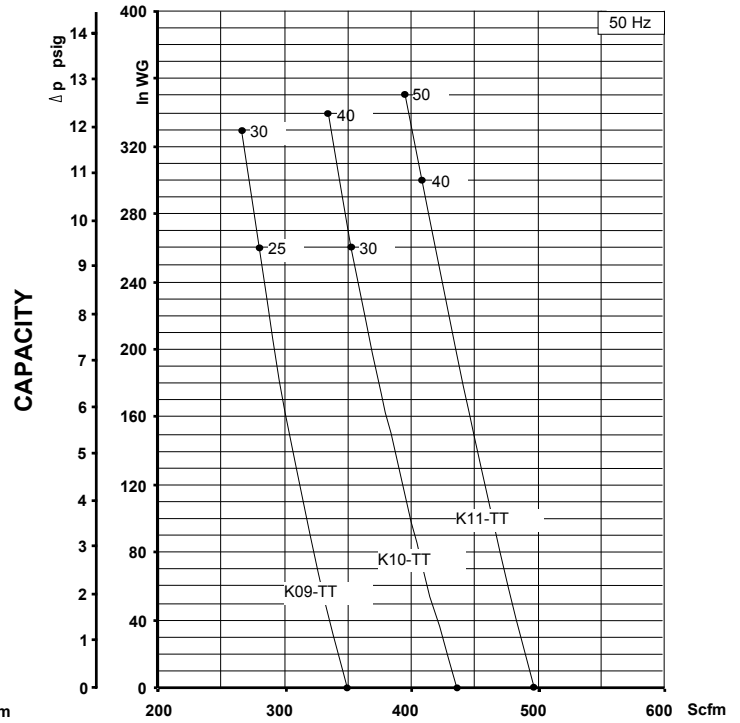
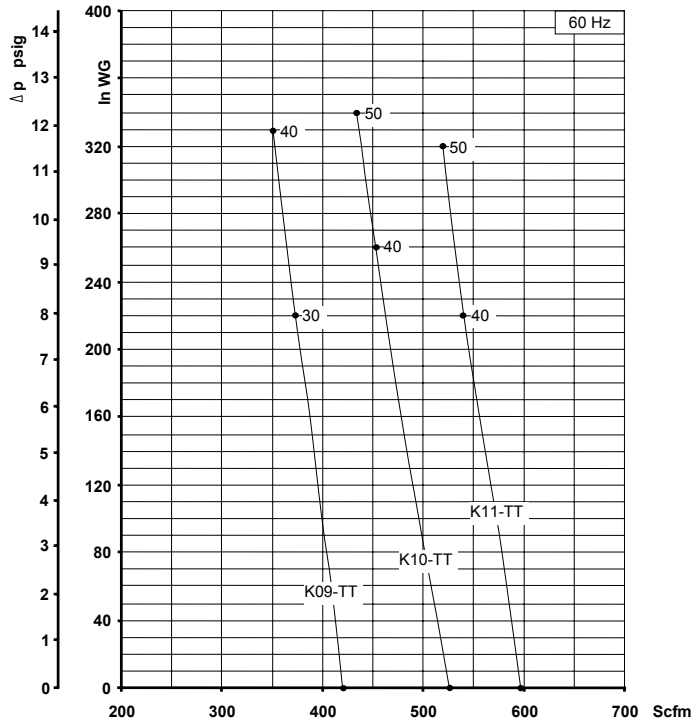
- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



SCL K09 / K10 / K11

TT SERIES - GOR RANGE

SN 2778-1 2/2



- Curves refer to air at 68 $^{\circ}$ F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
- Values for flow, power consumption and temperature rise: +/-10% tolerance.
- Data subject to change without notice.

**STANDARD FEATURES**

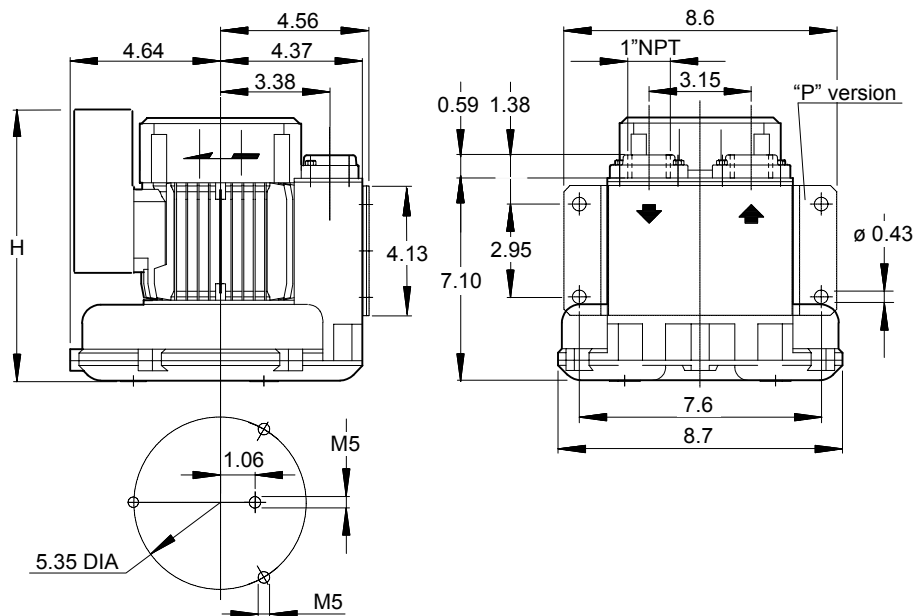
- Low weight cast aluminum construction.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC - **cURus** motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optional connectors

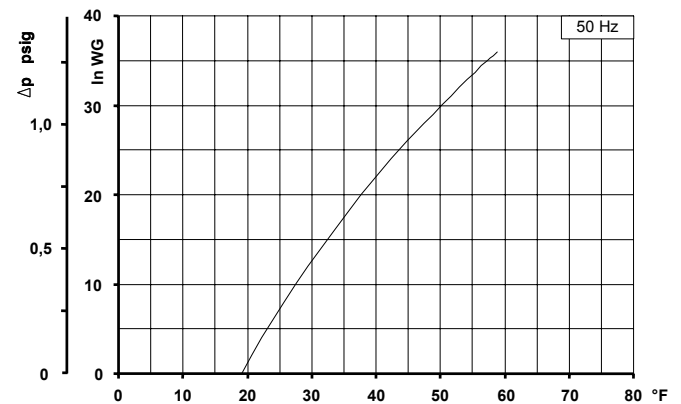
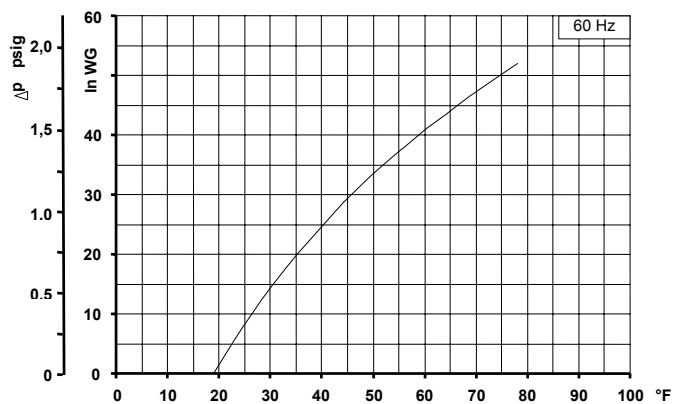
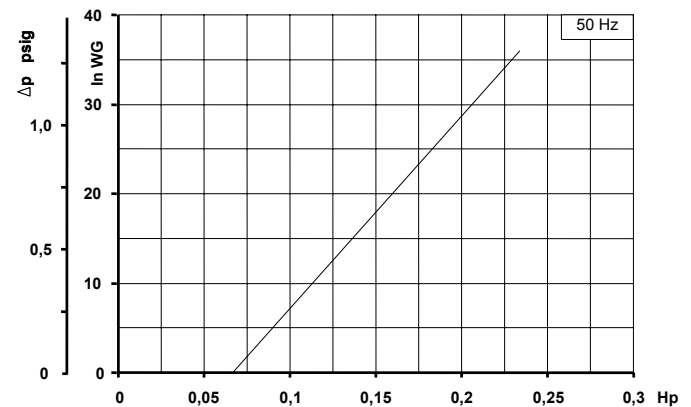
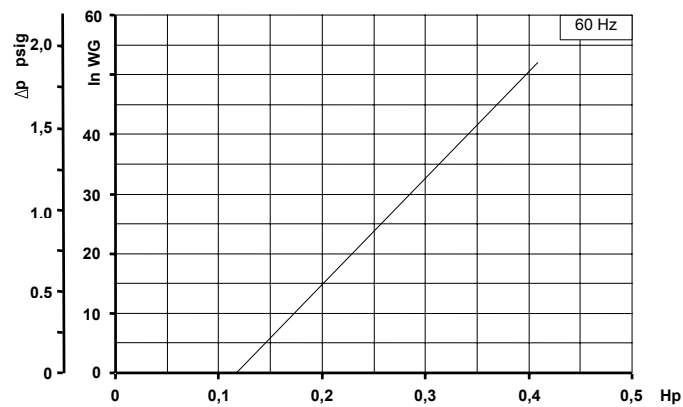
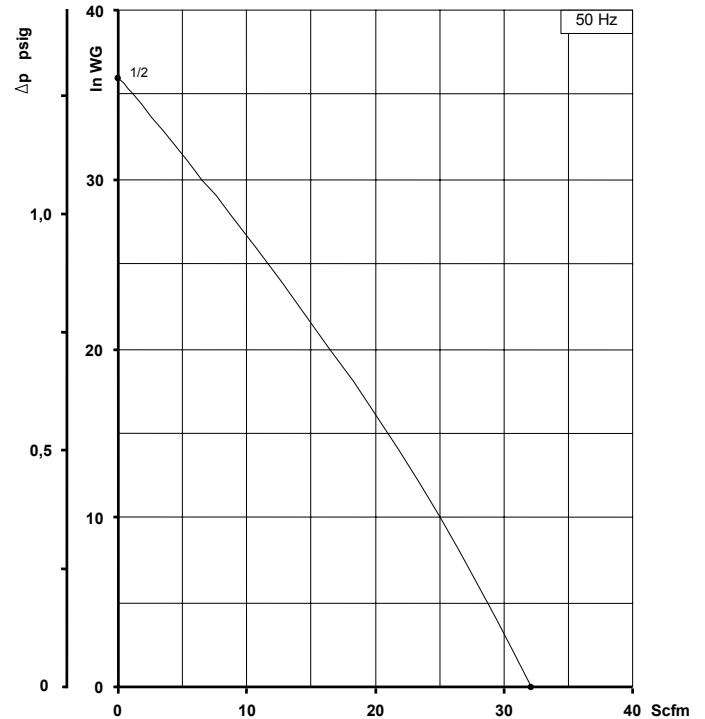
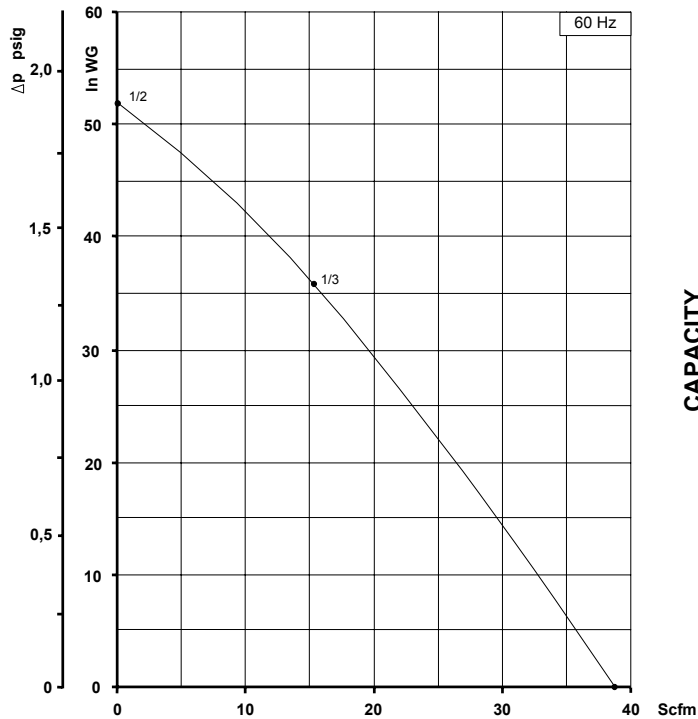


Dimensions in inches.
Dimension for reference only.

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
06	39	32	1/3	-	36	-	58.7	-	10.60	18.30
			1/2	1/2	52	36	59.0	58.0	10.60	18.50

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

**STANDARD FEATURES**

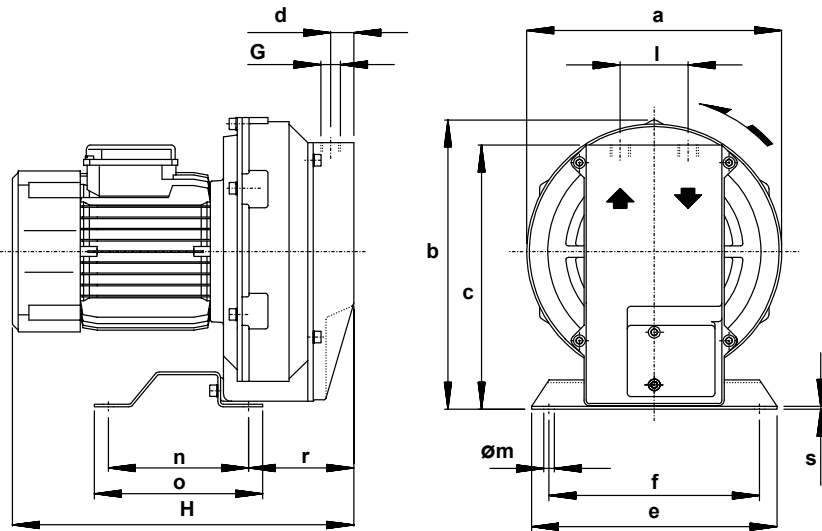
- Low weight cast aluminum construction.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC - **cURus** motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Remote drive models (belt or coupling).
- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optionals connectors



Dimensions in inches.
Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	r	s
10DL	8.66	10.08	9.06	0.91	8.27	7.09	1/2" NPT	2.28	0.35	4.72	5.67	3.54	0.10
15DH	9.84	11.26	10.16	1.18	8.27	7.09	3/4" NPT	2.52	0.35	4.72	5.67	4.72	0.10

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H	Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
10DL	21	18	1/3	1/3	60	65	63.7	61.7	12.20	21.80
			1/2	1/2	96	73	64.0	62.0	12.76	23.50
15DH	35	29	3/4	3/4	98	105	63.7	61.7	14.25	32.50
			1	1	120.5	120.5	64.0	62.0	15.75	40.00

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

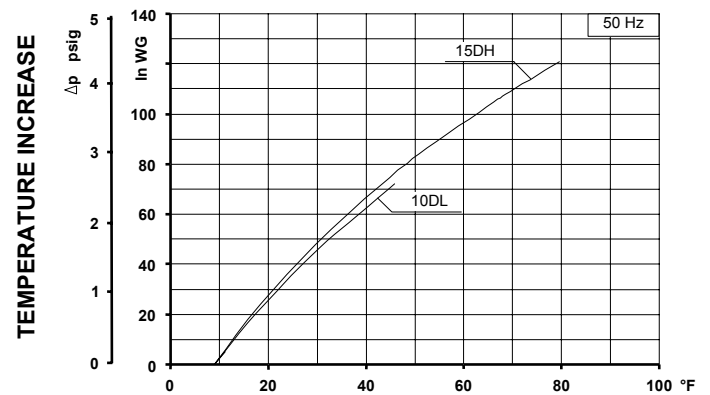
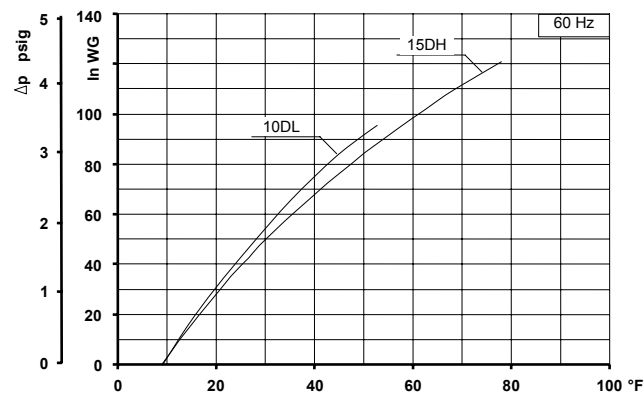
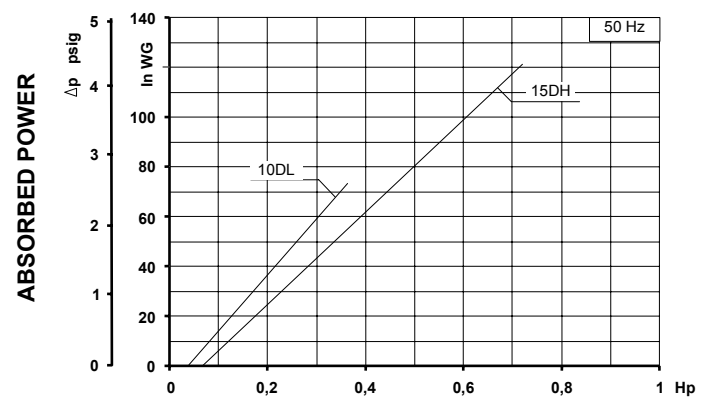
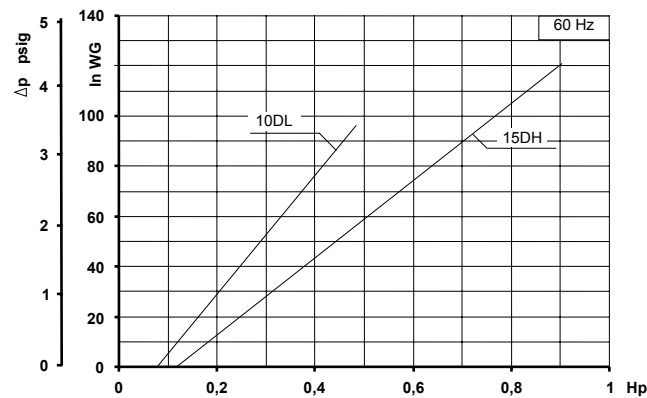
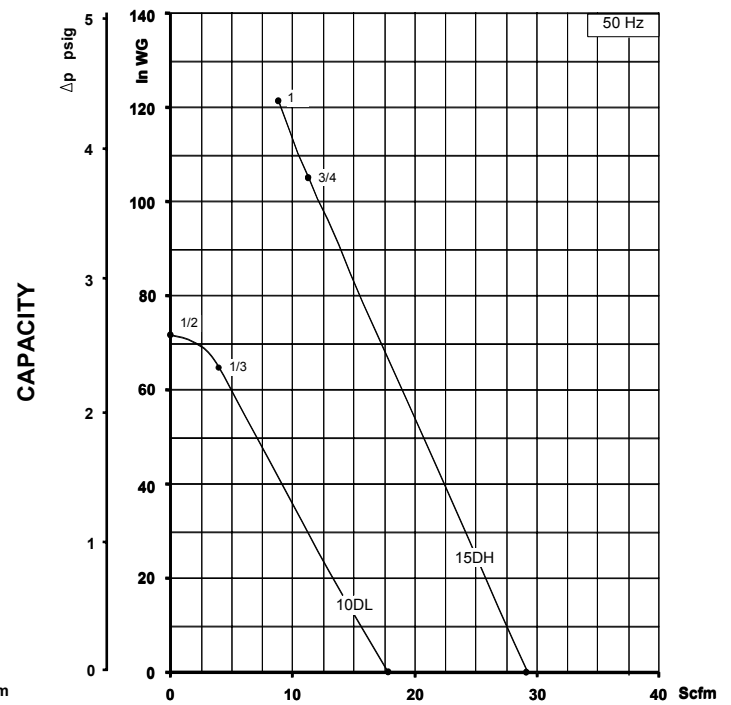
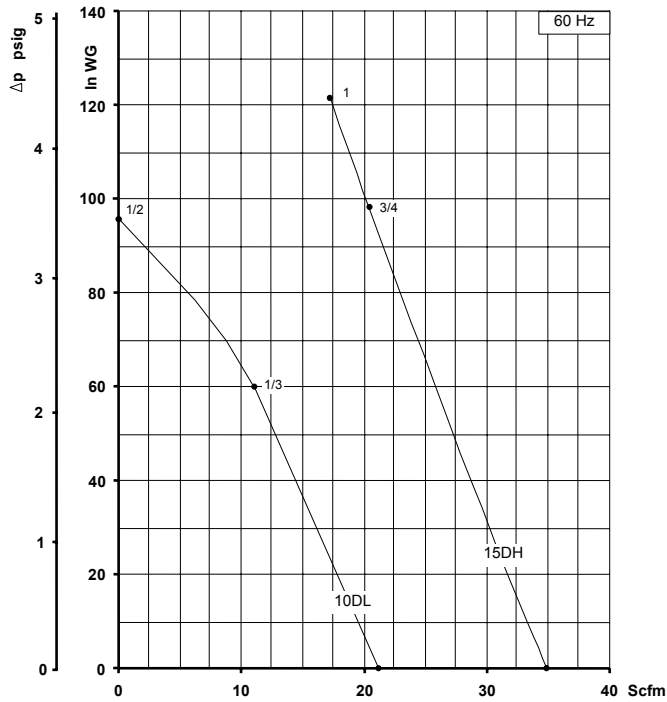
- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



SCL 10DL / 15DH

DH SERIES

SN 2197-2 2/2



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

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REGENERATIVE BLOWERS - PRESSURE

SCL 20DH / 30DH / 40DH**DH SERIES**

SN 2464-2 1/2

STANDARD FEATURES

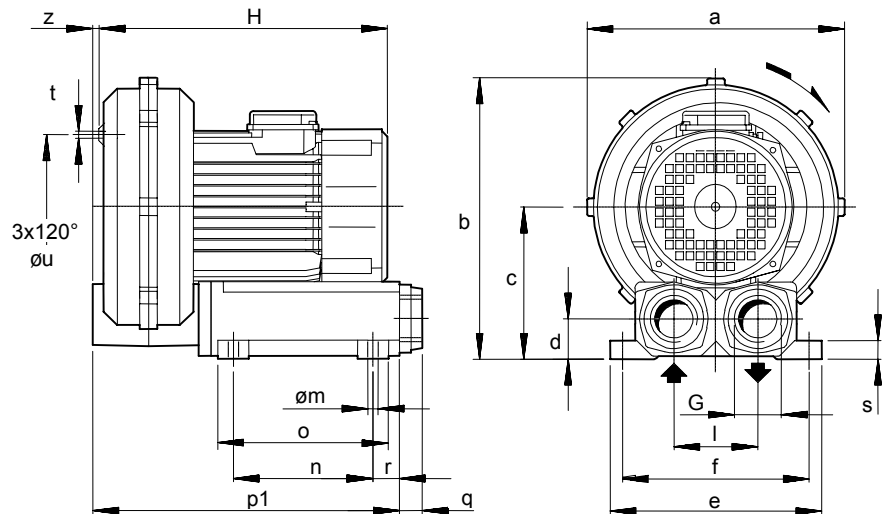
- Low weight cast aluminum construction.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC - **cURus** motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Remote drive models (belt or coupling).
- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optionals connectors



Dimensions in inches.

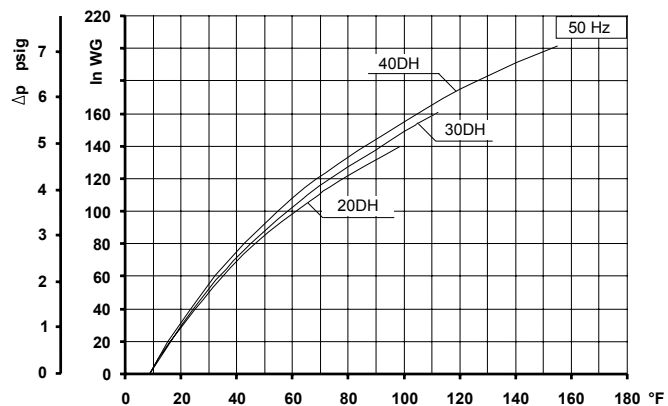
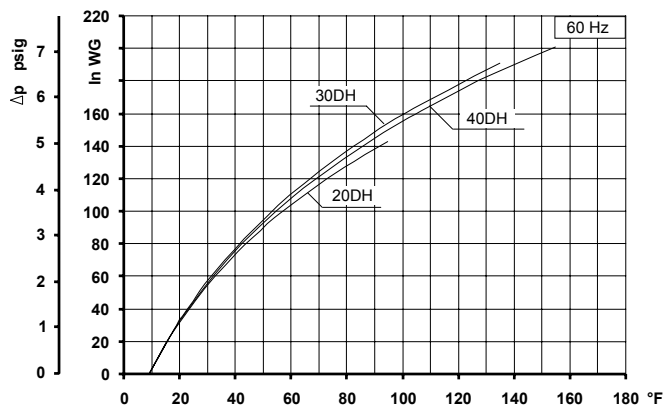
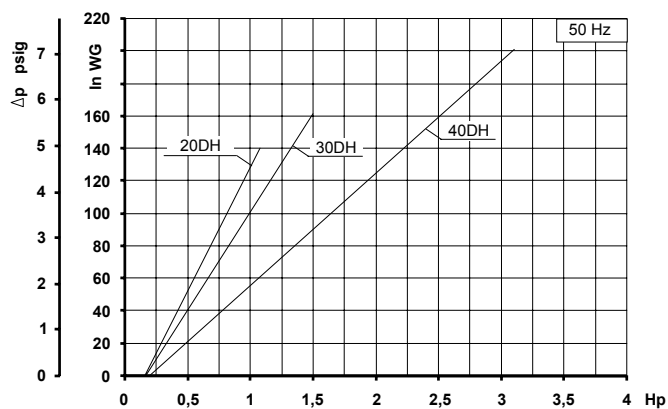
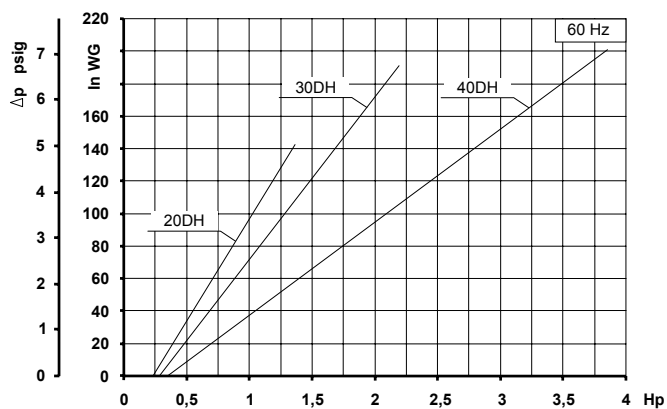
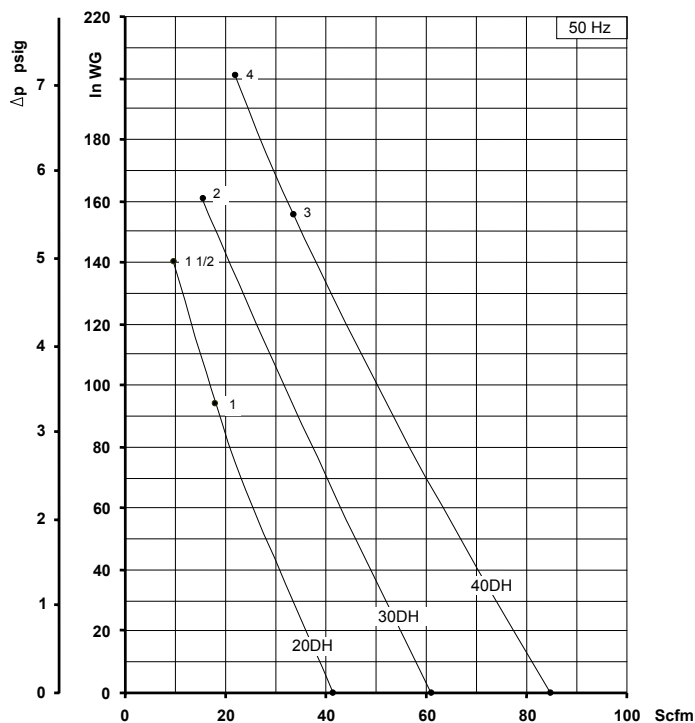
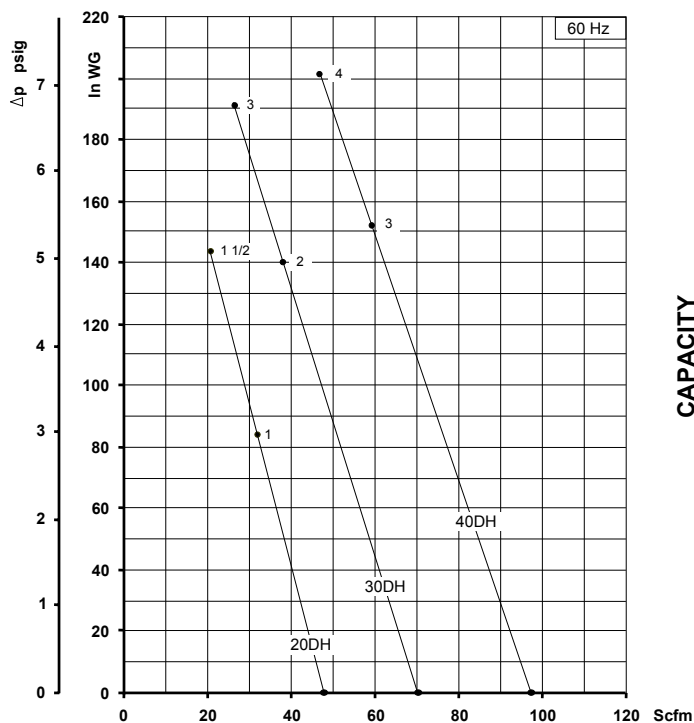
Dimension for reference only.

Model	a	b	c	d	e	f	G	I	m	n	o	p1	q	r	s	t	u	z
20DH	11.42	12.20	6.50	1.77	9.06	8.27	1" ¼ NPT	3.54	0.39	5.90	7.67	13.98	0.71	1.77	0.79	M6	5.91	0.31
30DH	12.60	13.66	7.36	2.09	10.63	9.64	1" ½ NPT	4.13	0.39	7.28	9.25	16.54	0.71	2.17	0.79	M6	7.09	0.67
40DH	13.78	14.57	7.68	2.09	10.63	9.65	1" ½ NPT	4.13	0.39	7.28	9.25	17.32	0.71	2.17	0.79	M8	8.86	-

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H	Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
20DH	48	42	1	1	84	94	67.7	64.7	13.78	44.00
			1 ½	1 ½	143	140	68.0	65.0	13.78	47.30
30DH	70	61	2	2	140	161	69.7	67.7	15.36	58.30
			3	-	191	-	70.0	68.0	15.36	64.90
40DH	98	85	3	3	151	156	74.7	71.7	16.93	75.00
			4	4	201	201	75.0	72.0	16.93	83.80

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68 $^{\circ}$ F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: $\pm$ 10% tolerance.
Data subject to change without notice.



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STANDARD FEATURES

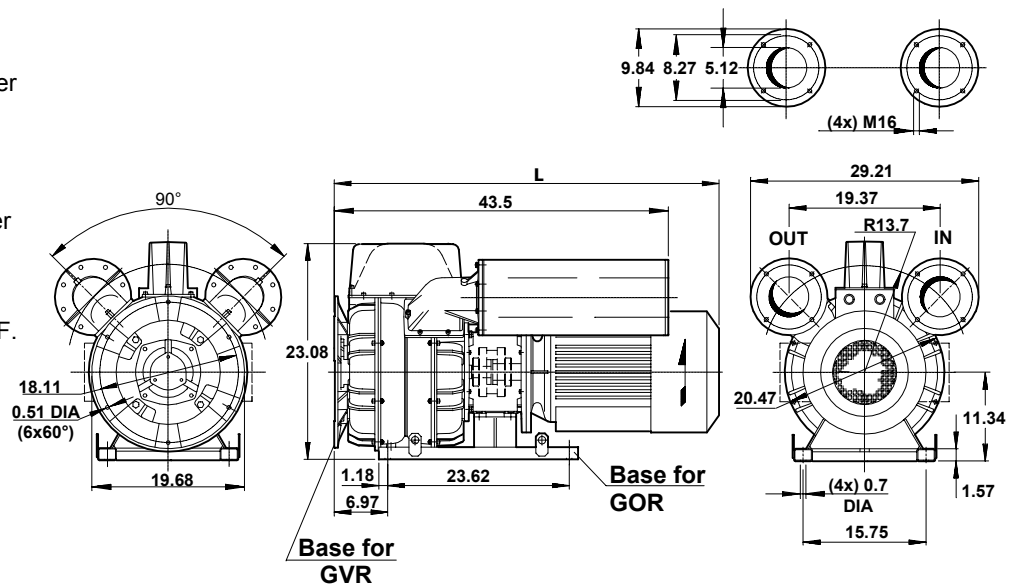
- Low weight cast aluminum impeller and cast iron casing.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optional connectors



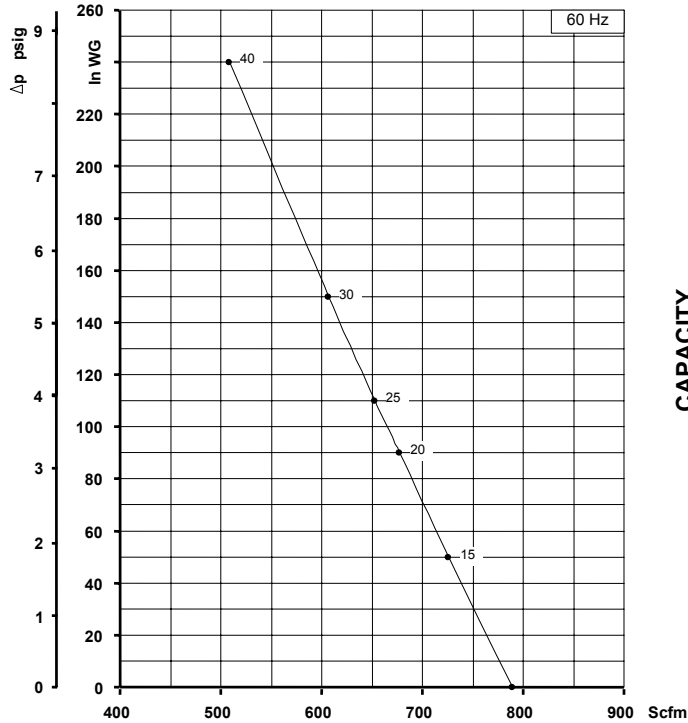
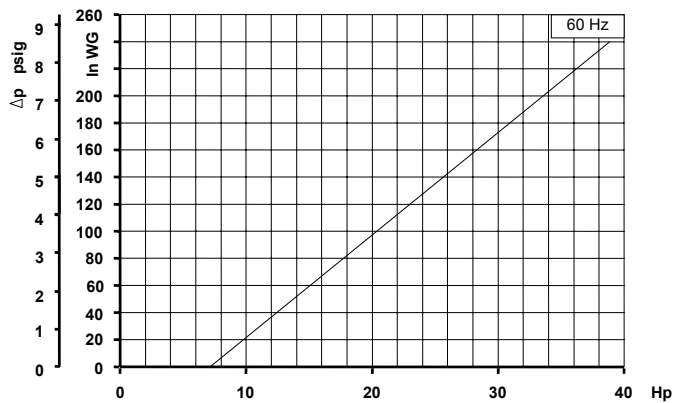
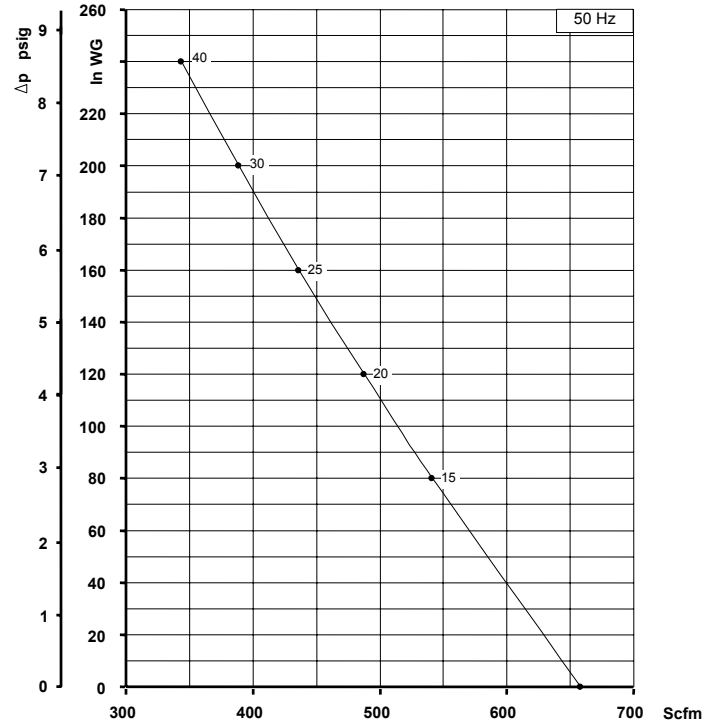
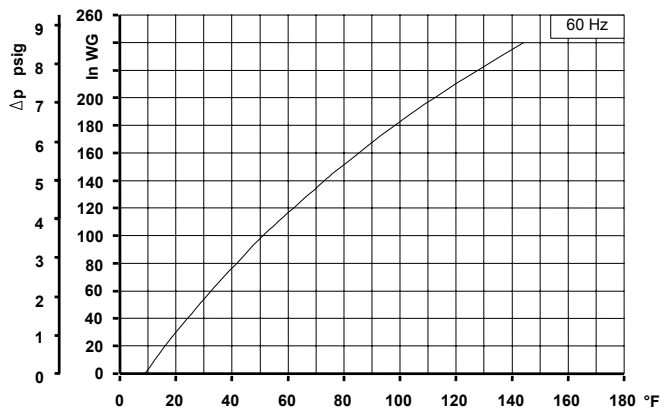
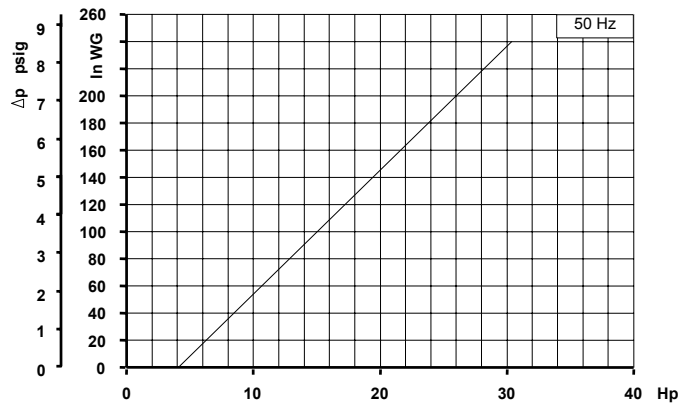
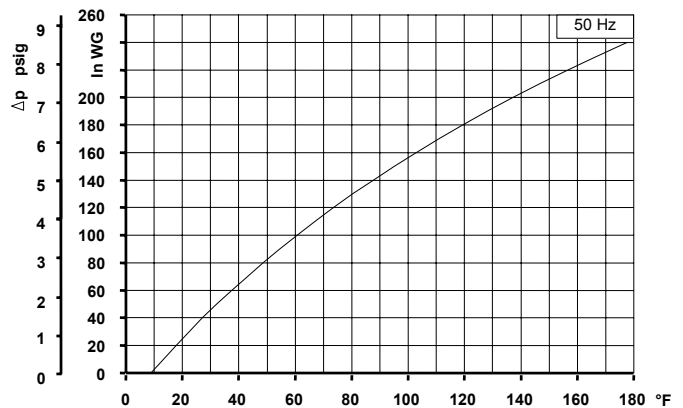
Dimensions in inches.
 Dimension for reference only.

