

AVLAVCAA-CH, AVLANCAA-CH, AND AVLEKCAA-CH

25" HG-350 PSIG (6.9–17.24 Bar G)
 Continuous Operation 7.5–40 HP (5.6–30 kW)

DIMENSIONS

Model	Bore Diameter	Stroke	Suction & Discharge Pipe Size NPT	Discharge	Dimensions L x W x H	Weight
AVLAVCAA-CH	in 8.00/4.25	4.50	3.0	2.0	40 x 27 x 33	lbs 680
	mm 203/108	114	NA	NA	1016 x 686 x 838	kg 308
AVLANCAA-CH	in 4.25/4.25	4.50	2.0	2.0	38 x 27 x 33	lbs 600
	mm 108	114	NA	NA	965 x 686 x 838	kg 272
AVLEKCAA-CH	in 7.50/7.50	4.50	3.0	3.0	38 x 27 x 33	lbs 600
	mm 191	114	NA	NA	965 x 686 x 838	kg 272

COMPRESSOR SPECIFICATIONS

HP --- kW	Speed	Pressure		Capacity	
		psig	bars	cfm	m ³ /min
AVLAVCAA-CH					
25 ---	968	100	6.90	101	2.86
	922	125	8.62	96.5	2.73
19 ---	830	175	12.07	85	2.41
	784	250	17.24	78	2.21
30 ---	1106	100	6.90	116	3.29
	1014	125	8.62	105	2.97
22 ---	968	175	12.07	99	2.80
	876	250	17.24	87	2.46
AVLANCAA-CH					
40 ---	Suction Pressures: 1–140 psig				
30 ---	Discharge Pressure: up to 350 psig				

Consult factory for sizing and technical information.

VACUUM PUMP SPECIFICATIONS

HP --- kW	Speed	Capacity		Vac. - HG	
		cfm	m ³ /min	in	mm
AVLEKCAA-CH					
7.5–10 ---	870	169	4.79	5	127
	870	160	4.53	10	254
5.6–7.5 ---	870	146	4.13	15	381
	870	122	3.46	20	508
	870	62	1.75	25	635



AVLEKCAA-CH
Single Stage Vacuum Pump



AVLANCAA-CH
Single Stage Booster



AVLAVCAA-CH
Two Stage Compressor

CHAMPION[®]

A Gardner Denver Product

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 Printed in U.S.A.
 CR-AS-104 1st Ed. 6/07
 Supersedes C1-1-5-215 2nd Ed. 8/05

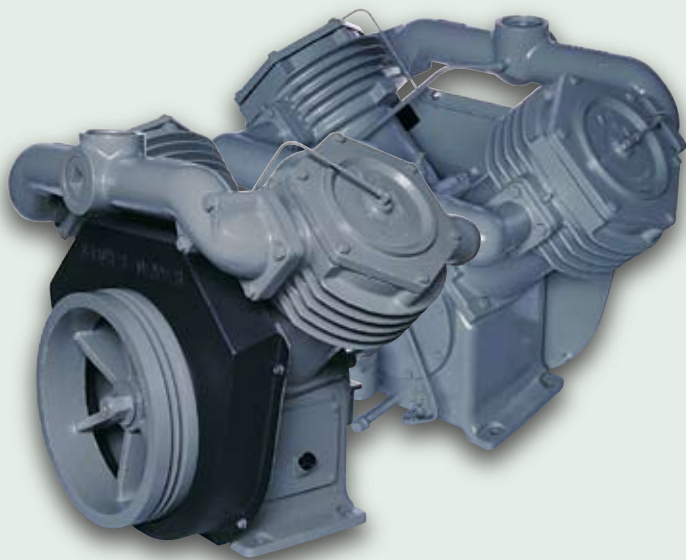
Due to Champion's continuing product development program, specifications and materials are subject to change without notice or obligation.



A-Series

COMPRESSOR BARES
7.5-40 HP

- ▶ Bulk Material Handling
- ▶ Well Head Servicing
- ▶ Engine Starting
- ▶ Petroleum Refineries
- ▶ Mines Air
- ▶ Plant Air and Vacuum



CHAMPION[®]

A Gardner Denver Product

Always be one.

