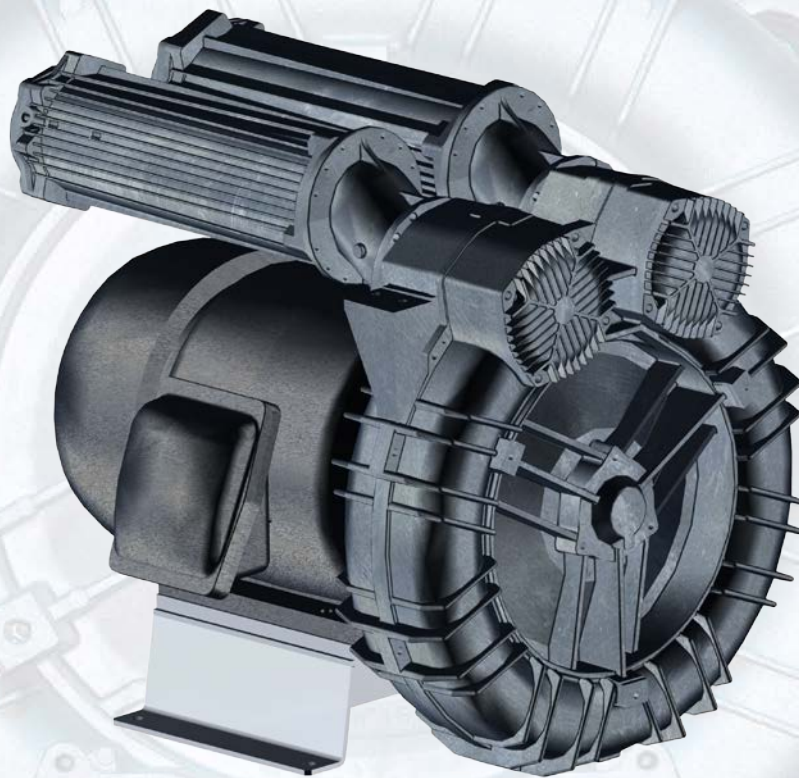


FPZ
BLOWER TECHNOLOGY

FPZ REGENERATIVE BLOWERS

MS-MD SERIES WITH EXPLOSION PROOF MOTORS





FPZ has been manufacturing regenerative blowers for the movement of air and technical gases since 1975 and has earned a worldwide reputation for quality and service. FPZ's standard line of direct drive regenerative blowers with explosion proof motors are built to withstand extremely harsh environments.

All Explosion Proof models are assembled in our Saukville, WI USA facility.

Standard XP features include:

Corrosion Protection

All aluminum components in the wetted areas are anodized for corrosion resistance. In addition, all internal bolts are stainless steel. The anodizing process is in conformity to UNI EN ISO 7599. Anodizing is a highly effective treatment that allows our blowers to operate in harsh conditions.

Sealing

To minimize leakage into or out of the blower, FPZ applies our TMS process. The TMS process begins with impregnating aluminum components in the wetted areas with a polyester resin. The resin is a specially formulated, 100% solids, styrene-free polyester resin and provides a virtually indestructible seal. This polyester resin seals the casting porosity and prevents leakage through the casting.

All mating surfaces and bolts that are in the wetted areas have a gasket or seal to minimize leakage. Leakage is estimated at $< 15 \text{ cm}^3/\text{min}$. After assembly, each blower is leak tested.



FPZ CUSTOMER APPROACH



TECHNICAL FEASIBILITY
ASSESSMENT



BLOWER
SELECTION



CUSTOMERS
SERVICE



AFTER SALES
ASSISTANCE

Explosion Proof Motors

XP motors are UL listed for Class 1, Division I, Group D, Class II Groups C & D environments.

Class F insulation motors include normally closed thermal protectors.

Other features

1/8" gauge ports are included on the inlet and outlet silencers

3-Year Warranty.

Shock mounts included

Mountable in any plane.

Direct coupled blowers

In addition to direct drive blowers, FPZ has a full range of direct coupled blowers that we refer to as GOR blowers. XP motors can be installed on our GOR line allowing us to further extend our pneumatic range.



PRESSURE

Model	Max. Flow (60 Hz) cfm	Power (60 Hz) Hp	Voltage (60 Hz) V	Amperage (60 Hz) A	ΔP max (60 Hz) In. WG	Noise ¹ (60 Hz) dB(A)	Weight Lbs.
SCL K07-MS-7.5-3 XP-1	294	7.5	208-230/460	18.9-17.8 / 8.9	116	79.3	238
SCL K07-MS-10-3 XP-1		10	208-230/460	24.3-22.4 / 11.2	160	79.6	262
SCL K08-MS-7.5-3 XP-1	381	7.5	208-230/460	18.9-17.8 / 8.9	68	80	243
SCL K08-MS-10-3 XP-1		10	208-230/460	24.3-22.4 / 11.2	105	80.3	267
SCL K09-MS-10-3 XP-1	471	10	208-230/460	24.3-22.4 / 11.2	60	80.5	289
SCL K09-MS-15-3 XP		15	208-230/460	38-35 / 17.5	130	81	405
SCL K09-MS-20-3 XP		20	208-230/460	50-46 / 23	160	81.3	412
SCL K10-MS-10-3 XP	556	10	208-230/460	24.3-22.4 / 11.2	50	80.5	293
SCL K10-MS-15-3 XP		15	208-230/460	38-35 / 17.5	100	81	410
SCL K10-MS-20-3 XP		20	208-230/460	50-46 / 23	120	81.4	417
SCL K11-MS-15-3 XP	650	15	208-230/460	38-35 / 17.5	60	82.4	425
SCL K11-MS-20-3 XP		20	208-230/460	50-46 / 23	90	82.7	432
SCL K12-MS-15-3 XP	726	15	208-230/460	38-35 / 17.5	30	82.9	433
SCL K12-MS-20-3 XP		20	208-230/460	50-46 / 23	56	83.2	440

Models with "-1" are suitable for use with a variable frequency drive.