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs (2)	
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		GOR	GVR
115DH	790	659	15	15	50	80	96.8	93.8	47.25	507	447
			20	20	90	120	97.1	94.1	47.25	507	447
			25	25	110	160	97.4	94.4	47.25	507	447
			30	30	150	200	97.7	94.7	49.41	507	447
			40	40	240	240	98.0	95.0	50.78	509	449

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) Value is referred to weight of the machine without electric motor.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.

**CAPACITY****ABSORBED POWER****TEMPERATURE INCREASE**

Curves refer to air at 68 $^{\circ}$ F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

**STANDARD FEATURES**

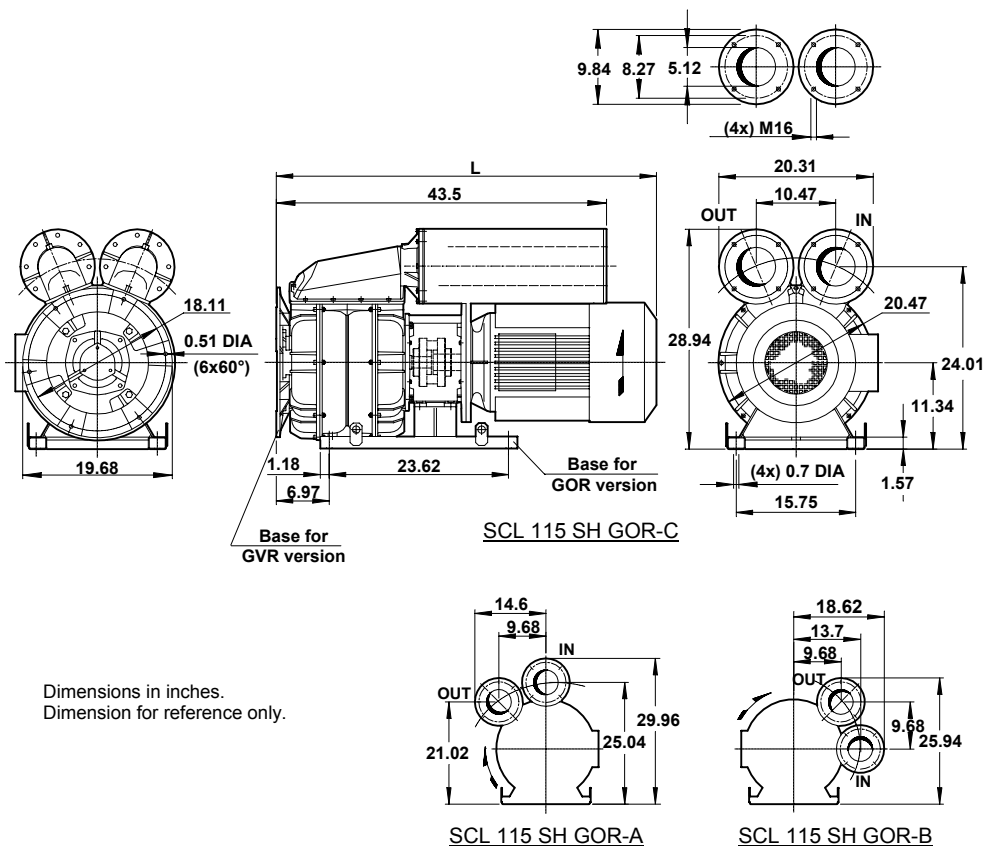
- Low weight cast aluminum impeller and cast iron casing.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optional connectors

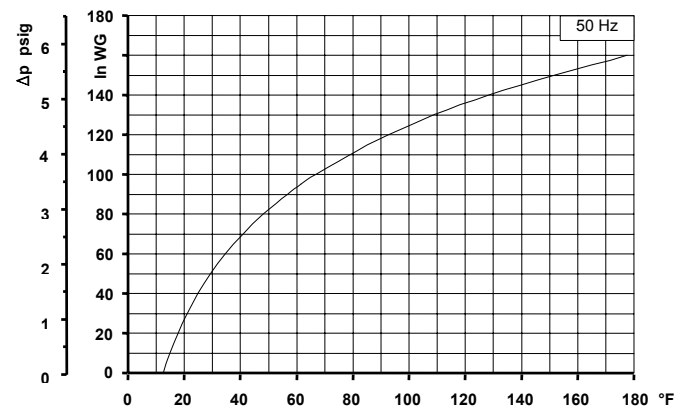
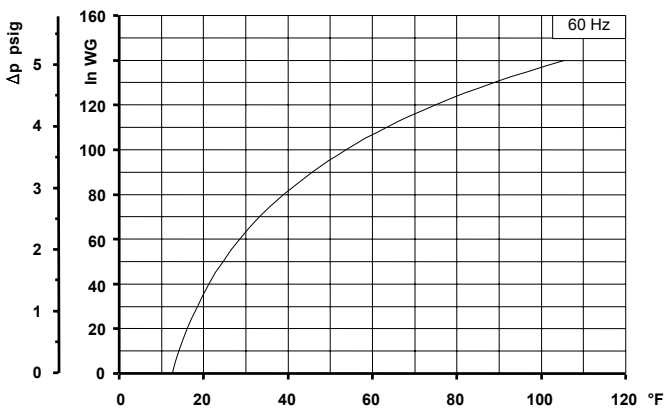
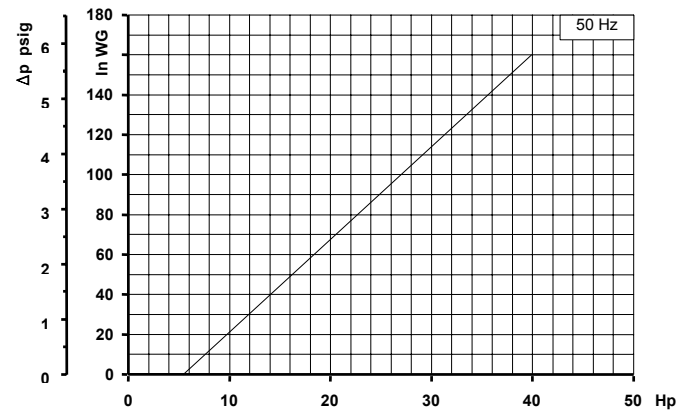
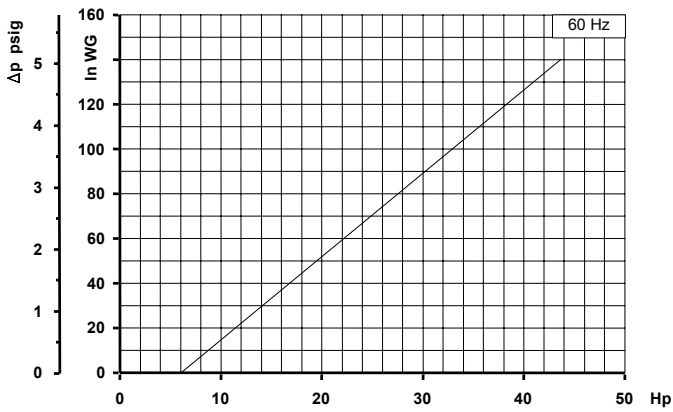
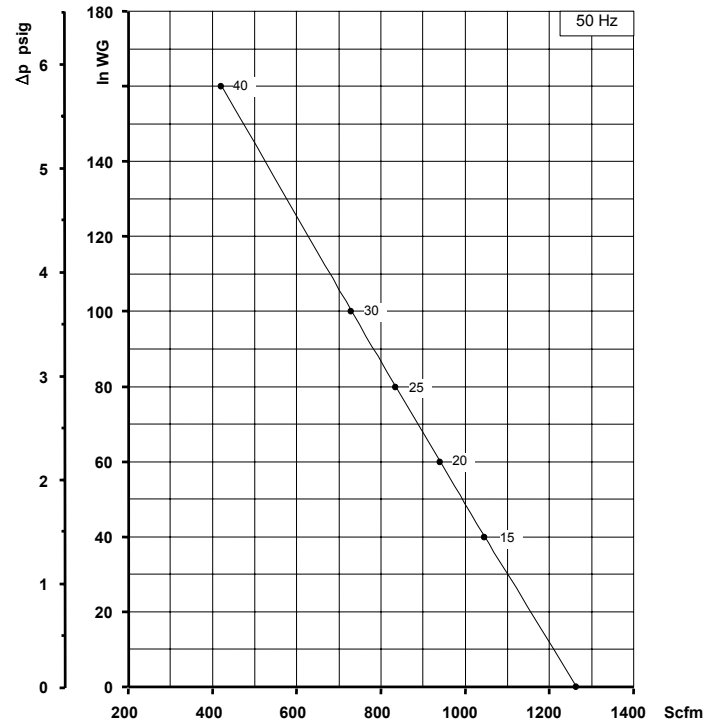
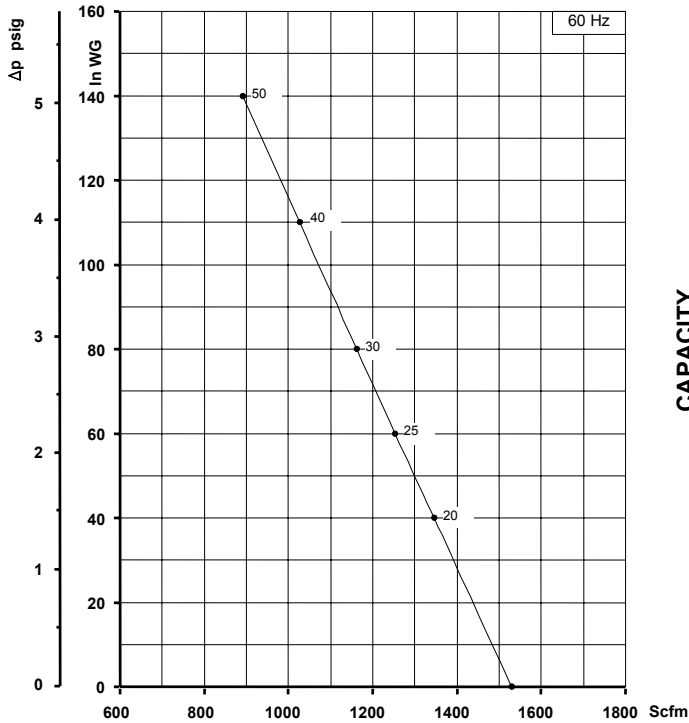


Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs (2)	
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		GOR	GVR
115SH	1530	1265	-	15	-	40	-	93.8	47.25	500	440
			20	20	40	60	96.8	94.1	47.25	500	440
			25	25	60	80	97.1	94.4	47.25	500	440
			30	30	80	100	97.4	94.7	49.41	500	440
			40	40	110	160	97.7	95.0	50.78	502	442
			50	-	140	-	98.0	-	51.77	502	442

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) Value is referred to weight of the machine without electric motor.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68 $^{\circ}\text{F}$ temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

**FPZ, Inc**

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REGENERATIVE BLOWERS - VACUUM

SCL K03 / K04 / K05 / K06**MS SERIES**

SN 1879-8 1/2

TECHNICAL CHARACTERISTICS

- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

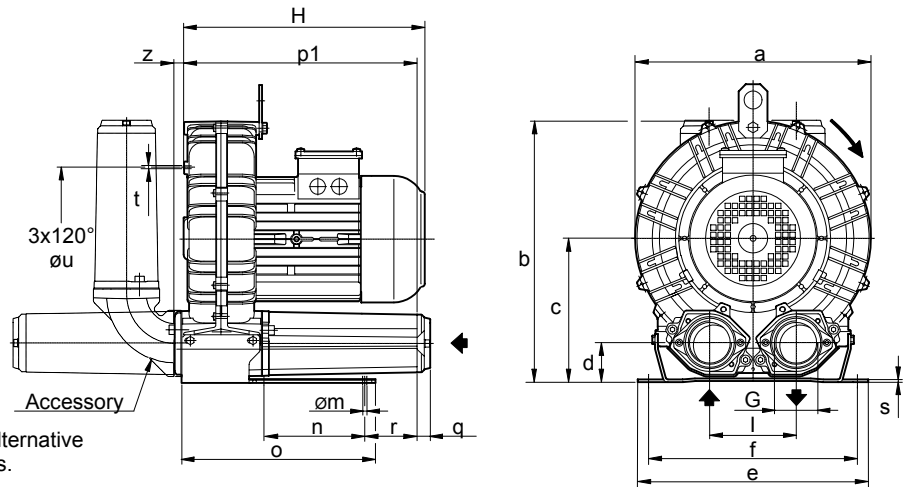
- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors

Dimensions in inches.
Dimension for reference only.

See page 68 for alternative
mounting positions.



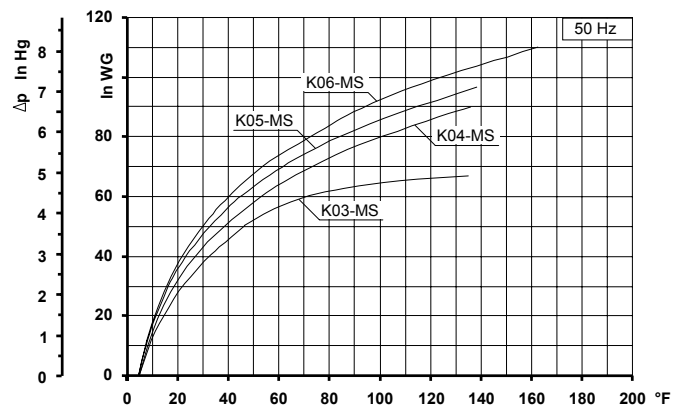
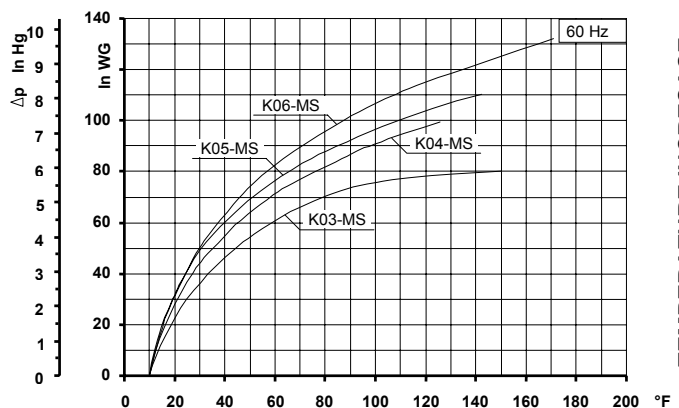
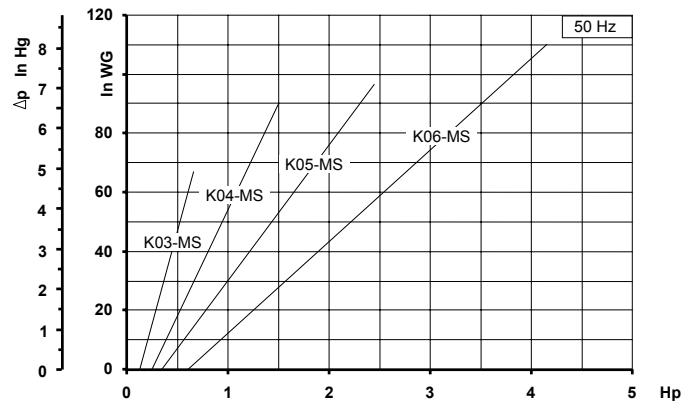
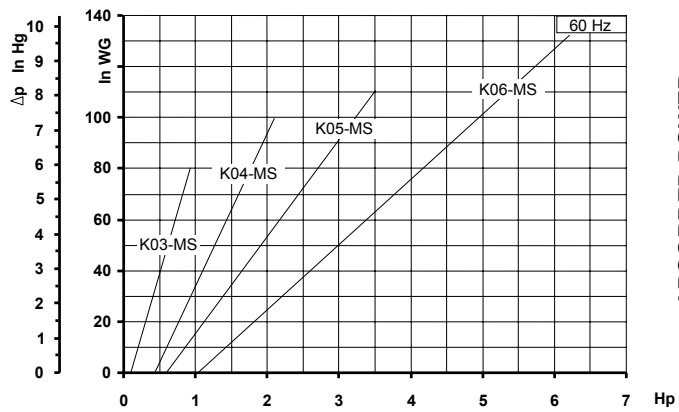
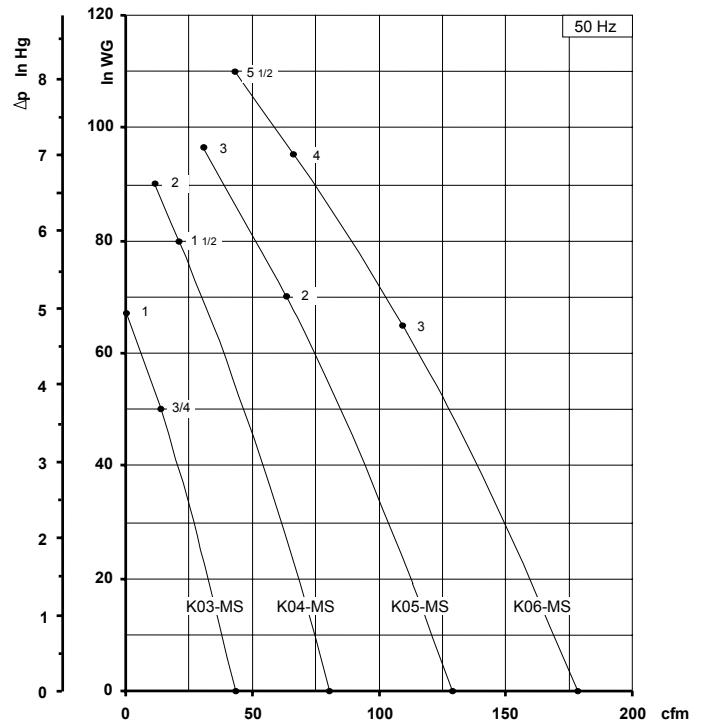
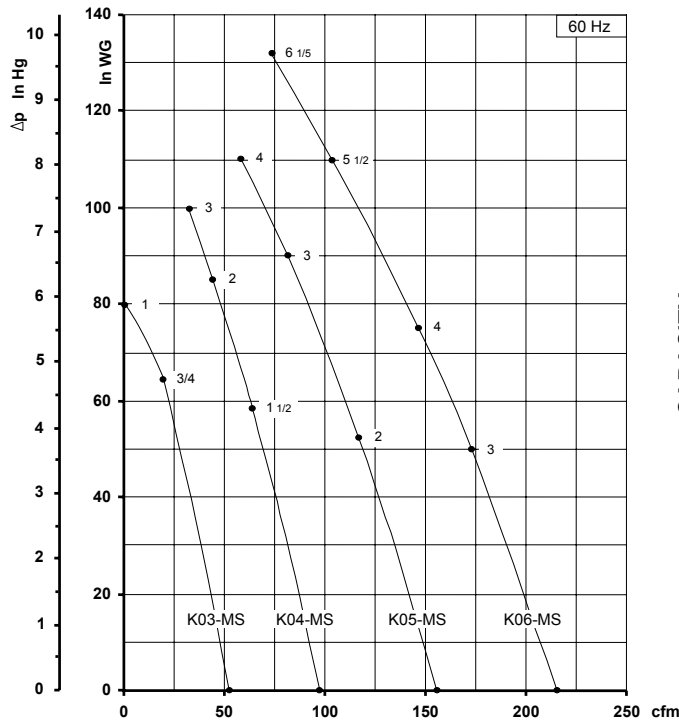
Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K03-MS	9.49	10.55	5.79	1.69	9.06	8.07	1" 1/4 NPT	3.39	0.39	3.27	5.59	8.07	0.71	2.95	0.16	M6	5.51	0.47
K04-MS	11.22	12.40	6.77	1.93	10.04	8.86	1" 1/2 NPT	4.02	0.47	3.74	6.73	8.74	0.71	2.76	0.16	M6	6.89	0.71
K05-MS	12.87	14.37	7.87	2.13	12.60	10.24	2" NPT	4.72	0.59	4.53	10.43	12.60	0.71	3.86	0.16	M8	7.87	0.75
K06-MS	14.80	15.47	8.07	2.13	12.80	11.42	2" NPT	4.92	0.59	5.51	10.71	13.15	0.71	3.35	0.16	M8	9.45	0.75

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K03-MS	52	43	3/4	3/4	4.7	3.7	61.0	59.0	10.43	24.30
			1	1	5.9	4.9	61.3	59.3	11.97	26.50
K04-MS	98	81	1 1/2	1 1/2	4.3	5.9	63.8	61.8	11.65	36.40
			2	2	6.3	6.6	64.0	62.0	13.78	43.00
			3	-	7.4	-	64.2	-	13.78	49.60
K05-MS	156	129	2	2	3.8	5.1	69.5	67.5	13.20	51.80
			3	3	6.6	7.1	69.8	67.8	13.20	58.40
			4	-	8.1	-	70.1	-	14.40	67.20
K06-MS	216	179	3	3	3.7	4.8	72.0	70.0	13.54	68.70
			4	4	5.5	7.0	72.3	70.3	14.17	71.65
			5 1/2	5 1/2	8.1	8.1	72.6	70.6	14.17	77.60
			6 1/5 (2)	-	9.6	-	72.9	-	14.45	77.60

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) No cURus motor

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.



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TECHNICAL CHARACTERISTICS

- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - cURus motor

OPTIONS

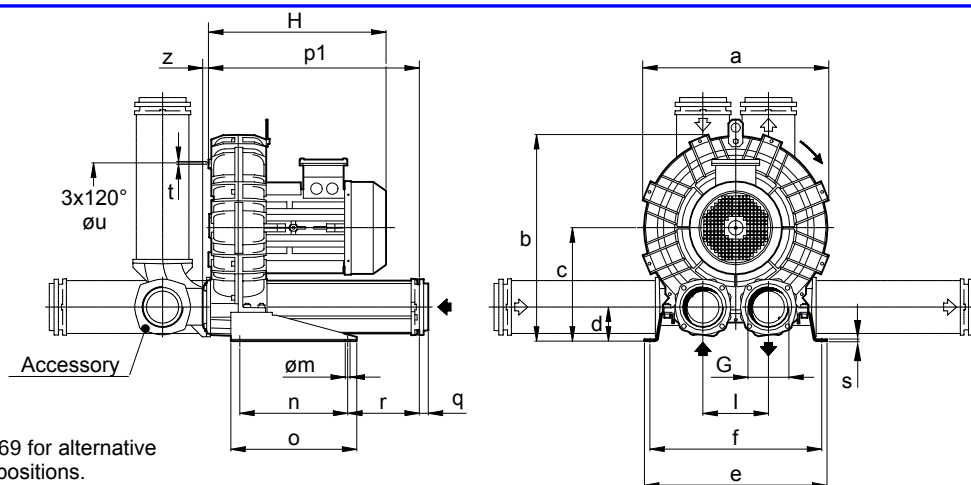
- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors

Dimensions in inches.
 Dimension for reference only.

See page 69 for alternative
 mounting positions.

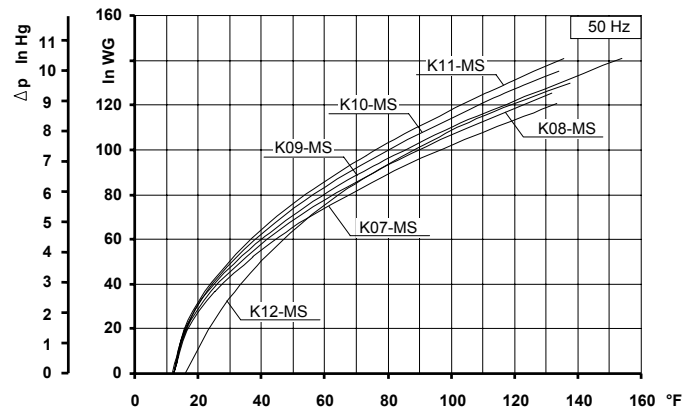
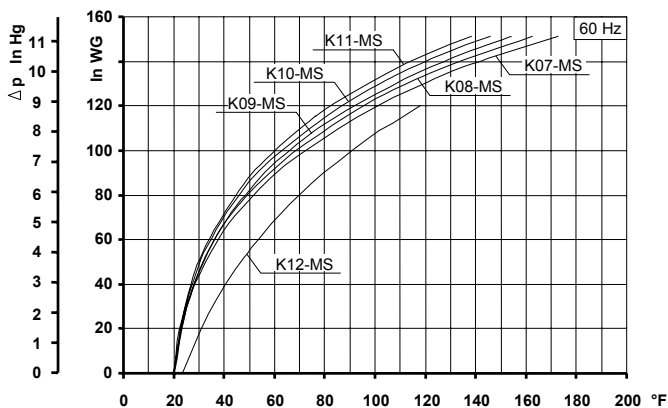
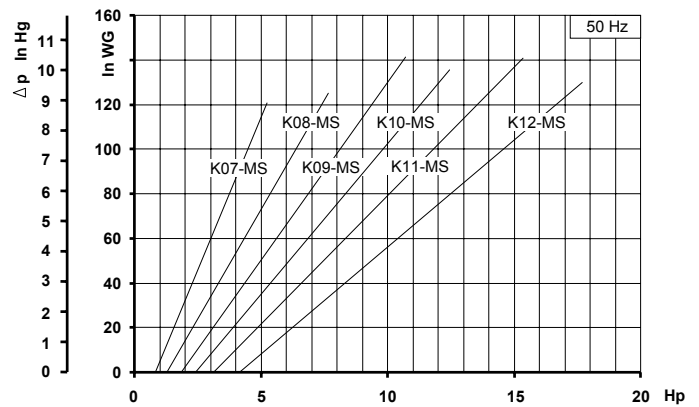
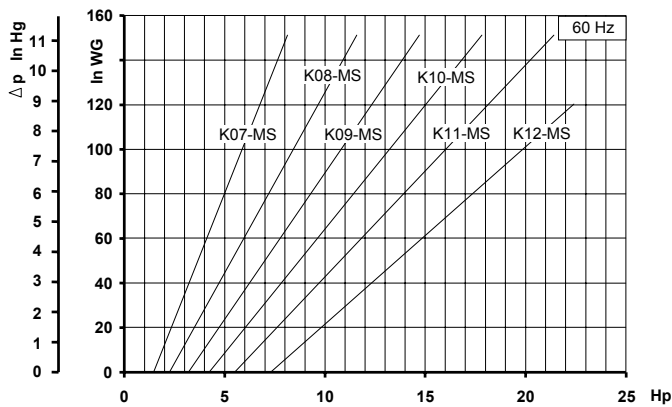
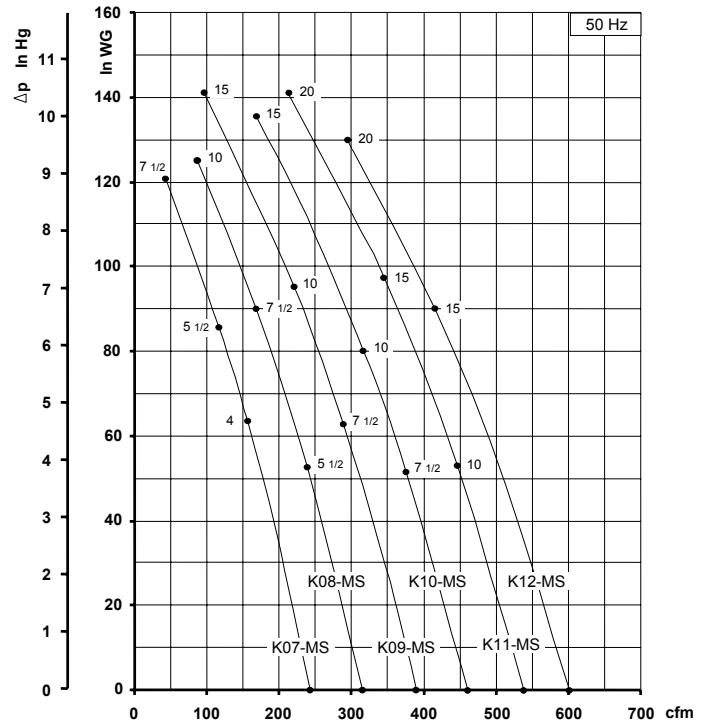
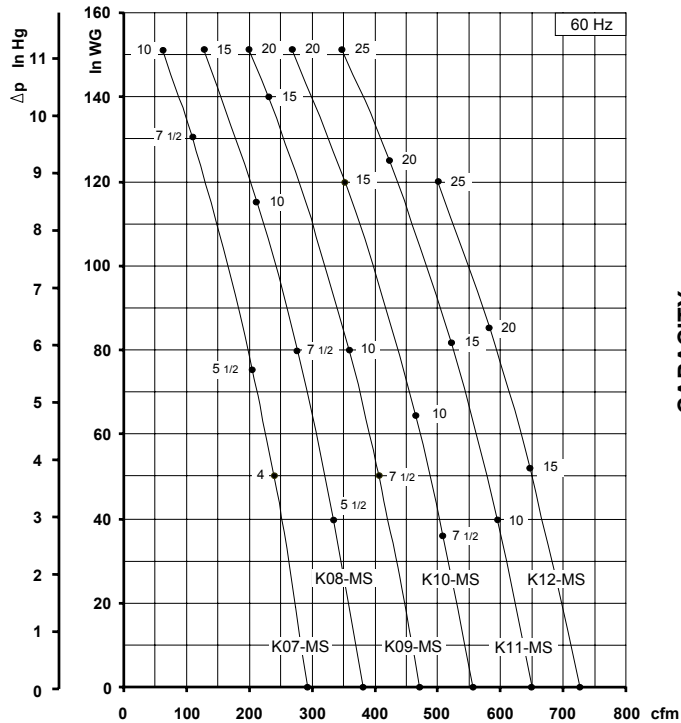


Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K07-MS	16.69	18.84	10.59	3.23	18.43	17.24	3" NPT	6.10	0.51	11.81	13.78	20.16	0.98	5.39	0.20	M8	11.61	0.63
K08-MS	17.99	19.61	10.59	3.23	18.82	17.64	3" NPT	6.10	0.51	11.81	13.78	20.16	0.98	5.39	0.20	M8	12.2	0.63
K09-MS	19.37	22.09	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	23.07	0.98	7.83	0.20	M8	14.17	0.63
K10-MS	20.31	22.56	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	23.07	0.98	7.83	0.20	M8	14.17	0.63
K11-MS	21.34	23.74	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78	23.46	0.98	8.03	0.20	M8	15.35	0.63
K12-MS	21.57	23.82	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78	23.58	0.98	8.03	0.20	M8	15.35	0.51

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H		Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	Inches	Lbs	
K07-MS	294	243	4	4	3.7	4.6	77.7	75.7	15.45	103.00	
			5 1/2	5 1/2	5.6	6.3	78.0	76.0	15.45	107.10	
			7 1/2	7 1/2	9.6	8.9	78.3	76.3	18.37	145.70	
			10	-	11.1	-	78.6	-	18.37	154.50	
K08-MS	381	316	5 1/2	5 1/2	2.9	3.8	78.8	76.8	15.45	115.70	
			7 1/2	7 1/2	5.9	6.6	79.1	77.1	18.37	154.30	
			10	10	8.5	9.2	79.4	77.4	18.37	163.10	
			15	-	11.1	-	79.7	-	19.15	184.00	
K09-MS	471	390	7 1/2	7 1/2	3.7	4.6	79.3	77.3	18.84	166.50	
			10	10	5.9	7.0	79.6	77.6	18.84	175.10	
			15	15	10.3	10.4	80.1	78.1	19.63	196.20	
			20	-	11.1	-	80.4	-	23.74	269.00	
K10-MS	556	460	7 1/2	7 1/2	2.7	3.8	79.4	77.4	18.84	170.90	
			10	10	4.7	5.9	79.7	77.7	18.84	179.50	
			15	15	8.8	9.9	80.2	78.2	19.63	200.60	
			20	-	11.1	-	80.5	-	23.74	273.40	
K11-MS	650	539	10	10	2.9	3.9	82.0	80.0	19.04	194.90	
			15	15	6.0	7.1	82.5	80.5	19.83	216.00	
			20	20	9.2	10.4	83.0	81.0	23.94	288.80	
			25	-	11.1	-	83.8	-	24.81	313.10	
K12-MS	726	602	15	15	3.8	6.6	83.5	81.5	19.95	223.70	
			20	20	6.3	9.6	84.3	82.3	24.06	296.50	
			25	-	8.8	-	87.2	-	24.92	320.80	

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.



