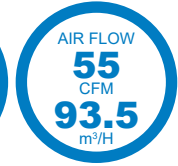
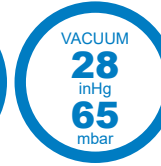


# PERFORMANCE OVERVIEW

## ROTARY VANE



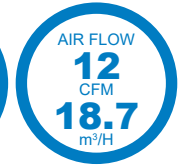
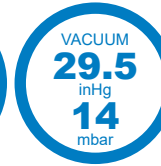
- Oilless or lubricated
- Low vibration
- Pulse-free air delivery
- Extra quiet AT Series



## ROCKING PISTON



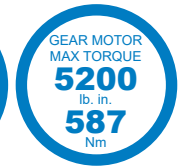
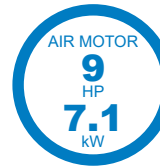
- Oilless
- Quiet operation
- Lightweight
- Corrosion resistant



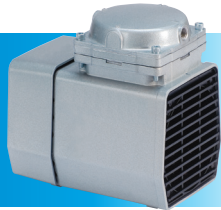
## AIR MOTORS/ GEAR MOTORS



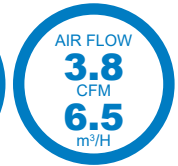
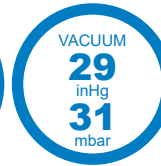
- Variable speed
- Non-electrical sparking
- Cool running
- Compact, portable
- Mount in any position



## DIAPHRAGM



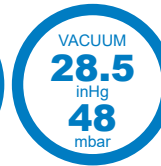
- Oilless
- Quiet operation
- Compact, lightweight
- High efficiency
- Corrosion resistant



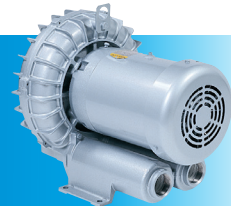
## PISTON



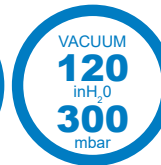
- Oilless
- Rugged construction
- Corrosion resistant



## REGENERATIVE BLOWERS



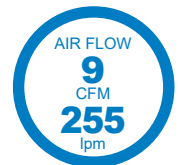
- Oilless
- Mount in any position
- Continuous, non-pulsating air flow



## JUN-AIR SYSTEMS



- Oilless
- Quiet operation
- Instantaneous supply of pressure/vacuum



# Rotary Vane

## Typical Applications

- Breathing air supply
- Packaging
- Graphic arts
- Pond & sewer aeration
- Vacuum hold-down
- Air sampling
- Food processing equipment
- Laboratory use
- Soil sparging
- Vacuum forming

PRESSURE  
**15**  
psig  
**1.0**  
bar

VACUUM  
**28**  
inHg  
**65**  
mbar

AIR FLOW  
**55**  
CFM  
**93.5**  
m<sup>3</sup>/H



Sliding, flat vanes in an eccentric-mounted rotor are flung outward against the bore of the pump to generate pressure and vacuum in a rotary vane pump.

- Oilless or lubricated models
- Low vibration
- Pulse-free air delivery
- Extra quiet AT Series
- Long, service-free life

- Electric motors are dual frequency, multi-voltage AC for worldwide applications.
- A complete line of accessories available