VACUUM

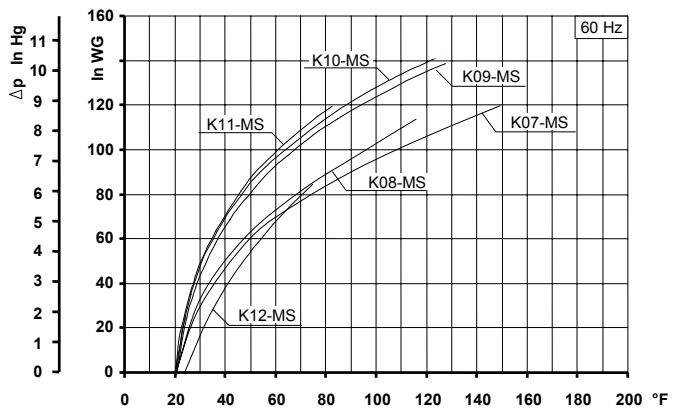
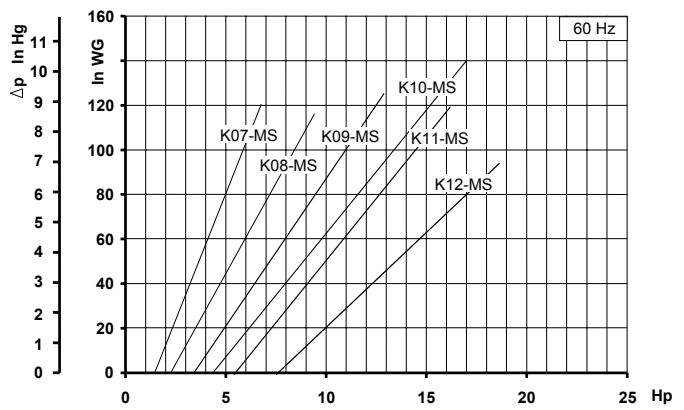
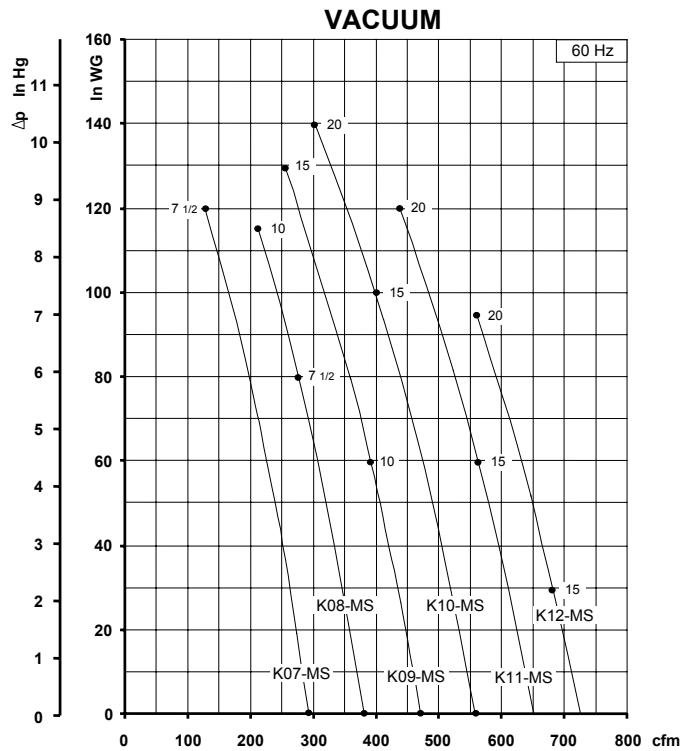
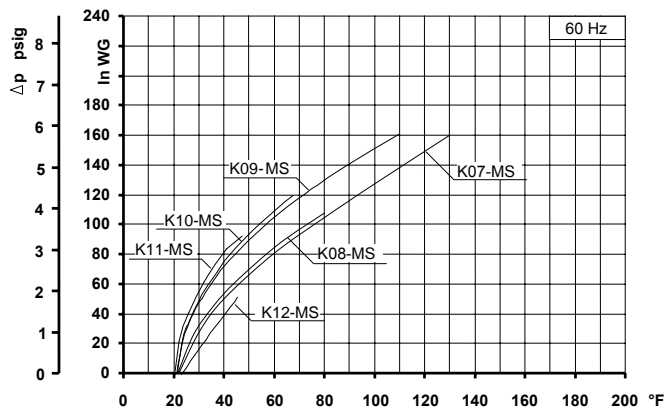
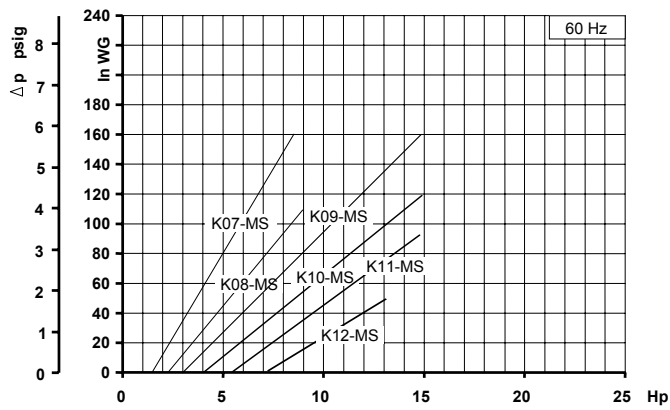
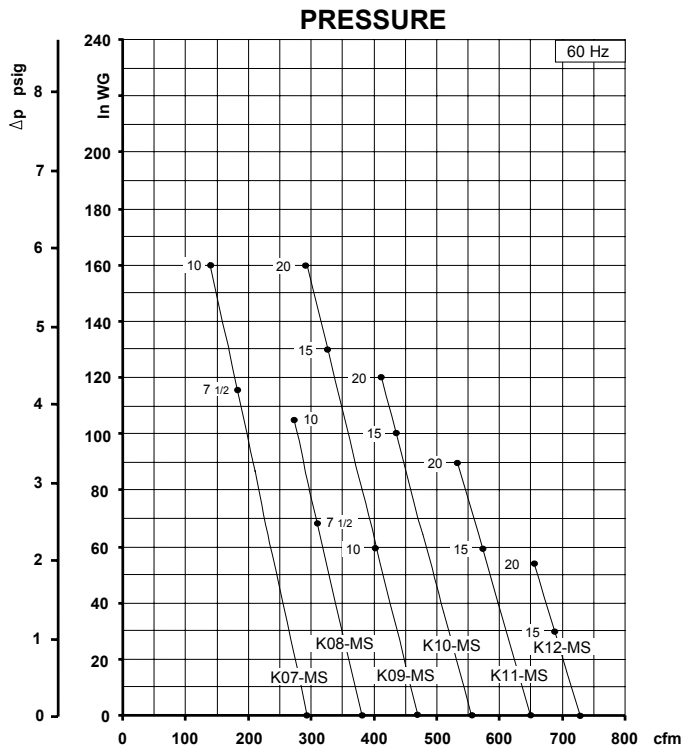
Model	Max. Flow (60 Hz) cfm	Power (60 Hz) Hp	Voltage (60 Hz) V	Amperage (60 Hz) A	ΔP max (60 Hz) In. Hg	Noise ¹ (60 Hz) dB(A)	Weight Lbs.
SCL K07-MS-7.5-3 XP-1	294	7.5	208-230/460	18.9-17.8 / 8.9	8.8	78.3	238
SCL K07-MS-10-3 XP-1		10	208-230/460	24.3-22.4 / 11.2	-	-	262
SCL K08-MS-7.5-3 XP-1	381	7.5	208-230/460	18.9-17.8 / 8.9	5	79.1	243
SCL K08-MS-10-3 XP-1		10	208-230/460	24.3-22.4 / 11.2	8.5	79.4	267
SCL K09-MS-10-3 XP-1	471	10	208-230/460	24.3-22.4 / 11.2	4.4	79.6	289
SCL K09-MS-15-3 XP		15	208-230/460	38-35 / 17.5	9.6	80.1	405
SCL K09-MS-20-3 XP		20	208-230/460	50-46 / 23	9.6	80.5	412
SCL K10-MS-10-3 XP	556	10	208-230/460	24.3-22.4 / 11.2	3.7	79.7	293
SCL K10-MS-15-3 XP		15	208-230/460	38-35 / 17.5	7.4	80.2	410
SCL K10-MS-20-3 XP		20	208-230/460	50-46 / 23	10.3	80.5	417
SCL K11-MS-15-3 XP	650	15	208-230/460	38-35 / 17.5	4.4	82.5	425
SCL K11-MS-20-3 XP		20	208-230/460	50-46 / 23	8.8	83	432
SCL K12-MS-15-3 XP	726	15	208-230/460	38-35 / 17.5	2.2	83.5	433
SCL K12-MS-20-3 XP		20	208-230/460	50-46 / 23	7	84.3	440