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REGENERATIVE BLOWERS - VACUUM

SCL K03 / K04 / K05 / K06

TS SERIES

SN 1926-4 1/2

TECHNICAL CHARACTERISTICS

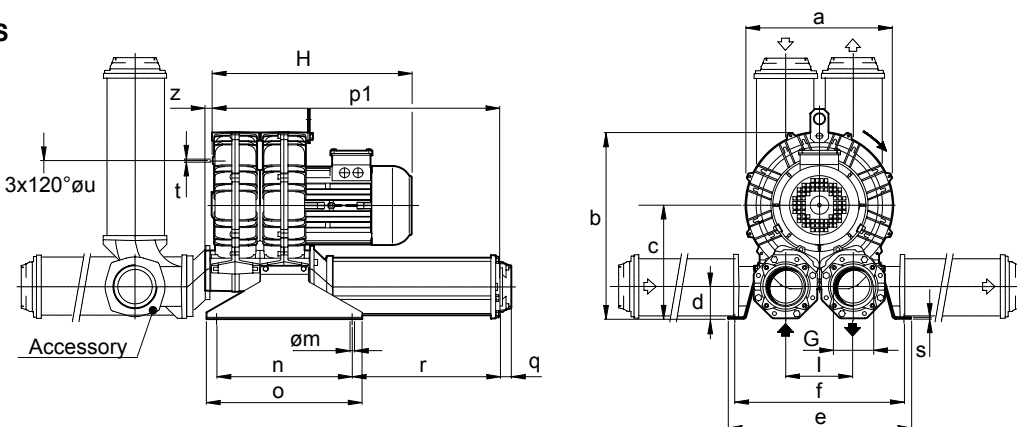
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



See pages 70 & 71
 for alternative mounting positions

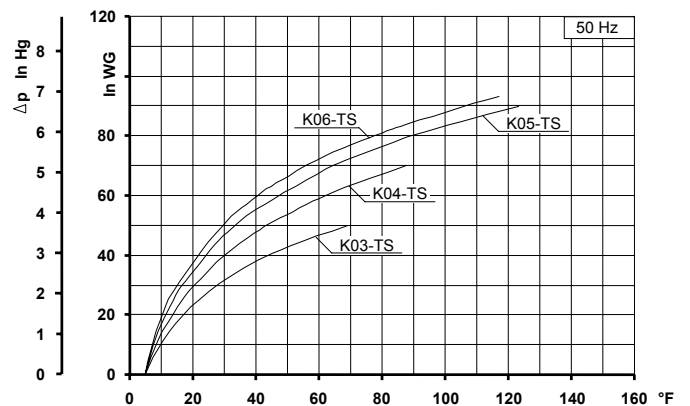
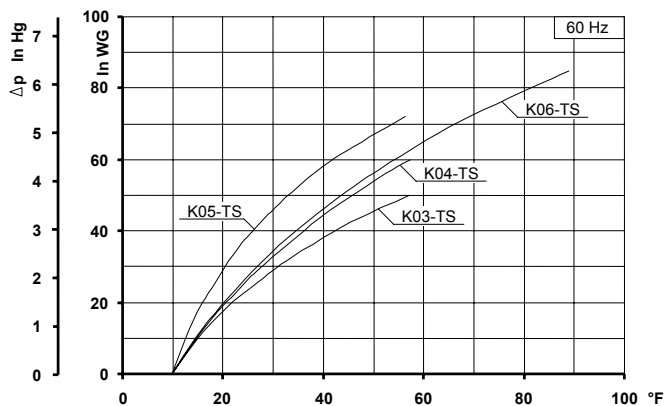
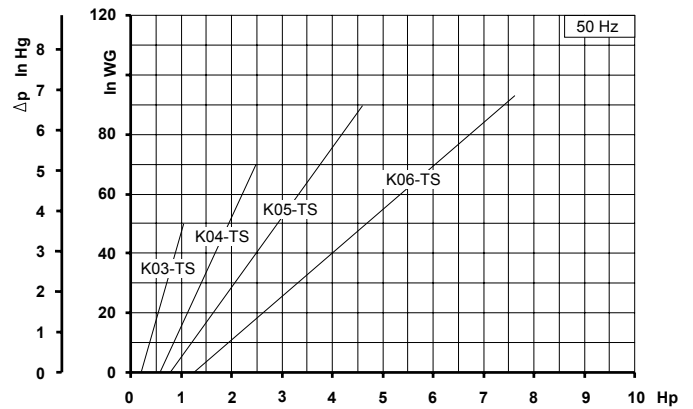
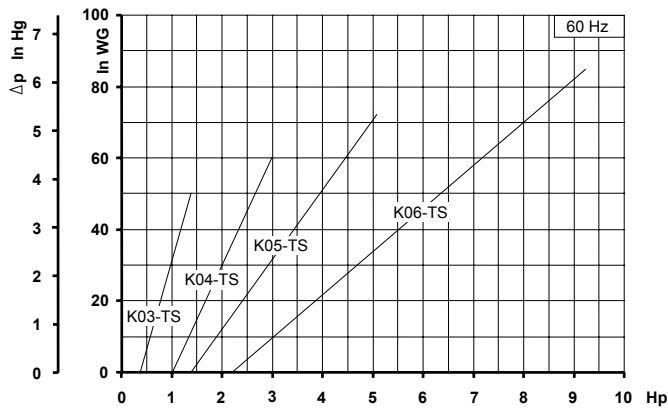
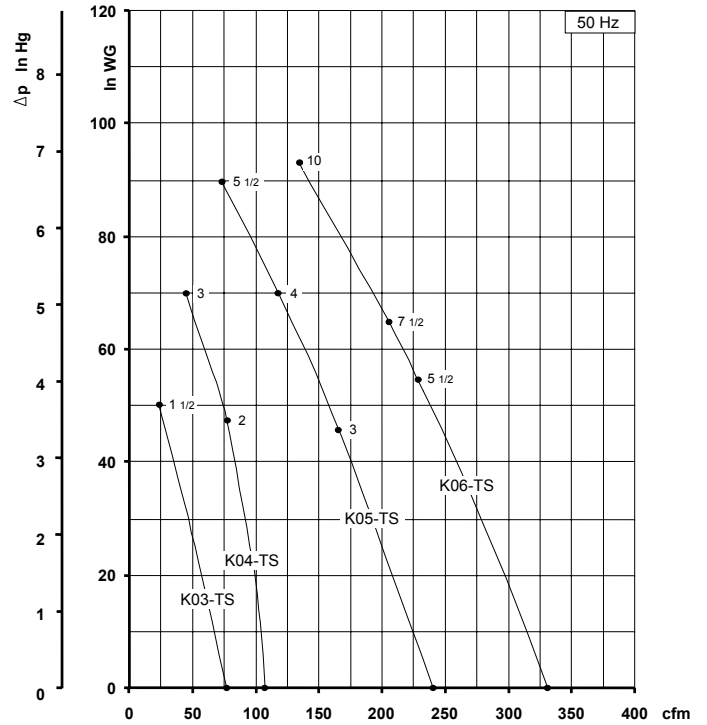
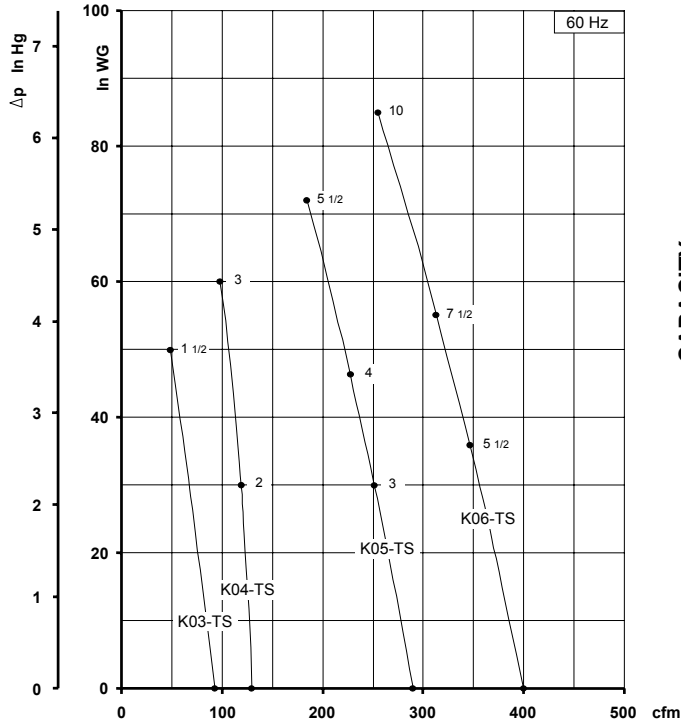
Dimensions in inches.
 Dimension for reference only.

Model	a	b	c	d	e	f	G	I	m	n	o	p1	q	r	s	t	u	z
K03-TS	9.49	10.55	5.79	1.69	9.06	8.07	1" ¼ NPT	3.39	0.39	3.27	5.59	11.02	0.71	2.95	0.16	M6	5.51	0.47
K04-TS	11.22	12.40	6.77	1.93	10.04	8.86	1" ½ NPT	4.02	0.47	3.74	6.73	12.40	0.71	2.76	0.16	M6	6.89	0.71
K05-TS	12.87	16.61	10.16	3.03	15.91	14.72	3" NPT	5.91	0.51	11.81	13.58	24.96	0.98	12.91	0.16	M8	7.87	0.75
K06-TS	14.80	17.72	10.31	2.95	15.91	14.72	3" NPT	6.10	0.51	11.81	13.58	26.06	0.98	13.19	0.16	M8	9.45	0.75

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K03-TS	93	77	1 ½	1 ½	3.7	3.7	70.6	68.6	14.87	48.50
K04-TS	130	107	2	2	2.2	3.5	72.6	70.6	17.26	61.73
			3	3	4.4	5.1	74.1	72.1	17.26	68.34
K05-TS	290	241	3	3	2.2	3.3	71.6	69.6	17.45	85.98
			4	4	3.4	5.1	73.1	71.1	18.64	89.29
			5 ½	5 ½	5.3	6.6	75.1	73.1	18.64	93.70
K06-TS	400	331	5 ½	5 ½	2.7	4.0	76.8	74.8	18.98	104.72
			7 ½	7 ½	4.0	4.8	77.1	75.1	22.60	141.09
			10	10	6.3	6.8	77.4	75.4	22.60	149.91

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.



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REGENERATIVE BLOWERS - VACUUM

SCL K07 / K08 / K09 / K10 / K11 / K12

TS SERIES
SN 1826-11 1/2

TECHNICAL CHARACTERISTICS

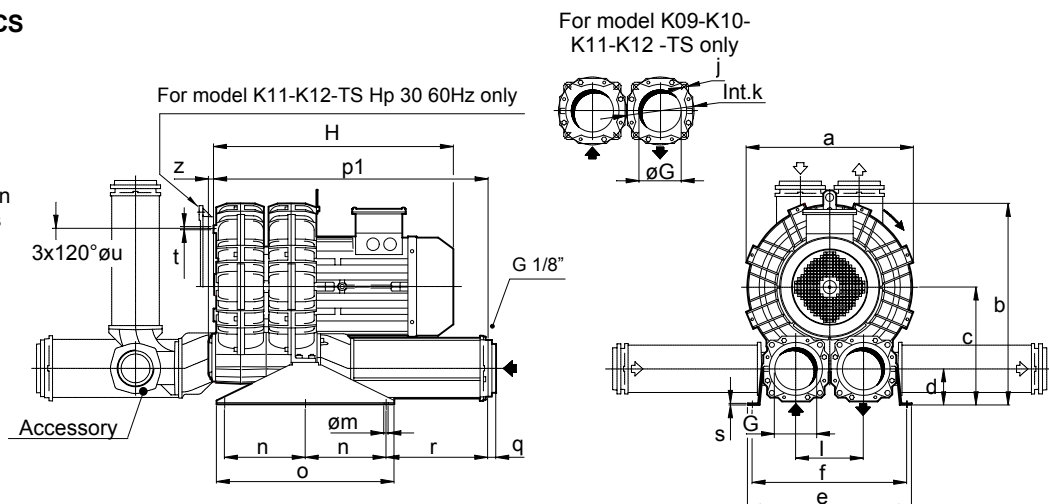
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor
- G1/8" female thread on both suction and discharge silencer port flanges

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



See page 72 for alternative mounting positions.

Dimensions in inches.

Dimension for reference only.

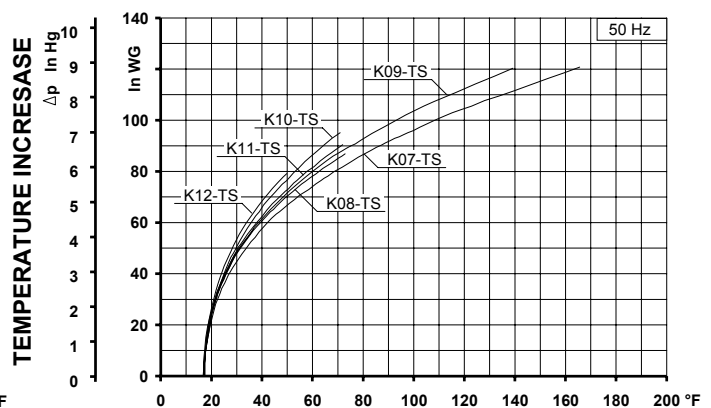
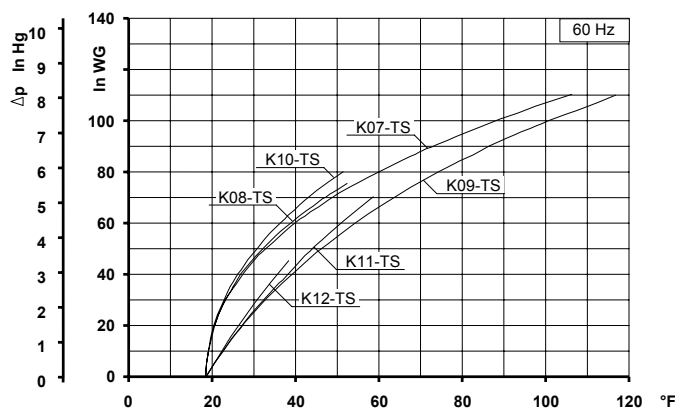
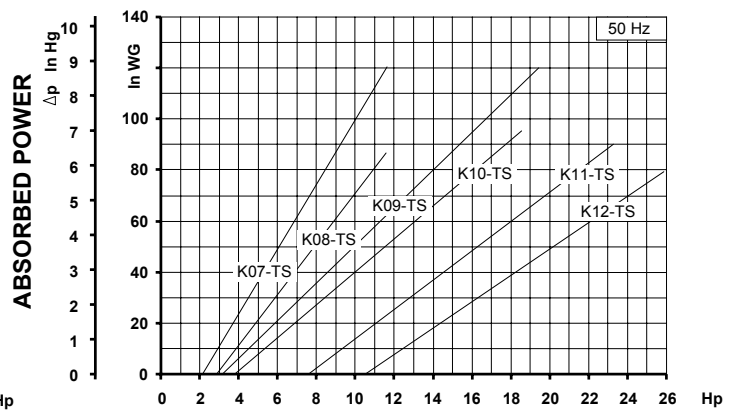
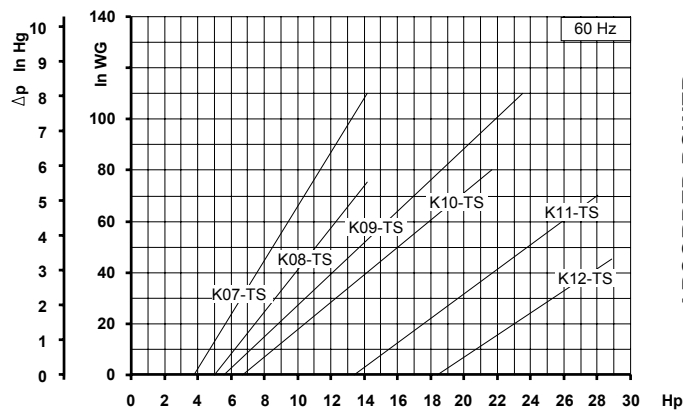
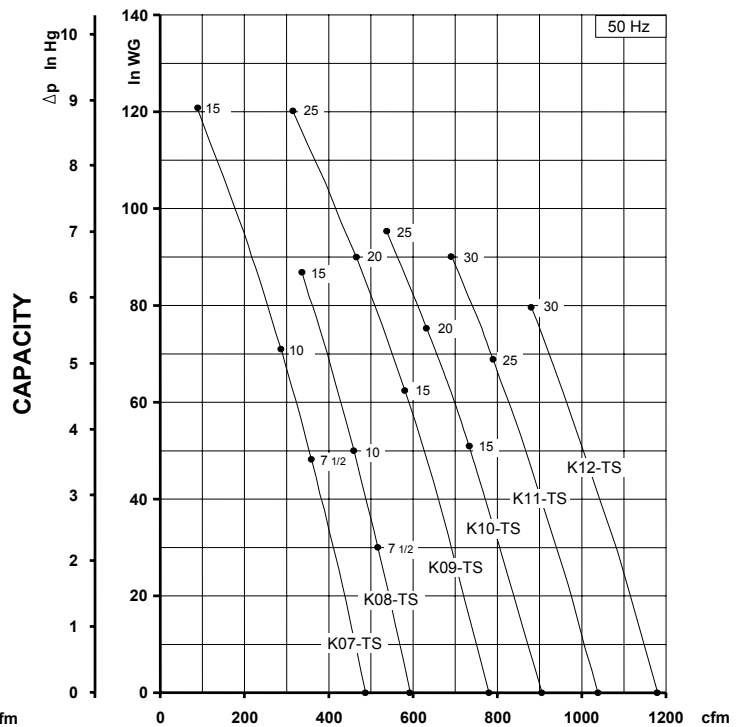
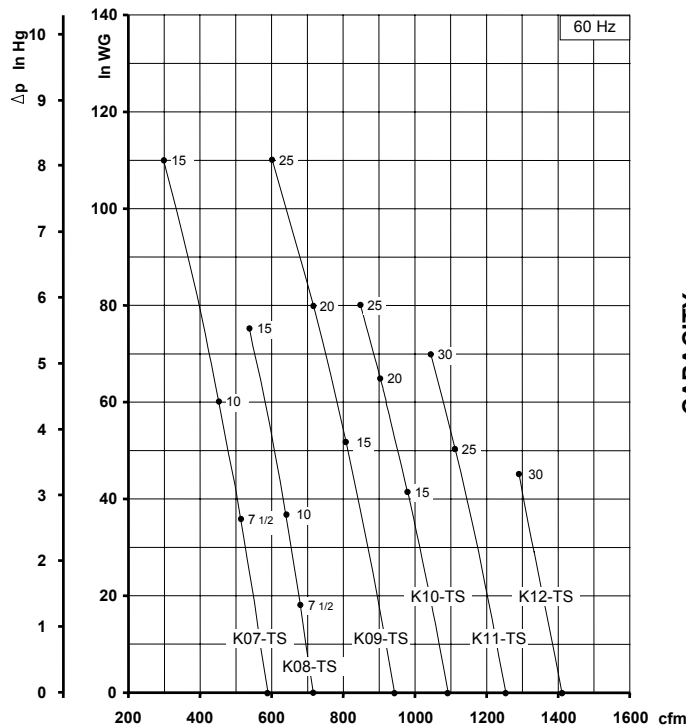
Model	a	b	c	d	e	f	G	l	j	k	m	n	o	p1	q	r	s	t	u	z
K07-TS	16.69	20.91	12.56	3.86	18.43	17.24	4"NPT	7.17	-	-	0.51	9.84	21.65	31.57	0.98	11.77	0.20	M8	11.61	0.63
K08-TS	18.03	21.57	12.56	3.86	18.82	17.64	4"NPT	7.17	-	-	0.51	9.84	21.65	31.57	0.98	11.77	0.20	M8	12.20	0.63
K09-TS	19.37	24.02	14.37	4.41	20.00	18.82	5.12	8.27	M16	8.27	0.51	9.84	21.65	33.46	-	12.40	0.20	M8	14.17	0.63
K10-TS	20.31	24.53	14.37	4.41	20.00	18.82	5.12	8.27	M16	8.27	0.51	9.84	21.65	33.46	-	12.40	0.20	M8	14.17	0.63
K11-TS	21.26	25.59	14.96	4.17	21.26	20.08	5.12	8.98	M16	8.27	0.51	9.84	21.65	34.25	-	12.60	0.20	M8	15.35	0.63
K12-TS	21.57	25.66	14.96	4.17	21.26	20.08	5.12	8.98	M16	8.27	0.51	9.84	21.65	34.37	-	12.60	0.20	M8	15.35	0.63

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) ⁽¹⁾		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K07-TS	588	487	7 1/2	7 1/2	2.6	3.5	84.5	82.5	23.76	197.31
			10	10	4.4	5.2	84.8	82.8	23.76	206.13
			15	15	8.1	8.9	85.4	83.4	24.55	223.77
K08-TS	715	592	7 1/2	7 1/2	1.3	2.2	80.9	78.9	23.76	205.47
			10	10	2.7	3.7	81.2	79.2	23.76	214.29
			15	15	5.5	6.4	82.9	80.9	24.55	231.92
K09-TS	941	780	15	15	3.8	4.5	82.2	80.2	25.81	270.06
			20	20	5.9	6.6	84.1	82.1	29.92	350.53
			25	25	8.1	8.8	86.1	84.1	30.79	383.60
K10-TS	1093	906	15	15	3.0	3.6	89.1	87.1	25.81	274.47
			20	20	4.8	5.5	89.4	87.4	29.92	354.94
			25	25	5.9	7.0	89.7	87.7	30.79	388.01
K11-TS	1254	1039	25	25	3.7	5.0	90.7	88.7	31.38	429.02
			30 ⁽²⁾	30 ⁽²⁾	5.1	6.6	91.3	89.3	31.38	434.53
K12-TS	1410	1168	30 ⁽²⁾	30 ⁽²⁾	3.3	5.9	91.9	89.9	31.50	436.75

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) K11-K12-TS Hp 30 vertical assembly only.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

® **FPZ, Inc**

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REGENERATIVE BLOWERS - VACUUM

SCL K07R / K08R / K09 / K10 / K11 / K12

MD SERIES

SN 1852-8 1/2

TECHNICAL CHARACTERISTICS

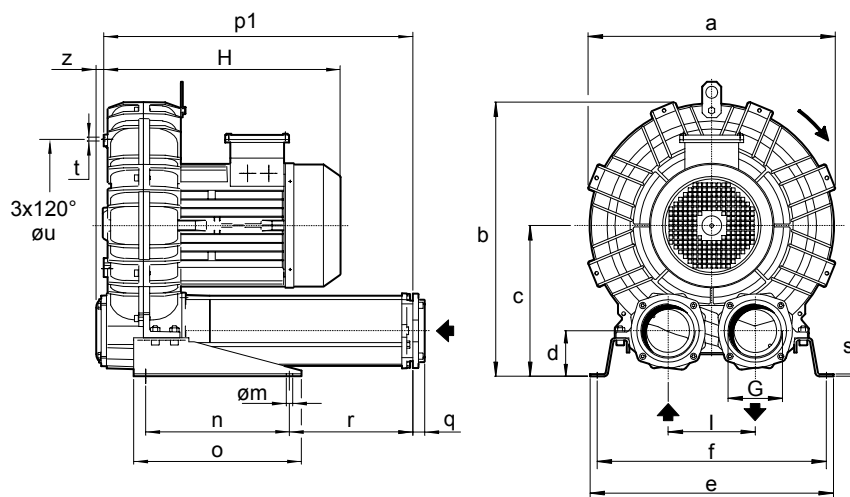
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



Dimensions in inches.

Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K07R-MD	16.69	18.94	10.59	3.23	18.43	17.24	2" NPT	6.10	0.51	11.81	13.78	16.46	0.71	1.7	0.20	M8	11.61	0.63
K08R-MD	17.99	19.61	10.59	3.23	18.82	17.64	2" NPT	6.10	0.51	11.81	13.78	16.46	0.71	1.7	0.20	M8	12.20	0.63
K09-MD	19.37	22.09	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	25.35	0.98	10.12	0.20	M8	14.17	0.63
K10-MD	20.31	22.56	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	25.35	0.98	10.12	0.20	M8	14.17	0.63
K11-MD	21.35	23.74	13.07	3.58	21.18	20.00	4" NPT	7.87	0.51	11.81	13.78	25.75	0.98	10.31	0.20	M8	15.35	0.63
K12-MD	21.57	23.85	13.07	3.58	21.18	20.00	4" NPT	7.87	0.51	11.81	13.78	25.87	0.98	10.31	0.20	M8	15.35	0.52

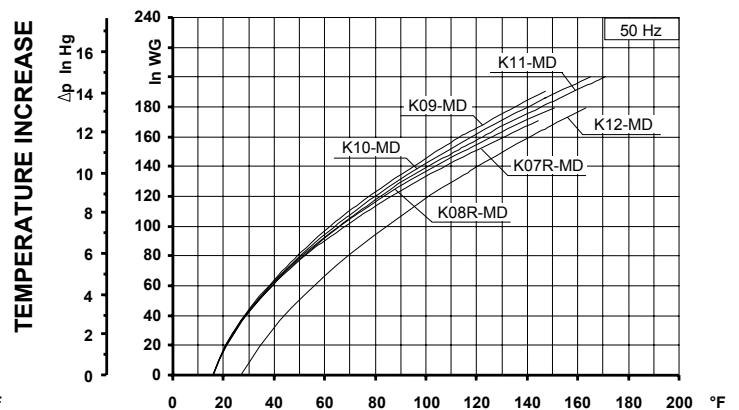
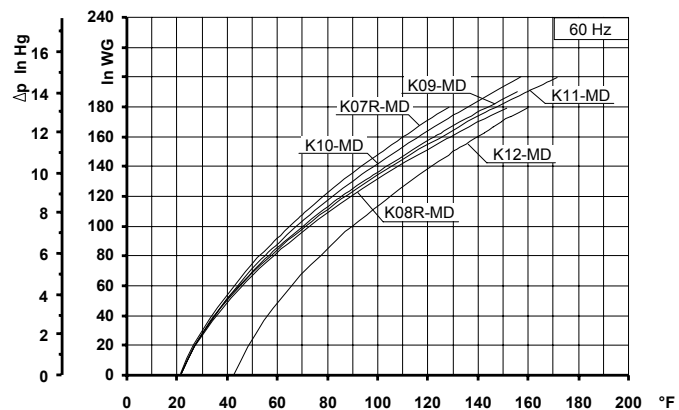
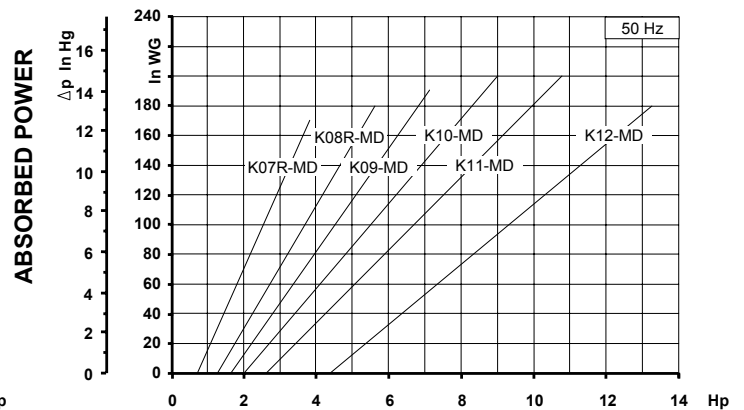
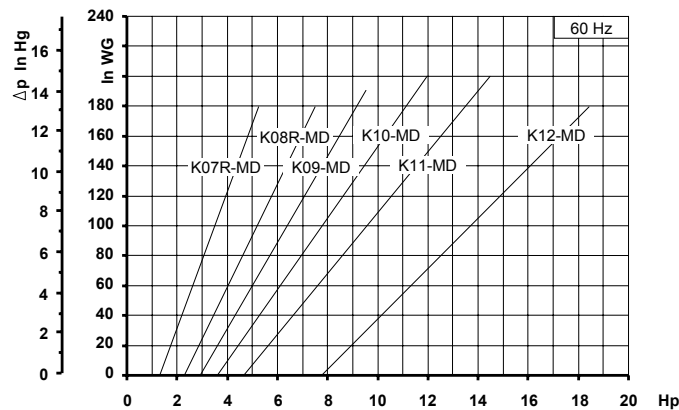
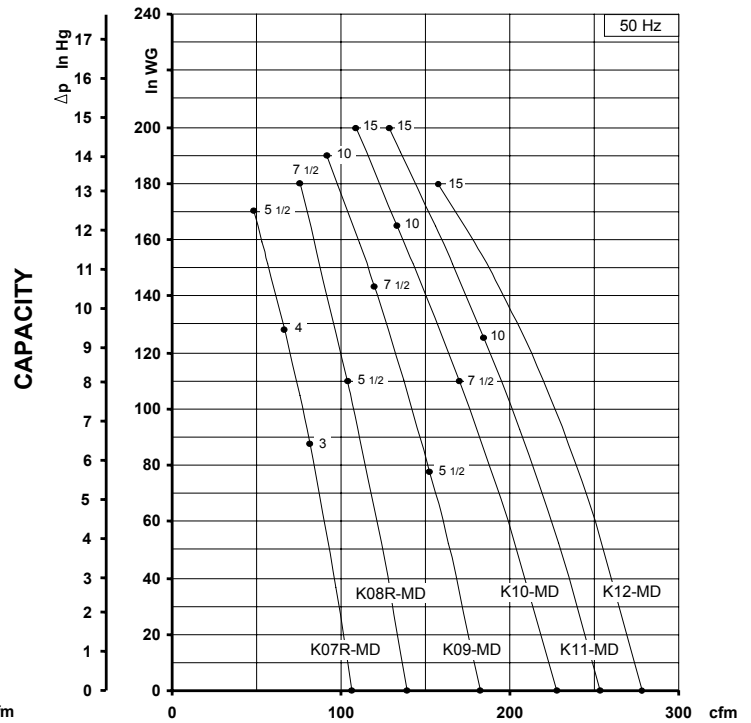
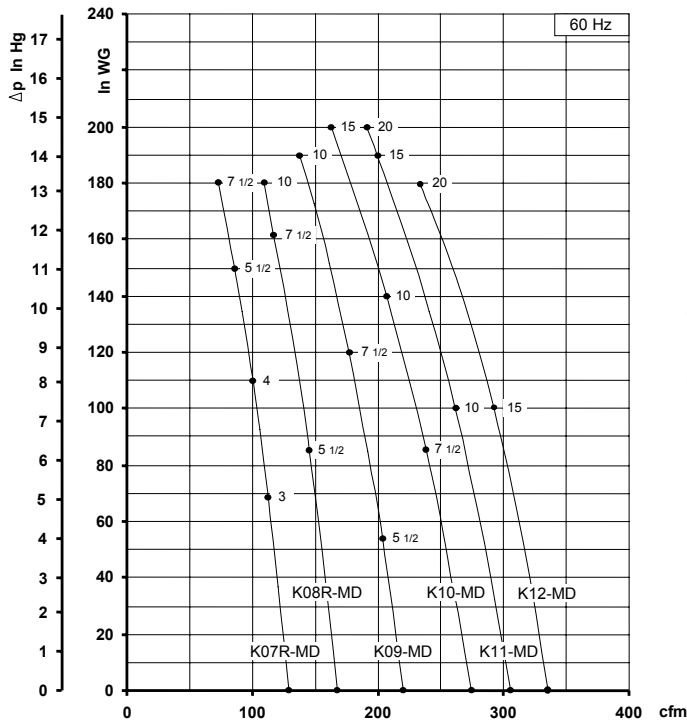
Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Dp (In Hg)		Noise level Lp dB (A) ⁽¹⁾		Overall dimensions H		Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	Inches	Lbs	
K07R-MD	129	107	3	3	5.0	6.4	72.5	70.5	16.14	101.40	
			4	4	8.1	9.4	73.0	71.0	16.14	103.60	
			5 1/2	5 1/2	11.0	12.5	73.5	71.5	16.14	111.50	
			7 1/2	-	13.2	-	74.0	-	17.52	134.50	
K08R-MD	168	139	5 1/2	5 1/2	6.3	8.1	75.7	73.7	16.14	116.90	
			7 1/2	7 1/2	11.9	13.2	76.1	74.1	17.52	140.00	
			10	-	13.2	-	76.4	-	17.52	151.00	
K09-MD	221	183	5 1/2	5 1/2	4.0	5.7	76.4	74.4	16.54	144.40	
			7 1/2	7 1/2	8.8	10.5	77.5	75.5	17.95	167.60	
			10	10	14.0	14.0	79.0	77.0	17.95	178.60	
K10-MD	275	228	7 1/2	7 1/2	6.3	8.1	80.4	78.4	17.91	170.90	
			10	10	10.3	12.1	80.7	78.7	17.91	181.90	
			15	15	14.7	14.7	81.3	79.3	19.29	203.90	
K11-MD	306	254	10	10	7.4	9.2	80.7	78.7	18.11	211.60	
			15	15	14.0	14.7	81.3	79.3	19.49	232.60	
			20	-	14.7	-	81.6	-	23.23	287.20	
K12-MD	336	278	15	15	7.4	13.2	82.2	80.2	19.61	240.30	
			20	-	13.2	-	82.5	-	23.42	295.00	

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



REGENERATIVE BLOWERS - **VACUUM** 41 **SCL K07R / K08R / K09 / K10 / K11 / K12** **MD SERIES** SN 1852-8 2/2



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.


FPZ, Inc

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REGENERATIVE BLOWERS - VACUUM
SCL K03 / K04 / K05 / K06
TD SERIES

SN 1936-4 1/2

TECHNICAL CHARACTERISTICS

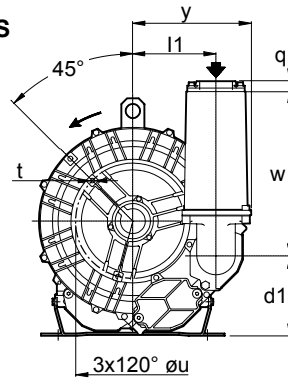
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor

OPTIONS

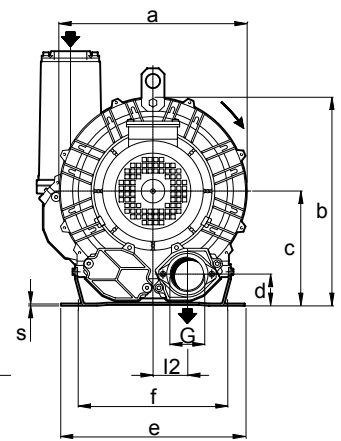
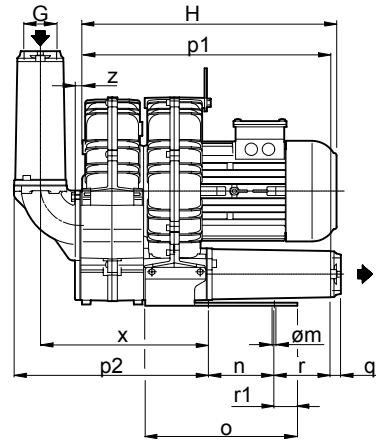
- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



See page 73 for alternative mounting positions



Dimensions in inches.

