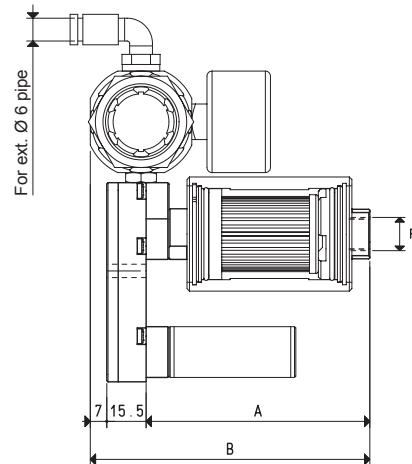
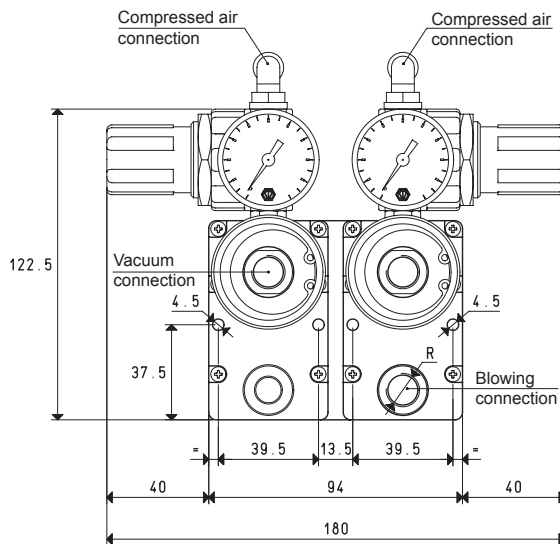
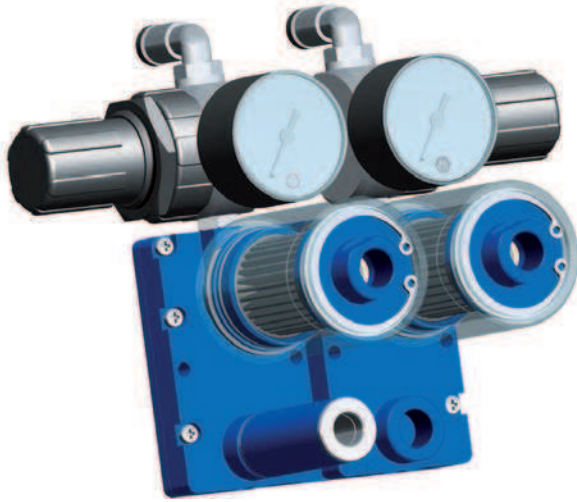


## SMALL PNEUMATIC COMBINED SUCTION AND BLOWING PUMPS PS

All the small pneumatic suction and blowing pumps previously described can be combined regardless of their suction or blowing capacity. Given the enormous number of possible combinations, for space reasons, this catalogue only describes combinations of pumps with the same size.