	Model/Series	Power Rating		Free Air Flow				Maximum Pressure		Maximum Vacuum	
		60 Hz		CFM		m3/h		psi	bar	inHg	mbar
		hp	kW	50 Hz	60 Hz	50 Hz	60 Hz				
<b>Motor Mounted Models</b>	0523	1/4	0.19	4.00	4.50	6.80	7.70	10	0.7	26.5	115
	0532	1/15	0.05	0.44	0.60	0.75	1.00	15	1.0	20.0	335
	0823	3/4	0.55	6.70	8.00	11.40	13.60	10	0.7	26.5	116
	1023	3/4	0.56	8.30	10.00	14.10	17.00	10	0.7	26.5	115
	*1423	1	0.75	11.50	13.00	19.50	22.00	10	0.7	26.5	115
	AT05	1/4	0.18	-	3.8-4.8	-	6.5-8.2	5	0.3	20	336
<b>Separate Drive Models</b>	1550	3/4	0.55	11.5	14.5	19.5	24.6	15	1.0	24	201
	1065-2565	1/2 - 1 1/2	0.37 - 1.1	7.3 - 16.5	8.5 - 21	12.4 - 28	14.4 - 35.7	-	-	28	65
	2067-2567	1 - 1 1/2	0.74 - 1.1	14 - 17	17 - 21	23.8 - 28.9	28.9 - 35.7	15	1.0	28	65
	3040	2	1.5	31	40	52.7	68	10	0.7	20	335
	6066	5	3.7	45	55	76.5	93.4	15*	1.0	25	167

\* Standard model performance. Soil sparging model capable of 20 psi

PRESSURE  
**175**  
psig  
**12**  
bar

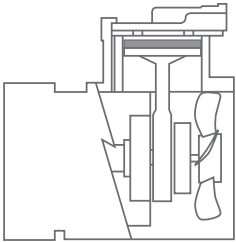
VACUUM  
**29.5**  
inHg  
**14**  
mbar

AIR FLOW  
**12**  
CFM  
**18.7**  
m<sup>3</sup>/H

# Rocking Piston

## Typical Applications

- Dental Compressors
- Eye surgery equipment
- Ventilation equipment
- Surgical aspiration equipment
- Nitrogen generators
- Lab test equipment
- Dry Sprinkler
- Beverage Dispensing
- Cable Pressurization
- Vacuum Mixing
- Oxygen concentrators



In a reciprocating motion, a flexible cup mounted on top of the connecting rod creates vacuum or pressure as the cup maintains a seal against the cylinder walls in a rocking motion.

- Oilless – ideal for use in medical, dental, laboratory, and food applications
- Rugged construction
- Quiet operation
- Dual frequency motors

- Air flows up to 5.5 cfm, pressure to 175 psi and vacuum capabilities to 29.5 in-HG
- Corrosion resistant models, tank models, and a complete line of recommended accessories available

Model/Series	Power Rating		Free Air Flow				Maximum Pressure				Maximum Vacuum	
	60 Hz		CFM		m <sup>3</sup> /h		psi		bar		Hg	mbar
	hp	kW	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
LOA (PSC)	1/16	0.05	0.4	0.5	0.7	0.8	100	100	6.9	6.9	26.0	133.0
LOA (DC)	1/10	0.07	-	-	-	-	-	-	-	-	27.0	99.0
LAA	1/6	0.12	0.65	0.75	1.1	1.3	-	-	-	-	29.0	31.0
71R (TWIN CYL)	3/4	0.55	3.3	4.5	5.6	7.6	100	100	6.9	6.9	28.0	65.0
71R (TWIN CYL - HIGH PRESS)	3/4	0.55	1.6	1.9	2.7	3.2	175	175	12.1	12.1	-	-
72R	3/4	0.55	5.30	6.20	9.00	10.50	50	3.5	3.4	0.2	-	-
72R (Vacuum)	3/4	0.55	4.60	5.40	7.80	9.20	-	-	-	-	28.0	65.0
86R	1/4 - 1/2	0.18 / 0.37	1 - 3.1	1.1 - 3.8	1.7 - 5.3	1.9 - 6.5	100 - 125	100 - 125	6.9 - 8.6	6.9 - 8.6	27.5	82.0
86R SSP	1/4 - 1/2	0.18 / 0.37	1.6 - 4.9	2.0 - 5.3	2.7 - 8.3	3.4 - 9.0	30 - 125	30 - 125	2.1 - 8.6	2.1 - 8.6	29.5	14.0
86R SSV	1/4 - 1/2	0.18 / 0.37	1.6 - 4.9	2.0 - 5.3	2.7 - 8.3	3.4 - 9.0	30 - 125	30 - 125	2.1 - 8.6	2.1 - 8.6	29.5	14.0
87R	1/4 - 1/2	0.18 / 0.37	6.12	7.31	10.4	12.4	125	125	8.6	8.6	24.8	173.0
87R SSP	1/2	0.18 / 0.37	3.6 - 4.8	4.3 - 4.8	6.1 - 8.2	7.3 - 8.2	30 - 125	30 - 125	2.1 - 8.6	2.1 - 8.6	-	-
87R SSV	1/2	0.18 / 0.37	4.8	4.8	8.2	8.2	30	30	2.1	2.1	24.8	173.0
120R	2	1.47	10	12	17.0	20.4	145	145	10	10	-	-