Models with "-1" are suitable for use with a variable frequency drive.

INSTALLATION

- For proper use, the blower should be equipped with Inlet FILTER and Safety Relief VALVE; other accessories available on request.
- Ambient temperature from -15° to +40°C (+5° to +104° F).
- Specifications subject to change without notice.
- Before installation read carefully all instructions.

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



CAPACITY

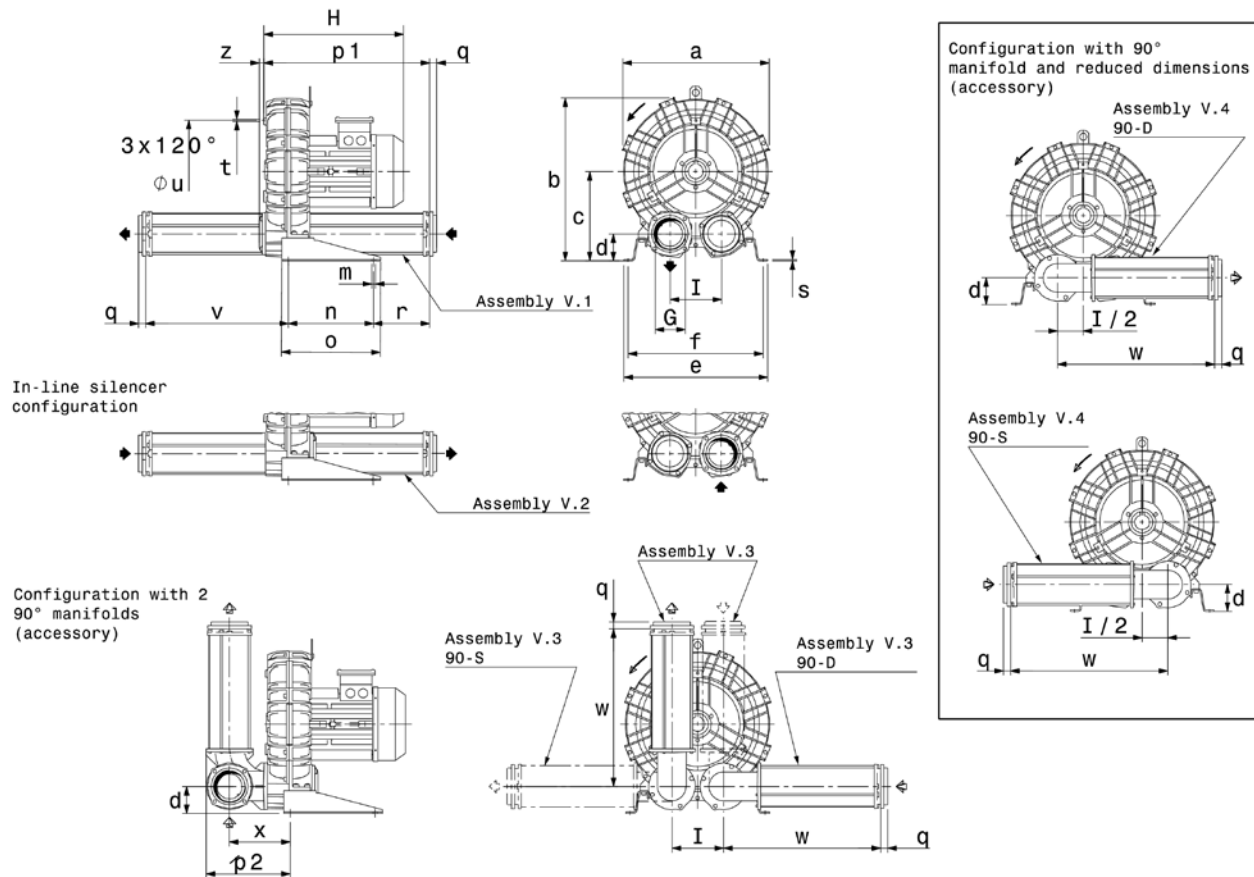
ABSORBED POWER

TEMPERATURE INCREASE

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.

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.

DIMENSIONS (K07-MS/K08-MS/K09-MS/K10-MS)

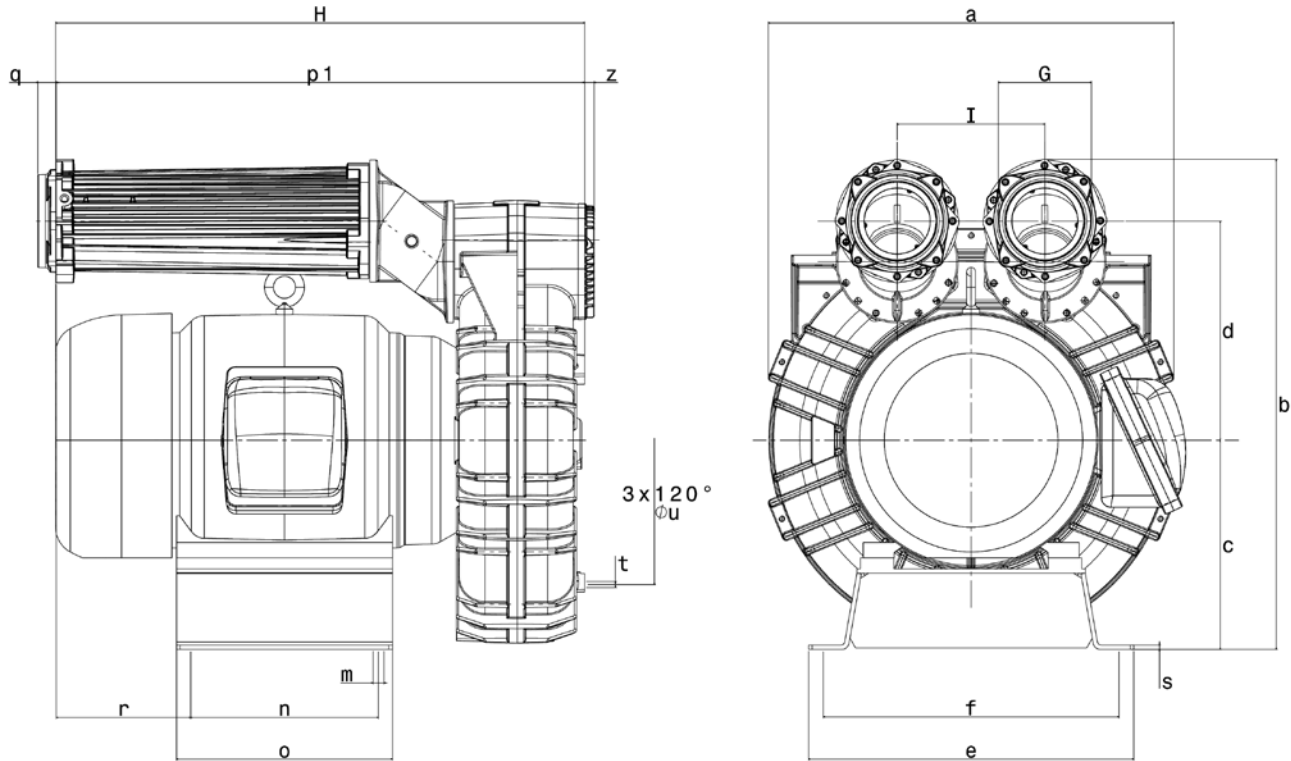


Dimensions in Inches - For reference only

Model	HP	a	b	c	d	e
K07-MS	7.5-10	16.69	18.94	10.59	3.23	18.43
K08-MS	7.5-10	17.99	19.61	10.59	3.23	18.82
K09-MS	10	19.37	22.09	12.40	3.78	20
K10-MS	10	20.31	24.62	11.13	10.18	17.3

Model	f	G	H	i	m	n
K07-MS	17.24	3" NPT	22.52	6.10	0.51	11.81
K08-MS	17.64	3" NPT	22.52	6.10	0.51	11.81
K09-MS	18.82	4" NPT	27.93	7.17	0.51	11.81
K10-MS	18.82	4" NPT	27.93	7.17	0.51	11.81

