

## PISTON PUMPS

Direct-driven  
Single-stage belt-driven  
Double-stage belt-driven



Compressed air at your service

All ABAC piston pumps result from the combination of advanced technology and a 60 year-old tradition making them unique in terms of reliability, life span, low operating-temperatures and efficiency. The use of innovative highly durable low friction-coefficient materials, dynamically balanced ductile iron shafts, oversized oil cases, cast iron

cylinders to optimise life-span, die-cast aluminium heads for better heat dissipation, highly durable stainless steel reed valves, wear-resistant connecting rods, monitoring of all phases of production and final testing of all parts are the unique characteristics which set ABAC's units apart and result in them being the undisputed leaders in their field.

# The manufacturing technology

## Direct-driven electric compressor units

Coaxial electric compressors are characterised by the mounting of the pump unit directly onto the rotating shaft of the electrical motor. This production solution results in more compact dimensions and eliminates power losses caused by transmission elements. The plastic casing covering the pump unit conducts the cooling air from the head of the pump unit, thus increasing the life-span of the mechanical elements and improving the efficiency of the whole unit in terms of the quantities of air produced. It also prevents accidental contact with moving parts.



### Lubricated

A particular lubricating system, known as "agitation" causes the circulation of oil within the pump unit. This ensures optimum lubrication of the moving mechanical elements therein, prevents overheating and guarantees an increased life-span.

### Oilless

Characterised by the absence of lubricating oil within the pump unit. Unique production solutions and highly durable low friction coefficient materials are employed in the production of the moving parts (piston and shaft) meaning that there is no need for lubrication during use.

As a result, these compressors are not only extremely reliable but also produce compressed air that is free from oil residue. Obviously, this means that maintenance operations are greatly simplified because there is no need for lubricating oil checks or top ups. They are also more transportable because there is no risk of oil leaks even when compressors are placed on their sides, for example for loading into a vehicle. All these characteristics combine to create a compressor that is ideal for domestic or hobbyist use.



## Belt-driven compressor units










The electric motor transmits movement to the flywheel of the pump unit by way of one or more belts. The rotation speed of the pump unit is always much lower than that of the electric motor, thus ensuring less noise, a longer life-span and a better output than coaxial compressors. ABAC's models are characterised by pump units with die-cast aluminium or cast iron cylinders and heads with large fins and end headers for more efficient cooling and an enhanced volumetric output. They feature oversized oil cases for greater lubrication, ductile cast iron crankshafts and special stainless steel reed valves that ensure increased output and better wear-and-fatigue resistance.

The belt-driven compressors are available in singlestage and double-stage versions. In the latter, the air is compressed during the first phase, cooled, and then compressed again during a second phase, allowing the pump units to produce extremely high outputs.

Suitable for heavy duty and continuous use, they are the ideal work tool for DIY, professionals and small industries.

## Key

### Technical specification symbols

	Cylinders		Air displacement
	Stages		Power
	rpm		Pressure
	Volt/Hz		

# Direct-driven oilless electric compressor units



- Die-cast aluminium cylinders and heads.
- Special high-output stainless steel valves.
- Forced cooling of the hottest parts.









OM 231



OL 195



OM 200 SILENT

Model	Code	 Cylinders	 Stages	 l/min	HP	KW	 rpm	 Volt/Hz	 bar
OM 200 Silent	4116090208	1	1	130	1	0,7	1450	230/50	8
OL195	4116090218	1	1	180	1,5	1,1	3400	230/50	8
OM231	4116090209	1	1	230	2	1,5	2850	230/50	8



# Direct-driven lubricated electric compressor units

- Low current absorption.
- Single-phase electric motor with thermal protection against overheating.
- Robust, light and compact.
- Final testing of all parts.