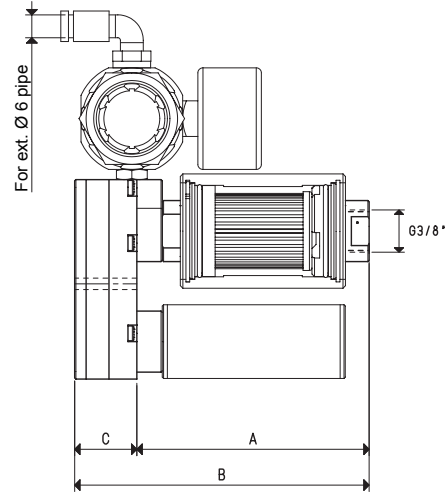
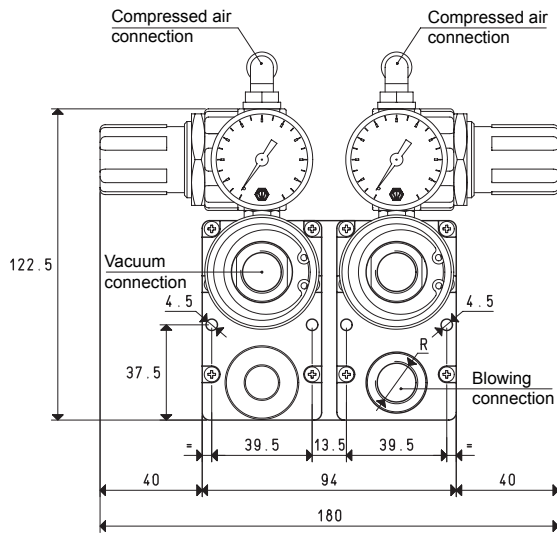
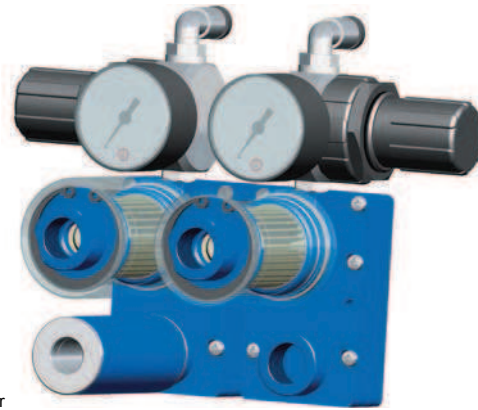
Art.		PA 3					Art.		PS 3				
Supply pressure	bar (g)	1	2	3	4	5	Supply pressure	bar (g)	1	2	3	4	5
Max. vacuum level	-kPa	20	42	62	80	85	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7
Air consumption	NI/s	0.2	0.4	0.5	0.7	0.8	Air consumption	NI/s	0.2	0.4	0.5	0.7	0.8
Quantity of sucked air	cum/h	2.0	2.5	3.0	3.4	3.6	Quantity of blown air	cum/h	2.7	3.9	4.8	5.9	6.5
A				88			A				88		
B				110.5			B				110.5		
R	Ø			G1/4"			R	Ø			G1/4"		
Weight	Kg			0.45			Weight	Kg			0.44		
Art.		PA 7					Art.		PS 7				
Supply pressure	bar (g)	1	2	3	4	5	Supply pressure	bar (g)	1	2	3	4	5
Max. vacuum level	-kPa	20	42	62	80	85	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7
Air consumption	NI/s	0.4	0.6	0.8	1.2	1.4	Air consumption	NI/s	0.4	0.6	0.8	1.2	1.4
Quantity of sucked air	cum/h	3.0	4.0	5.4	5.8	6.2	Quantity of blown air	cum/h	4.4	6.1	8.2	10.1	11.2
A				88			A				88		
B				110.5			B				110.5		
R	Ø			G3/8"			R	Ø			G3/8"		
Weight	Kg			0.46			Weight	Kg			0.45		
Working temperature	°C			-20 / +80			Working temperature	°C			-20 / +80		

**Note:** All the values in the table are valid at a normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Conversion ratio: inch =  $\frac{\text{mm}}{25.4}$ ; pounds =  $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