Model	o	p1	q	r	s	t	u	z
K07-MS	13.78	20.16	0.71	1.70	0.20	M8	11.61	0.63
K08-MS	13.78	20.16	0.71	1.70	0.20	M8	12.20	0.63
K09-MS	13.78	23.07	0.98	7.83	0.2	M8	14.17	0.63
K10-MS	11.5	27.63	0.98	6.95	0.23	M8	14.17	0.63

DIMENSIONS (K09-MS/K10-MS/K11-MS/K12-MS)


Dimensions in Inches - For reference only

Model	HP	a	b	c	d	e
K09-MS	15-20	19.37	24.15	11.13	9.71	17.3
K10-MS	15-20	20.31	24.62	11.13	10.18	17.3
K11-MS	15-20	21.34	26.02	11.13	11.58	17.3
K12-MS	15-20	21.57	26.1	11.13	11.66	17.3

Model	f	G	H	i	m	n
K09-MS	15.75	4" NPT	23	7.17	0.6	10
K10-MS	15.75	4" NPT	27.93	7.17	0.6	10
K11-MS	15.75	4" NPT	28.13	7.87	0.6	10
K12-MS	15.75	4" NPT	28.25	7.87	0.6	10

Model	o	p1	q	r	s	t	u	z
K09-MS	11.5	27.63	0.98	6.95	0.23	M8	14.17	0.63
K10-MS	11.5	27.63	0.98	6.95	0.23	M8	14.17	0.63
K11-MS	11.5	28.13	0.98	7.115	0.23	M8	15.35	0.63
K12-MS	11.5	28.13	0.98	7.15	0.23	M8	15.35	0.51

PRESSURE

Model	Max. Flow (60 Hz) cfm	Power (60 Hz) Hp	Voltage (60 Hz) V	Amperage (60 Hz) A	ΔP max (60 Hz) In. WG	Noise ¹ (60 Hz) dB(A)	Weight Lbs.
SCL K07R-MD-7.5-3 XP-1	128	7.5	208-230/460	18.9-17.8 / 8.9	240	75	232.6
SCL K08R-MD-7.5-3 XP-1	167	7.5	208-230/460	18.9-17.8 / 8.9	150	76.6	242.5
SCL K08R-MD-10-3 XP-1	167	10	208-230/460	24.3-22.4 / 11.2	220	77	266.8
SCL K09-MD-7.5-3 XP-1	220	7.5	208-230/460	18.9-17.8 / 8.9	110	78	280.4
SCL K09-MD-10-3 XP-1	220	10	208-230/460	24.3-22.4 / 11.2	165	79.5	304.7
SCL K09-MD-15-3 XP	220	15	208-230/460	38-35 / 17.5	271	80.5	482.2
SCL K10-MD-10-3 XP	274	10	208-230/460	24.3-22.4 / 11.2	115	80.3	310.2
SCL K10-MD-15-3 XP	274	15	208-230/460	38-35 / 17.5	212	81.4	487.7
SCL K10-MD-20-3 XP	274	20	208-230/460	50-46 / 23	260	81.7	518
SCL K11-MD-10-3 XP	306	10	208-230/460	24.3-22.4 / 11.2	75	81.1	321.2
SCL K11-MD-15-3 XP	306	15	208-230/460	38-35 / 17.5	160	81.4	498.7
SCL K11-MD-20-3 XP	306	20	208-230/460	50-46 / 23	240	81.7	529.5
SCL K12-MD-15-3 XP	335	15	208-230/460	38-35 / 17.5	85	82.3	504.2
SCL K12-MD-20-3 XP	335	20	208-230/460	50-46 / 23	140	82.6	535

Models with "-1" are suitable for use with a variable frequency drive.