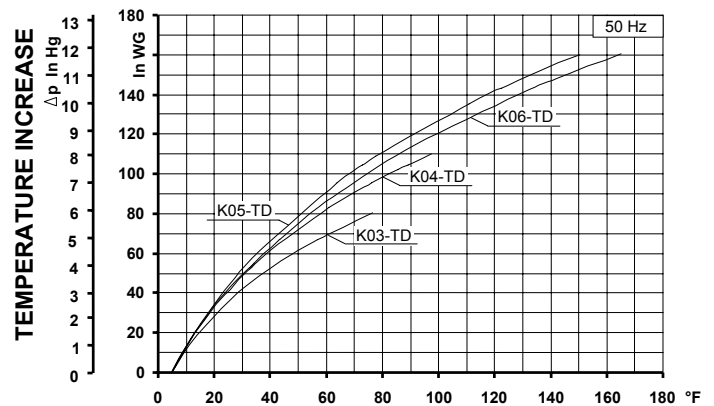
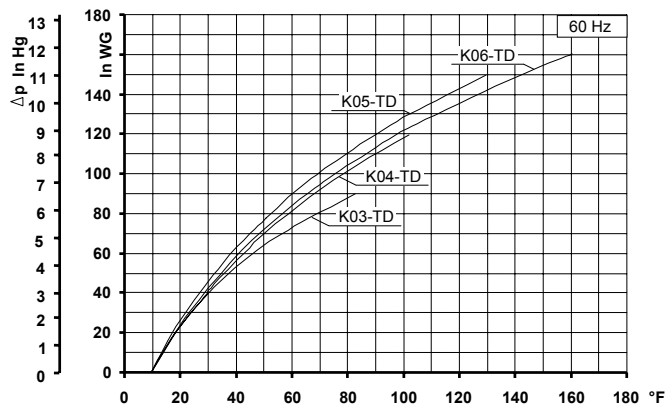
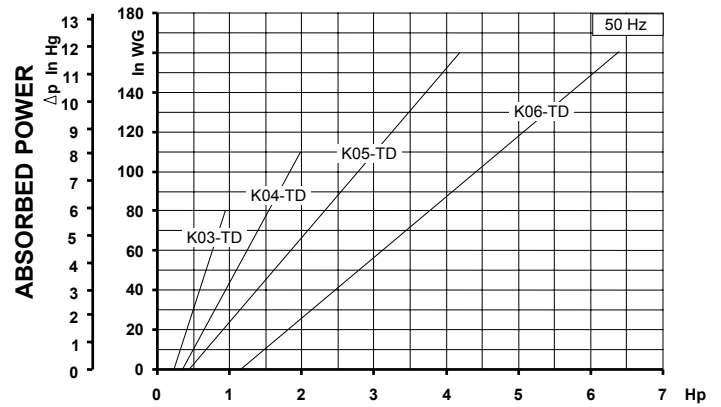
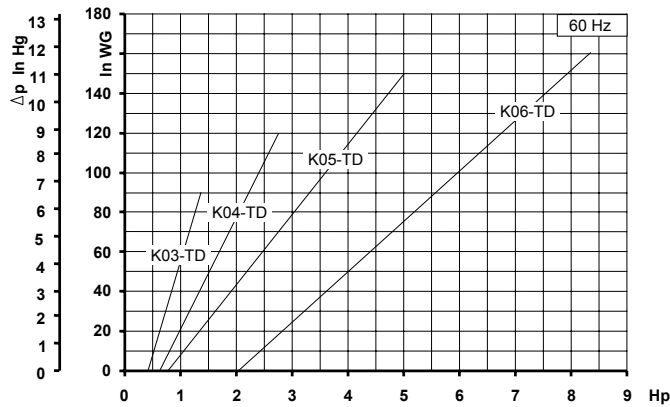
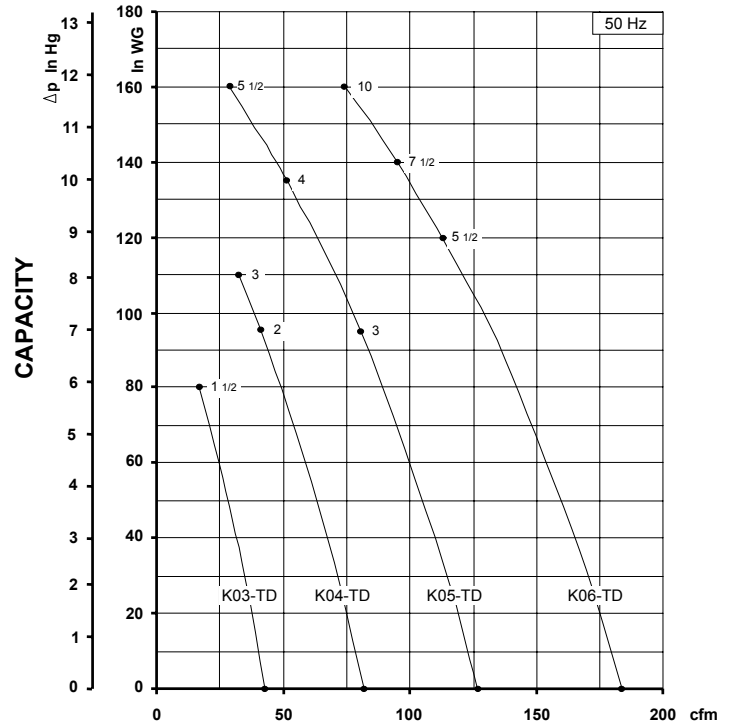
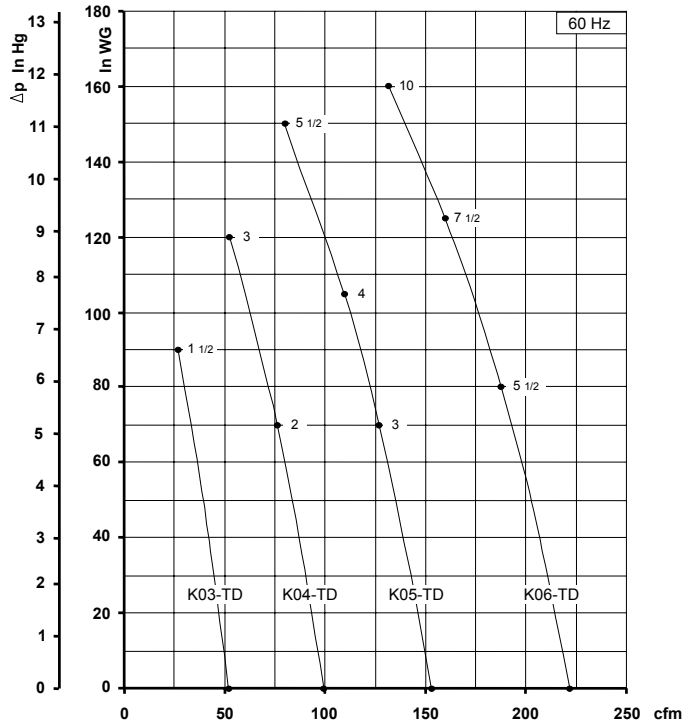
Dimension for reference only.

Model	a	b	c	d	d1	e	f	G	l1	l2	m	n	o	p1	p2	q	r	r1	s	t	u	w	x	y	z
K03-TD	9.49	10.55	5.79	1.69	4.09	9.06	8.07	1"¼NPT	4.09	1.69	0.39	3.27	5.59	8.19	8.46	0.71	2.95	0.51	0.16	M6	5.51	7.40	7.09	5.75	0.47
K04-TD	11.22	12.40	6.77	1.93	4.76	10.04	8.86	1"½NPT	4.84	2.01	0.47	3.74	6.73	12.44	10.00	0.71	2.76	0.59	0.16	M6	6.89	7.40	8.43	6.81	0.71
K05-TD	12.87	14.37	7.87	2.13	5.51	12.60	10.24	2" NPT	5.71	2.36	0.59	4.53	10.43	16.85	13.39	0.71	3.86	1.57	0.16	M8	7.87	11.26	11.54	8.11	0.75
K06-TD	14.80	16.54	9.13	2.32	6.69	12.80	11.42	2" NPT	5.94	2.87	0.59	5.51	10.43	19.92	13.94	0.71	5.35	0.75	0.16	M8	9.45	11.26	12.13	8.27	0.75

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H		Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	Inches	Lbs	
K03-TD	52	43	1 ½	1 ½	6.6	5.9	67.6	65.6	14.87	49.60	
K04-TD	99	82	2	2	5.1	7.0	70.6	68.6	17.26	62.83	
			3	3	8.8	8.1	71.6	69.6	17.26	69.44	
K05-TD	153	127	3	3	5.1	7.0	72.6	70.6	17.45	84.88	
			4	4	7.7	9.9	74.1	72.1	18.64	88.18	
			5 ½	5 ½	11.0	11.8	75.6	73.6	18.64	92.59	
K06-TD	222	184	5 ½	5 ½	5.9	8.8	74.6	72.6	18.98	103.62	
			7 ½	7 ½	9.2	10.3	75.6	73.6	22.60	139.99	
			10	10	11.8	11.8	76.6	74.4	22.60	148.81	

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.



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REGENERATIVE BLOWERS - VACUUM

SCL K07 / K08 / K09 / K10 / K11 / K12

TD SERIES
 SN 1834-9 1/2

TECHNICAL CHARACTERISTICS

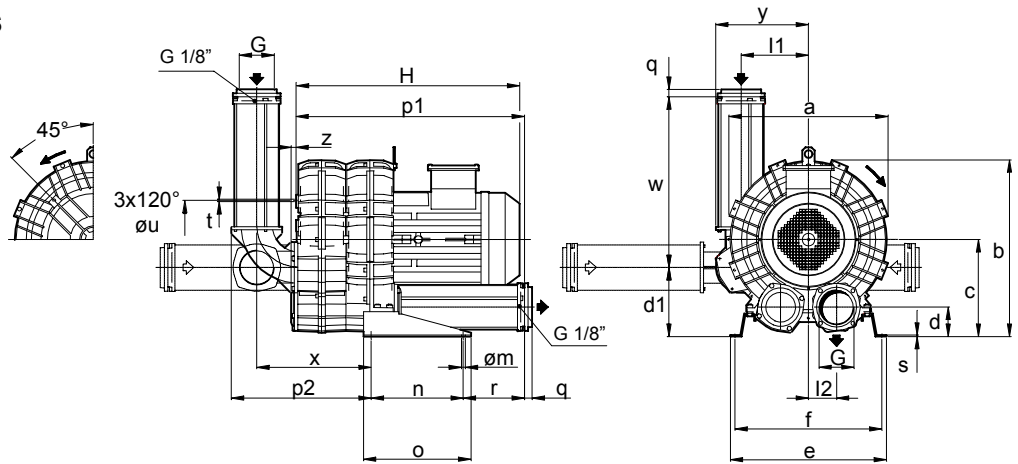
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - **cURus** motor
- G1/8" female thread on both suction and discharge silencer port flanges

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



Dimensions in inches.
 Dimension for reference only.

Model	a	b	c	d	d1	e	f	G	l1	l2	m	n	o	p1	p2	q	r	s	t	u	w	x	y	z
K07-TD	16.69	18.94	10.59	3.23	7.56	18.43	17.24	3"NPT	7.36	3.05	0.51	11.81	13.78	25.55	15.43	0.98	5.39	0.20	M8	11.61	18.94	12.56	10.24	0.63
K08-TD	17.99	19.61	10.59	3.23	7.56	18.82	17.64	3"NPT	7.36	3.05	0.51	11.81	13.78	25.55	15.43	0.98	5.39	0.20	M8	12.20	18.94	12.56	10.24	0.63
K09-TD	19.37	22.09	12.4	3.78	8.86	20.00	18.82	4"NPT	8.66	3.58	0.51	11.81	13.78	29.33	17.91	0.98	7.83	0.20	M8	14.17	21.89	14.65	11.89	0.63
K10-TD	20.31	22.56	12.4	3.78	8.86	20.00	18.82	4"NPT	8.66	3.58	0.51	11.81	13.78	29.33	17.91	0.98	7.83	0.20	M8	14.17	21.89	14.65	11.89	0.63
K11-TD	21.26	23.70	13.07	3.54	9.13	21.18	20.00	4"NPT	9.53	3.94	0.51	11.81	13.78	30.12	18.50	0.98	8.03	0.20	M8	15.35	21.89	15.24	12.76	0.63
K12-TD	21.57	23.81	13.07	3.54	9.13	21.18	20.00	4"NPT	9.53	3.94	0.51	11.81	13.78	30.23	18.50	0.98	8.03	0.20	M8	15.35	21.89	15.24	12.76	0.63

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) ⁽¹⁾		Overall dimensions H	Weight
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
K07-TD	296	245	7 1/2	7 1/2	6.6	7.7	78.6	76.6	23.76	194.00
			10	10	9.9	11.0	78.9	76.9	23.76	202.82
			15	15	13.2	12.6	79.5	77.5	24.55	220.46
K08-TD	368	305	7 1/2	7 1/2	4.3	5.5	79.0	77.0	23.76	202.16
			10	10	7.0	8.1	79.3	77.3	23.76	210.98
			15	15	12.5	13.6	79.9	77.9	24.55	228.62
K09-TD	467	387	15	15	7.7	9.2	82.2	80.2	25.81	222.66
			20	20	11.7	13.2	82.5	80.5	29.92	347.22
			25	-	14.0	-	82.8	-	30.79	380.29
K10-TD	571	473	15	15	6.3	7.4	85.9	83.9	25.81	271.17
			20	20	9.6	11.0	86.2	84.2	29.92	351.63
			25	25	13.2	14.7	86.5	84.5	30.79	384.70
K11-TD	642	532	20	20	6.6	8.5	86.7	84.7	31.38	392.64
			25	25	9.6	11.4	87.2	85.2	31.38	425.71
K12-TD	716	593	25	25	6.3	10.3	87.5	85.5	31.50	423.50
			30	30	8.8	14.0	88.0	86.0	31.50	429.00

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

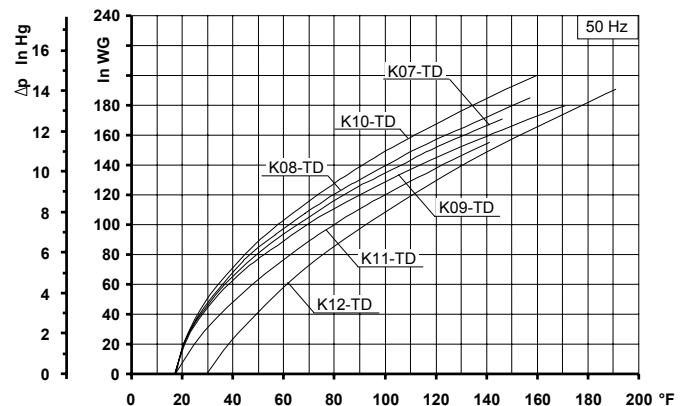
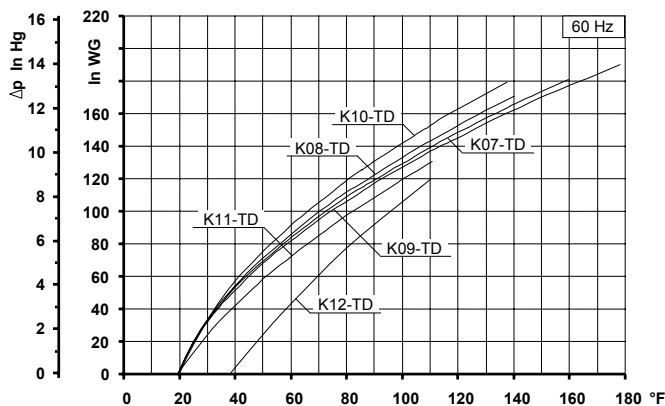
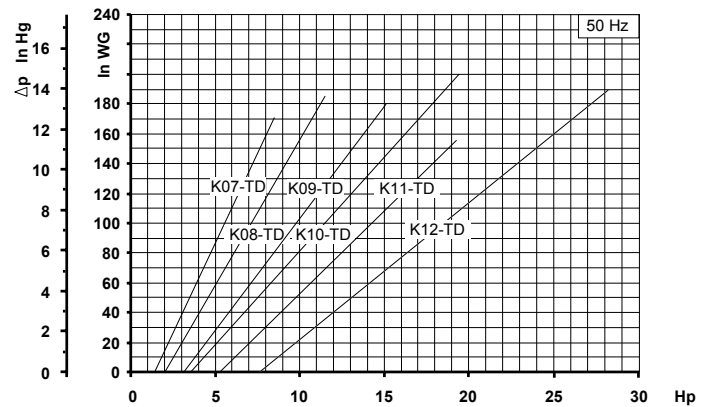
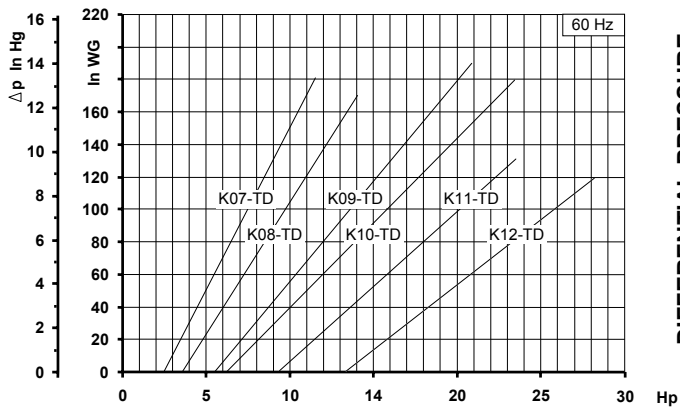
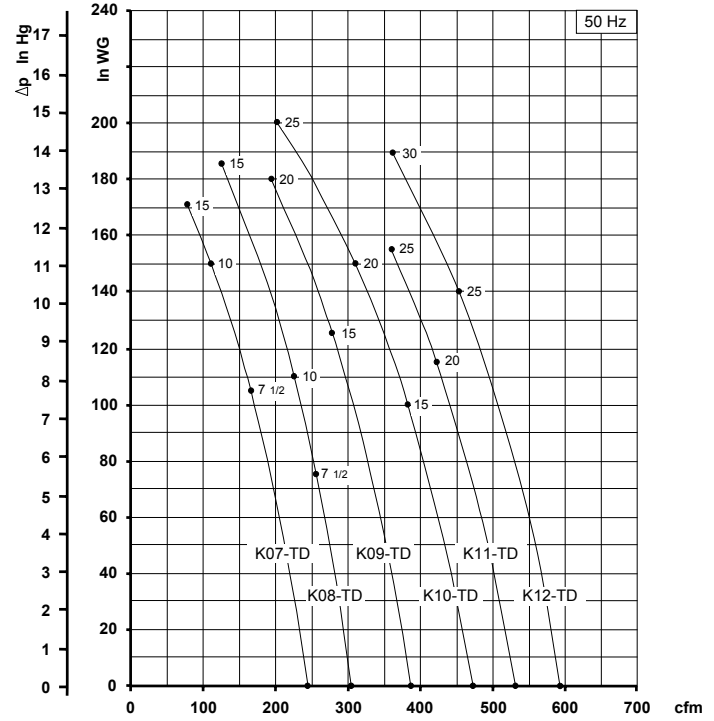
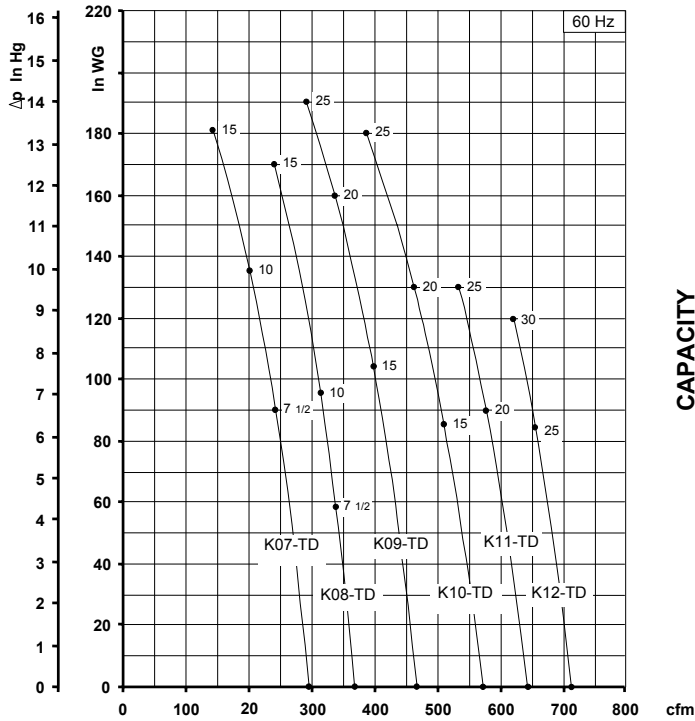
- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



REGENERATIVE BLOWERS - VACUUM 45

SCL K07 / K08 / K09 / K10 / K11 / K12

TD SERIES
SN 1834-9 2/2



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.



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REGENERATIVE BLOWERS - VACUUM

SCL K09 / K10 / K11

TT SERIES - GOR RANGE

SN 2784-1 1/2

TECHNICAL CHARACTERISTICS

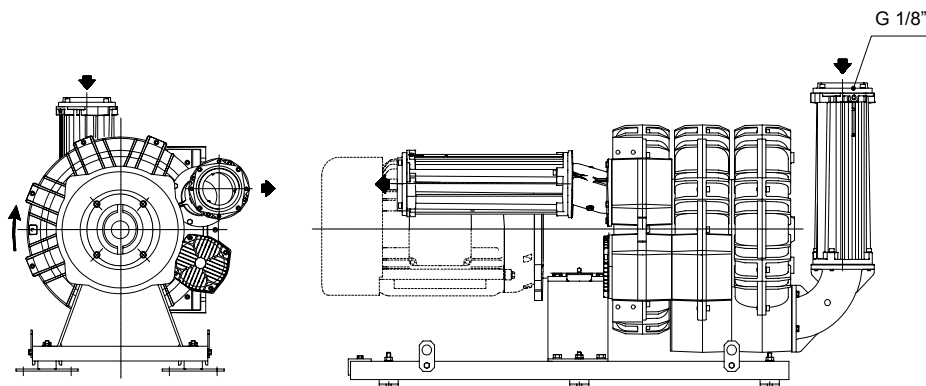
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- G1/8" female thread on both suction and discharge silencer port flanges

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Optional connectors



For dimensions, please refer to drw:

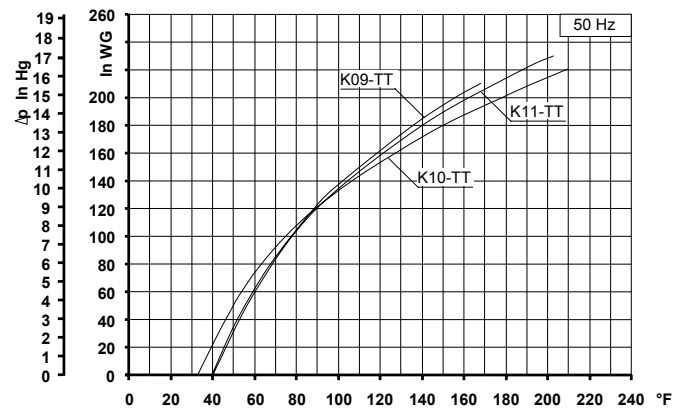
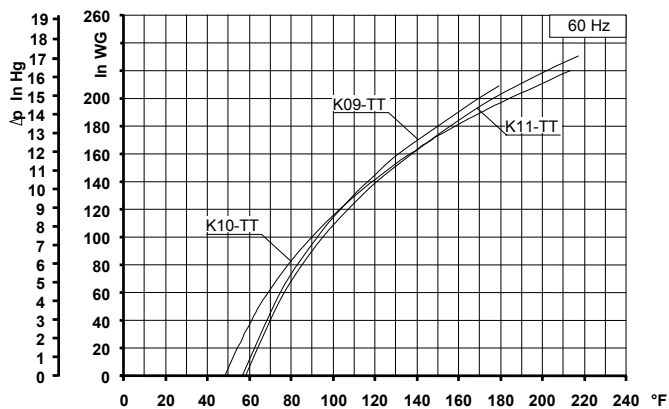
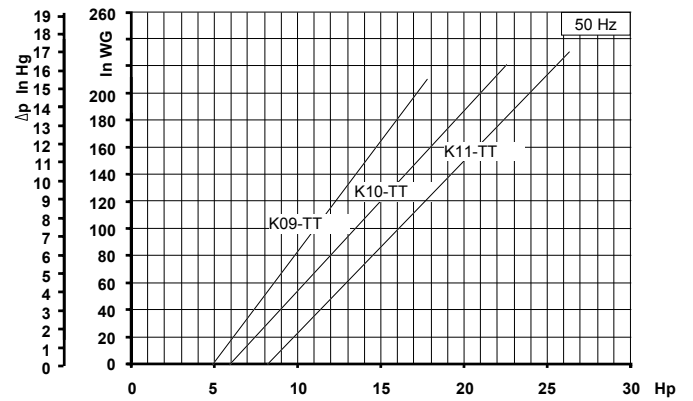
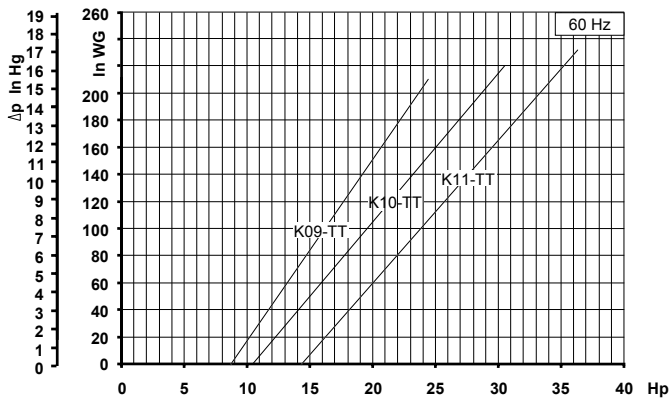
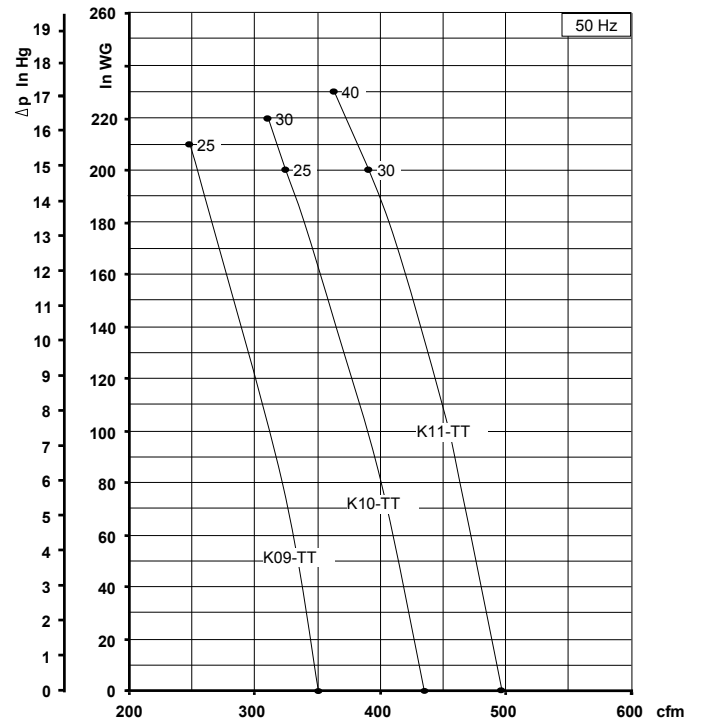
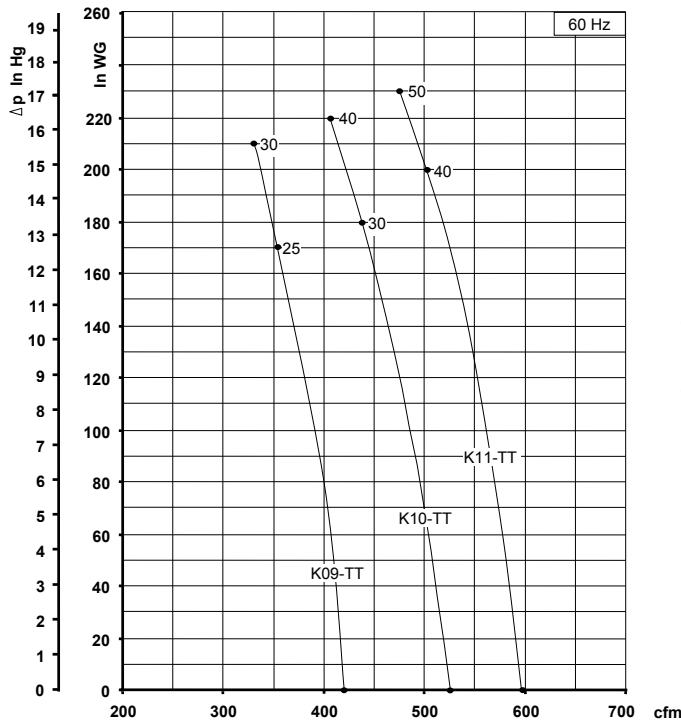
SI 2180

Model	Maximum flow cfm		Installed power Hp	Size	Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Weight (2) Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm			60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	
K09-TT	423	351	25	NEMA 284-6TSC	12.5	15.5	86.9	84.9	354
			30		15.5	-	87.2	-	
K10-TT	526	436	25	NEMA 284-6TSC	-	14.7	-	85.5	365
			30	NEMA 284-6TSC	13.2	16.2	87.8	85.8	
			40	NEMA 324-6TSC	16.2	-	88.1	-	380
K11-TT	597	495	30	NEMA 284-6TSC	-	14.7	-	85.8	430
			40	NEMA 324-6TSC	14.7	17.0	88.1	86.1	434
			50		17.0	-	88.5	-	

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) Value is referred to weight of the machine without electric motor

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



- Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
- Values for flow, power consumption and temperature rise: +/-10% tolerance.
- Data subject to change without notice.

**STANDARD FEATURES**

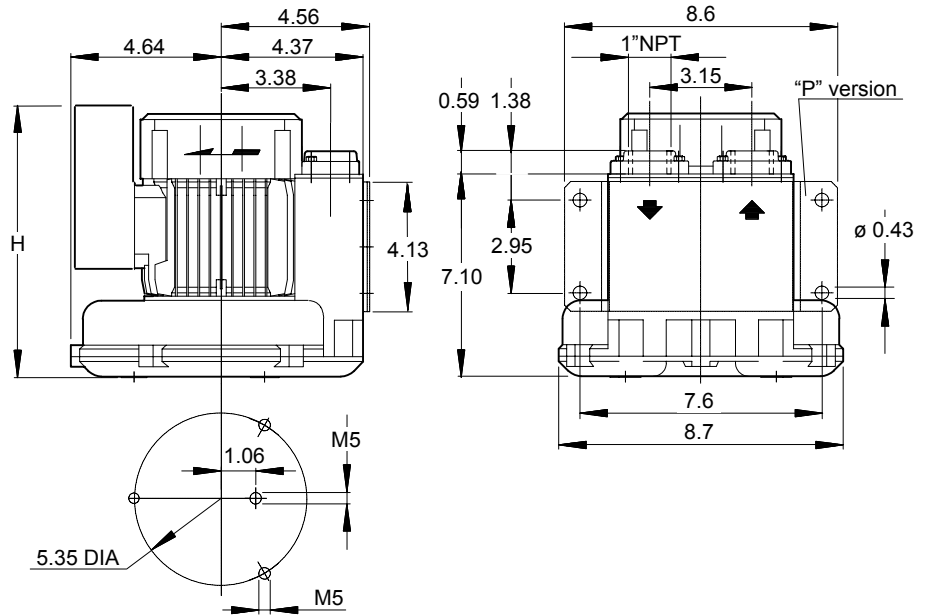
- Low weight cast aluminum construction.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC - **cURus** motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optional connectors

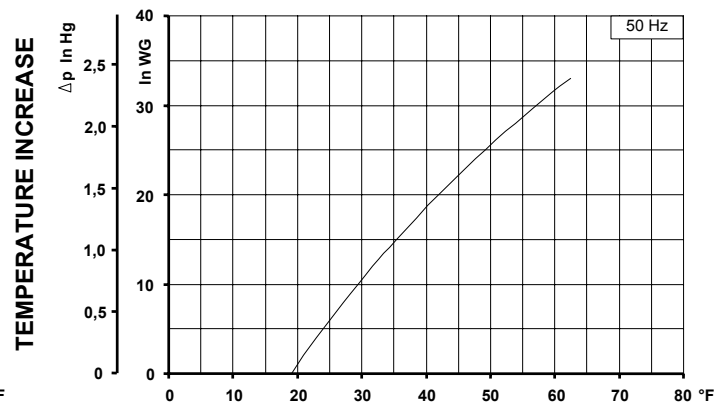
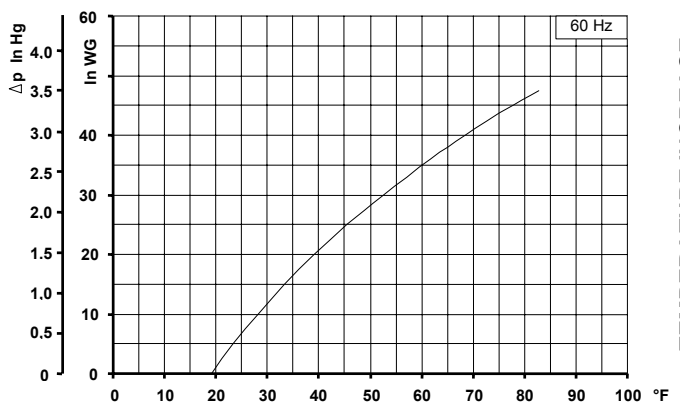
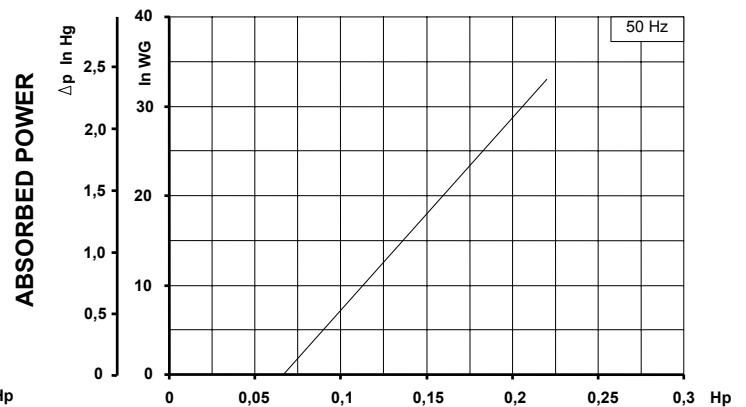
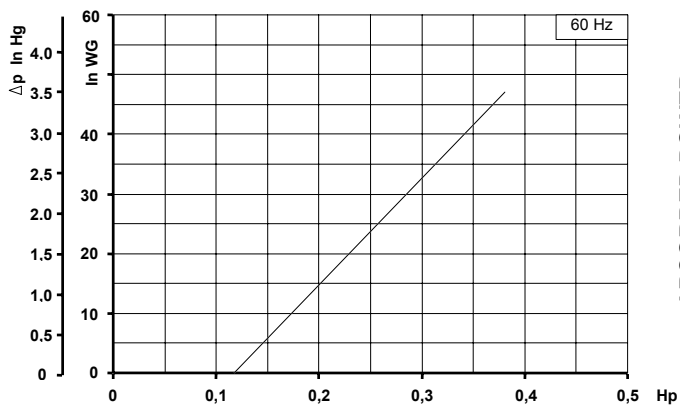
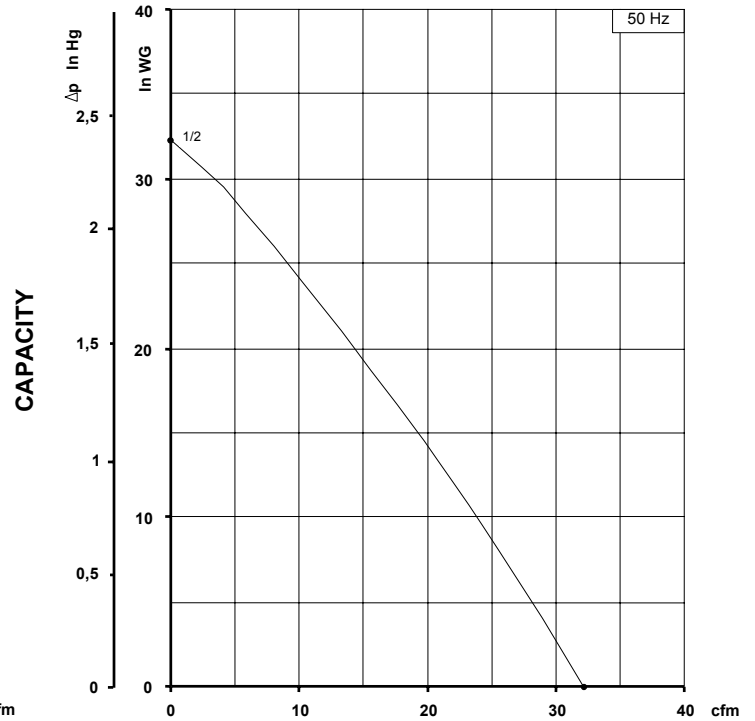
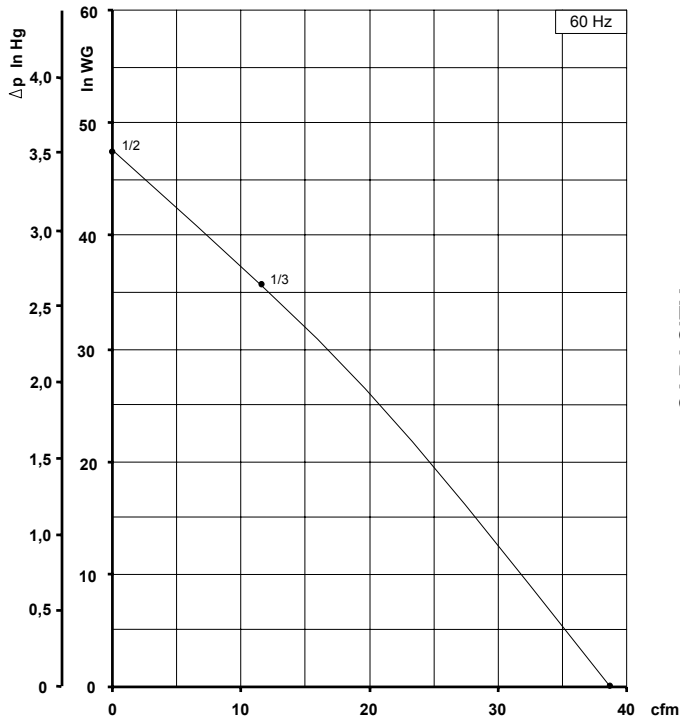


Dimensions in inches.
Dimension for reference only.