GAS-NPT thread adapters available at page 1.117

# SMALL PNEUMATIC COMBINED SUCTION PUMPS PA and BLOWING PUMPS PS

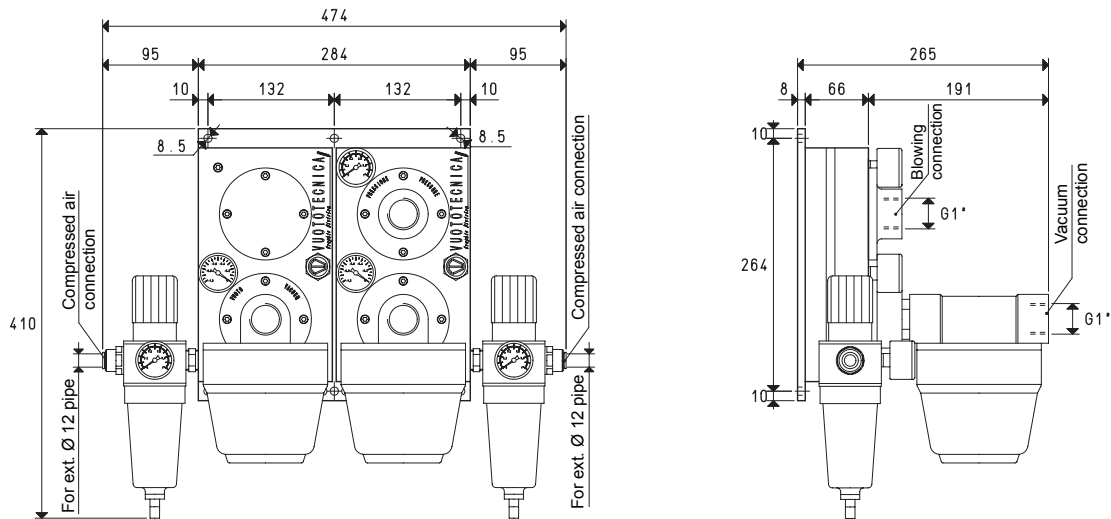


Art.	PA 10					Art.	PS 10						
Supply pressure	bar (g)	1	2	3	4	5	Supply pressure	bar (g)	1	2	3	4	5
Max. vacuum level	-kPa	20	42	62	80	85	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7
Air consumption	NI/s	0.5	0.9	1.2	1.6	1.9	Air consumption	NI/s	0.5	0.9	1.2	1.6	1.9
Quantity of sucked air	cum/h	4.0	6.0	7.7	8.5	9.4	Quantity of blown air	cum/h	5.8	9.2	12.0	14.2	16.2
A		94					A		94				
B		118.5					B		118.5				
C		24.5					C		24.5				
Weight	Kg	0.59					Weight	Kg	0.49				
Art.	PA 14					Art.	PS 14						
Supply pressure	bar (g)	1	2	3	4	5	Supply pressure	bar (g)	1	2	3	4	5
Max. vacuum level	-kPa	20	42	62	80	85	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7
Air consumption	NI/s	0.9	1.3	1.7	2.1	2.5	Air consumption	NI/s	0.9	1.3	1.7	2.1	2.5
Quantity of sucked air	cum/h	6.0	8.0	10.2	11.5	12.6	Quantity of blown air	cum/h	9.2	12.6	16.3	19.0	21.6
A		94					A		94				
B		118.5					B		118.5				
C		24.5					C		24.5				
Weight	Kg	0.60					Weight	Kg	0.50				
Art.	PA 18					Art.	PS 18						
Supply pressure	bar (g)	1	2	3	4	5	Supply pressure	bar (g)	1	2	3	4	5
Max. vacuum level	-kPa	20	42	62	80	85	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7
Air consumption	NI/s	1.2	1.7	2.3	2.9	3.6	Air consumption	NI/s	1.2	1.7	2.3	2.9	3.6
Quantity of sucked air	cum/h	8.0	11.5	14.8	16.5	18.0	Quantity of blown air	cum/h	12.3	17.6	23.0	26.9	31.0
A		94					A		94				
B		128.5					B		128.5				
C		34.5					C		34.5				
Weight	Kg	0.62					Weight	Kg	0.52				
Working temperature	°C	-20 / +80					Working temperature	°C	-20 / +80				

Note: All the values in the table are valid at a normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

# PNEUMATIC COMBINED SUCTION PUMP PA and BLOWING PUMP PS

All the small pneumatic suction and blowing pumps previously described can be combined regardless of their suction or blowing capacity. Given the enormous number of possible combinations, for space reasons, this catalogue only describes combinations of pumps with the same size.