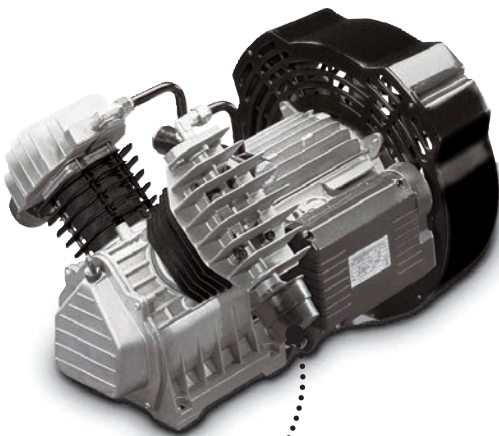
FC2



F1 241



D 240 / D 260



GV34



F1 310



Model	Code	Cylinders	Stages	l/min	HP	KW	rpm	Volt/Hz	bar
FC2	4116090227	1	1	222	2	1,5	2850	230/50	8
F1 241	4116090260	1	1	240	2	1,5	2850	230/50	8
D 240	4116090022	1	1	240	2	1,5	2850	230/50	10
D 260	4116090023	1	1	260	2,5	1,8	2850	230/50	10
F1 310	4116090200	1	1	310	3	2,2	2850	230/50	10
GV34	4116090251	2	1	340	3	2,2	1450	230/50	10
	4116090104							400/50	

# Single-stage belt-driven compressor units



PAT24 /  
PAT24B

- Die-cast aluminium heads with large fins for better cooling.
- Over-sized oil case for better lubrication.
- Special valve-plates for excellent wear resistance.



PAT38 /  
PAT38B

Model	Code	Multiple code	Multiple Qty	Cylinders	Stadi	l/min	HP	KW	rpm	Volt/Hz	bar
PAT 24	4116090299	4116091283	47	2	1	255	2	1,5	1075	-	10
PAT 24B	4116090300	4116091284	47	2	1	255	2	1,5	1075	-	10
						320	3	2,2	1300	-	10
PAT 38	4116090301	4116091285	28	2	1	393	3	2,2	1050	-	10
PAT 38B	4116090302	4116091286	28	2	1	393	3	2,2	1050	-	10
						486	4	3	1300	-	10



# Double-stage belt-driven compressor units

- Powerful, silent and safe.
- Suitable for heavy-duty use.
- Designed to have an extremely long life-span.
- Low energy consumption.
- Double-stage units with intermediate cooling between the two compression phases.



**B4900**



**B5900B**



**B6000**



**B7000**



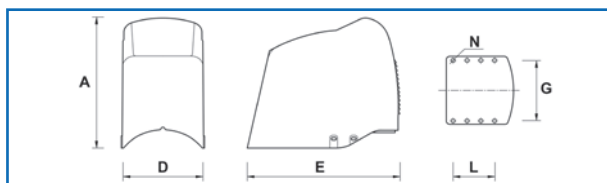
**BV8900**



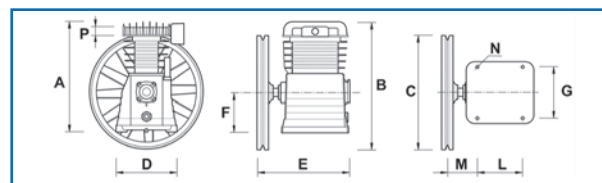
**B7900**

Model	Code	Multiple Code	Multiple Qty	Cylinders	Stages	l/min	HP	KW	rpm	Volt/Hz	bar
B 4900	4116090007	4116090118	30	2	2	514	4	3	1400	-	11
B 4900B	4116090122	4116090111	30	2	5	514	4	3	1400	-	11
B 5900B	4116090252	4116090133	15	2	2	653	5,5	4	1400	-	11
B 6000	4116090254	4116090160	15	2	2	660	5,5	4	1100	-	11
						827	7,5	5,5	1400		
B 7000	4116090261	-	-	2	2	1023	7,5	5,5	1100	-	11
						1210	10	7,5	1300		
B 7900	4116090253	-	-	2	2	950	7,5	5,5	750	-	11
						1130	10	7,5	900		
BV 8900	4116090001	-	-	4	2	2016	15	11	800	-	11
						2400	20	15	950		
						2770	25	18,5	1100		