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
06	39	32	1/3	-	2.7	-	58.7	-	10.60	18.30
			1/2	1/2	3.5	2.4	59.0	58.0	10.60	18.50

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

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REGENERATIVE BLOWERS - VACUUM

SCL 10DL / 15DH**DH SERIES**

SN 2198-2 1/2

STANDARD FEATURES

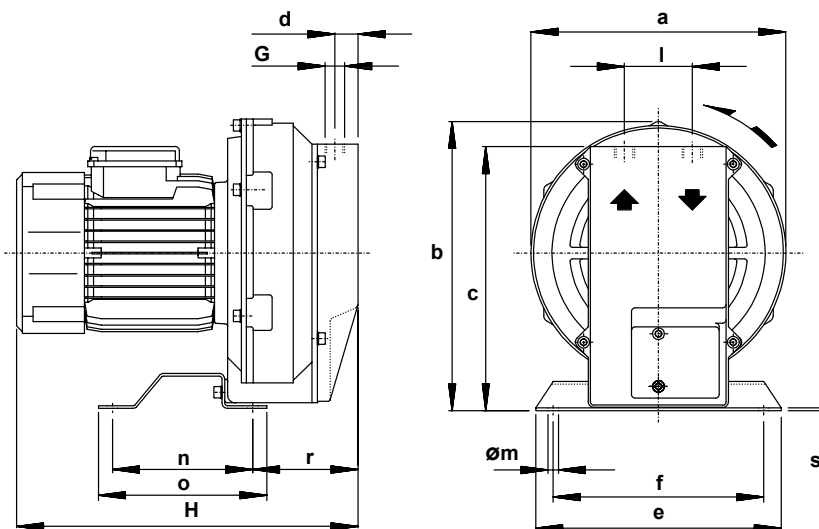
- Low weight cast aluminum construction.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC - **cURus** motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Remote drive models (belt or coupling).
- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optionals connectors



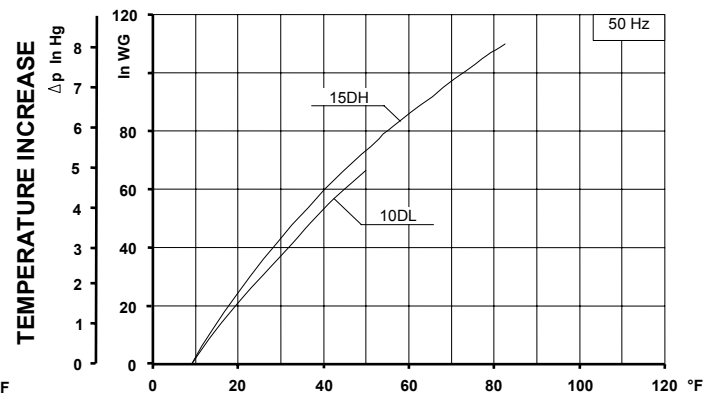
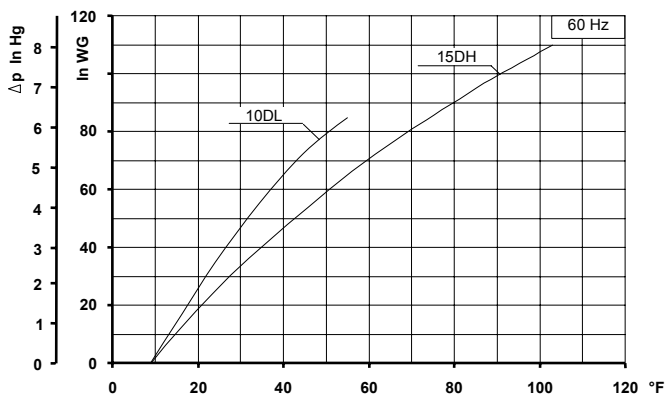
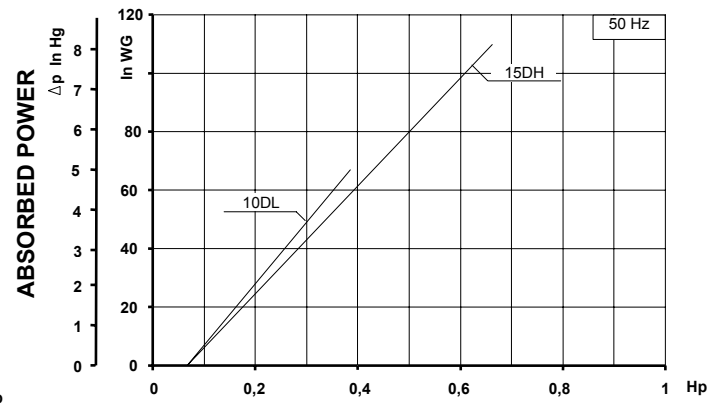
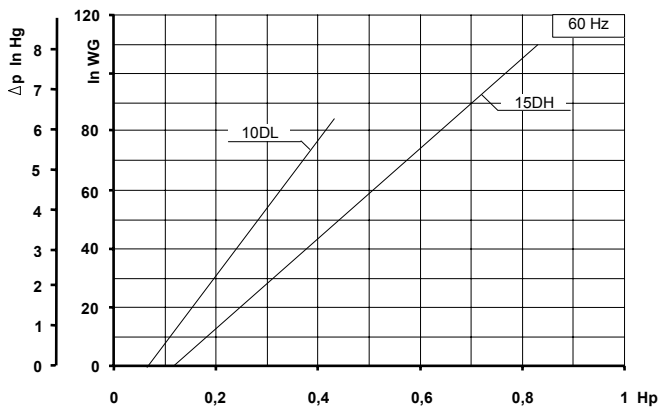
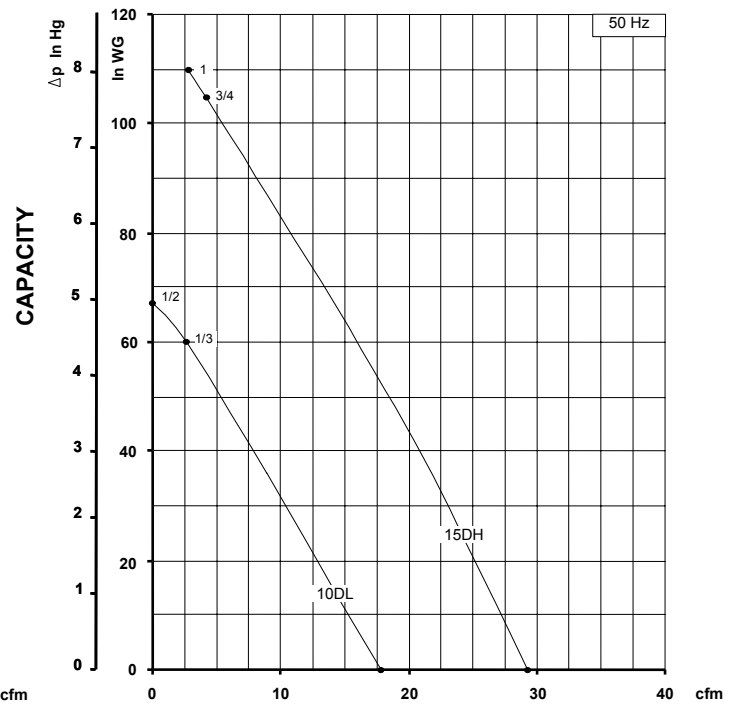
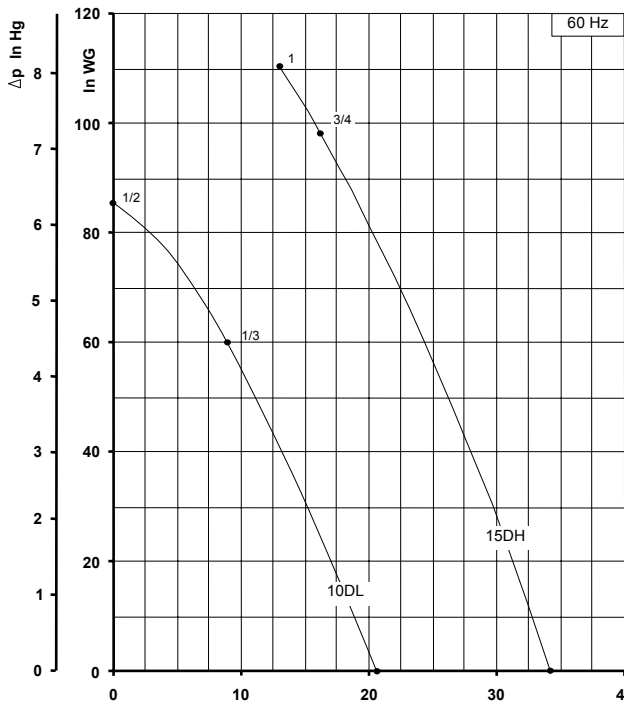
Dimensions in inches.
Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	r	s
10DL	8.66	10.08	9.06	0.91	8.27	7.09	1/2" NPT	2.28	0.35	4.72	5.67	3.54	0.10
15DH	9.84	11.26	10.16	1.18	8.27	7.09	3/4" NPT	2.52	0.35	4.72	5.67	4.72	0.10

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) ⁽¹⁾		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
10DL	21	18	1/3	1/3	4.4	4.4	63.7	61.7	12.20	21.80
			1/2	1/2	6.3	4.9	64.0	62.0	12.76	23.50
15DH	35	29	3/4	3/4	7.2	7.7	63.7	61.7	14.25	32.50
			1	1	8.1	8.1	64.0	62.0	15.75	40.00

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.



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REGENERATIVE BLOWERS - VACUUM
SCL 20DH / 30DH / 40DH
DH SERIES
SN 2465-1 1/2

STANDARD FEATURES

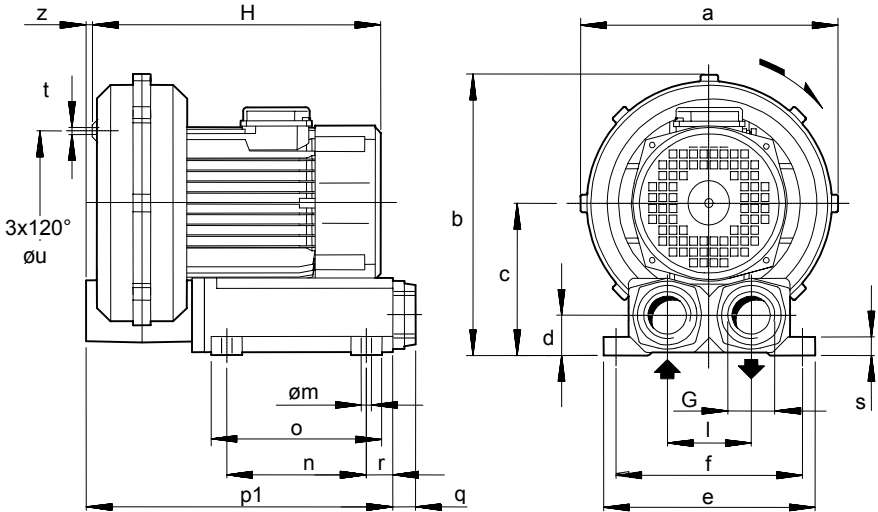
- Low weight cast aluminum construction.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC - **cURus** motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Remote drive models (belt or coupling).
- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optional connectors



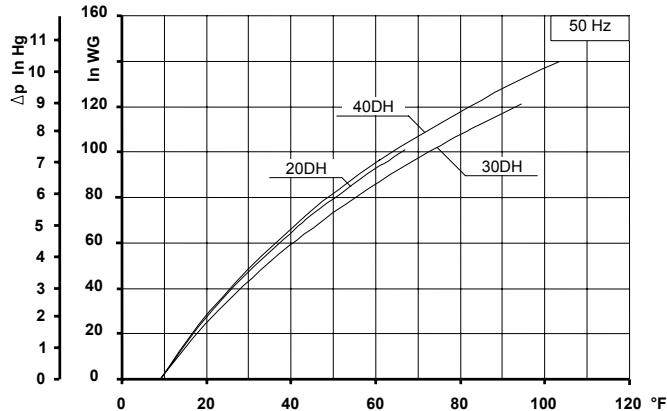
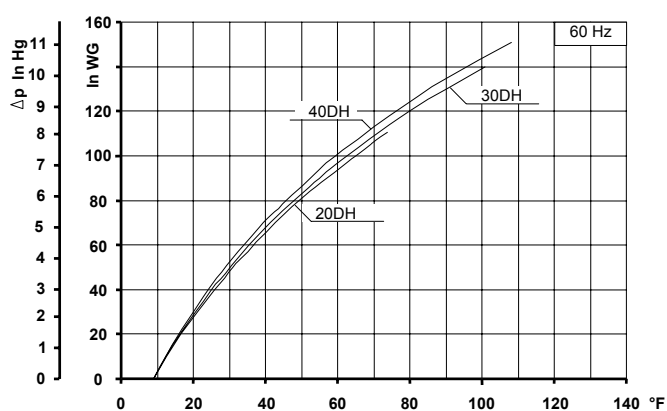
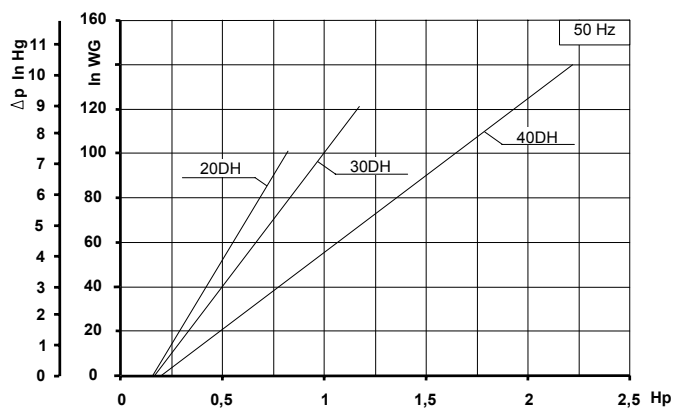
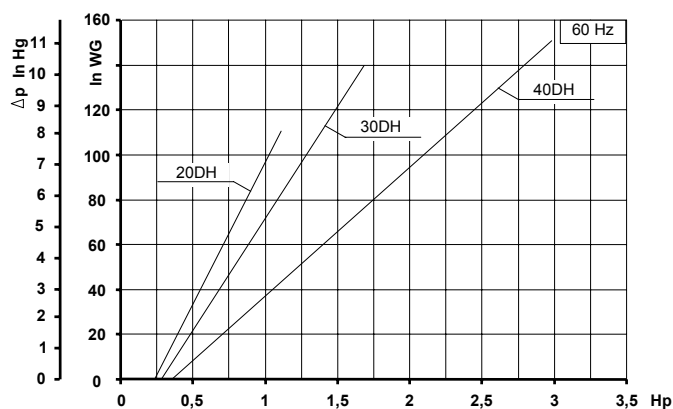
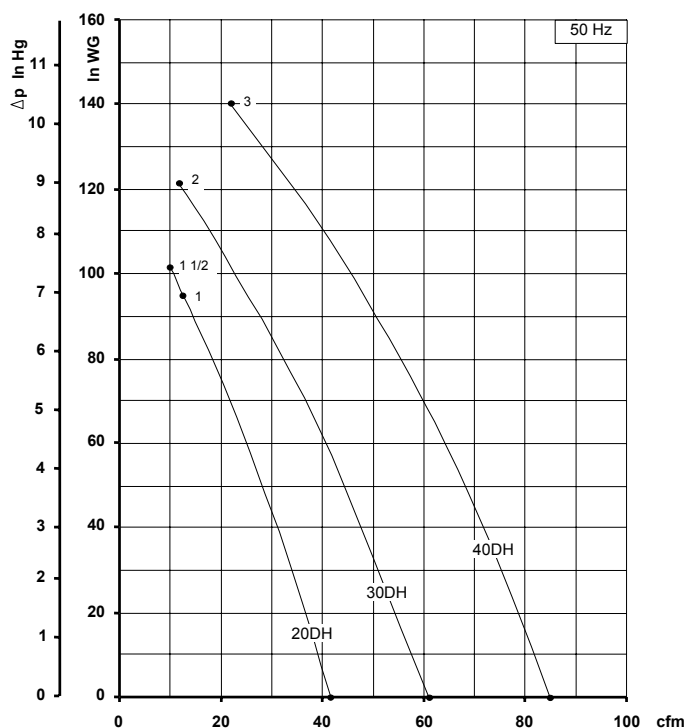
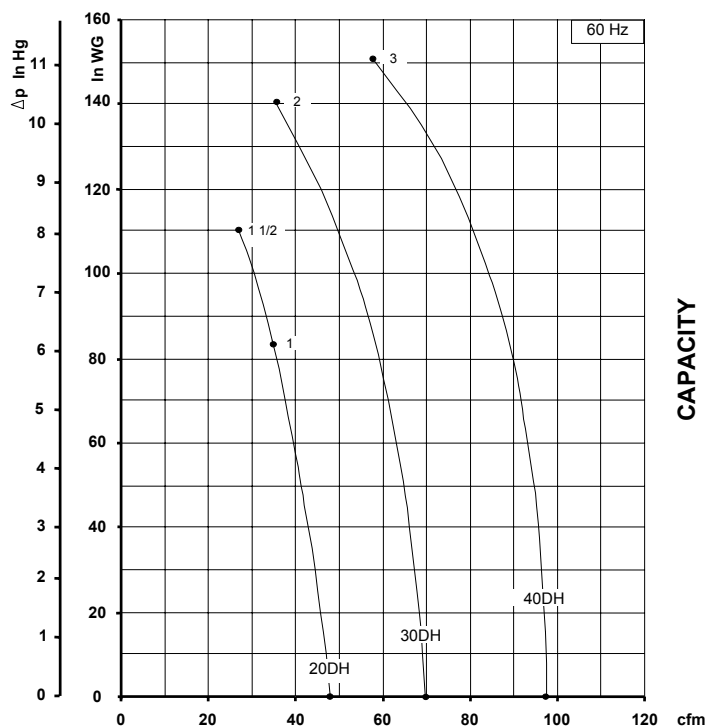
Dimensions in inches.
Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
20DH	11.42	12.20	6.50	1.77	9.06	8.27	1" ¼ NPT	3.54	0.39	5.90	7.67	13.98	0.71	1.77	0.79	M6	5.91	0.31
30DH	12.60	13.66	7.36	2.09	10.63	9.64	1" ½ NPT	4.13	0.39	7.28	9.25	16.54	0.71	2.17	0.79	M6	7.09	0.67
40DH	13.78	14.57	7.68	2.09	10.63	9.65	1" ½ NPT	4.13	0.39	7.28	9.25	17.32	0.71	2.17	0.79	M8	8.86	-

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		
20DH	48	42	1	1	6.2	6.9	67.7	64.7	13.78	44.00
			1 ½	1 ½	8.1	7.4	68.0	65.0	13.78	47.30
30DH	70	61	2	2	10.3	8.9	69.7	67.7	15.36	58.30
40DH	98	85	3	3	11.1	10.3	74.7	71.7	16.93	75.00

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
 Values for flow, power consumption and temperature rise: +/-10% tolerance.
 Data subject to change without notice.

STANDARD FEATURES

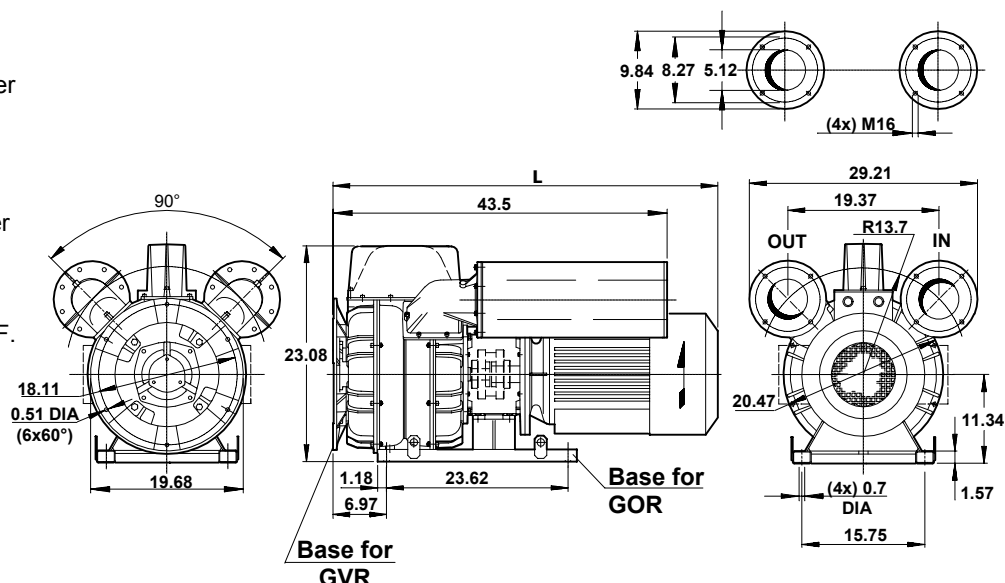
- Low weight cast aluminum impeller and cast iron casing.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
- Mountable in any plane.

OPTIONS

- Special voltages.
- Surface treatment or plating.
- Gas tight sealing.
- Special designs available.

ACCESSORIES

- Inlet and/or inline filters.
- Additional inlet/outlet silencers.
- Safety valves.
- Flow converting devices.
- Optional connectors



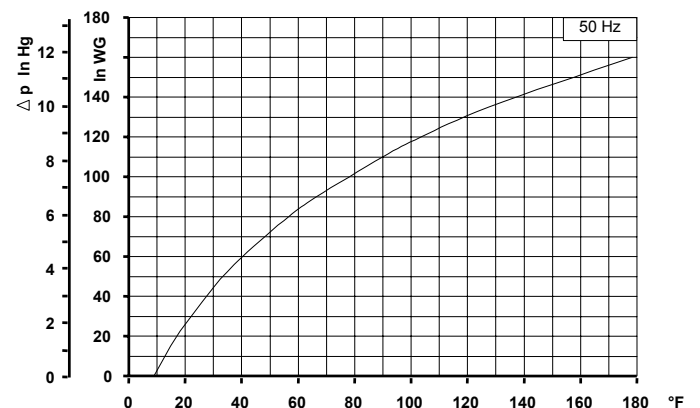
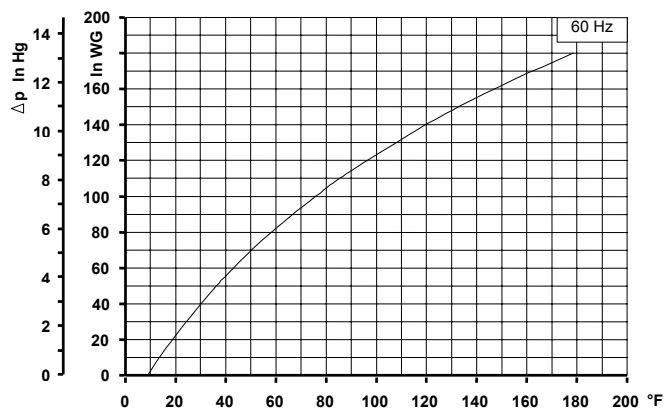
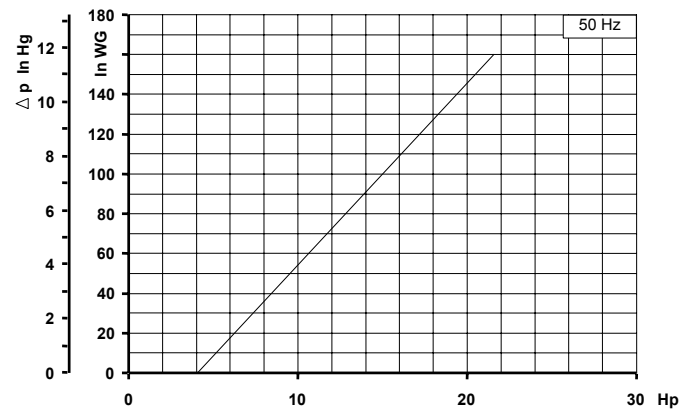
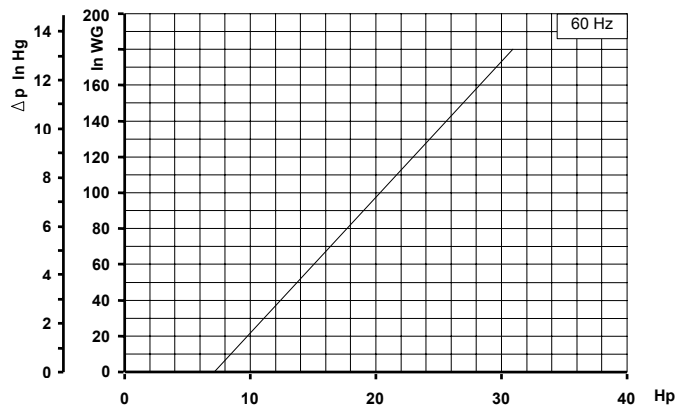
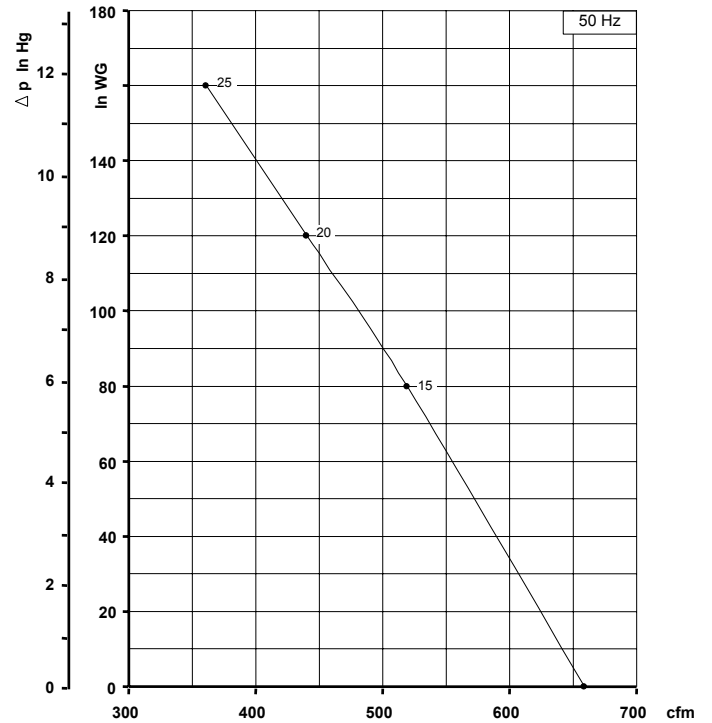
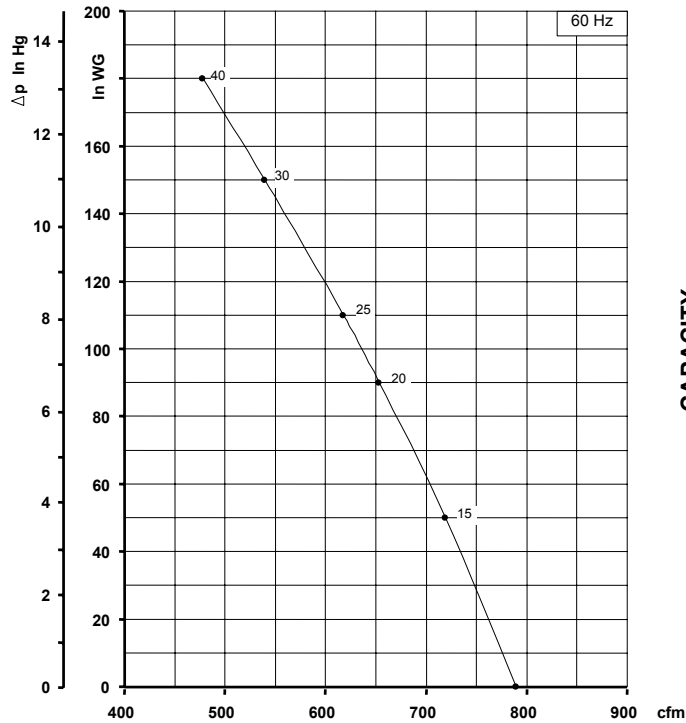
Dimensions in inches.
Dimension for reference only.

Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H	Weight Lbs (2)	
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm			
									Inches	GOR	GVR
115DH	790	659	15	15	3.7	5.9	96.8	93.8	47.25	507	447
			20	20	6.6	8.8	97.1	94.1	47.25	507	447
			25	25	8.1	11.8	97.4	94.4	47.25	507	447
			30	30	11.0	-	97.7	94.7	49.41	507	447
			40	40	13.3	-	98.0	95.0	50.78	509	449

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) Value is referred to weight of the machine without electric motor.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.

**STANDARD FEATURES**

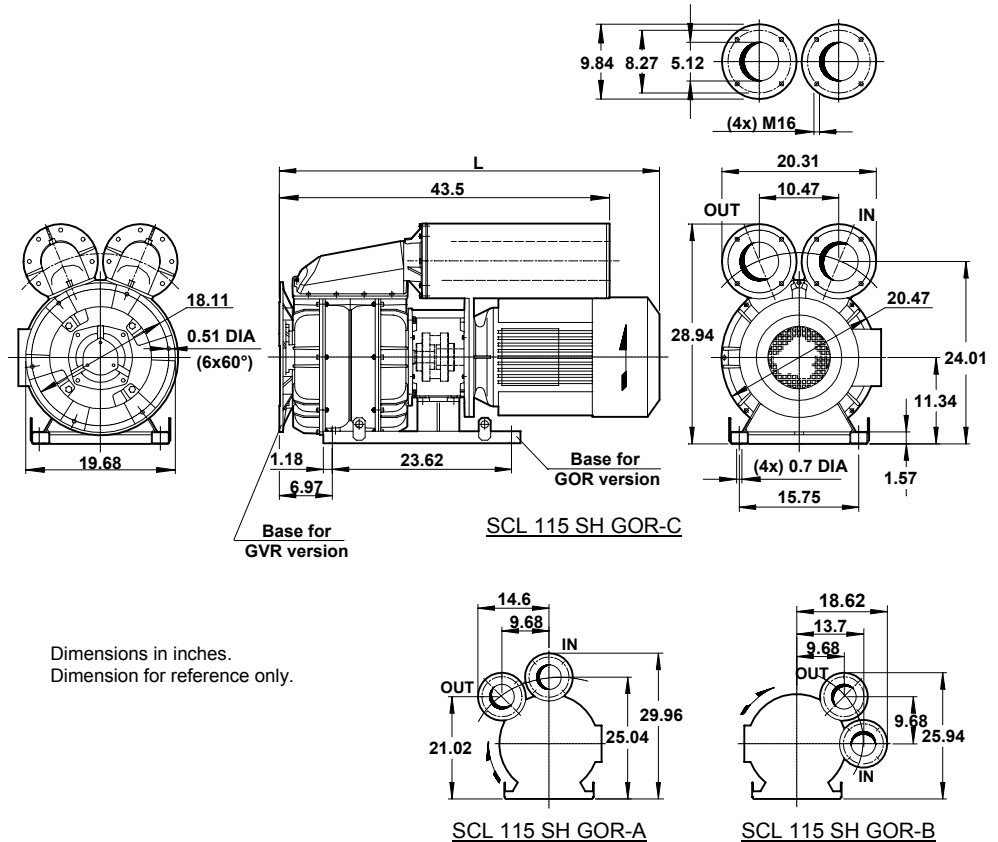
- Low weight cast aluminum impeller and cast iron casing.
- Quiet operation with integral inlet and outlet muffling.
- Recognized TEFC motor.
- High efficiency / low noise impeller design.
- No lubrication / maintenance required.
- Allowed ambient: +5 °F to +104 °F.
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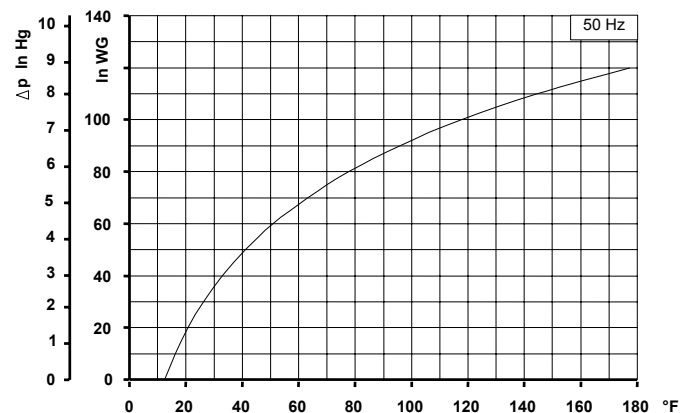
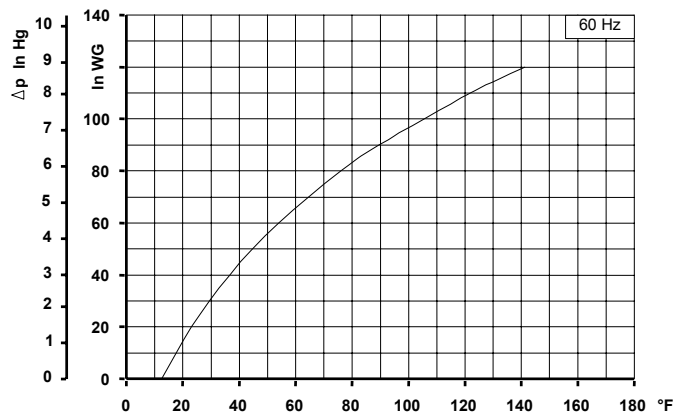
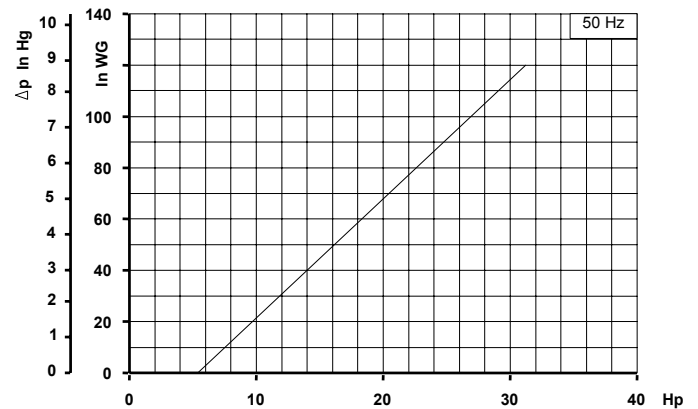
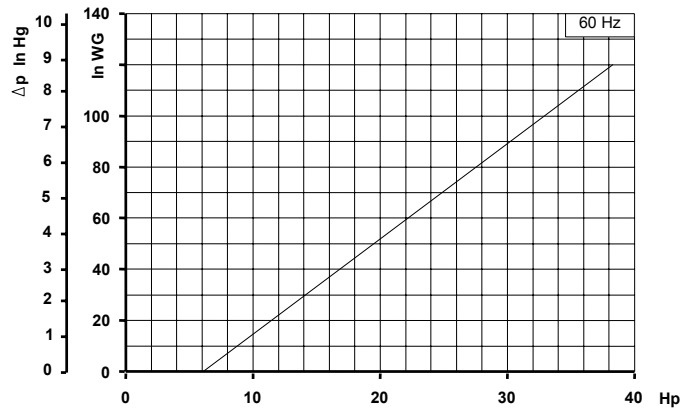
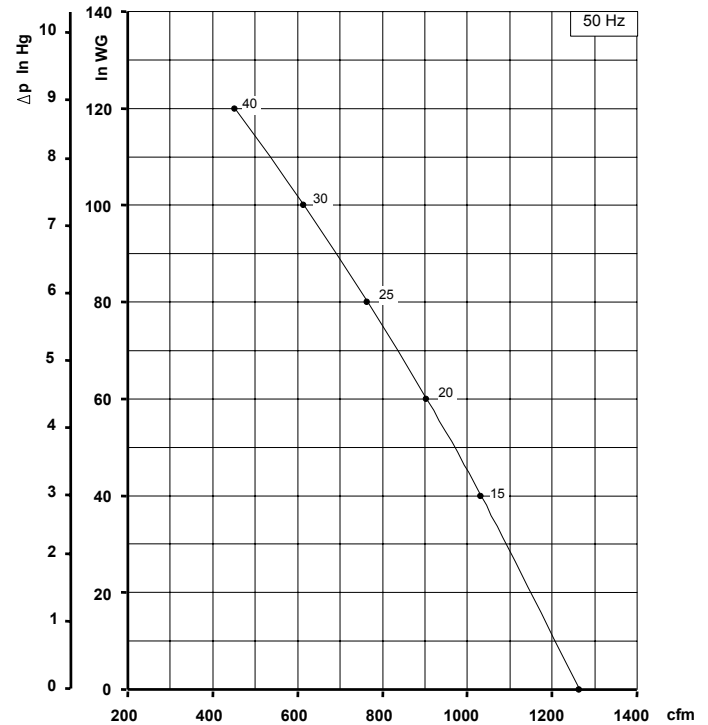
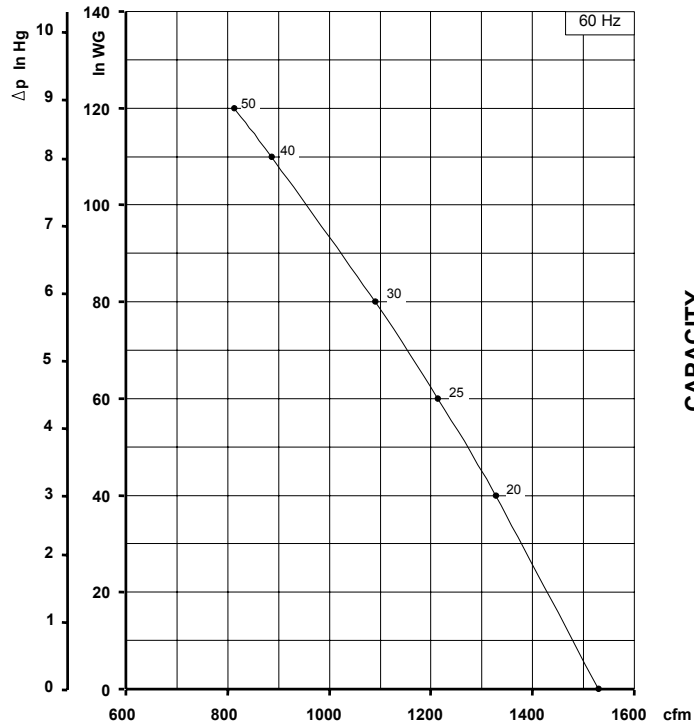


Model	Maximum flow cfm		Installed power Hp		Maximum differential pressure Δp (In Hg)		Noise level Lp dB (A) (1)		Overall dimensions H Inches	Weight Lbs (2)	
	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm	60 Hz 3500 rpm	50 Hz 2900 rpm		GOR	GVR
115SH	1530	1265	-	15	-	3.0	-	93.8	47.25	500	440
			20	20	3.0	4.4	96.8	94.1	47.25	500	440
			25	25	4.4	5.9	97.1	94.4	47.25	500	440
			30	30	5.9	7.4	97.4	94.7	49.41	500	440
			40	40	8.1	8.9	97.7	95.0	50.78	502	442
			50	-	8.9	-	98.0	-	51.77	502	442

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

(2) Value is referred to weight of the machine without electric motor.

- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.

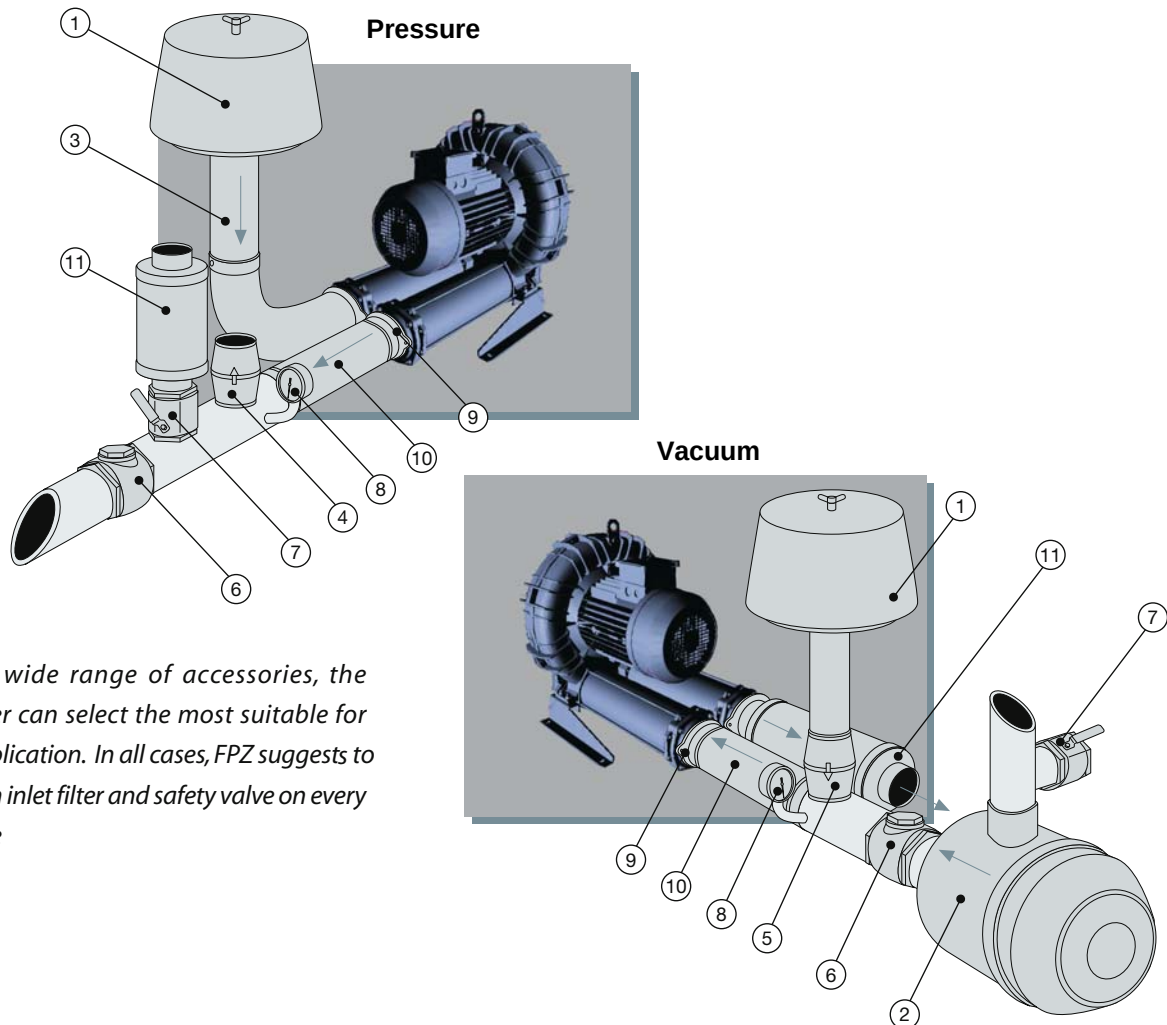


Curves refer to air at 68° F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs).
Values for flow, power consumption and temperature rise: +/-10% tolerance.
Data subject to change without notice.



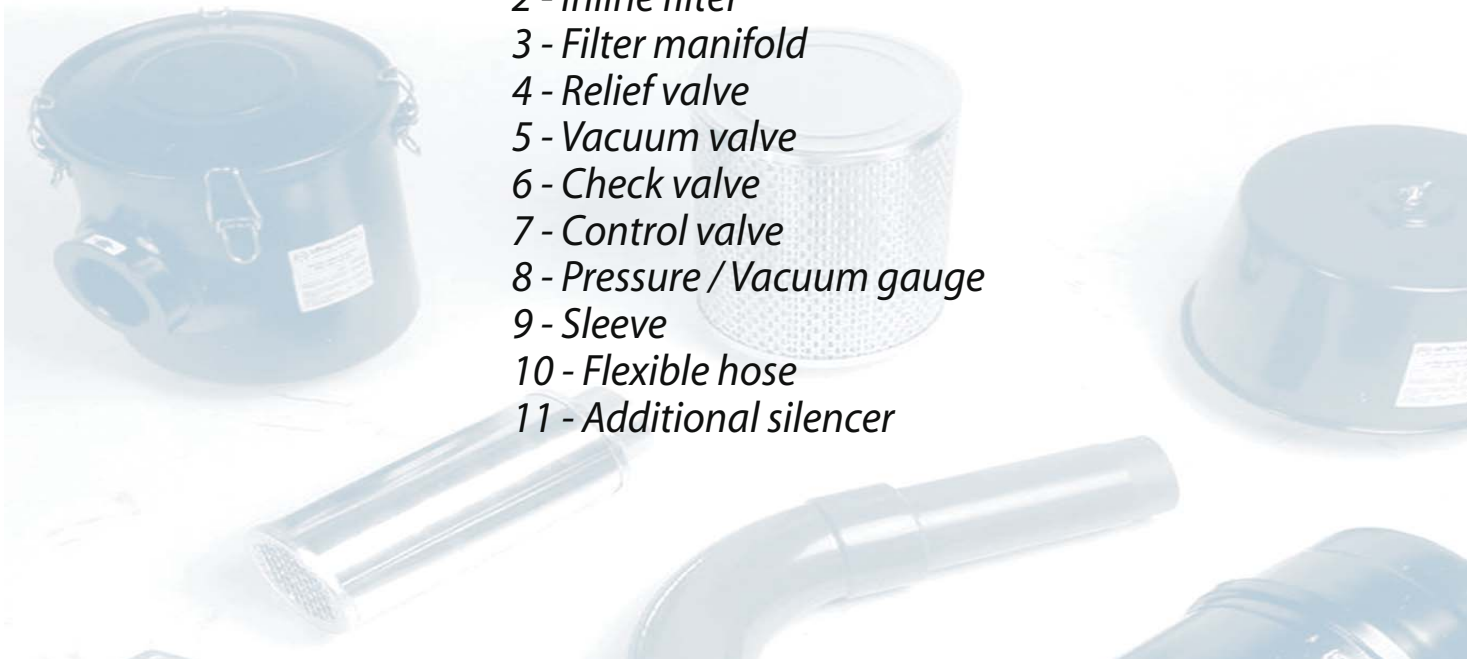
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ACCESSORIES Installation Guide



From a wide range of accessories, the customer can select the most suitable for their application. In all cases, FPZ suggests to install an inlet filter and safety valve on every machine

- 1 - Cartridge filter
- 2 - Inline filter
- 3 - Filter manifold
- 4 - Relief valve
- 5 - Vacuum valve
- 6 - Check valve
- 7 - Control valve
- 8 - Pressure / Vacuum gauge
- 9 - Sleeve
- 10 - Flexible hose
- 11 - Additional silencer





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ACCESSORIES

Safety Valves

SS1006

The following table is a guide to select the appropriate safety valve. The selections in the table are based on blowers operating at **60 Hz** - for 50 hz applications refer to the safety valve data sheets. To select the appropriate safety valve, determine the blower model, horsepower, and whether it is to be used for vacuum or pressure service. If it is desirable to have the valve activate at lower pressures than the maximum rated pressure or vacuum of the blower, a different safety valve might be required (refer to safety valve data sheets). In some cases, two valves are required. **FPZ valves are supplied uncalibrated.** All safety valves included detailed instructions on how to calibrate and install the valve.

Single Stage Blowers			
Model	HP	Safety Valve Vacuum	Safety Valve Pressure
K03-MS	3/4	VRL6	VRL6
K04-MS	ALL	VRL6	VRL6
K05-MS	ALL	VRL6	VRL6
K06-MS	3	VRL6	VRL8
K06-MS	4	VRL6	VRL6
K06-MS	5 1/2	VRL6	VRL6
K06-MS	6 1/5	VRL6	VRL6
K07-MS	4	VRL8	VRL8
K07-MS	5 1/2	VRL6	VRL8
K07-MS	7 1/2	VRL6	VRL6
K07-MS	10	VRL6	VRL6
K08-MS	5.5	VRL8	VRL9
K08-MS	7 1/2	VRL8	VRL8
K08-MS	10	VRL6	VRL8
K08-MS	15	VRL6	VRL6
K09-MS	7 1/2	VRL9	VRL9
K09-MS	10	VRL8	VRL8
K09-MS	15	VRL6	VRL8
K09-MS	20	VRL6	VRL6
K10-MS	7 1/2	VRL9	VRL9
K10-MS	10	VRL9	VRL9
K10-MS	15	VRL8	VRL8
K10-MS	20	VRL6	VRL8
K10-MS	25	-	VRL6
K11-MS	10	VRL9	VRL9
K11-MS	15	VRL9	VRL9
K11-MS	20	VRL8	VRL8
K11-MS	25	VRL6	VRL8
K12-MS	15	VRL9	VRL9
K12-MS	20	VRL9	VRL9
K12-MS	25	VRL8	VRL8
K03-TS	ALL	VRL6	VRL6
K04-TS	ALL	VRL6	VRL6
K05-TS	ALL	VRL8	VRL8
K06-TS	5 1/2	VRL9	VRL9
K06-TS	7 1/2	VRL8	VRL8
K06-TS	10	VRL6	VRL8
K07-TS	7 1/2	VRL9	VRL9
K07-TS	10	VRL9	VRL9
K07-TS	15	VRL8	VRL8
K08-TS	7 1/2	N.A	N.A.
K08-TS	10	VRL9	(2) VRL9
K08-TS	15	VRL9	VRL9
K09-TS	15	(2) VRL9	(2) VRL9
K09-TS	20	VRL9	VRL9
K09-TS	25	VRL8	VRL9
K10-TS	15	(2) VRL9	(2) VRL9
K10-TS	20	(2) VRL9	(2) VRL9
K10-TS	25	VRL9	VRL9
K11-TS	25	(2) VRL9	(2) VRL9
K11-TS	30	(2) VRL9	(2) VRL9
K12-TS	30	(3) VRL9	(3) VRL9
115SH	30	(2) VRL9	(2) VRL9
115SH	40	VRL9	VRL9
115SH	50	VRL9	VRL9

Two Stage Blowers			
Model	HP	Safety Valve Vacuum	Safety Valve Pressure
15DH	ALL	VRL6	VRL6
20DH	ALL	VRL6	VRL6
30DH	ALL	VRL6	VRL6
40DH	ALL	VRL6	VRL6
K07-MD	3	VRL6	VRL6
K07-MD	4	VRL6	VRL6
K07-MD	5 1/2	VRL6	VRL6
K07-MD	7 1/2	VRL6	VRL6-HP
K08-MD	5 1/2	VRL6	VRL6
K08-MD	7 1/2	VRL6	VRL6
K08-MD	10	VRL6	VRL6
K08-MD	15	-	VRL6-HP
K09-MD	5 1/2	VRL8	VRL8
K09-MD	7 1/2	VRL6	VRL6
K09-MD	10	VRL6	VRL6
K09-MD	15	-	VRL6-HP
K10-MD	7 1/2	VRL8	VRL8
K10-MD	10	VRL6	VRL6
K10-MD	15	VRL6	VRL6
K10-MD	20	-	VRL6-HP
K11-MD	10	VRL8	VRL8
K11-MD	15	VRL6	VRL8
K11-MD	20	VRL6	VRL6-HP
K11-MD	25	-	VRL6-HP
K12-MD	15	VRL8	VRL8
K12-MD	20	VRL6	VRL6
K12-MD	25	-	VRL6-HP
K04-TD	2	VRL6	VRL6
K04-TD	3	VRL6	VRL6
K05-TD	3	VRL6	VRL6
K05-TD	4	VRL6	VRL6
K05-TD	5 1/2	VRL6	VRL6
K06-TD	5 1/2	VRL6	VRL8
K06-TD	7 1/2	VRL6	VRL6
K06-TD	10	VRL6	VRL6
K07-TD	7 1/2	VRL8	VRL8
K07-TD	10	VRL6	VRL6
K07-TD	15	VRL6	VRL6
K08-TD	7 1/2	VRL8	VRL8
K08-TD	10	VRL8	VRL8
K08-TD	15	VRL6	VRL6
K09-TD	15	VRL8	VRL8
K09-TD	20	VRL6	VRL8
K09-TD	25	VRL6	VRL6
K10-TD	15	VRL9	VRL9
K10-TD	20	VRL8	VRL8
K10-TD	25	VRL6	VRL8
K11-TD	20	VRL9	VRL9
K11-TD	25	VRL8	VRL8
K12-TD	25	VRL8	VRL8
K12-TD	30	VRL9	VRL9
115DH	25	VRL8	VRL8
115DH	30	VRL6	VRL8
115DH	40	VRL6	VRL6

Valve selections are based on 60 Hz operation and refer to air having a density equal to 0.075 lbs / cu. Ft and inlet temperature of 68 deg F. Data is subject to change without notice.

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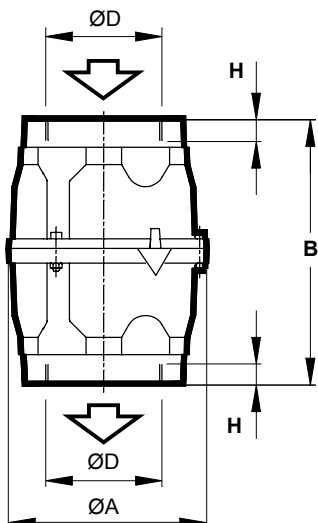
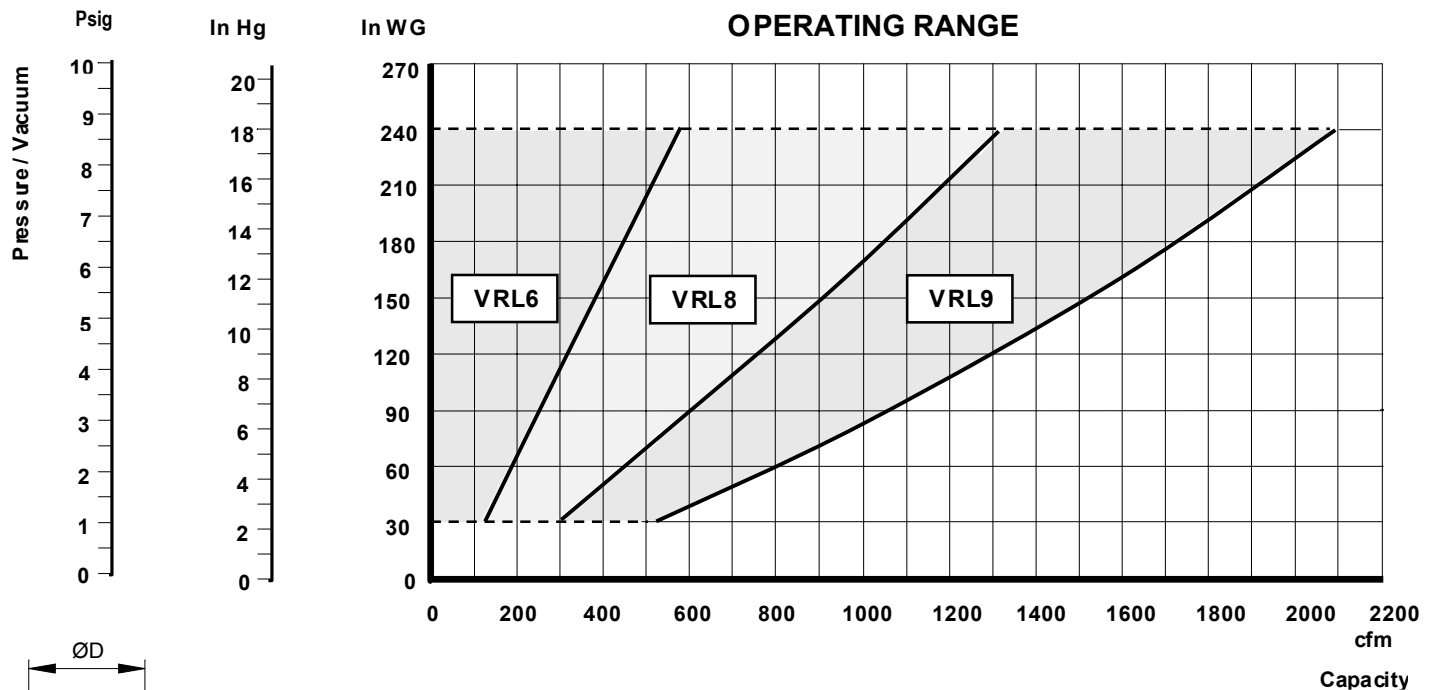
ACCESSORIES Safety Valves

The VRL valves are designed to protect blowers and / or motors from over pressurization or excess vacuum. When there is over pressurization, the valve opens and discharges to the outside. When there is excess in vacuum, the valve opens and takes flow from outside.

The valve have been designed for low pressure / low vacuum, with minimal difference between the initial value at which the valve begins to open and its fully-opened position. The valves are supplied with 2 different springs to maximize its efficiency.

These compact valves, made of aluminum alloy, are both easy to install and calibrate. The valves are designed to operate in a wide range of capacities. The VRL can be plumbed to divert excess primary flow through a secondary external outlet when working in pressure conditions or to pipe-in a secondary flow when working in vacuum.

Maximum efficiency is achieved by keeping operating values (flow versus pressure or vacuum) within the operating range (shaded area on graph). Capacity refers to air having a density equal to 0.075 lbs./cu.ft.

**VRL6****VRL8****VRL9**

OVERALL DIMENSIONS

TYPE	ND	D	A	B	H	WEIGHT (Lbs)
VRL6	2"	2" NPT	3.94	6.57	0.47	2.1
VRL8	3"	3" NPT	5.31	7.48	0.59	4.2
VRL9	4"	4" NPT	6.30	8.11	0.71	5.7

- Dimensions in inches.
- Specifications subject to change without prior notice.



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ACCESSORIES

High Pressure Safety Valves

The VRL H.P. valves are designed to protect blowers and / or motors from over pressurization or excess vacuum. When there is over pressurization, the valve opens and discharges to the outside. When there is excess in vacuum, the valve opens and takes flow from outside.

The valve have been designed for low pressure / low vacuum, with minimal difference between the initial value at which the valve begins to open and its fully-opened position.

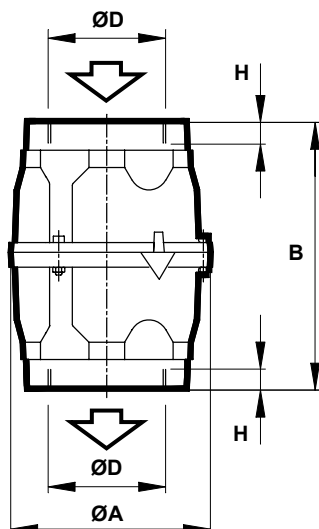
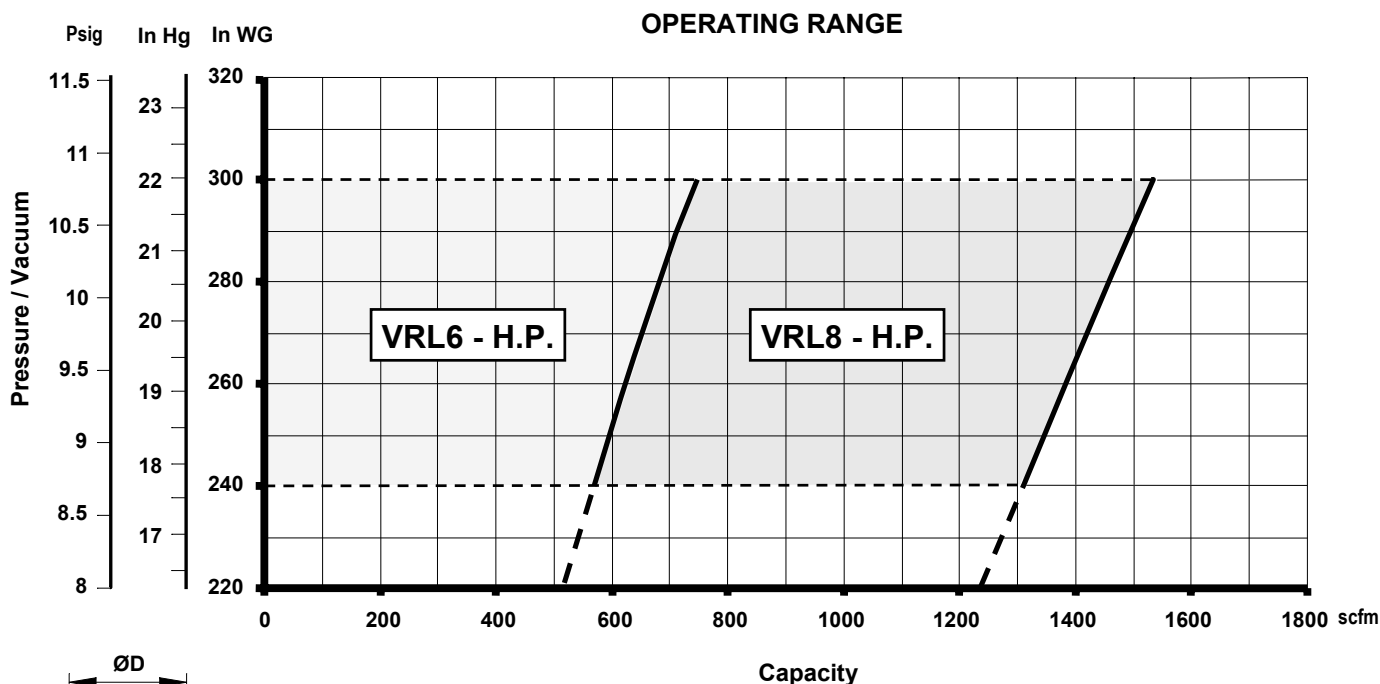
These compact valves, made of aluminum alloy, are both easy to install and calibrate. The valves are designed to operate in a wide range of capacities. The VRL H.P. can be plumbed to divert excess primary flow through a secondary external outlet when working in pressure conditions or to pipe-in a secondary flow when working in vacuum.

Maximum efficiency is achieved by keeping operating values (flow versus pressure or vacuum) within the **operating range** (shaded area on graph). Capacity refers to air having a density equal to 0.075 lbs./cu.ft .



VRL6 - H.P.

VRL8 - H.P.



OVERALL DIMENSIONS

TYPE	ND	D	A	B	H	WEIGHT (Lbs)
VRL6 - H.P.	2"	2" NPT	3.94	6.57	0.47	2.1
VRL8 - H.P.	3"	3" NPT	5.31	7.48	0.59	4.2

- Dimensions in inches.
- Specifications subject to change without prior notice.



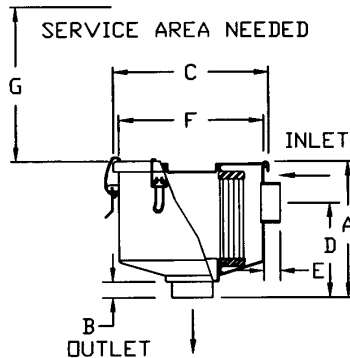
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ACCESSORIES

Inline Filters

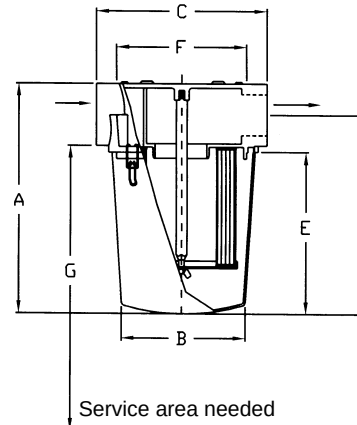
FPZ inline filters are typically used in vacuum applications to prevent debris from entering the blower. Inline filters consist of a metal housing with a metal cover retained by quick - change clamps for easy servicing of the element. Polyester elements are recommended for humid applications.

“CSL” Series



Dimension tolerance $\pm 1/8"$

“CT” Series



FEATURES & SPECIFICATIONS

- ♦ Polyester: 99%+ removal efficiency standard to 5 micron
- ♦ Paper: 99%+ removal efficiency standard to 2 micron
- ♦ Stainless steel torsion clips for durability
- ♦ Rugged all steel construction with Baked enamel finish
- ♦ Low pressure drop
- ♦ Positive sealing O-ring seal system
- ♦ Large dirt holding capacity and easy field cleaning, especially when mounted horizontally or inverted
- ♦ Fully-drawn one piece canister
- ♦ Filter change out differential: 10"-15" H₂O Over Initial Delta P

OPTIONS (Inquiries Encouraged)

- ♦ Vacuum regulator & gauge available
- ♦ Various media available
- ♦ Epoxy coated housings
- ♦ Special connections
- ♦ Available in **Stainless Steel**
- ♦ Activated carbon prefilter to reduce odor
- ♦ Alternate Top-to-canister fastening system for low pressure or pulsating systems
- ♦ Dome hood for high holding capacity

Polyester Element	Paper Element	NPT	DIMENSIONS (Inches)							Used on Models	Approx Wt. Lbs
			A	B	C	D	E	F	G		
CSL-843-050HC	CSL-842-050HC	1/2"	4 3/8"	9/16"	5 7/8"	2 1/2"	9/16"	5	3 1/4"	10DL	3
CSL-843-075HC	CSL-842-075HC	3/4"	4 3/8"	9/16"	5 7/8"	2 1/2"	9/16"	5	3 1/4"	15DH	3
CSL-843-100HC	CSL-842-100HC	1"	4 3/8"	3/4"	5 7/8"	2 1/2"	3/4"	5	3 1/4"	06	3
CSL-843-125HC	CSL-842-125HC	1 1/4"	4 3/8"	3/4"	5 7/8"	2 1/2"	3/4"	5	3 1/4"	K03-MS, K03-TD, 20DH	3
CSL-849-125HC	CSL-848-125HC	1 1/4"	6 1/2"	3/4"	7 5/16"	4 1/2"	3/4"	6 13/16"	5 1/4"	K03-TS	5
CSL-849-150HC	CSL-848-150HC	1 1/2"	6 1/2"	3/4"	7 5/16"	4 1/2"	3/4"	6 13/16"	5 1/4"	K04-MS, K04-TS, K04-TD, 30DH, 40DH	5
CSL-851-200HC	CSL-850-200HC	2"	10 1/4"	3/4"	8 3/4"	5"	3/4"	7 5/8"	9 1/4"	K05-MS, K06-MS, K05-TD, K06-TD, K07R-MD, K08R-MD	15
CT-235P-300C	CT-234P-300	3"	18 13/16"	9 7/8"	13 1/2"	16 4/5"	13 1/8"	10"	14"	K05-TS, K06-TS, K07-MS, K08-MS, K07-TD, K08-TD	30
CT-235P-400C	CT-234P-400C	4"	18 13/16"	9 7/8"	13 1/2"	16 4/5"	13 1/8"	10"	14"	K09-MS, K10-MS, K09-MD, K10-MD, K11-MD, K12-MD, K09-TD, K10-TD	29
CSL-335P-400*	CSL-334P-400C*	4"	27 1/8"	3"	14"	18 1/2"	3"	12"	15"	K07-TS, K08-TS, K11-MS, K12-MS, K11-TD, K12-TD	30
CT-275P-500C	CT-274P-500C	5"	18 1/4"	16"	19"	14 3/8"	9 7/8"	14 3/4"	20"	K09-TS, K10-TS	50

* Male x male npt connections

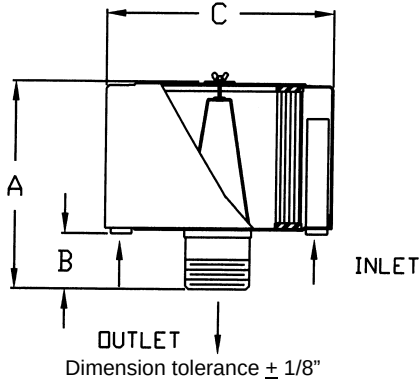


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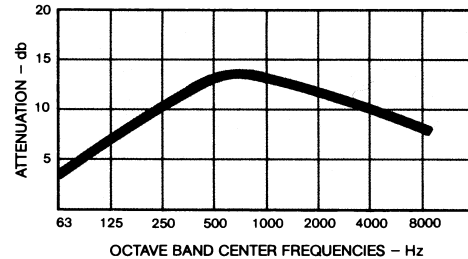
ACCESSORIES

Inlet Filters

FPZ inlet filters are used for pressure applications. The inlet filters combine filtration and sound attenuation into a compact package. Inlet filters consist of a filter cartridge enclosed by a carbon steel weather hood. Elements are easily serviceable by simply removing the weather hood.



TYPICAL NOISE ATTENUATION – FS SERIES



• Noise attenuation may vary due to application

FEATURES & SPECIFICATIONS

- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron (15 micron for FL10)
- Fully drawn weatherhood - no welds to rust or vibrate apart
- Tubular silencing design - tube is positioned to maximize attenuation and air flow while minimizing pressure drop
- Durable carbon steel construction with baked enamel finish and powder coated weatherhood
- Interchangeable elements: Polyester, Paper
- Low pressure drop center bracket and outlet pipe design
- Filter change out differential: 10"-15" H₂O Over Initial Delta P

OPTIONS (Inquiries Encouraged)

- Various media available
- 1/8" & 1/4" tap holes
- Pressure Drop Indicator
- Available in **Stainless Steel**
- Epoxy coated housings
- Hot dipped galvanized housings
- Special connections, NPT

Polyester Element	Paper Element	NPT	Dimensions (Inches)			Used on Models	Approx Wt. Lbs
			A	B	C		
FS-15-050	FS-14-050	½"	4	1 ½	6	10DL	2
FS-15-075	FS-14-075	¾"	4	1 ½	6	15DH	2
FS-15-100	FS-14-100	1"	4	1 ½	6	O6	2
FS-19P-125	FS-18P-125	1 ¼"	6 ⅝"	1 ⅝"	6	K03-TS, K03-MS, K03-TD, 20DH	3
FS-19P-150	FS-18P-150	1 ½"	6 ⅝"	1 ⅝"	6	K04-MS, K04-TD, 30DH, 40DH	4
FS-31P-200	FS-30P-200	2"	7 ¼"	2 ¼"	10	K05-MS, K05-TD	8
FS-231P-200	FS-230P-200	2"	12 ¼"	2 ¼"	10	K06-MS, K06-TD, K07R-MD, K08R-MD	14
FS-231P-300	FS-230P-300	3"	13"	3"	10"	K07-MS, K05-TS, K07-TD	15
FS-235P-300	FS-234P-300	3"	13"	3"	16"	K08-MS, K06-TS, K08-TD	29
FS-235P-400	FS-234P-400	4"	14"	4"	16"	K09-MS, K10-MS, K09-MD, K10-MD, K11-MD, K12-MD, K09-TD, K10-TD	30
FS-245P-400	FS-244P-400	4"	14"	4"	16"	K07-TS, K08-TS, K11-MS, K12-MS, K11-TD, K12TD	31
NA	FL10*	NA	14 3/8"	1 3/8"	16 3/16"	K09-TS, K10-TS, K11-TS, K12-TS, 115SH, 115DH	18

*Tubular silencers not included on FL10



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ACCESSORIES

Dirty Filter Indicator

FEATURES

- ♦ Monitors Filter **Continuously**
- ♦ **Easy** Filter Maintenance
- ♦ Filter Element Life **Maximized**
- ♦ Downtime **Reduced**
- ♦ Graduated Restriction Readings

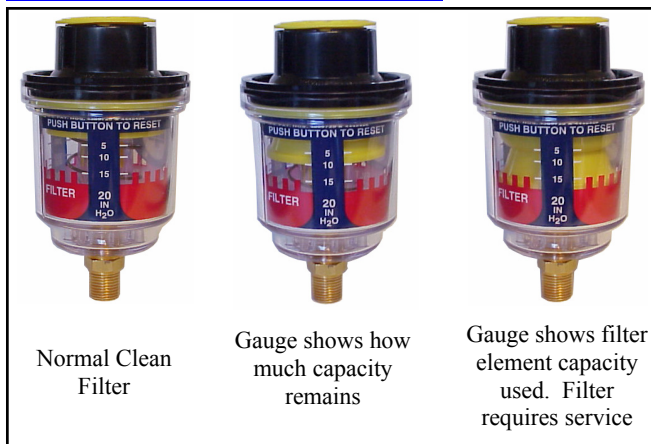
SPECIFICATIONS

The dirty filter indicator shows the amount of filter element restriction and how much life the element has left. This is a convenient and inexpensive solution to receiving the maximum usage from every element.

The yellow indicator in the filter monitor gauge drops as the dirt accumulates on the filter element. The element is ready for change out or servicing when the yellow indicator reaches the red zone. This allows you to determine the condition of the filter element even after the equipment has been shut down.

The element should be serviced or replaced at the maximum pressure drop of 10-15 inches of water. If the blower is operating at its maximum rated pressure, Contact the factory for recommended setting.

GAUGE IN ACTION



Part No: VG-020-013



Note: The monitor gauge has a 1/8" MPT connection. It is mounted either on the weatherhood or on the outlet pipe depending on the filter assembly. Used for pressure applications only.



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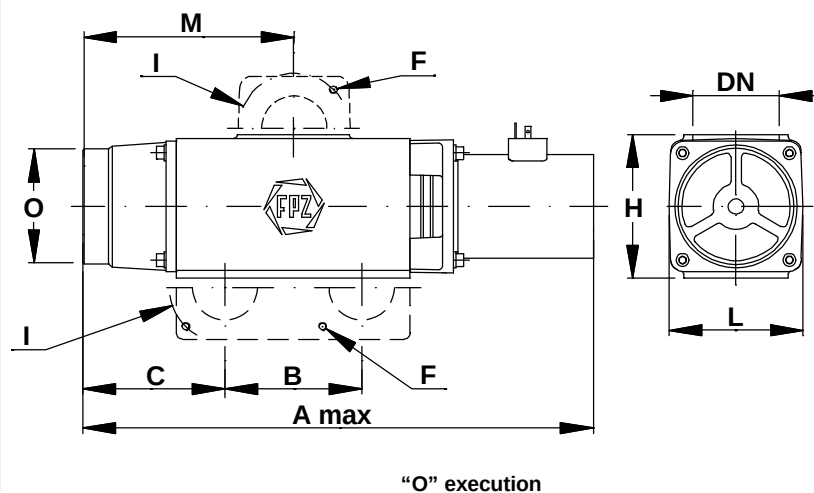
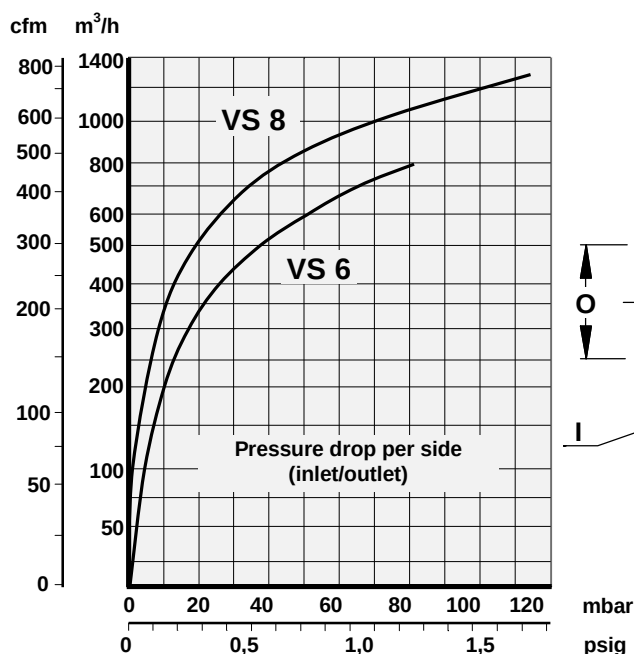
ACCESSORIES 65

Flow Converting Devices

VS6 / VS8

SN 2616-1 1/1

This all aluminum device is simple in both design and operation. Change of flow direction is attained by an electronically or pneumatically activated diverter.