Art.	PA 40						Art.	PS 40							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	14	30	46	65	82	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	1.0	1.5	2.0	2.3	2.7	3.2	Air consumption	NI/s	1.0	1.5	2.0	2.3	2.7	3.2
Quantity of sucked air	cum/h	15	23	30	36	39	42	Quantity of blown air	cum/h	18	28	37	44	48	53
Weight	Kg	6.2						Weight	Kg	6.3					
Art.	PA 70						Art.	PS 70							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	14	30	46	65	82	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	2.0	3.0	4.1	4.9	5.7	6.6	Air consumption	NI/s	2.0	3.0	4.1	4.9	5.7	6.6
Quantity of sucked air	cum/h	29	47	58	65	73	80	Quantity of blown air	cum/h	36	57	72	83	93	104
Weight	Kg	6.2						Weight	Kg	6.3					
Art.	PA 100						Art.	PS 100							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	11	28	45	65	82	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	3.0	4.6	6.2	7.2	8.5	9.8	Air consumption	NI/s	3.0	4.6	6.2	7.2	8.5	9.8
Quantity of sucked air	cum/h	28	57	75	88	98	108	Quantity of blown air	cum/h	38	73	97	114	129	144
Weight	Kg	6.2						Weight	Kg	6.3					
Working temperature	°C	-20 / +80						Working temperature	°C	-20 / +80					

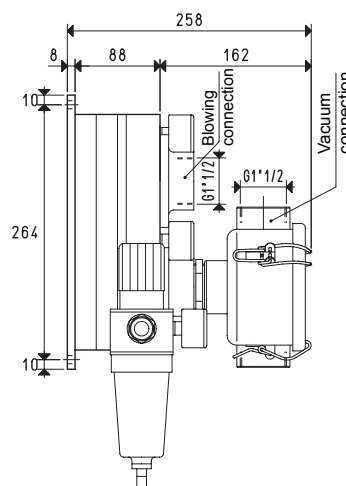
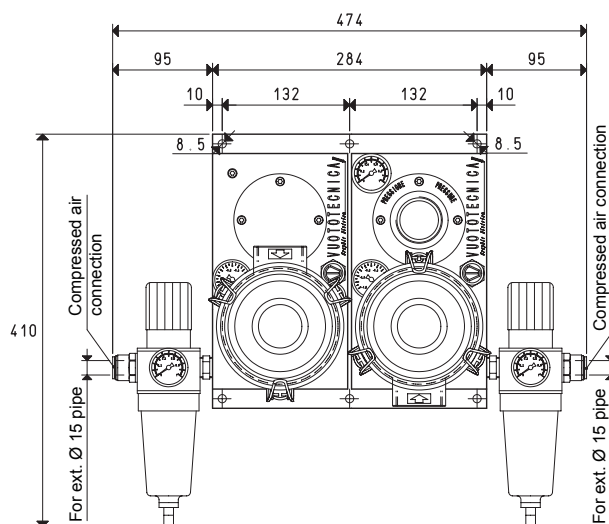
Note: All the values in the table are valid at a normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Conversion ratio: inch =  $\frac{mm}{25.4}$ ; pounds =  $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117

3D drawings available at [www.vuototecnica.net](http://www.vuototecnica.net)