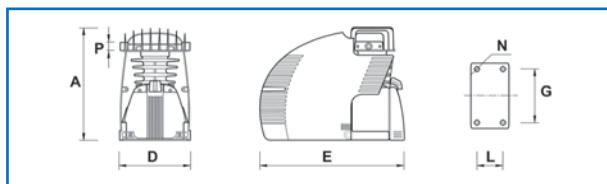
# Piston pumps - Dimensions



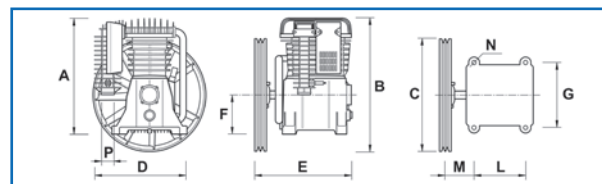
Direct-driven oilless electric compressor units



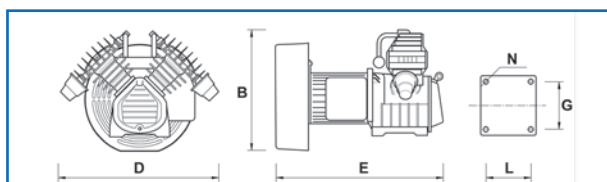
Single-stage belt-driven compressor units



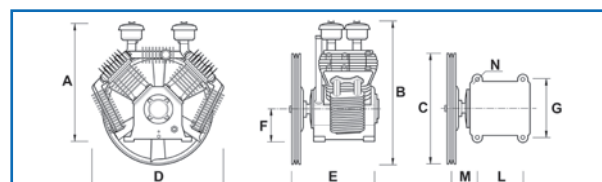
Direct-driven lubricated electric compressor units



Double-stage belt-driven compressor units



Direct-driven V-shaped lubricated electric compressor units



Double-stage belt-driven compressor units

Code	Pump	A	B	C	D	E	F	G	L	M	N	P
4116090218	OL195	312			190	400		139	64		9	1/4"
4116090209	OM231	304			220	357		139	64		9	3/8"
4116090208	OM200sil	304			220	357		139	64		9	3/8"
4116090227	FC2	285			170	355			110		M6	3/8"
4116091146	F1 241	263			166	375		139	64		9	3/8"
4116090022	D240	274			171	355		139	64		9	3/8"
4116090023	D260	274			171	355		139	64		9	1/2"
4116090200	F1 310	264			166	375		139	64		9	1/2"
4116090251	GV34		355		457	485		130	156		9	1/2"
4116090299	PAT24	300	350	330	187	256	96,5	162	132	77,5	9	3/8"
4116090300	PAT24B	300	350	330	187	256	96,5	162	132	77,5	9	3/4"
4116090301	PAT38	362	415	390	189	261	123	156	140	91	8,5	1/2"
4116090302	PAT38B	362	415	390	189	261	123	156	140	91	8,5	3/4"
4116090007	B4900	364	413	350	280	310	126,5	174	146	105	10,5	1"
4116090252	B5900B	405	490	430	320	345	131	190	170	110	10,5	1-1/4"
4116090254	B6000	445	510	430	350	360	150	248	198	112	13	1-1/4"
4116090261	B7000	560	600	430	500	415	175	290	240	122	15	1-1/4"
4116090253	B7900	615	670	430	500	410	160	288	230	110	14	1-1/4"
4116090001	BV8900	670	790	630	780	525	195	350	310	155	15	1"

The entire range of spare parts kits is available for ABAC piston pumps



# The World of ABAC



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— COMPANY —

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The 'original part' identification confirms that these components passed our strict test criteria. All parts are designed to match the compressor and are approved for use on the specified compressor. They have been thoroughly tested to obtain the highest level of protection, extending the compressors' lifetime and keeping the cost of ownership to an absolute minimum. No compromises are made on reliability. The use of 'original part' certified quality components helps ensure reliable operation and will not impact the validity of your warranty, unlike other parts. Look for your quality assurance.



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