VACUUM

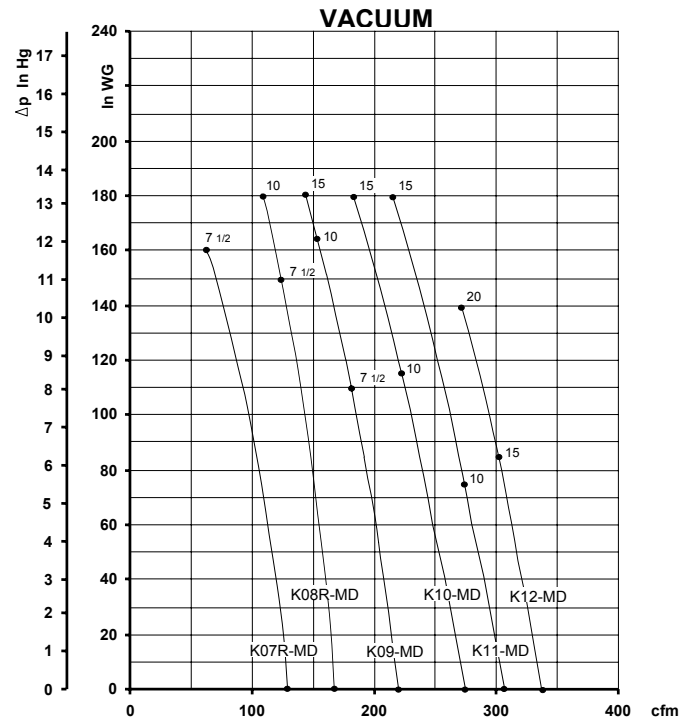
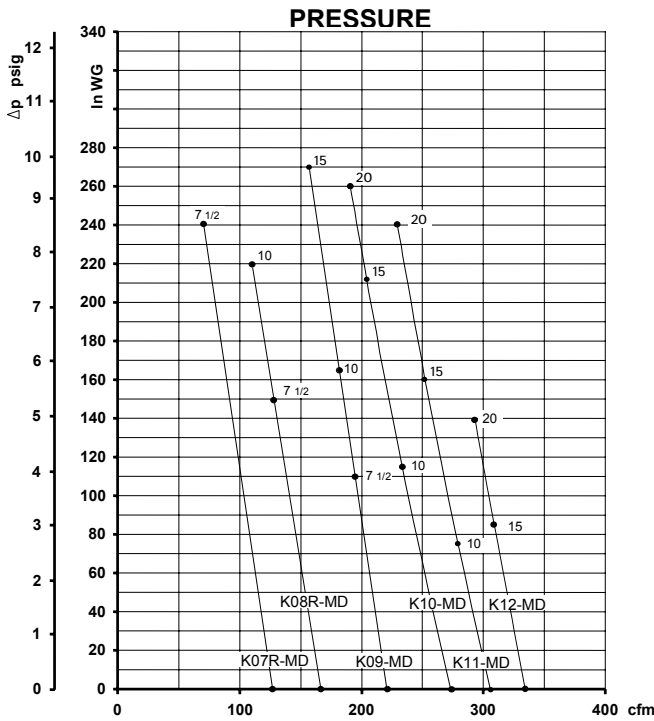
Model	Max. Flow (60 Hz) cfm	Power (60 Hz) Hp	Voltage (60 Hz) V	Amperage (60 Hz) A	ΔP max (60 Hz) In. Hg	Noise ¹ (60 Hz) dB(A)	Weight Lbs.
SCL K07R-MD-7.5-3 XP-1	128	7.5	208-230/460	18.9-17.8 / 8.9	11.9	74	232.6
SCL K08R-MD-7.5-3 XP-1	167	7.5	208-230/460	18.9-17.8 / 8.9	11	76.1	242.5
SCL K08R-MD-10-3 XP-1	167	10	208-230/460	24.3-22.4 / 11.2	13.2	76.4	266.8
SCL K09-MD-7.5-3 XP-1	220	7.5	208-230/460	18.9-17.8 / 8.9	8.1	77.5	280.4
SCL K09-MD-10-3 XP-1	220	10	208-230/460	24.3-22.4 / 11.2	12.1	79	304.7
SCL K09-MD-15-3 XP	220	15	208-230/460	38-35 / 17.5	13.2	80.5	482.2
SCL K10-MD-10-3 XP	274	10	208-230/460	24.3-22.4 / 11.2	8.5	80.7	310.2
SCL K10-MD-15-3 XP	274	15	208-230/460	38-35 / 17.5	13.2	81.3	487.7
SCL K10-MD-20-3 XP	274	20	208-230/460	50-46 / 23	-	-	518
SCL K11-MD-10-3 XP	306	10	208-230/460	24.3-22.4 / 11.2	5.5	80.7	321.2
SCL K11-MD-15-3 XP	306	15	208-230/460	38-35 / 17.5	13.2	81.3	498.7
SCL K11-MD-20-3 XP	306	20	208-230/460	50-46 / 23	13.2	-	529.5
SCL K12-MD-15-3 XP	335	15	208-230/460	38-35 / 17.5	6.3	82.2	504.2
SCL K12-MD-20-3 XP	335	20	208-230/460	50-46 / 23	10.3	82.5	535

Models with "-1" are suitable for use with a variable frequency drive.

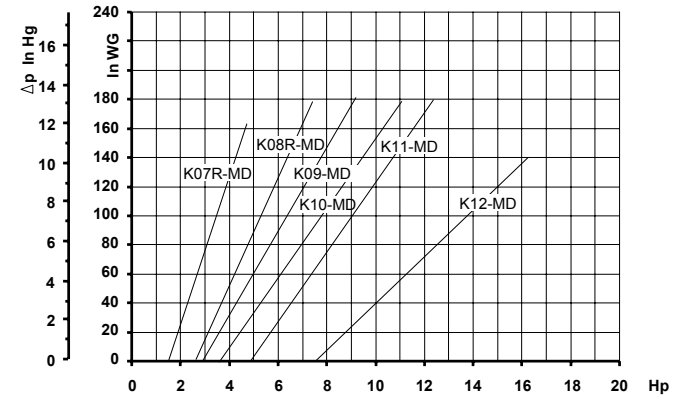
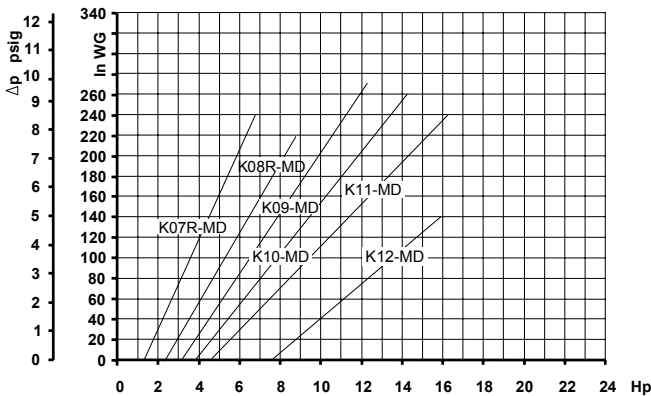
INSTALLATION

- For proper use, the blower should be equipped with Inlet FILTER and Safety Relief VALVE; other accessories available on request.
- Ambient temperature from -15° to +40°C (+5° to +104° F).
- Specifications subject to change without notice.
- Before installation read carefully all instructions.