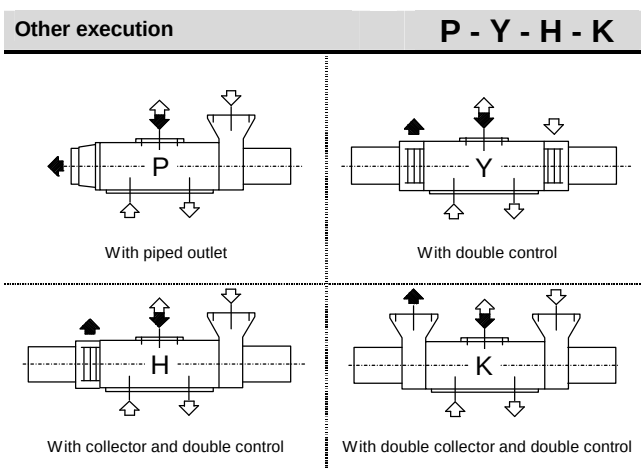
TYPE	DN	A		B	C	F	H	I	L	M	O
VS 6	2"	15.43 ⁽¹⁾	16.42 ⁽²⁾	4.13	4.29	M6	4.33	2 x int.3.35	3.94	6.38	3.46
VS 8	3"	19.09 ⁽¹⁾	20.08 ⁽²⁾	4.02	5.28	M6	6.3	4 x int.4.72	5.91	8.27	4.33

Overall dimensions refer to "O" execution without flanges

For the dimensions of the other executions pls see:

SI 1787 Executions O/P
SI 1788 Executions Y/H/K with pneumatic control
SI 2021 Executions Y/H/K with electrical control

(2) Electronically activated
(3) Pneumatically activated



Available connection

- TF threaded flange GAS (G 1 1/2", G 2", G 3");
- TF threaded flange NPT (NPT 1 1/2", NPT 2", NPT 3");
- See SU 0012.

Dimensions in inches. Tolerance on given values $\pm 10\%$ - unbinding and can be changed without prior notice.

		EXECUTION	
		O / P	Y / H / K
Electrical control			
Thrust solenoid			
Working ratio		60% of cycle time	
Max. cycle duration		5 min.	
Max. activated time		3 min.	
Power rating		56 W	120 W (3)
Standard supply voltages		V: 24 DC-110 AC-220 AC	
(3) Only for VS6 (dp max. +350/-350 mbar)			
Pneumatic control			
Thrust air cylindr		Double effect	
Max pressure		10 Bar	
Air consumption		0.02 litres/cycle	
Operating temperature		-5 °C ~ +70 °C	

**VK - FLANGE CONNECTOR FOR VRL VALVES**

This VK flange accessory allows direct connection of the VRL relief valves to the cover of the SCL "K" model blowers; either in pressure or vacuum.

Note: VK flanges usable on K-MS and K-TS blowers in vacuum or pressure. K-MD useable in vacuum only.

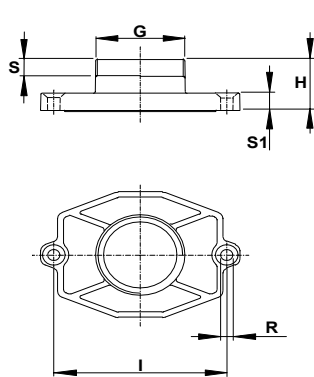


Fig. 1

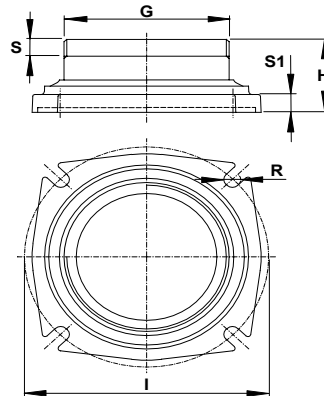
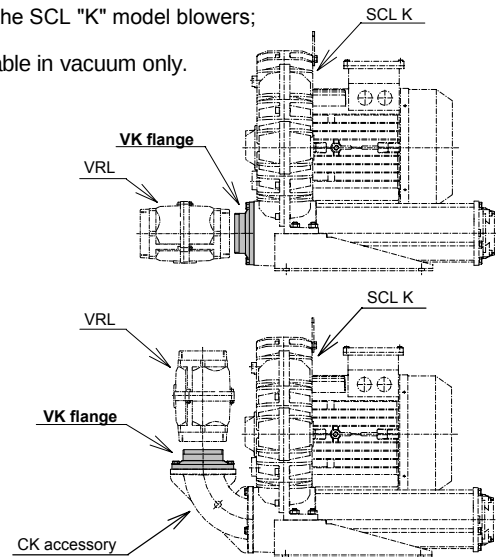


Fig. 2



Dimensions in Inches

Model	DN	G	H	I	R	S	S1	Fig.	Parts List
VK 5	1" 1/2	1" 1/2 NPT	1.18	3.62	0.26	0.59	0.39	1	SP 1552
VK 6	2"	2" NPT	1.97	4.33	0.33	0.75	0.39		SP 1553
VK 6A	2"	2" NPT	2.34	5.12	0.35	0.75	0.43	2	SP 1611
VK 8	3"	3" NPT	1.69	5.12	0.35	0.83	0.43		SP 1554
VK 9	4"	4" NPT	1.81	5.90	0.35	0.90	0.43		SP 1555

PK - FLANGED TUBE CONNECTOR FOR SCL K

The PK accessory allows connection of the "K" Series blowers directly to the process line without use of the intake or outlet manifolds.

CHARACTERISTICS

Flange in aluminium alloy with tube stub connection.

Supplied as a kit for mounting (with gasket and screws with wrench), please see the respective Parts List in table.

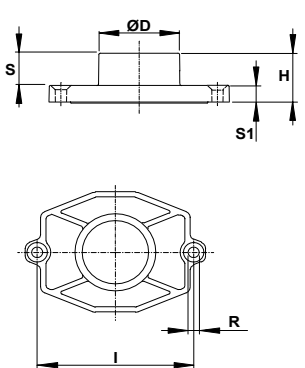


Fig. 1

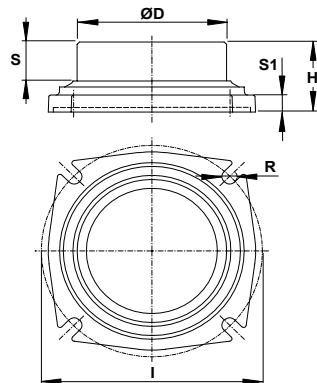


Fig. 2

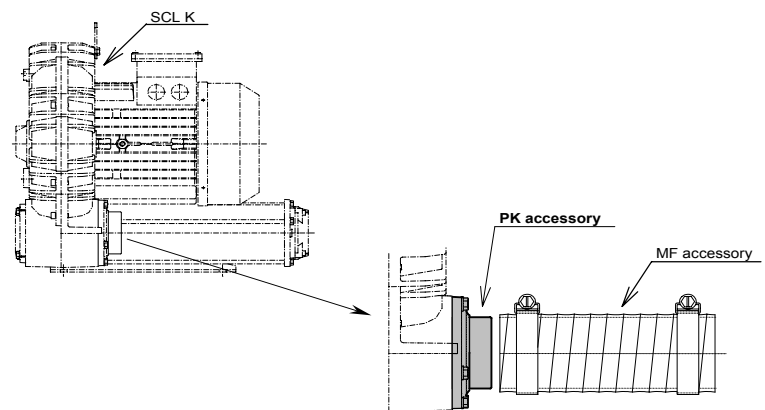


Fig. 2

Dimensions in Inches

Model	DN	D	H	I	R	S	S1	Fig.	Parts List
PK 5	1" 1/2	1.89	1.18	3.62	0.26	0.79	0.39	1	SP 1543
PK 6	2"	2.36	1.97	4.33	0.33	1.38	0.39		SP 1544
PK 6A	2"	2.36	2.34	5.12	0.35	1.38	0.43	2	SP 1609
PK 8	3"	3.46	1.69	5.12	0.35	0.94	0.43		SP 1545
PK 9	4"	4.48	1.81	5.90	0.35	1.06	0.43		SP 1546

Note: PK flanges usable on K-MS, K-TS, K-TD blowers in vacuum or pressure. K-MD useable in vacuum only.



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ACCESSORIES CA / CK Manifolds

CA MANIFOLD FOR FA/FL FILTERS

90° wide radius PVC manifold with flanged connection and unthreaded tube end. Working temperature -20° to +40°C (-5° to +105 °F).

Type	DN	A	B	D	S	I	R	Y	Fig.
CA4	1.25"	8.66	3.54	1.65	0.59	2.95	0.28	30°	1
CA4V	1.25"	8.66	3.54	1.65	0.59	2.52	0.28	-	2
CA5	1.5"	10.24	4.33	1.89	0.59	3.35	0.28	45°	1
CA5V	1.5"	10.24	4.33	1.89	0.59	2.95	0.28	-	2
CA6	2"	12.60	5.31	2.36	0.59	3.35	0.28	45°	1
CA6V	2"	12.60	5.31	2.36	0.59	3.35	0.28	-	2
CA8	3"	14.96	7.28	3.46	0.59	4.72	0.28	-	3
CA9	4"	15.75	9.25	4.45	0.79	5.91	0.35	-	
CA10	5"	17.72	11.81	5.51	0.79	8.27	0.71	-	

Dimensions in inches - unbinding and can be changed without prior notice.

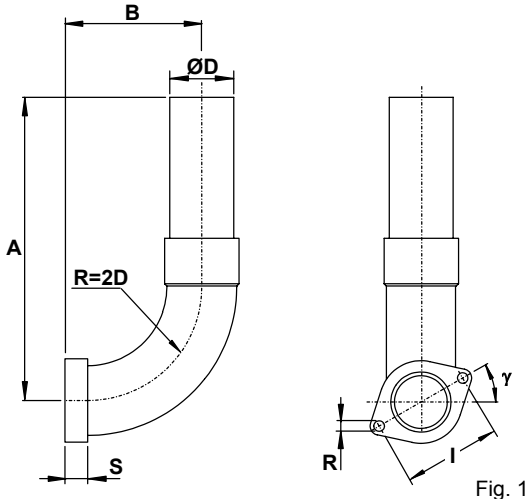


Fig. 1

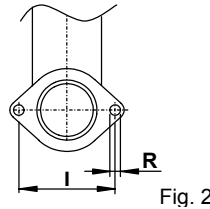


Fig. 2

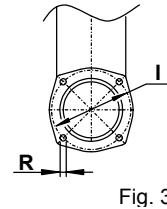


Fig. 3

CK MANIFOLD

90° aluminium manifold for "K" models supplied in a kit containing the gasket and bolts.

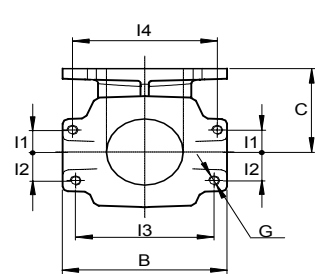


Fig. 1

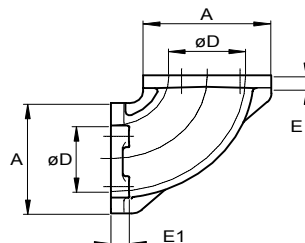
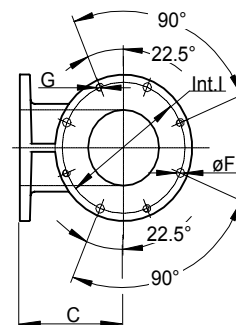
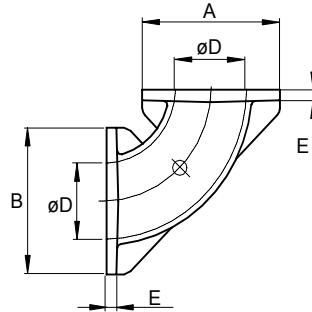
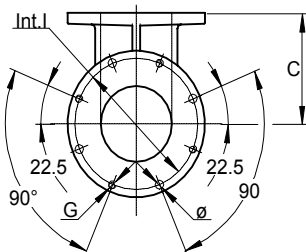
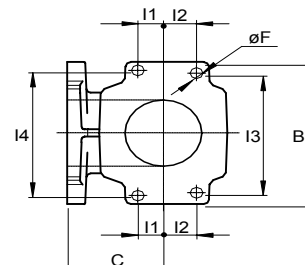


Fig. 2



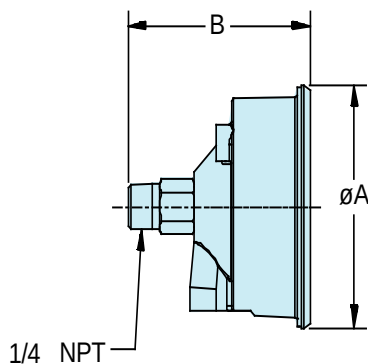
Type	DN	A	B	C	D	E	E1	F	G	I	I1	I2	I3	I4	Fig.
CK4	1.25"	2.72	3.33	2.20	1.15	0.27	0.45	0.27	M6	-	0.57	0.57	2.76	2.76	1
CK5	1.5"	3.15	3.94	2.20	1.69	0.27	0.45	0.27	M6	-	0.69	0.69	3.35	3.35	
CK6	2"	3.62	4.65	2.72	2.16	0.31	0.51	0.35	M8	-	0.73	0.95	3.92	4.10	
CK8	3"	5.71	5.71	4.31	2.95	0.39	-	0.35	M8	5.12	-	-	-	-	2
CK9	4"	6.50	6.50	5.22	3.54	0.39	-	0.35	M8	5.90	-	-	-	-	
CK10	5"	8.66	8.66	7.56	5.04	0.39	-	0.35	M8	7.48	-	-	-	-	

Dimensions in inches - unbinding and can be changed without prior notice.



Gauges, Check Valves, Silencers, Enclosures

Gauges

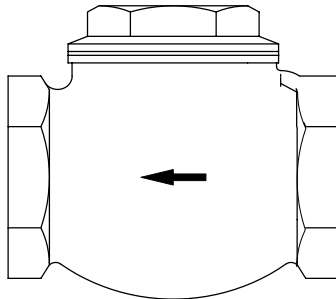


Gauges are important for monitoring the operating pressure or vacuum of the blower. Gauges should be positioned as close to the blower as possible.

Part number	Duty	Scale	A	B
VG25-60	Vacuum	0-60" H ₂ O	2.88	2.59
VG25-200	Vacuum	0-200" H ₂ O		
VG25-300	Vacuum	0-300" H ₂ O		
PG25-60	Pressure	0-60" H ₂ O		
PG25-200	Pressure	0-200" H ₂ O		
PG25-300	Pressure	0-300" H ₂ O	2.25	1.9
PG20-15	Pressure	0-15 psi		

Dimensions in inches. Tolerance on given values $\pm 10\%$ - unbinding and can be changed without prior notice.

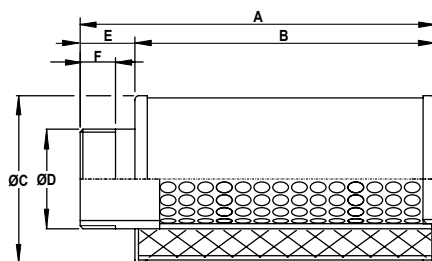
Check Valves



Check valves allow air to flow in one direction. Check valves prevent system pressure or vacuum from entering the blower.

Part Number	DN	Description
CV075	0.75" NPT	Bronze Swing Check Valve
CV10	1" NPT	Bronze Swing Check Valve
CV125	1.25" NPT	Bronze Swing Check Valve
CV15	1.5" NPT	Bronze Swing Check Valve
CV20	2" NPT	Bronze Swing Check Valve
CV30	3" NPT	Bronze Swing Check Valve
CV40	4" NPT	Bronze Swing Check Valve

Silencers



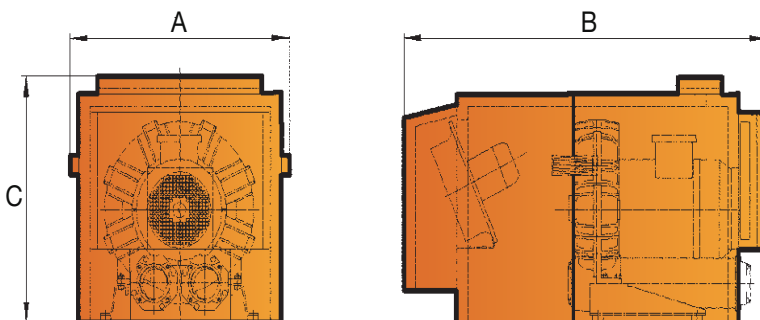
Silencers provide additional sound attenuation.

TYPE	D	A	B	C	E	F	lbs
SS 4	1" 1/4	7.5	5.5	2.8	2	0.6	0.8
SS 5	1" 1/2	7.9	6.7	3.1	1.2	0.8	1.1
SS 6	2"	9.1	7.9	3.5	1.2	0.8	1.3
SS 8	3"	19.1	15.7	6.0	3.3	0.8	4.8
SS 9	4"	18.3	16.9	6.7	1.1	0.8	9.9

Steel manufactured (apart from SI 9 / SS 9 - entirely in aluminium) with sound absorbing polyurethane element.

Dimensions in inches. Tolerance on given values $\pm 10\%$ - unbinding and can be changed without prior notice.

Sound Enclosures



Part #	Used on models	A	B	C
IH1	SCL K03-MS	13.4	18.2	15.8
IH3	SCL K04-MS	14.3	19.7	16.5
IH5	SCL K05-6 MS	16.9	26.8	21.3
IH7	SCL K07-8 MS / MD	31.7	64.4	26
IH8	SCL K07-8 TD	31.7	64.4	26
IH9	SCL K07-8 TS	31.7	64.4	26
IH10	SCL K09-11 MS/MD	31.7	67.2	30
IH11	SCL K09-10 TD	31.7	67.2	30
IH12	SCL K11-TD	31.7	67.2	30
IH13	SCL K09-11 TS	31.7	67.2	31.5

Dimensions in inches - unbinding and can be changed without prior notice.

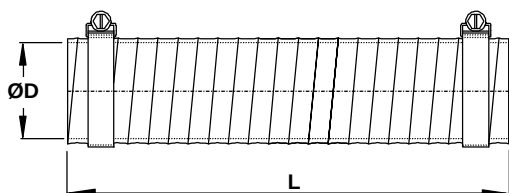


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Flexible Sleeves / Flanges

FLEXIBLE SLEEVE

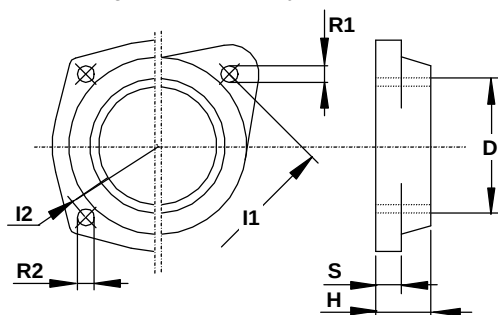
Steel reinforced rubber - coated fibreglass flex tubing, including 2 adjustable hose clamps. Working temperature: $-55 \div +176$ °C ($-67 \div +350$ °F). Maximum working pressure: 3 bar (44 psi).



TIPO TYPE	DN	D	L
MF 1	1/2"	20	200
MF 2	3/4"	26	200
MF 3	1"	32	200
MF 4	1" 1/4	45	200
MF 5	1" 1/2	50	250
MF 6	2"	64	250
MF 8	3"	89	330
MF 9	4"	114	330
MF 10	5"	140	330

THREADED FLANGE

Threaded flange in aluminum alloy.



TIPO TYPE	D	H	I 1	I 2	R 1	R 2	S
TF 3	G 1"	18	55	-	6.5	-	10
TF 4	G 1" 1/4	18	75	-	6.5	-	10
TF 4V	G 1" 1/4	18	64	-	6.5	-	10
TF 5	G 1" 1/2	18	85	-	6.5	-	10
TF 5V	G 1" 1/2	18	75	-	6.5	-	10
TF 6	G 2"	18	85	-	6.5	-	10
TF 8	G 3"	25	-	120	-	6.5	13
TF 9	G 4"	25	-	150	-	9	13

SLEEVE

Aluminum alloy or steel flanged sleeve coupling.

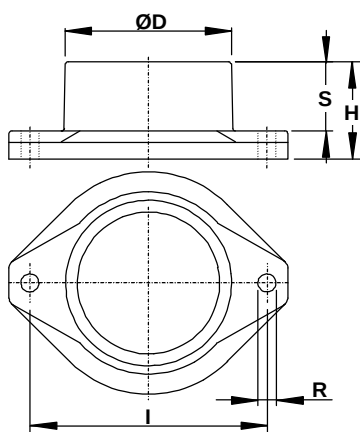


Fig. 1
Mat.: Al

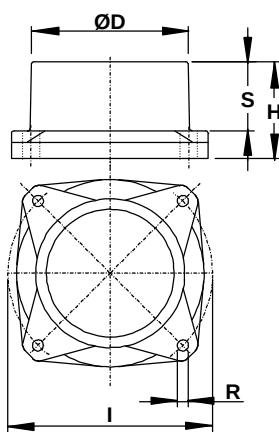


Fig. 2
Mat.: Al

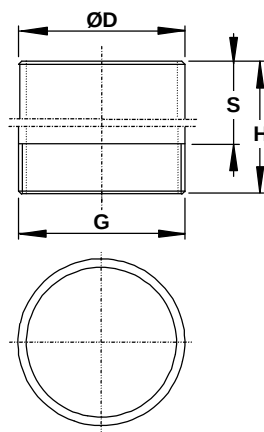


Fig. 3
Mat.: Fe

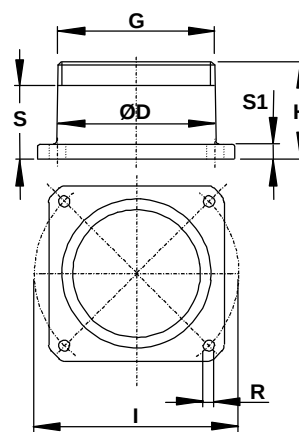


Fig. 4
Mat.: Fe

TIPO TYPE	DN	D	G	H	I	R	S	Fig.
MP 1	1/2"	21	G 1/2"	100	-	-	85	3
MP 2	3/4"	27	G 3/4"	100	-	-	85	
MP 3	1"	33	-	35	55	6.5	25	
MP 4	1" 1/4	42	-	35	75	6.5	25	
MP 4V	1" 1/4	42	-	35	64	6.5	25	
MP 5	1" 1/2	48	-	35	85	6.5	25	1

TIPO TYPE	DN	D	G	H	I	R	S	S1	Fig.
MP 5V	1" 1/2	48	-	35	75	6.5	25	-	1
MP 6	2"	60	-	35	85	6.5	25	-	
MP 8	3"	88	-	45	120	6.5	32	-	2
MP 9	4"	114	4" npt	100	-	-	80	-	3
MP 10	5"	140	5" npt	60	210	18	40	8	4

Dimensions in mm. Tolerance on given values $\pm 10\%$ - unbinding and can be changed without prior notice.



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TECHNICAL Single Phase Electric Motors

SN 2102-2

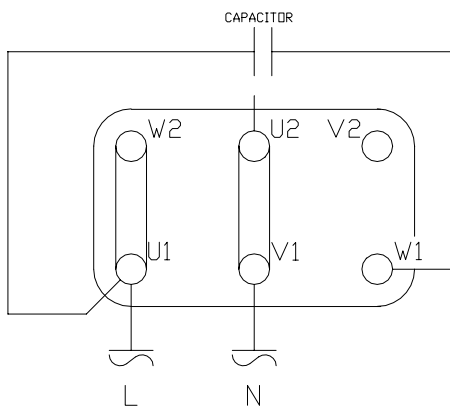
SINGLE PHASE DUAL VOLTAGE

GENERAL SPECIFICATIONS:

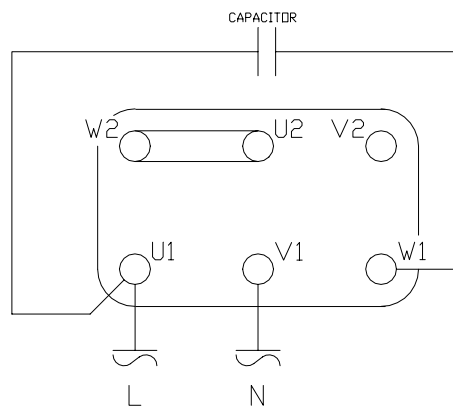
1- Type:	Single phase AC MOTOR - IEC 60034
2- Marks:	cURus, CE
3- Poles:	2
4- Frequency:	60 Hz
5- Insulation Class:	F
6- Enclosure:	TEFC
7- Protection:	IP 55
8- Thermal Protector:	KLIXON 140 °C
9- Service Factor:	1.0
10- Max. Ambient:	40°C
11- Duty:	Cont.
12- Construction:	Aluminium frame

POWER Hp	VOLTAGE V	SPEED min ⁻¹	FLA A	STARTING CURRENT A	POWER FACTOR cos φ	CAPACITOR μF
1/3	115-208/230	3330	3.5 / 1.7	12.3 / 6.0	0.97	16.0 - 400 V
1/2	115-208/230	3360	4.8 / 2.6	16.8 / 9.1	0.96	16.0 - 400 V
3/4	115-208/230	3450	9.8 / 4.9	46.1 / 23.0	0.95	20.0 - 400 V
1	115-208/230	3450	13.0 / 7.2	49.4 / 24.7	0.66	31.5 - 400 V
1 ½	115-208/230	3330	13.6 / 7.3	54.4 / 29.2	0.97	50.0 - 400 V
2	115-208/230	3440	24.0 / 12.0	79.2 / 39.6	0.90	70.0 - 400 V
3	115-208/230	3425	31.5 / 16.0	154.4 / 78.4	0.85	60.0 - 400 V

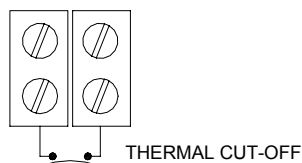
LOW VOLTAGE 115 V - 60 Hz



HIGH VOLTAGE 208-230 V - 60 Hz



THERMAL PROTECTION NORMALLY CLOSED



Specifications subject to change without notice. Alternate motor suppliers may be used.



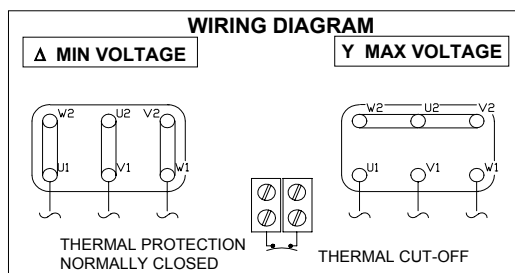
3-PHASE MOTOR

GENERAL SPECIFICATIONS:

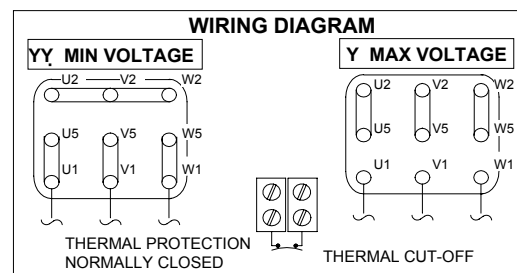
- | | |
|------------------------------|-------------------------------------|
| 1- Type: | 3-phase AC MOTOR - IEC 60034 |
| 2- Marks: | cURus, CE |
| 3- Poles: | 2 |
| 4- Frequency: | 60 Hz / 50 Hz |
| 5- Insulation Class: | F |
| 6- Enclosure: | TEFC |
| 7- Protection: | IP 55 |
| 8- Thermal Protector: | KLIXON 150 °C |
| 9- Service Factor: | 1.15 |
| 10- Max. Ambient: | 40°C |
| 11- Duty: | Cont. |
| 12- Construction: | Aluminium frame |

POWER		SIZE	60 HZ			50 HZ			STARTING CURRENT RATIO	CABLE ENTRY
HP	KW		VOLTAGE	FLA 208 / 460	POWER FACTOR cos ϕ	VOLTAGE	FLA 230 / 400 (200 V)	POWER FACTOR cos ϕ		
0.33	0.25	63	208-230/460	1.5 / 0.7	0.75	230/400	1.4 / 0.8	0.70	3.9	M16
0.5	0.37	63	208-230/460	2.3 / 1.0	0.79	230/400	2.1 / 1.2	0.73	3.6	M16
0.75	0.55	71	208-230/460	2.7 / 1.2	0.85	230/400	2.6 / 1.5	0.78	3.8	M16
1	0.75	80	208-230/460	3.3 / 1.5	0.84	230/400	3.5 / 2.0	0.78	5.0	M20
1.5	1.1	80	208-230/460	5.0 / 2.3	0.86	230/400	4.5 / 2.6	0.82	5.6	M20
2	1.5	90	208-230/460	6.3 / 2.9	0.82	230/400	6.1 / 3.5	0.82	5.0	M20
3	2.2	90	208-230/460	9.0 / 4.1	0.87	230/400	8.5 / 4.9	0.81	7.1	M20
4	3.0	90	208-230/460	11.2 / 5.9	0.80	230/400	11.8 / 6.8	0.80	7.0	M20
		100	208-230/460	12.9 / 6.1	0.85	230/400	11.6 / 6.7	0.85	6.0	M25
5.5	4.0	100	208-230/460	17.5 / 8.1	0.88	230/400	14.0 / 8.1	0.88	6.2	M25
7.5	5.5	112	208-230/460	20.0 / 9.5	0.86	230/400	19.4 / 11.2	0.85	7.6	M25
		132	208-230/460	19.7 / 11.4	0.82	230/400	19.7 / 11.4	0.82	7.0	M32
10	7.5	112	208-230/460	26.0 / 12.5	0.88	230/400	25.6 / 14.8	0.87	8.2	M25
		132	208-230/460	26.5 / 15.3	0.87	230/400	26.5 / 15.3	0.87	6.4	M32
15	11.0	132	208-230/460	40.0 / 21.7	0.84	230/400	37.5 / 21.7	0.84	6.9	M32
20**	15.0	132**	208-230/460	54.0 / 26.0	0.86	200/400	(61.0) / 30.5	0.82	7.0	M32
		160	208-230/460	54.0 / 29.8	0.85	230/400	51.6 / 29.8	0.85	8.1	M40
25	18.5	160	208-230/460	63.0 / 34.8	0.87	230/400	60.0 / 34.8	0.87	8.5	M40

* FLA x Starting current ratio = starting current



6 LEADS MOTORS.
208-230/460 V - 60 Hz
230/400 V - 50 Hz



**** 9 LEADS MOTOR. APPLICABLE TO 20Hp SIZE 132**
208-230/460 V - 60 Hz
200/400 V - 50 Hz

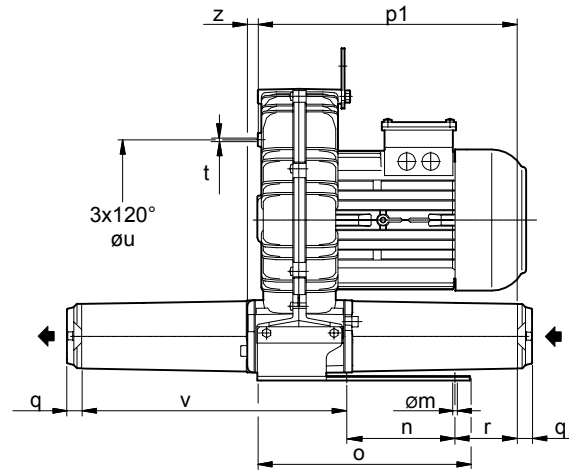
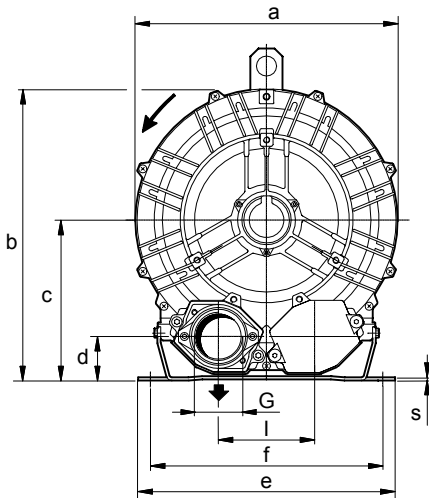


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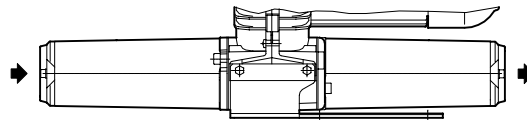
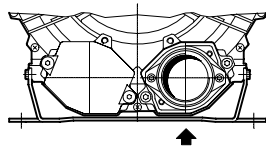
TECHNICAL SCL K03 / K04 / K05 / K06

MS SERIES

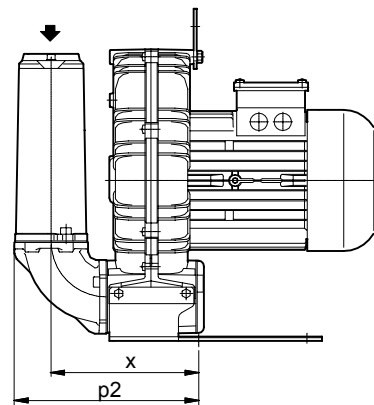
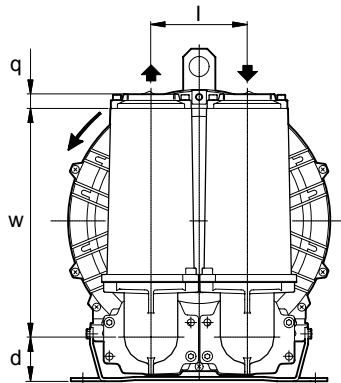
SI 1839- 7 1/1



In-line silencer
configuration



Configuration with 2
90° manifolds
(Accessory)



DIMENSIONS IN Inches.
 DIMENSIONS FOR REFERENCE ONLY

Model	a	b	c	d	e	f	G	l	m	n	o
K03-MS	9.49	10.55	5.79	1.69	9.06	8.07	1" ¼ NPT	3.39	0.39	3.27	5.59
K04-MS	11.22	12.40	6.77	1.93	10.04	8.86	1" ½ NPT	4.02	0.47	3.74	6.73
K05-MS	12.87	14.37	7.87	2.13	12.60	10.24	2" NPT	4.72	0.59	4.53	10.43
K06-MS	14.80	15.47	8.07	2.13	12.80	11.42	2" NPT	4.92	0.59	5.51	10.71

Model	p1	p2	q	r	s	t	u	v	w	x	z
K03-MS	8.07	5.51	0.71	2.95	0.16	M6	5.51	7.09	7.40	4.17	0.47
K04-MS	8.74	6.30	0.71	2.76	0.16	M6	6.89	7.68	7.40	4.72	0.71
K05-MS	12.60	9.06	0.71	3.86	0.16	M8	7.87	12.99	11.22	7.24	0.75
K06-MS	13.15	9.61	0.71	3.35	0.16	M8	9.45	13.07	11.22	7.80	0.75



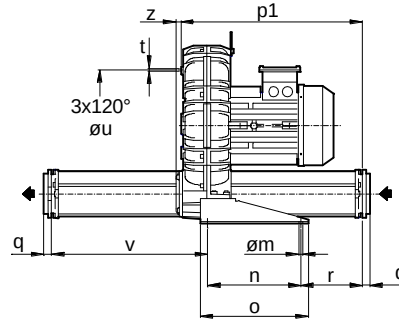
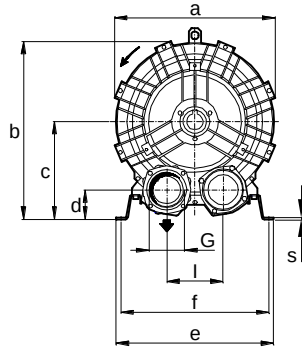
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E-mail usa@fpz.com

TECHNICAL 73

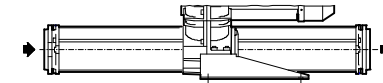
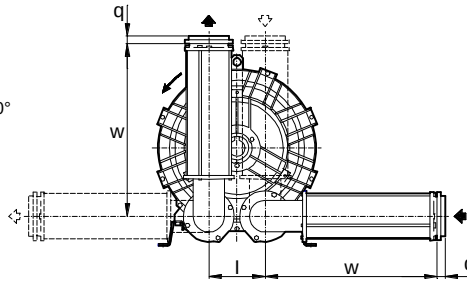
SCL K07 / K08 / K09 / K10 / K11 / K12

MS SERIES
SI 1821-7 1/1

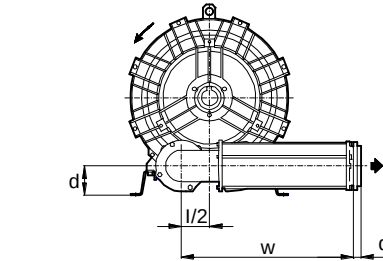
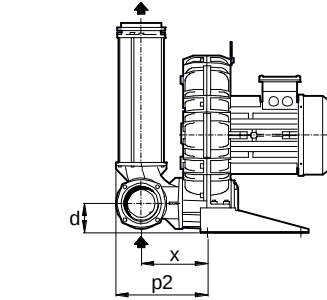
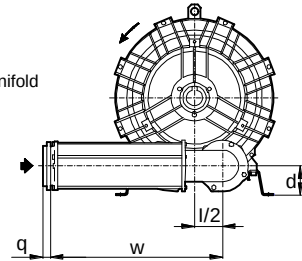
In-line silencer
configuration



Configuration with 90°
Manifolds
(Accessory)



Configuration with 90° manifold
and reduced dimensions
(Accessory)



DIMENSIONS IN Inches.
DIMENSIONS FOR REFERENCE ONLY.