A-Series

The Champion ATLE6-CH is a single stage, two cylinder, pressure lubricated compressor that is equipped with an SAE#3 bell housing flange for direct engine mounting and remote site operation.

Wherever there's a demand for a low pressure engine driven compressor, the ATLE6-CH is the compressor for the job. Because it is direct coupled to the engine, there is no need to worry about belts slipping or wearing out. When connected to the engine, all rotating components are totally enclosed and protected from the environment.

The Champion APL and APO are single stage, two cylinder, pressure lubricated compressors equipped with a two-groove, 17 inch sheave for belt driven applications. The APL and APO have an integrated cooling fan built into the cast iron sheave for maximum cooling.

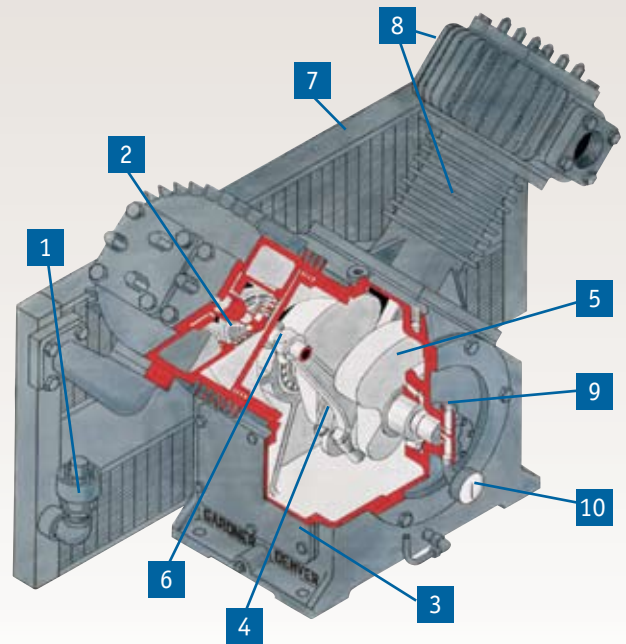
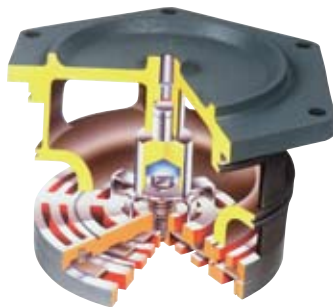
The AVLEK is a single stage vacuum pump, AVLAN is a single stage booster and the AVLAV is a two-stage compressor. All A-Series compressors are designed to provide optimum performance in a wide variety of operations.

Lubrication

- ▶ Superior lubrication is accomplished through a gear driven oil pump powered by the crankshaft.
- ▶ Pressurized system ensures complete lubrication to the crankshaft, connecting rods, bearings and piston pins.
- ▶ Full flow, spin-on oil filter ensures impurities are removed before the lubricant contacts any internal components.
- ▶ Oil pressure gauge is conveniently mounted to display the oil pump pressure.

Valves

- ▶ Concentric ring design incorporates both the inlet and outlet valves in one assembly.
- ▶ Designed to give 100% exposure to the air flow for maximum efficiency (i.e. more CFM per HP).
- ▶ Made of AISI 420 stainless steel to give dependable corrosion-free and fatigue-free service life.



Performance Features

1. ASME pressure relief valve protects the intercooler and first stage from over pressure.
2. Suction unloading valves provide loadless starting and stopping as well as quick response to capacity demands.
3. Removable hand-hole plate allows easy access to the internal running gear.
4. Tri-Metal insert bearings are two-piece for quick and easy replacement.
5. Counterbalanced crankshaft assures smooth operation.
6. Replaceable piston pin bearings are very economical when replacement becomes necessary.
7. Generously sized intercooler provides maximum cooling for the most efficient operation and low power consumption. (AVLAVCAA-CH only)
8. Deep-finned cylinders and heads quickly dissipate the heat of compression.
9. Crankshaft ends are supported by large tapered roller bearings for smooth operation and long life.
10. Oil pressure gauge assures the operator of lubrication system integrity.
11. The cylinders and crankcases are built of industrial strength cast iron materials.