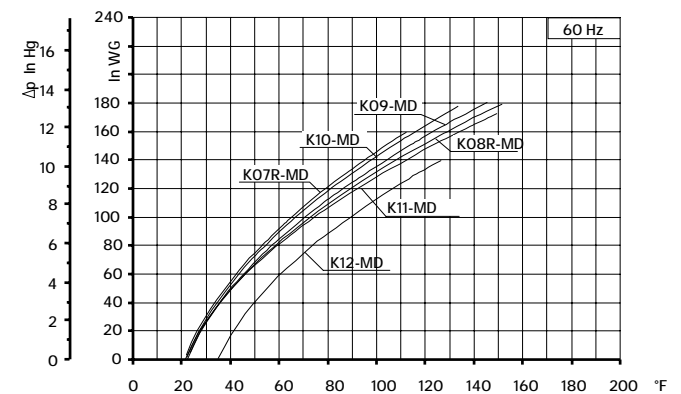
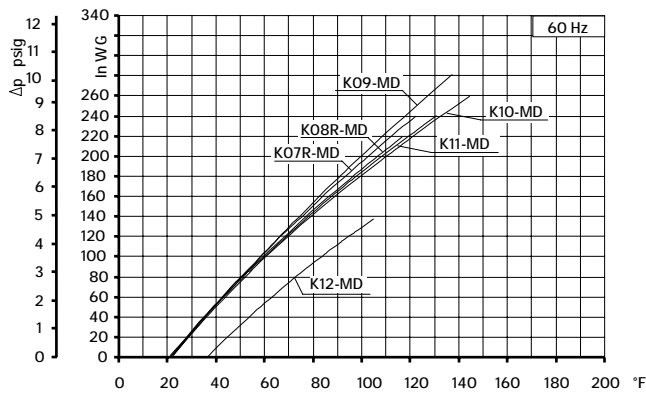
¹ Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.



CAPACITY



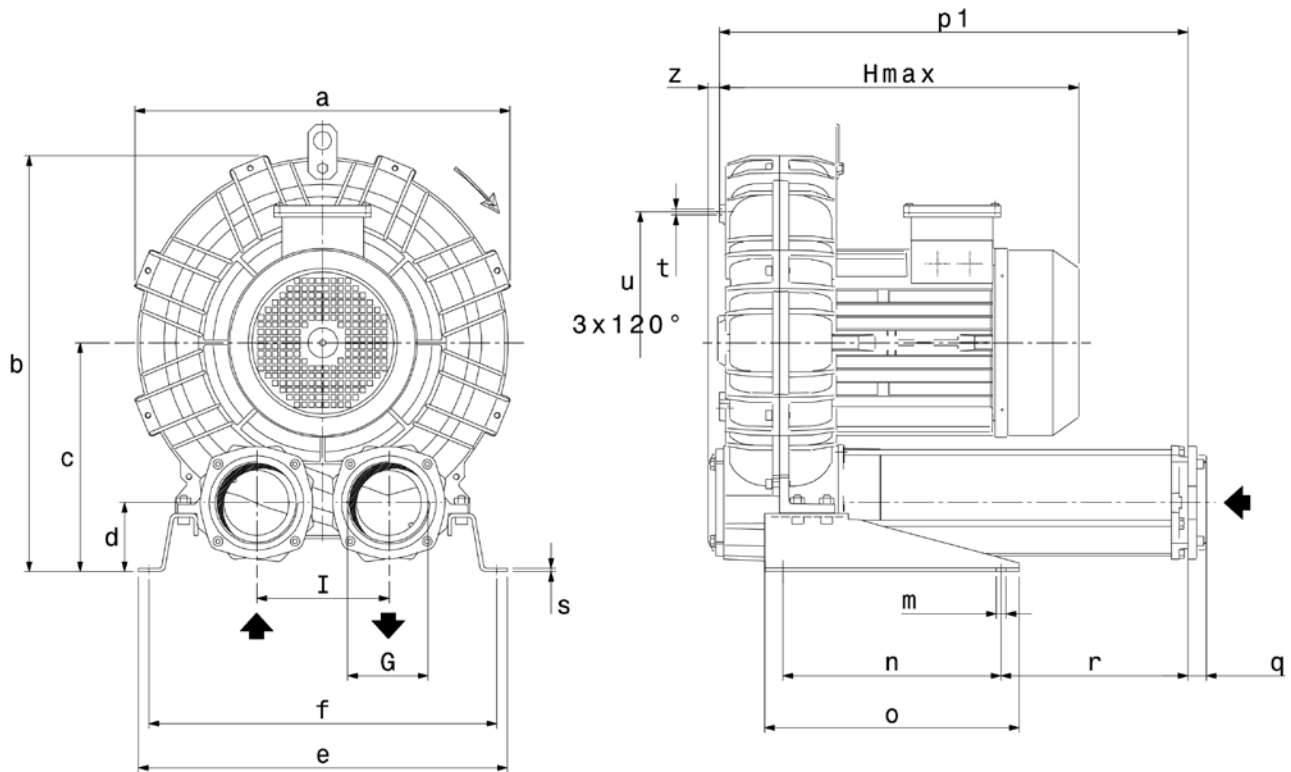
ABSORBED POWER



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 at 60 Hz and subject to change without notice.

Curves refer to air at 68 $^{\circ}$ 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 at 60 Hz and subject to change without notice.