Standard Motor Mounted Models



# Air Motors/ Gear Motors

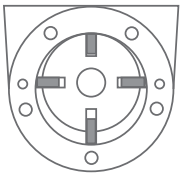
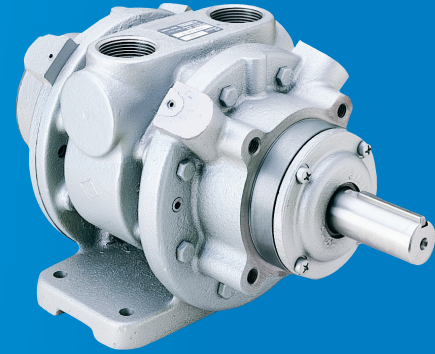
## Typical Applications

- Mixing equipment
- Conveyor drives
- Pump drives
- Food packaging
- Pharmaceutical packaging
- Hoists and winches
- Hose reels
- Fiberglass choppers
- Tension devices
- Turntables

AIR MOTOR  
**9**  
HP  
**7.1**  
kW

VARIABLE  
SPEEDS  
**10000**  
RPM

GEAR MOTOR  
MAX TORQUE  
**5200**  
lb. in.  
**587**  
Nm



Compressed air into an air motor forces the sliding vanes out of the eccentric-mounted rotor. An extended shaft on the rotor spins to perform the work.

- Available in lubricated or non-lubricated models
- Variable speed
- Non-electrical sparking
- Cool running
- Compact and portable
- Operate in all positions

- Mounting flexibility -hub, foot, face, NEMA C-Flange, or Metric D Series interface mountings and clockwise, counter-clockwise, or reversible rotations

	Model / Series	Maximum Speed	Max Line Pressure		Output Power		Torque @ Max Speed		Maximum Air Consumption		Maximum Torque	
		rpm	psi	bar	hp	kW	in-lb	Nm	CFM	m <sup>3</sup> /h	in-lb	Nm
Air Motors	1AM	10,000	100	7	0.45	0.33	2.75	0.31	20.5	34.8	5.6	0.63
	1UP	6,000	80	5.5	0.45	0.33	5.00	0.56	27	45.9	6	0.68
	2AM	3,000	100	7	0.93	0.68	19.5	2.2	30	51	26.1	2.9
	2AM Non-Lube	2,000	80	5.5	0.55	0.40	15	1.7	20	34	20	2.3
	4AM	3,000	100	7	1.7	1.3	35	4.0	78	132.5	56	6.3
	4AM Non-Lube	2,000	80	5.5	1.05	0.77	34	3.8	43	73	44	5.2
	6AM	3,000	100	7	4.0	2.9	80	9.0	128	217.5	115	13
	8AM	2,500	100	7	5.0	3.7	132	14.9	175	297.3	175	19.8
	16AM	2,000	100	7	9.0	6.6	290	32.8	275	467.2	372	42