# PNEUMATIC COMBINED SUCTION AND BLOWING PUMPS PA 140 ÷ 200 WITH PS 140 ÷ 200

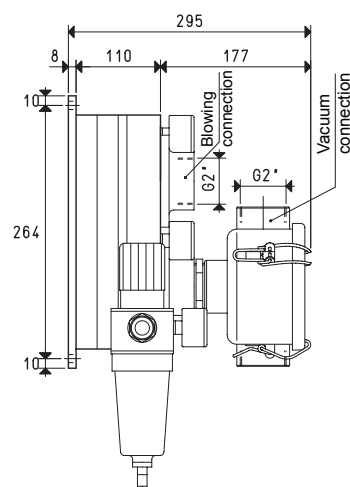
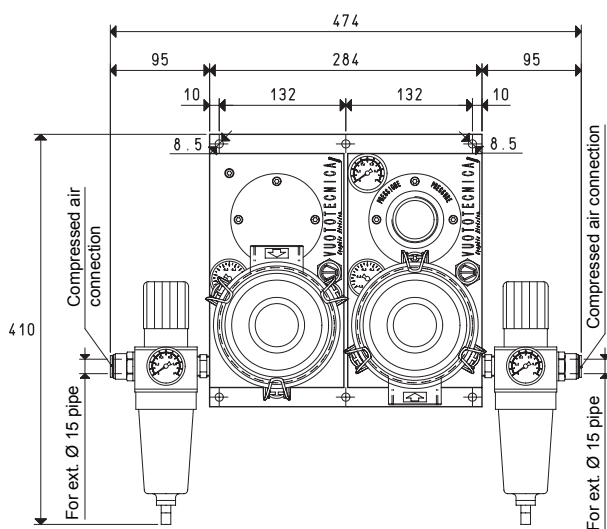


Art.	PA 140						Art.	PS 140							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	15	35	55	70	85	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	4.1	6.2	8.3	9.6	11.4	13.0	Air consumption	NI/s	4.1	6.2	8.3	9.6	11.4	13.0
Quantity of sucked air	cum/h	45	80	106	125	140	152	Quantity of blown air	cum/h	59	102	135	160	181	199
Weight	Kg	7.2						Weight	Kg	7.3					
Art.	PA 170						Art.	PS 170							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	15	35	55	70	85	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	5.1	7.7	10.3	12.1	14.2	16.3	Air consumption	NI/s	5.1	7.7	10.3	12.1	14.2	16.3
Quantity of sucked air	cum/h	53	98	128	150	168	182	Quantity of blown air	cum/h	71	125	165	194	219	240
Weight	Kg	7.2						Weight	Kg	7.3					
Art.	PA 200						Art.	PS 200							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	15	35	55	70	85	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	6.0	9.1	12.2	14.2	16.9	19.4	Air consumption	NI/s	6.0	9.1	12.2	14.2	16.9	19.4
Quantity of sucked air	cum/h	60	110	142	170	188	200	Quantity of blown air	cum/h	81	142	185	221	249	270
Weight	Kg	7.2						Weight	Kg	7.3					
Working temperature	°C	-20 / +80						Working temperature	°C	-20 / +80					

Note: All the values in the table are valid at a normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

# PNEUMATIC COMBINED SUCTION AND BLOWING PUMPS

## PA 250 ÷ 300 WITH PS 250 ÷ 300



Art.	PA 250						Art.	PS 250							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	15	35	55	70	85	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	7.5	11.2	15.0	17.3	20.7	24.0	Air consumption	NI/s	7.5	11.2	15.0	17.3	20.7	24.0
Quantity of sucked air	cum/h	100	145	190	224	252	280	Quantity of blown air	cum/h	127	185	244	286	327	366
Weight	Kg	8.1						Weight	Kg	8.2					
Art.	PA 300						Art.	PS 300							
Supply pressure	bar (g)	1	2	3	4	5	6	Supply pressure	bar (g)	1	2	3	4	5	6
Max. vacuum level	-KPa	15	35	55	70	85	90	Max. blowing pressure	bar (g)	0.1	0.2	0.3	0.5	0.7	0.8
Air consumption	NI/s	9.0	13.5	18.1	20.4	24.8	29.0	Air consumption	NI/s	9.0	13.5	18.1	20.4	24.8	29.0
Quantity of sucked air	cum/h	106	160	213	240	290	320	Quantity of blown air	cum/h	138	208	278	313	379	424
Weight	Kg	8.1						Weight	Kg	8.2					
Working temperature	°C	-20 / +80						Working temperature	°C	-20 / +80					

**Note:** All the values in the table are valid at a normal atmospheric pressure of 1013 mbar and obtained with a constant supply pressure.

Conversion ratio: inch =  $\frac{mm}{25.4}$ ; pounds =  $\frac{g}{453.6} = \frac{Kg}{0.4536}$

GAS-NPT thread adapters available at page 1.117