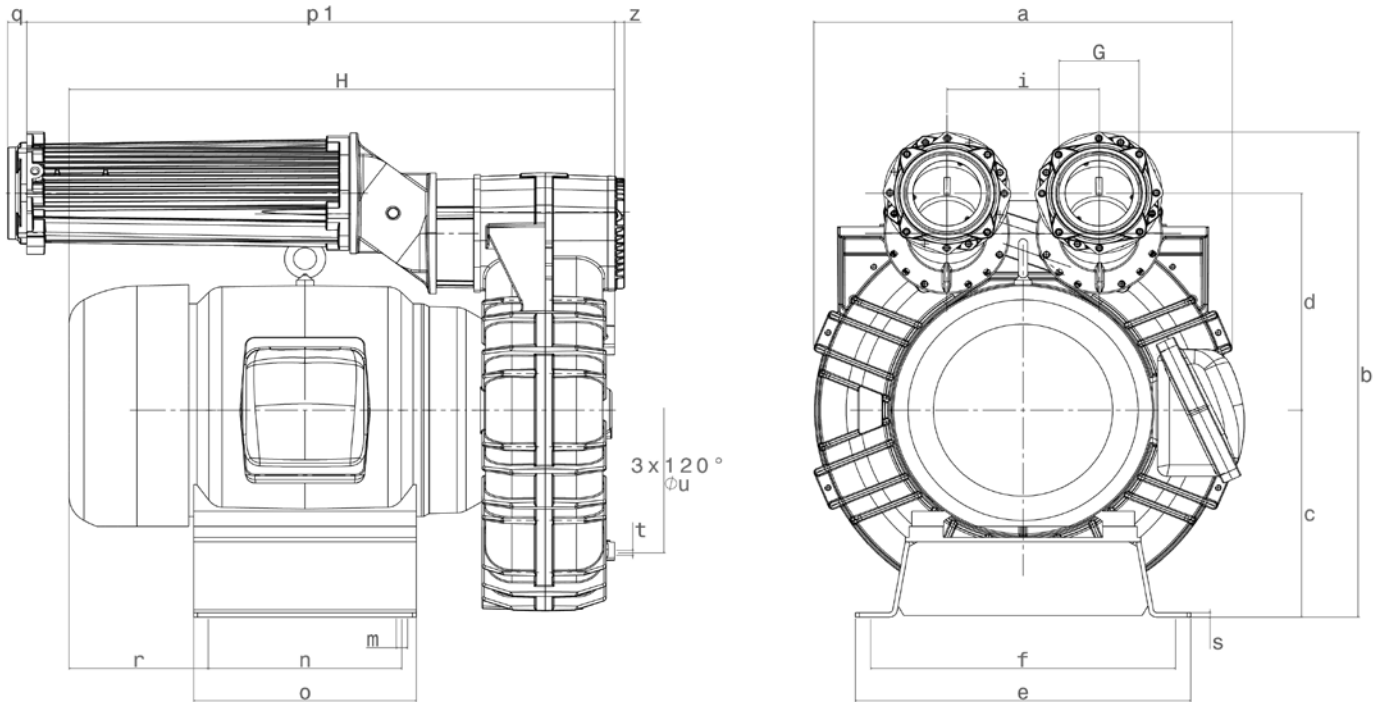
DIMENSIONS (K07R-MD/K08R-MD/K09-MD/K10-MD/K11-MD)


Dimensions in Inches - For reference only

Model	HP	a	b	c	d	e
K07R-MD	7.5-10	16.69	18.94	10.59	3.23	18.43
K08R-MD	7.5-10	17.99	19.61	10.59	3.23	18.82
K09-MD	10	19.37	22.09	12.40	3.78	20
K10-MD	10	20.31	22.56	12.40	3.78	20
K11-MD	10	21.34	23.74	13.07	3.58	21.18

Model	f	G	H	i	m	n
K07R-MD	17.24	2" NPT	22.52	6.10	0.51	11.81
K08R-MD	17.64	2" NPT	22.52	6.10	0.51	11.81
K09-MD	18.82	4" NPT	22.9	7.17	0.51	11.81
K10-MD	18.82	4" NPT	22.9	7.17	0.51	11.81
K11-MD	20	4" NPT	23.2	7.87	0.51	11.81

Model	o	p1	q	r	s	t	u	z
K07R-MD	13.78	16.46	0.71	1.69	0.20	M8	11.61	0.63
K08R-MD	13.78	16.46	0.71	1.69	0.20	M8	12.20	0.63
K09-MD	13.78	25.35	0.98	10.12	0.20	M8	14.17	0.63
K10-MD	13.78	25.35	0.98	10.12	0.20	M8	14.17	0.63
K11-MD	13.78	25.75	0.98	10.31	0.20	M8	15.35	0.63

DIMENSIONS (K09-MD/K10-MD/K11-MD/K12-MD)


Dimensions in Inches - For reference only

Model	HP	a	b	c	d	e
K09-MD	15	19.37	24.15	11.13	9.71	17.3
K10-MD	15-20	20.31	24.62	11.13	10.18	17.3
K11-MD	15-20	21.34	26.02	11.13	11.58	17.3
K12-MD	15-20	21.57	26.1	11.13	11.66	17.3

Model	f	G	H	i	m	n
K09-MD	15.75	4" NPT	23	7.17	0.6	10
K10-MD	15.75	4" NPT	27.93	7.17	0.6	10
K11-MD	15.75	4" NPT	28.13	7.87	0.6	10
K12-MD	15.75	4" NPT	28.25	7.87	0.6	10

Model	o	p1	q	r	s	t	u	z
K09-MD	11.5	32.08	0.98	6.95	0.23	M8	14.17	0.63
K10-MD	11.5	32.08	0.98	6.95	0.23	M8	14.17	0.63
K11-MD	11.5	32.58	0.98	7.115	0.23	M8	15.35	0.63
K12-MD	11.5	32.58	0.98	7.15	0.23	M8	15.35	0.51



FPZ Espana/Portugal

Barcelona
Espana
iberica@fpz.com

HEADQUARTERS

FPZ S.p.A.
Concorezzo (MB)
Italy
info@fpz.com

FPZ, Inc

Saukville, Wisconsin
USA
usa@fpz.com

FPZ France S.a.r.l.

St. Priest
France
france@fpz.com

FPZ México/LA

Zapopan, Jalisco
México
mexico@fpz.com

FPZ UK

Andover, Hampshire
United Kingdom
uk@fpz.com

FPZ Austria & Germany

Krems
Austria
vertrieb@fpz.com