	Model / Series	Gear Ratio	Maximum Speed	Max Line Pressure		Output Power		Torque @ Max Speed		Maximum Air Consumption		Maximum Torque	
			rpm	psi	bar	hp	kW	ft-lb	Nm	CFM	m <sup>3</sup> /h	ft-lb	Nm
Gear Motors	1AM-NRV	15:1	350	100	7	0.34	0.25	5.2	7.1	21.0	36	6	8.1
	1UP-NRV	15:1	400	80	5.5	0.32	0.24	7	9.5	21	36	8	10.8
	4AM-RV	10:1	300	80	5.5	1.26	0.93	22	30	57.5	98	35.4	48.0
	4AM-RV	15:1	200	80	5.5	1.25	0.92	33	45	60	102	53	71.9
	4AM-70C	20:1	150	100	7	1.17	0.86	41	56	71	121	62	84.0
	4AM-70C	40:1	75	100	7	0.95	0.70	67	91	71	121	105	142.4
	4AM-70C	60:1	50	100	7	0.82	0.60	86	117	71	121	136	184.4
	16AM-13	20:1	100	100	7	6.50	4.78	348	472	275	467	431	584.4
	MVP02 (GM)	19:1	175	100	7	0.75	0.55	29	39	51	87	32	43.4
	MVP05 (GM)	9:1	400	100	7	3.0	2.2	38	52	70	119	52	70.5
	MVP05 (GM)	15:1	450	80	5.5	3.0	2.2	34	46	70	119	84	113.9
	MVP06 (GM)	20:1	325	80	5.5	4.0	2.94	75	102	130	221	124	168.1

PRESSURE  
**60**  
psig  
**4.2**  
bar

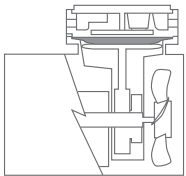
VACUUM  
**29**  
inHg  
**31**  
mbar

AIR FLOW  
**3.8**  
CFM  
**6.5**  
m<sup>3</sup>/H

# Diaphragm

## Typical Applications

- Blood analysis
- Respirators/nebulizers
- Vacuum pad hold-down
- Dental/surgical
- Graphic arts equipment
- Air and gas analysis
- Breast pumps
- Sterilizers
- Air brushes
- Oil atomizers
- Lab equipment
- Aspirators



In reciprocating motion, with a short stroke, the diaphragm at the top of the connecting rod flexes up and down in a closed chamber, creating pressure or vacuum.

- Oilless
- Rugged construction
- Quiet
- Cooler air output
- Easy maintenance
- Compact, lightweight
- Corrosion resistant
- Low power consumption
- Standard, twin, and miniature styles
- Electric motors available in dual frequency, shaded pole, and permanent split capacitor (psc) versions as well as AC multi-voltages for worldwide applications
- 4 - 24 volt DC options on the miniature styles

	Model/Series	Power Rating		Free Air Flow	Maximum Pressure		Maximum Vacuum	
		60 Hz			psi	bar	inHg	mbar
		hp	kW	LPM				
<b>Standard Diaphragm Models</b>	MOA (AC/DC)	1/8	0.09	1.36	50	3.4	24	200
	MAA (AC)	1/8	0.09	2.68	50	3.4	28.5	48
	DOA (AC/DC)	1/3	0.25	3.32	60	4.1	25.5	150
	DAA (AC)	1/15	0.05	6.46	60	4.1	29	31
<b>Miniature Diaphragm Models</b>	10D (DC)	-	-	3.8	15	1.0	15	505
	15D (DC)	-	-	4.3	15	1.0	14	539
	15D (DC)	-	-	7.0	20	1.4	20	336
	22D (AC)	1/20	0.04	26.3	25	1.7	23	234
	22D (DC)	1/8	0.09	36.8	25	1.7	22.5	251



# Piston

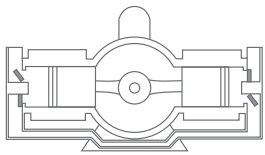
PRESSURE  
**125**  
psig  
**8.8**  
bar

VACUUM  
**28.5**  
inHg  
**48**  
mbar

AIR FLOW  
**11**  
CFM  
**18.7**  
m<sup>3</sup>/H

## Typical Applications

- Cable pressurization
- Tire inflators
- Air suspension
- Beverage dispensing
- Door closures
- Power spraying
- Spray painting



In reciprocating motion, the piston moves up and down or back and forth inside a cylinder creating pressure or vacuum.