Model	a	b	c	d	e	f	G	I	m	n	o
K07-MS	16.69	18.94	10.59	3.23	18.43	17.24	3" NPT	6.10	0.51	11.81	13.78
K08-MS	17.99	19.61	10.59	3.23	18.82	17.64	3" NPT	6.10	0.51	11.81	13.78
K09-MS	19.37	22.09	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78
K10-MS	20.31	22.56	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78
K11-MS	21.34	23.74	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78
K12-MS	21.57	23.82	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78

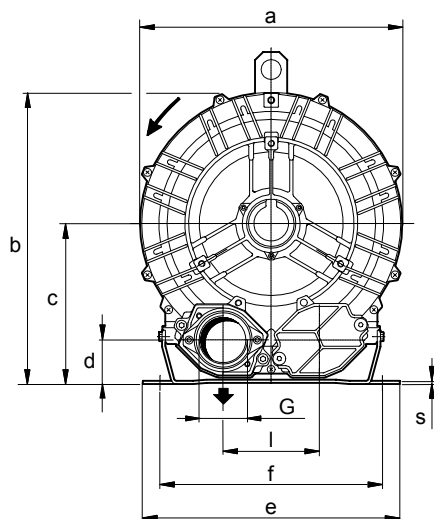
Model	p1	p2	q	r	s	t	u	v	w	x	z
K07-MS	20.16	10.04	0.98	5.39	0.20	M8	11.61	17.44	18.94	7.20	0.63
K08-MS	20.16	10.04	0.98	5.39	0.20	M8	12.20	17.44	18.94	7.20	0.63
K09-MS	23.07	11.81	0.98	7.83	0.20	M8	14.17	19.88	21.89	8.46	0.63
K10-MS	23.07	11.81	0.98	7.83	0.20	M8	14.17	19.88	21.89	8.46	0.63
K11-MS	23.46	12.00	0.98	8.03	0.20	M8	15.35	20.08	21.89	8.66	0.63
K12-MS	23.58	12.00	0.98	8.03	0.20	M8	15.35	20.08	21.89	8.66	0.51



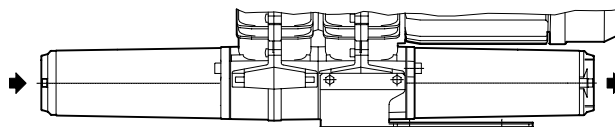
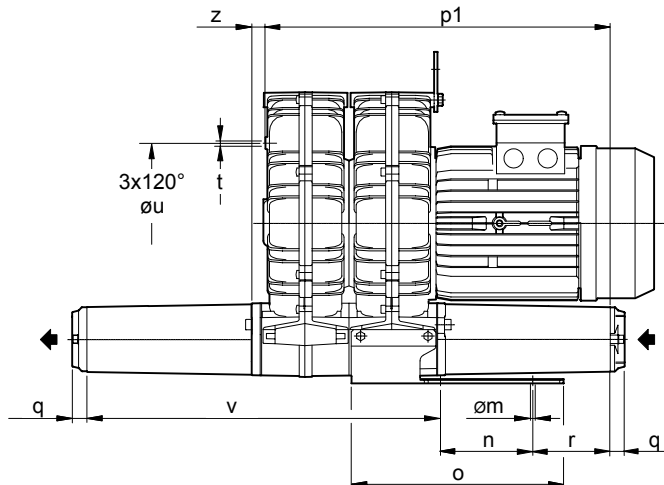
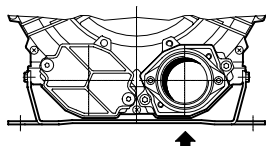
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TECHNICAL
SCL K03 / K04 / K05 / K06
TS SERIES
 SI 1858-4 1/2

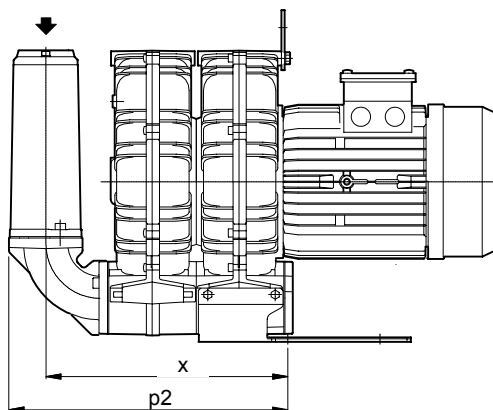
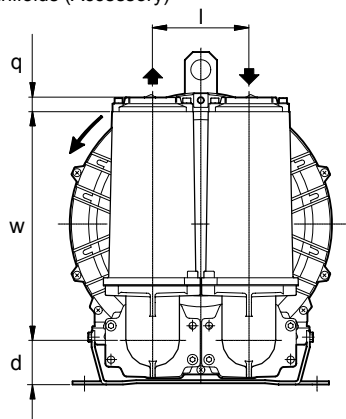
EFFECTIVE ON SCL K03 TS - K04 TS



In-line silencer configuration



Configuration with 2
 90° manifolds (Accessory)

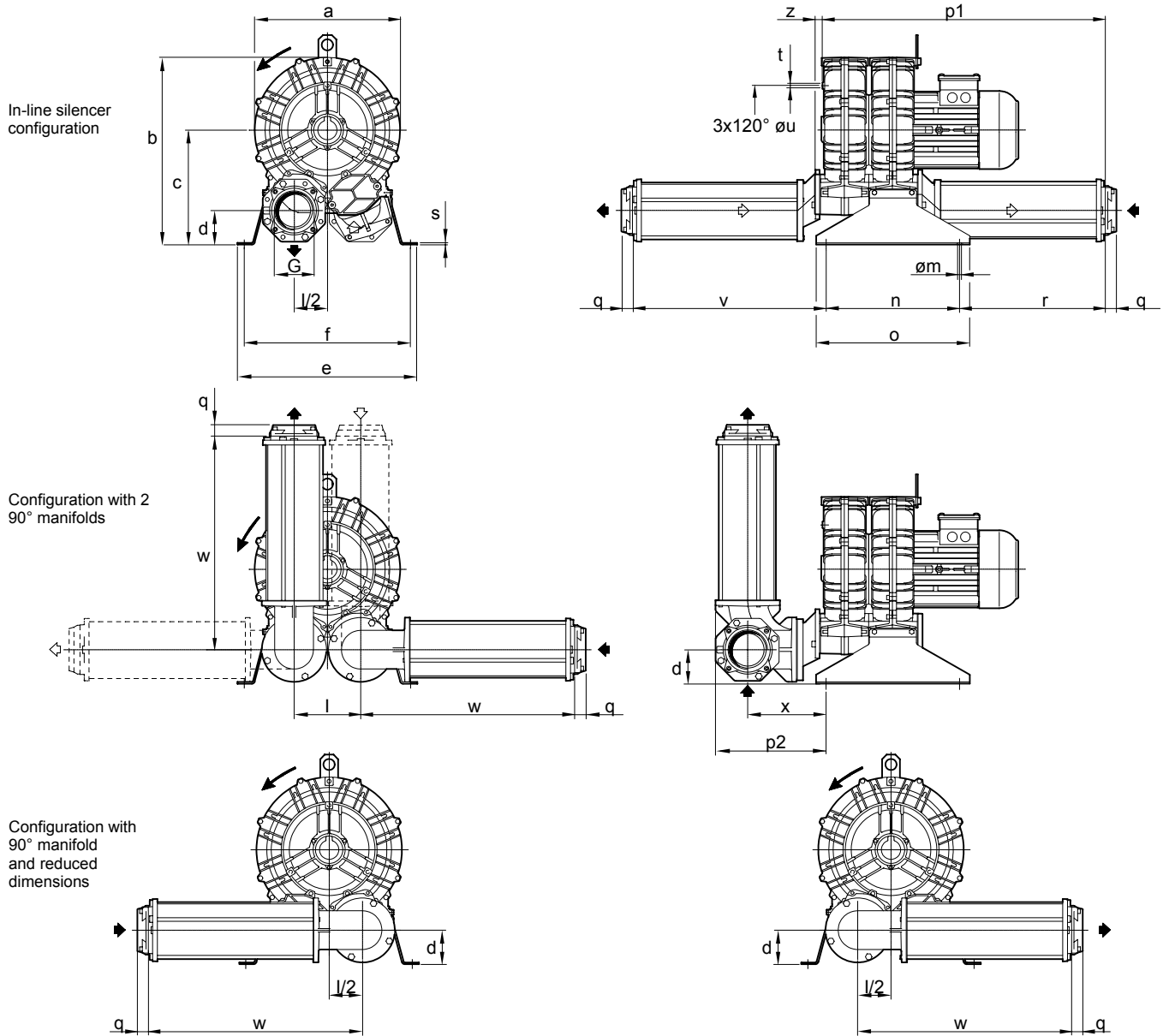


DIMENSIONS IN Inches.
 DIMENSIONS FOR REFERENCE ONLY.

Model	a	b	c	d	e	f	G	l	m	n	o
K03-TS	9.49	10.55	5.79	1.69	9.06	8.07	1" ¼ NPT	3.39	0.39	3.27	5.59
K04-TS	11.22	12.40	6.77	1.93	10.04	8.86	1" ½ NPT	4.02	0.47	3.74	6.73

Model	p1	p2	q	r	s	t	u	v	w	x	z
K03-TS	11.02	8.46	0.71	2.95	0.16	M6	5.51	10.04	7.4	7.09	0.47
K04-TS	12.40	10.00	0.71	2.76	0.16	M6	6.89	11.34	7.4	8.43	0.71

EFFECTIVE ON SCL K05 TS - K06 TS



DIMENSIONS IN Inches.
 DIMENSIONS FOR REFERENCE ONLY.

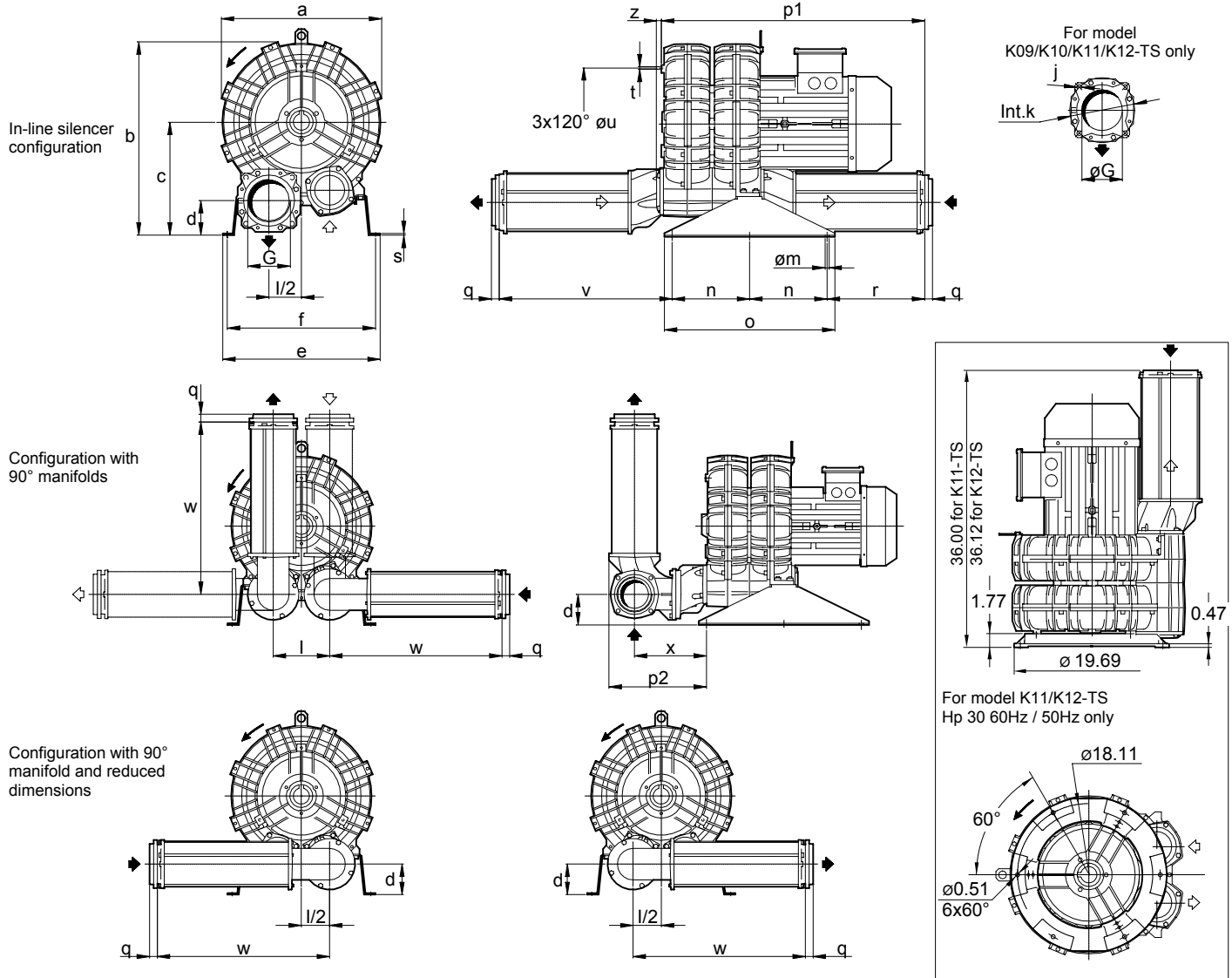
Model	a	b	c	d	e	f	G	l	m	n	o
K05-TS	12.87	16.61	10.16	3.03	15.91	14.72	3" NPT	5.91	0.51	11.81	13.58
K06-TS	14.80	17.72	10.31	2.95	15.91	14.72	3" NPT	6.10	0.51	11.81	13.58

Model	p1	p2	q	r	s	t	u	v	w	x	z
K05-TS	24.96	9.80	0.98	12.91	0.16	M8	7.87	17.17	18.94	6.93	0.75
K06-TS	26.02	10.51	0.98	13.19	0.16	M8	9.45	17.91	18.94	7.68	0.75

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TECHNICAL **SCL K07 / K08 / K09 / K10 / K11 / K12** **TS SERIES** SI 1825-6 1/1



DIMENSIONS IN Inches.
DIMENSIONS FOR REFERENCE ONLY

Model	a	b	c	d	e	f	G	l	j	k	m	n
K07-TS	16.69	20.91	12.56	3.86	18.43	17.24	4" NPT	7.17	-	-	0.51	9.84
K08-TS	18.03	21.57	12.56	3.86	18.82	17.64	4" NPT	7.17	-	-	0.51	9.84
K09-TS	19.37	24.02	14.37	4.41	20.00	18.82	5.12	8.27	M16	8.27	0.51	9.84
K10-TS	20.31	24.53	14.37	4.41	20.00	18.82	5.12	8.27	M16	8.27	0.51	9.84
K11-TS	21.26	25.59	14.96	4.17	21.26	20.08	5.12	8.98	M16	8.27	0.51	9.84
K12-TS	21.57	25.66	14.96	4.17	21.26	20.08	5.12	8.98	M16	8.27	0.51	9.84

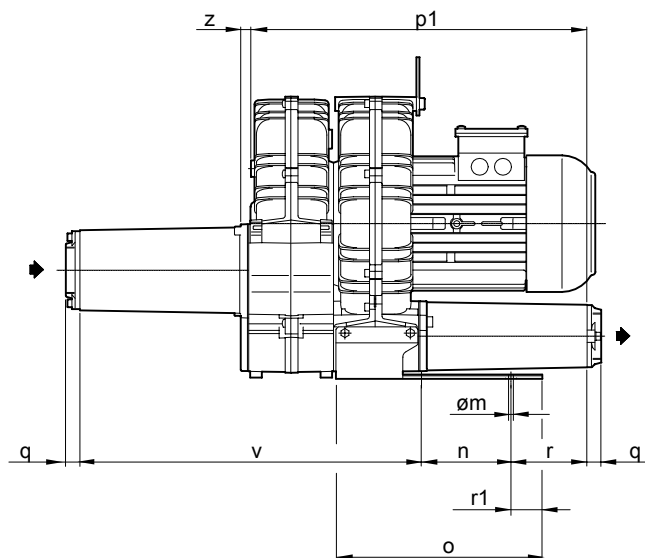
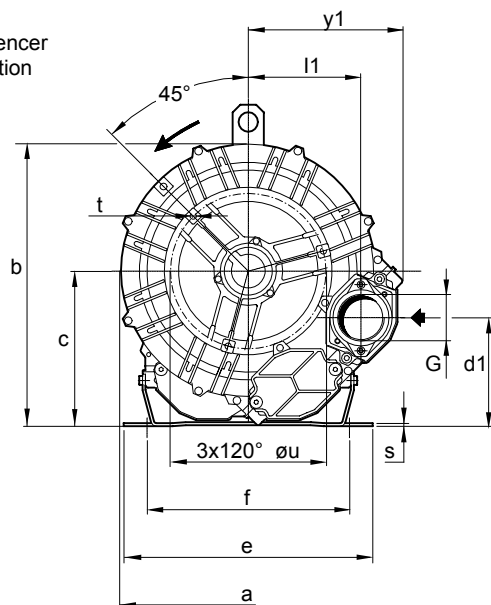
Model	o	p1	p2	q	r	s	t	u	v	w	x	z
K07-TS	21.65	31.57	12.40	0.98	11.77	0.20	M8	11.61	20.55	22.87	10.87	0.63
K08-TS	21.65	31.57	12.40	0.98	11.77	0.20	M8	12.20	20.55	22.87	10.87	0.63
K09-TS	21.65	33.46	17.60	-	12.40	0.20	M8	14.17	21.97	23.94	13.27	0.63
K10-TS	21.65	33.46	17.60	-	12.40	0.20	M8	14.17	21.97	23.94	13.27	0.63
K11-TS	21.65	34.25	18.19	-	12.60	0.20	M8	15.35	22.56	23.94	13.86	0.63
K12-TS	21.65	34.37	-	-	12.60	0.20	M8	15.35	-	-	-	0.63



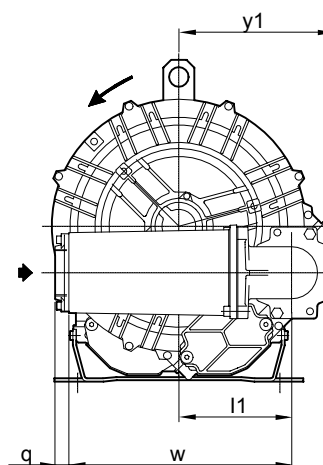
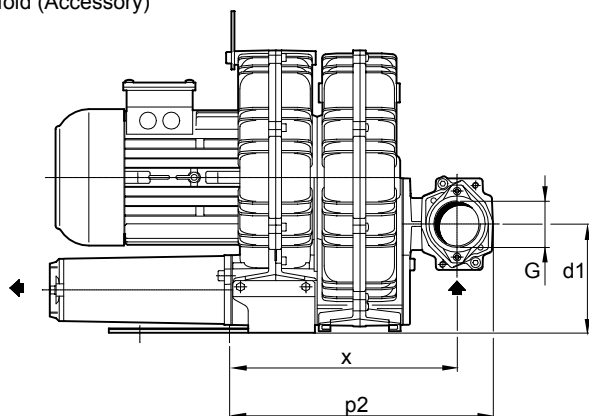
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TECHNICAL 77
SCL K03 / K04 / K05 / K06
TD SERIES
SI 1864-4 1/1

In-line silencer
configuration



Configuration with
CK manifold (Accessory)



DIMENSIONS IN Inches
DIMENSIONS FOR REFERENCE ONLY.

Model	a	b	c	d1	e	f	G	l1	m	n	o	p1
K03-TD	9.49	10.55	5.79	4.09	9.06	8.07	1" ¼ NPT	4.09	0.39	3.27	5.63	8.19
K04-TD	11.22	12.40	6.77	4.76	10.04	8.86	1" ½ NPT	4.84	0.47	3.74	6.73	12.44
K05-TD	12.87	14.37	7.87	5.51	12.60	10.24	2" NPT	5.71	0.59	4.53	10.43	16.85
K06-TD	14.80	16.54	9.13	6.69	12.80	11.42	2" NPT	5.94	0.59	5.51	10.43	19.92

Model	p2	q	r	r1	s	t	u	v	w	x	y1	z
K03-TD	8.46	0.71	2.95	0.51	0.16	M6	5.51	10.04	7.40	7.09	5.55	0.47
K04-TD	10.00	0.71	2.76	0.59	0.16	M6	6.89	11.34	7.40	8.43	6.54	0.71
K05-TD	13.39	0.71	3.86	1.57	0.16	M8	7.87	17.32	11.26	11.54	7.87	0.75
K06-TD	13.94	0.71	5.35	0.75	0.16	M8	9.45	17.91	11.26	12.13	8.07	0.75

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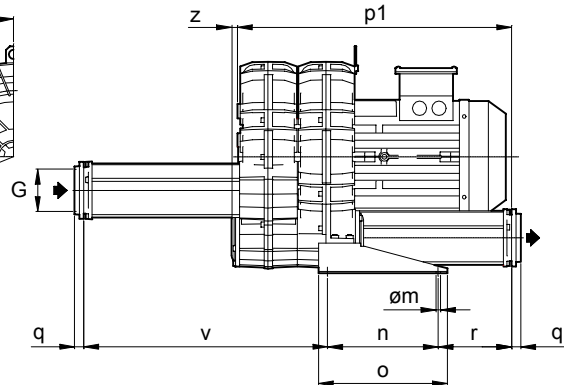
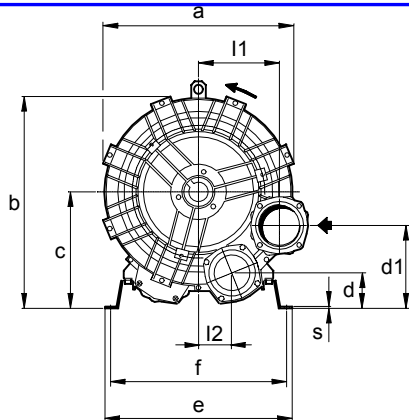
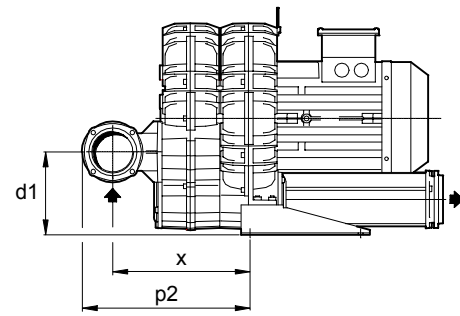
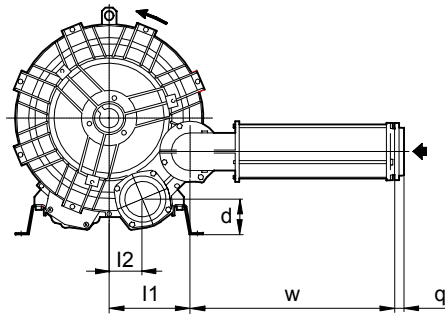
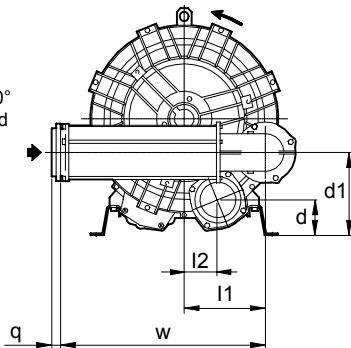
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TECHNICAL SCL K07 / K08 / K09 / K10 / K11

TD SERIES

SI 1829-4 1/1

In-line silencer
configurationConfiguration with
90° manifoldConfiguration with 90°
manifold and reduced
dimensions

DIMENSIONS IN Inches.
DIMENSIONS FOR REFERENCE ONLY.

Model	a	b	C	d	d1	e	f	G	l1	l2	m	n
K07-TD	16.69	18.94	10.59	3.23	7.56	18.43	17.24	3" NPT	7.36	3.05	0.51	11.81
K08-TD	17.99	19.61	10.59	3.23	7.56	18.82	17.64	3" NPT	7.36	3.05	0.51	11.81
K09-TD	19.37	22.09	12.40	3.78	8.86	20.00	18.82	4" NPT	8.66	3.58	0.51	11.81
K10-TD	20.31	22.56	12.40	3.78	8.86	20.00	18.82	4" NPT	8.66	3.58	0.51	11.81
K11-TD	21.26	23.70	13.07	3.54	9.13	21.18	20.00	4" NPT	9.53	3.94	0.51	11.51
K12-TD	21.57	23.81	13.07	3.54	9.13	21.18	20.00	4" NPT	9.53	3.94	0.51	11.51

Model	o	p1	p2	q	r	s	t	u	v	w	x	z
K07-TD	13.78	25.55	15.43	0.98	5.39	0.20	M8	11.61	22.87	18.94	12.56	0.63
K08-TD	13.78	25.55	15.43	0.98	5.39	0.20	M8	12.20	22.87	18.94	12.56	0.63
K09-TD	13.78	29.33	17.91	0.98	7.83	0.20	M8	14.17	26.10	21.89	14.65	0.63
K10-TD	13.78	29.33	17.91	0.98	7.83	0.20	M8	14.17	26.10	21.89	14.65	0.63
K11-TD	13.78	30.12	18.50	0.98	8.03	0.20	M8	15.35	26.69	21.89	15.24	0.63
K12-TD	13.78	30.23	18.50	0.98	8.03	0.20	M8	15.35	26.69	21.89	15.24	0.63



Engineering Information

PSI	In. H ₂ O	In. Hg	mBar	mmH ₂ O
1	27.68	2.04	68.95	703.0
1.5	41.5	3.05	103.43	1054.5
2	55.4	4.07	137.90	1406.0
2.5	69.2	5.09	172.38	1757.5
3	83.0	6.11	206.85	2109.0
3.5	96.9	7.13	241.33	2460.5
4	110.7	8.14	275.80	2812.0
4.5	124.6	9.16	310.28	3163.5
5	138.4	10.18	344.75	3515.0
5.5	152.2	11.20	379.23	3866.5
6	166.1	12.22	413.70	4218.0
6.5	179.9	13.23	448.18	4569.5
7	193.8	14.25	482.65	4921.0
7.5	207.6	15.27	517.13	5272.5
8	221.4	16.29	551.60	5624.0
8.5	235.3	17.31	586.08	5975.5
9	249.1	18.32	620.55	6327.0
9.5	263.0	19.34	655.03	6678.5
10	276.8	20.36	689.50	7030.0

Pressure				
In. H ₂ O	x	0.03613	=	psi
In. H ₂ O	x	0.07355	=	In. Hg
mbar	x	0.4019	=	In. H ₂ O
psi	x	2.036	=	In. Hg

Flow				
m ³ /h	x	0.588	=	cfm
lpm	x	0.03528	=	cfm
cfm	x	1.699	=	m ³ /h
cfm	x	28.32	=	lpm

Length				
Feet	x	12	=	Inches
Inches	x	2.54	=	cm
Feet	x	0.3048	=	meters

Barometric pressure varies in direct proportion to altitude.

Example #1 – If a blower is required to deliver 2 psig at 5000 feet, what pressure at standard air is required?

$$\text{Pressure} = 29.92 / 24.89 \times 2 = 2.4 \text{ psig}$$

Example #2 – If a blower is required to deliver 2 psig at standard air, what pressure will it deliver at 5000 feet?

$$\text{Pressure} = 24.89 / 29.92 \times 2 = 1.66 \text{ psig}$$

Altitude Versus Barometric Pressure

Altitude Feet	Pressure		Altitude Feet	Pressure		Altitude Feet	Pressure	
	In. Hg.	Psia		In. Hg.	Psia		In. Hg.	Psia
0	29.92	14.70	1500	28.33	13.90	7000	23.09	11.34
500	29.38	14.43	2000	27.82	13.67	7500	22.65	11.12
600	29.28	14.38	2500	27.31	13.41	8000	22.22	10.90
700	29.18	14.33	3000	26.81	13.19	8500	21.80	10.70
800	29.07	14.28	3500	26.32	12.92	9000	21.38	10.50
900	28.97	14.23	4000	25.84	12.70	9500	20.98	10.90
1000	28.86	14.18	4500	25.36	12.45	10000	20.58	10.10
1100	28.75	14.09	5000	24.89	12.23			
1200	28.65	14.04	5500	24.43	12.00			
1300	28.54	13.99	6000	23.98	11.77			
1400	28.44	13.94	6500	23.53	11.56			



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Airflow Through an Orifice

Pressure

Orifice Diameters - Inches

Pressure " H ₂ O	1/32	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1	1-1/4	1-1/2	1-3/4	2.0	2-1/4	2-1/2	2-3/4	3
1	0.0	0.1	0.2	0.5	0.9	1.4	2.0	2.7	3.5	6	7.8	14	22	31	43	56	70	87	105	125
2	0.0	0.1	0.3	0.7	1.2	1.9	2.8	3.8	4.9	8	11	20	31	44	60	79	100	123	149	177
3	0.0	0.1	0.4	0.8	1.5	2.4	3.4	4.6	6.0	10	14	24	38	54	74	96	122	150	182	217
4	0.0	0.1	0.4	1.0	1.7	2.7	3.9	5.3	7.0	11	16	28	43	63	85	111	141	174	210	250
5	0.0	0.1	0.5	1.1	1.9	3.0	4.4	6.0	7.8	12	18	31	49	70	95	124	157	194	235	280
10	0.0	0.2	0.7	1.5	2.8	4.3	6.2	8.4	11.0	18	25	44	69	99	135	176	222	275	332	395
15	0.1	0.2	0.8	1.9	3.4	5.3	7.6	10.3	13.4	21	30	54	84	121	165	215	272	336	407	484
20	0.1	0.2	1.0	2.2	3.9	6.1	8.7	11.9	15.5	25	35	62	97	140	190	248	314	388	469	559
25	0.1	0.3	1.1	2.4	4.3	6.8	9.8	13.3	17.3	28	39	69	108	156	212	277	351	434	525	624
30	0.1	0.3	1.2	2.6	4.8	7.4	10.7	14.5	19.0	30	43	76	119	171	233	304	385	475	574	684
35	0.1	0.3	1.3	2.9	5.1	8.0	11.5	15.7	20.5	33	46	82	128	185	251	328	415	513	620	738
40	0.1	0.3	1.4	3.1	5.5	8.6	12.3	16.8	21.9	35	49	88	137	197	268	351	444	548	663	789
45	0.1	0.4	1.5	3.3	5.8	9.1	13.1	17.8	23.2	37	52	93	145	209	285	372	470	581	703	836
50	0.1	0.4	1.5	3.4	6.1	9.6	13.8	18.7	24.5	39	55	98	153	220	300	392	496	612	740	881
55	0.1	0.4	1.6	3.6	6.4	10.0	14.4	19.6	25.7	41	58	103	160	231	314	411	520	641	776	924
60	0.1	0.4	1.7	3.8	6.7	10.5	15.1	20.5	26.8	43	60	107	167	241	328	429	542	670	810	964
65	0.1	0.4	1.7	3.9	7.0	10.9	15.7	21.3	27.9	45	63	111	174	251	341	446	564	697	843	1003
70	0.1	0.5	1.8	4.1	7.2	11.3	16.3	22.1	28.9	46	65	116	181	260	354	463	585	723	874	1041
75	0.1	0.5	1.9	4.2	7.5	11.7	16.8	22.9	29.9	48	67	120	187	269	366	479	606	748	905	1077
80	0.1	0.5	1.9	4.3	7.7	12.1	17.4	23.6	30.9	50	70	124	193	278	378	494	625	772	934	1112
85	0.1	0.5	2.0	4.5	8.0	12.4	17.9	24.4	31.6	51	72	127	199	285	390	509	644	795	962	1145
90	0.1	0.5	2.0	4.6	8.2	12.8	18.4	25.1	32.7	53	74	131	204	294	401	524	663	818	990	1178
95	0.1	0.5	2.1	4.7	8.4	13.1	18.9	25.7	33.6	54	76	134	210	302	412	538	680	840	1016	1210
100	0.1	0.5	2.2	4.9	8.6	13.5	19.4	26.4	34.5	55	78	138	215	310	422	551	698	861	1042	1241
105	0.1	0.6	2.2	5.0	8.8	13.8	19.9	27.0	35.3	57	79	141	221	318	432	565	715	882	1068	1271
110	0.1	0.6	2.3	5.1	9.0	14.1	20.3	27.6	36.1	58	81	144	226	325	442	578	731	903	1092	1300

1 psi = 27.68" H₂O

discharge coefficient = 0.65

Air Temperature = 70 deg F

Airflow in CFM

Vacuum

Orifice Diameters - Inches

Vacuum " Hg	1/32	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1	1-1/4	1-1/2	1-3/4	2.0	2-1/4	2-1/2	2-3/4	3
0.5	0.0	0.1	0.6	1.3	2.2	3.5	5.1	6.9	9	14	20	36	56	81	110	144	182	225	272	324
1	0.0	0.2	0.8	1.8	3.1	4.9	7.1	9.6	13	20	28	50	79	113	154	202	255	315	381	453
2	0.1	0.3	1.1	2.5	4.4	6.8	9.8	13.0	17	27	39	70	109	157	214	280	354	437	529	629
3	0.1	0.3	1.3	3.0	5.2	8.2	11.8	16.0	21	33	47	84	131	189	257	336	425	525	635	756
4	0.1	0.4	1.5	3.3	5.9	9.3	13.4	18.0	24	37	53	95	148	214	291	380	481	594	718	855
5	0.1	0.4	1.6	3.7	6.5	10.0	14.6	20.0	26	41	58	104	162	234	318	416	526	650	786	936
6	0.1	0.4	1.7	3.9	7.0	11.0	15.7	21.0	28	44	63	111	174	251	341	446	564	696	842	1002
7	0.1	0.5	1.8	4.1	7.3	11.0	16.5	22.0	29	46	66	118	184	264	360	470	595	735	889	1058
8	0.1	0.5	1.9	4.3	7.7	12.0	17.3	23.0	31	48	69	123	192	276	376	491	621	766	927	1104
9	0.1	0.5	2.0	4.5	7.9	12.0	17.8	24.0	32	50	71	127	198	285	388	507	642	792	959	1141
10	0.1	0.5	2.0	4.6	8.1	13.0	18.3	25.0	33	51	73	130	203	293	398	520	659	813	984	1171
11	0.1	0.5	2.1	4.7	8.3	13.0	18.7	25.0	33	52	76	133	207	298	406	530	671	829	1003	1193
12	0.1	0.5	2.1	4.7	8.4	13.0	18.9	26.0	34	52	76	134	210	302	412	538	680	840	1016	1210
13	0.1	0.5	2.1	4.8	8.5	13.0	19.1	26.0	34	53	76	135	212	305	415	542	686	847	1025	1219
14	0.1	0.5	2.1	4.8	8.5	13.0	19.1	26.0	34	53	76	136	212	306	416	544	688	849	1028	1223
15	0.1	0.5	2.1	4.8	8.5	13.0	19.1	26.0	34	53	76	136	212	306	416	544	688	849	1028	1223

1" HG = 13.6" H₂O

discharge coefficient = 0.65

Air Temperature = 70 deg F

Airflow in CFM