SPECIFICATIONS

APLGAA-CH, APLGBA-CH, APLHAA-CH AND APLHBA-CH, APOGAA-CH, APOGBA-CH, APOHAA-CH AND APOHBA-CH

28" HG-60 PSIG (0.95–4.1 Bar G), Continuous Operation
7.5–30 HP (5.6–22 kW), 5–15 HP (3.75–11.2 kW)

DIMENSIONS

Model	Bore Diameter	Stroke	Suction & Discharge Pipe Size NPT	Dimensions L x W x H	Weight
APL	in 7.875/7.875	3	3	41 x 29 x 30	lbs 750
	mm 200	76	NA	1041 x 737 x 762	kg 340
APO	in 7.875/7.875	4.5	3	41 x 29 x 30	lbs 750
	mm 200	114	NA	1041 x 737 x 762	kg 340

COMPRESSOR SPECIFICATIONS

Model	Speed hp/kw	Pressure		Capacity	
		psig	barg	cfm	m ³ /min
APL	855 15/11.2	20	1.4	113	3.2
		30	2.1	105	3.0
		40	2.8	98	2.8
		50	3.4	90	2.5
		60	4.1	83	3.1
APO	698 20/15	20	1.4	145	4.1
		30	2.1	134	3.8
		40	2.8	125	3.5
		50	3.4	117	3.3
		60	4.1	110	3.1
APO	885 25/19	20	1.4	181	5.1
		30	2.1	169	4.8
		40	2.8	158	4.5
		50	3.4	148	4.2
		60	4.1	138	3.9
APO	1072 30/22	20	1.4	218	6.1
		30	2.1	205	5.8
		40	2.8	192	5.4
		50	3.4	180	5.1
		60	4.1	168	4.8

VACUUM PUMP SPECIFICATIONS

Model	Speed hp/kw	Capacity		Vac. - HG	
		cfm	m ³ /min	in	mm
APL	780 5/3	120	3.4	5	127
		114	3.2	10	254
		105	3.0	15	381
		92	2.6	20	508
		60	1.7	25	635
		NA	NA	28	711
APO	739 7.5/5.6	167	4.7	5	127
		164	4.6	10	254
		157	4.4	15	381
		145	4.1	20	508
		99	2.8	25	635
		NA	NA	28	711
APO	937 10/7.5	198	5.6	5	127
		193	5.5	10	254
		185	5.2	15	381
		169	4.8	20	508
		117	3.5	25	635
		NA	NA	28	711

ATLE6-CH DIMENSIONS

Model	Bore diameter	Stroke	Suction & Discharge Pipe Size NPT	Dimensions L x W x H	Weight
ATLE6	in 7.875	3	3	41 x 29 x 30	lbs 750
	mm 200	76	NA	1041 x 737 x 762	kg 340

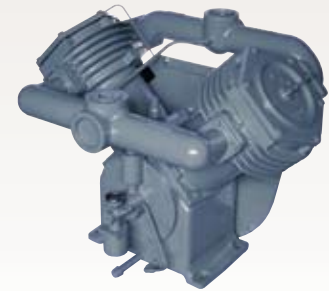
ATLE6-CH SPECIFICATIONS

Speed rpm	Piston Displacement		Oil Capacity		Maximum Pressure		@ 30 psig – 2.07 bars						
							Discharge Air Temp		Duty Cycle	Flow		BHP	
	cfm	m ³ /min	quarts	liters	psig	barg	°F	°C		cfm	m ³ /min	hp	kw
1550	262	7.8	9	8.5	30	2.07	400	204	intermittent	180	5.1	29	22



APL

Single Stage Compressor



APO

Single Stage Compressor



ATLE6-CH

Single Stage Compressor



ATLE6-CH

Typical ATLE6-CH compressor direct connected to an internal combustion engine.

Note: Engine and coupling supplied by others.