- Oilless
- Rugged construction
- Long, service-free life
- Corrosion resistant
- Motor-mounted or separate drive styles
- Dual frequency, AC multi-voltage, 3 phase, 12 and 24 volt DC options also available
- Tank-mounted piston compressors come in tank sizes ranging from 2 to 60 gallons
- A complete line of recommended accessories also available

	Model/Series	Power Rating		Free Air Flow				Maximum Pressure		Maximum Vacuum		Tank Avail.
		60 Hz		CFM		m3/h		psi	bar	inHg	mbar	
		hp	kW	50 Hz	60 Hz	50 Hz	60 Hz					
Standard Motor Mounted Models	1L	1/6	0.12	1.5	1.5	2.55	2.55	50	3.5	-	-	Yes
	2L	1/4	0.18	2.4	2.4	4.1	4.1	50	3.5	-	-	Yes
	3L	1/3	0.25	3.1	3.1	5.3	5.3	50	3.5	-	-	Yes
	4L	1/2	0.37	4.5	4.5	7.6	7.6	50	3.5	-	-	Yes
	5L	3/4	0.55	5.4	5.4	9.2	9.2	50	3.5	-	-	Yes
	6L	1	0.74	6.3	6.3	10.7	10.7	50	3.5	-	-	Yes
	7L	1 1/2 - 2	1.1 - 1.5	10.2	10.2	17.3	17.3	50	3.5	-	-	Yes
	8L	2	1.5	9.1	12.4	15.5	21.1	50	3.5	-	-	Yes
	1H	1/6	0.12	1.3	1.3	2.2	2.2	100	7.0	-	-	Yes
	2H	1/4	0.18	2.1	2.1	3.6	3.6	100	7.0	-	-	Yes
	3H	1/3	0.25	2.4	2.4	4.1	4.1	100	7.0	-	-	Yes
	4H	1/2	0.37	3.5	3.5	5.9	5.9	100	7.0	-	-	Yes
	5H	3/4	0.55	4.7	4.7	8.0	8.0	100	7.0	-	-	Yes
	6H	1	0.74	5.4	5.4	9.2	9.2	100	7.0	-	-	Yes
	7H	1 1/2 - 2	1.1 - 1.5	9.1	9.1	15.5	15.5	100	7.0	-	-	Yes
	8H	2	1.5	11	11	18.7	18.7	100	7.0	-	-	Yes
	I VAF	1/6	0.12	1.49	1.80	2.53	3.06	-	-	27.5	82	No
4VSF	1/2	0.37	3.38	4.2	5.75	7.1	-	-	28.5	48	No	
4VCF	1/2	0.37	4.15	5.00	7.06	8.50	-	-	27.5	82	No	
5VDF	1 1/2	1.1	8.72	10.50	14.82	17.85	-	-	27.5	82	No	
Separate Drive Models	PCA	1.7	1.25	6.1		10.4		125	8.8	-	-	No

PRESSURE  
**152**  
inH<sub>2</sub>O  
**385**  
mbar

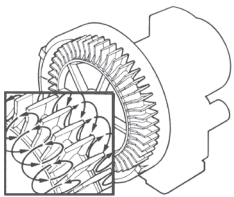
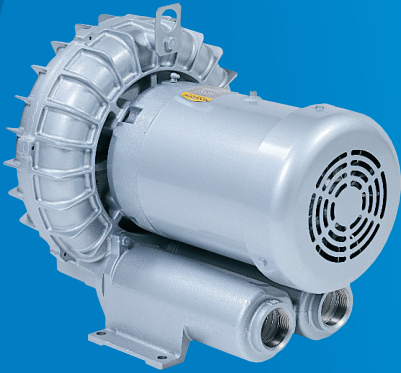
VACUUM  
**120**  
inH<sub>2</sub>O  
**300**  
mbar

AIR FLOW  
**1350**  
CFM  
**2294**  
m<sup>3</sup>/H

# Regenerative Blowers

## Typical Applications

- Air tables
- Solution and media agitation
- Vacuum hold-down and pickup
- Air blow-off
- Soil and ground water remediation
- Carton forming and packaging
- Lab filtration
- Sewage aeration
- Materials handling
- Aquaculture
- Pneumatic conveying



A certain amount of air slips past each impeller blade during rotation and returns to the base of a succeeding blade for reacceleration – “regenerative.”

- For high volume vacuum or compressed air applications
- Motor-mounted and separate drive models
- TEFC electric motors are UL and CSA certified on several models (see chart) and come in single and three-phase, dual frequency, and multi-voltage versions

- Special models with explosion-proof motors, 13/5 (0.6) to 10 HP, are designed for soil vapor extraction applications. Consult Distributor or Factory for details (not shown on chart)
- A complete line of recommended accessories available

	Model/ Series	Power Rating		Free Air Flow				Maximum Pressure				Maximum Vacuum			
		60 Hz		CFM		m <sup>3</sup> /h		inH <sub>2</sub> O		mbar		inH <sub>2</sub> O		mbar	
		hp	kW	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
<b>Standard Motor Mounted Models</b>	R1	1/8	0.09	23	27	39	46	21	28.5	52	71	20	26.5	50	66
	R2	1/3, 1/2	0.25, 0.37	33	42	56	71	30	39	75	97	25	35	62	87
	R3	1/2	0.37	43	52 - 53	73	88-90	35 - 78	43 - 55	87 - 194	107 - 137	28 - 35	40 - 50	70 - 87	100 - 125
	R4	1	0.74	74	92	126	156	38	52	95	130	34	48	85	120
	R4P	1 1/2	1.1	110	127	187	216	47 - 50	63 - 65	117 - 125	157 - 162	43 - 45	59 - 60	107 - 112	147 - 149
	R5	2 1/2	1.84	133	160	226	272	50	65	125	162	47	60	117	149
	R6	1 1/2 - 5	1.1 - 3.7	180	215	306	365	35 - 78	40 - 105	87 - 194	100 - 262	45 - 70	45 - 88	112 - 174	112 - 219
	R6P	5 1/2	4.0	235 - 245	280 - 290	399 - 416	476 - 493	50 - 85	30 - 110	125 - 212	75 - 274	60 - 70	35 - 90	149 - 174	87 - 224
	R7	10	7.35	350	420	595	714	115	100 - 125	286	249 - 311	90	95 - 110	224	237 - 274
	R7P	18	13.2	666	795	1132	1351	90	105	224	262	85	95	212	237
	R9	15	11	585	680	994	1155	125	125	311	311	105	115	262	286
R9P	30	22.1	585	1350	1937	2294	110	125	274	311	100	110	249	274	
<b>Separate Drive Models</b>	SDR4	4	2.94	147		128		110		275		90		225	
	SDR5	10	7.35	240		408		152		385		120		300	



# JUN-AIR SYSTEMS

Our JUN-AIR brand supplies clean and quiet air – a complete compressed air solution. The JUN-AIR line comes in a variety of cabinet, uncovered, as well as dryer equipped models, providing versatility to various applications and possibilities.

PRESSURE  
**116**  
psig  
**8**  
bar

AIR FLOW  
**9**  
CFM  
**255**  
m<sup>3</sup>/H



## MODEL LETTER GUIDE

- B - Basic (Uncovered)
- Q - Includes Dryer
- M - Cabinet

Model Number	Free Air Flow Rate				Amps		Max Pressure		Pressure of 145 psi/10 bar*	Flow at Max Pressure				Operating Voltage		Tank Size
	CFM		LPM				psi	bar		CFM		LPM		50 Hz	60 Hz	Liters/Gallons
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz				50 Hz	60 Hz					
<b>86R-4B</b>	1.2	1.41	34	40	1.7	1.1/2.1	116	8	-	0.44	0.52	12.5	15	230	240/110	4/1.1
<b>87R-4B</b>	2.89	3.21	82	91	2.5	2.8/5.7	116	8	-	1	1.2	28	34	230	240/110	4/1.1
<b>87R-4P</b>	1.2	1.41	34	40	1.7	1.1/2.1	116	8	-	1	1.2	28	34	230	240/110	4/1.1
<b>87R-15B</b>	2.89	3.21	82	91	2.5	2.8/5.7	116	8	-	1	1.2	28	34	230	240/110	15/4.0
<b>87R-25B</b>	2.89	3.21	82	91	2.5	2.8/5.7	116	8	-	1	1.2	28	34	230	240/110	25/6.6
<b>OF301-4B</b>	1.9	2.4	54	68	2.1	2.2/4.1	116	8	-	0.74	0.81	21	23	230	240/110	4/1.1
<b>OF302-4B</b>	3.81	4.87	108	138	3.8	4.1/6.6	116	8	Yes	1.34	1.55	38	44	230	240/110	4/1.1
<b>OF302-15B</b>	3.81	4.87	108	138	3.8	4.1/6.6	116	8	Yes	1.34	1.55	38	44	230	240/110	15/4.0
<b>OF302-25B</b>	3.81	4.87	108	138	3.8	4.1/6.6	116	8	Yes	1.34	1.55	38	44	230	240/110	25/6.6
<b>OF302-25M</b>	3.81	4.87	108	138	3.8	4.1/6.6	116	8	Yes	1.34	1.55	38	44	230	240/110	25/6.6
<b>2xOF302-40B</b>	7.62	9.7	216	276	7.6	8.2/13.2	116	8	Yes	2.68	3.11	76	88	230	240/110	40/10.6
<b>2xOF302-40M</b>	7.62	9.7	216	276	7.6	8.2/13.2	116	8	Yes	2.68	3.11	76	88	230	240/110	40/10.6
<b>OF302-25BQ2</b>	3.81	4.87	108	138	3.8	4.1/6.6	116	8	Yes	1.06	1.27	30	36	230	240/110	25/6.6
<b>OF302-25MQ2</b>	3.81	4.87	108	138	3.8	4.1/6.6	116	8	Yes	1.06	1.27	30	36	230	240/110	25/6.6
<b>2xOF302-40BQ2</b>	7.62	9.7	216	275	7.6	8.2/13.2	116	8	Yes	2.12	2.5	60	70	230	240/110	40/10.6
<b>2xOF302-40MQ2*</b>	7.62	9.7	216	275	7.6	8.2/13.2	116	8	Yes	2.12	2.5	60	70	230	240/110	40/10.6
<b>120R-40B*</b>	8.7	9.7	246	275	8	10	116	8	Yes	4.9	5.7	139	161	230	240	40/10.6
<b>120R-40BQ3*</b>	7.1	8	202	225	8	10	116	8	Yes	4.4	4.7	125	133	230	240	40/10.6
<b>120R-40M*</b>	7.3	8.2	207	232	8	10	116	8	Yes	4.2	4.8	112	133	230	240	40/10.6
<b>120R-40MQ3*</b>	7.1	8	202	225	8	10	116	8	Yes	4	4.7	99	110	230	240	40/10.6
<b>2x120R-40M*</b>	12	13	340	368	16	20	116	8	Yes	8	9	227	255	230	240	40/10.6
<b>2x120R-40MQ6*</b>	10	11.6	283	329	16	20	116	8	Yes	4.8	6	136	170	230	240	40/10.6
<b>2x120R-90BQ6*</b>	10.5	12	297	340	16	20	116	8	Yes	6	7	170	198	230	240	40/10.6

\*Operation is possible with reduced flow and service life