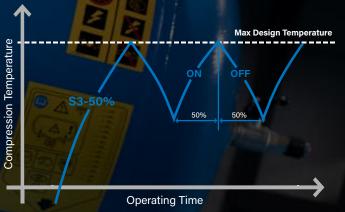




100% DUTY CYCLE

The ABAC Tech compressor range of air compressors has been developed to maximise efficiency and minimise downtime in your workplace by providing air on demand, whenever you need it.







What is a 'duty cycle'?

Air compressor duty cycles are easy to understand but often difficult to read because there are no universal characters to represent these values among compressor manufacturers.

Simply put, an air compressor duty cycle is the amount of time a compressor will deliver pressurised air within a total cycle time. If listed as a percentage, you can simply take the number of seconds or minutes the figure represents and subtract that from the total cycle time.

When listed as a percentage, the duty cycle is equal to the compressor's run time divided by the total cycle time. So, this percentage equates to the amount of time you can keep the compressor on, plus the corresponding cool-down duration.

For example, a compressor with a 50% duty cycle will need 30 minutes off for every 30 minutes on.

In general, the duty cycle formula often used for calculation is expressed as Compressor time on / (time on + time off) = Duty Cycle percentage.

Continuous duty cycles

Continuous duty cycles provide constant power to machinery and tools without any downtime, which improves productivity. Particularly in manufacturing environments, this is a major benefit. However, in some industries, air compressors with intermittent duty cycles are sufficient, as air is not needed continuously. It all depends on the application and size of the tools being used and our experts can advise on the most suitable products.

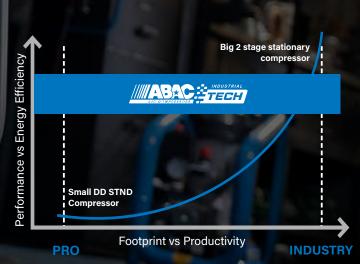


How often should an air compressor cycle?

The number of times an air compressor cycles significantly impacts the air compression system's efficiency. Allowing a compressor to cycle more often than the recommended duty cycle can cause it to wear out faster.

Two main methods of increasing cycle time to deliver more air without affecting efficiency or increasing component wear:

- → Increasing the tank size
- → Widening the pressure band



Introducing the ABAC Tech ATF-S for PRO Users

Whatever your profession, our **PRO** User range of air compressors is designed to deliver performance, efficiency and reliability to your business. The innovative, patented technology ensures a smooth start-up and low motor loads, delivering powerful and uninterrupted compressed air, which saves you time and money.





ABAC Tech Pro ATF-S

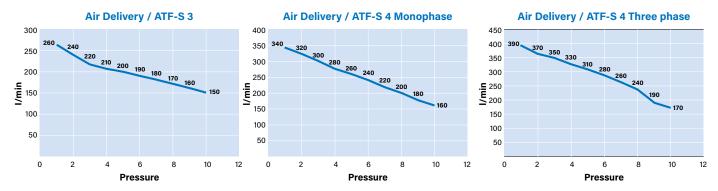
ATF-S 3



ATF-S 4



	ATF	-S 3	ATF	-S 4
V-Hz	230/1/50	400/3/50	230/1/50	400/3/50
Air-end type	Oil free piston	Oil free piston	Oil free piston	Oil free piston
Construction	Industrial	Industrial	Industrial	Industrial
w (hp)	2.2 (3.00)	2.2 (3.00)	3.2 (4.30)	3.2 (4.30)
RPM	1400	1400	1400	1400
Cylinders	2	2	4	4
Air intake, L/min	330	330	430	480
AD L/min (@5Bars)	200 200		260	
Max pressure (Bar)	10	10	10	10
Noise dB(A)	68	68	72	74
Outy cycle	S1 100%(*)	S1 100%(*)	S1 100%(*)	S1 100%(*)
Maintenance Overhaul	3000hrs	3000hrs	3000hrs	3000hrs
Dimensions (LxWxH) cm	44 x 39 x 24		67 x 3	9 x 24
Weight Kg	24		4	7



(*) The duty cycle is generally calculated by dividing the compressor run time by the full cycle time. This formula is almost always expressed as compressor run time / (run time + rest time) = duty cycle percentage.

In few words: the "Duty Cycle" is the amount of time a compressor is providing consistent pressure and flow

Compressor package

SILENT

Providing a better quality of work environment with very low sound levels of 68-72 dB that safeguards user wellbeing and reduces pipework for point of use operation.



Retractable handle

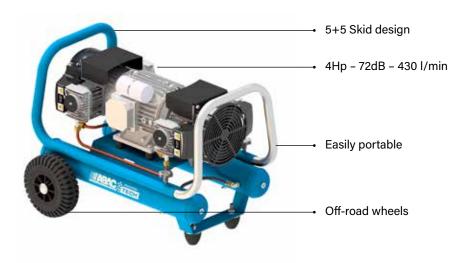
OIL FREE

With zero risk of contamination and virtually maintenance free, save money on consumables and move the compressor anywhere without a problem.



COMPACT

Easy to transport and suitable for any workplace, this powerful but small unit is practical and user friendly with quick set up.





Industrial pump technology



- Stainless steel disk valve design and cylinders with low tolerance finishing ensures extremely low clearance, minimised friction and higher free air delivery.
- 2 Heavy-duty crankshaft ball bearings, sealed for life.
- 3 Industrial unloader valve:
 - Designed to withstand extreme conditions and high working pressures.
 - Reduces starting torque for a longer motor lifetime and reduced energy consumption.
- 4 Oil separator on the carter ventilating line reduces oil consumption.
- 5 High-efficiency inlet air filter with large filtration surface.
- Die-cast aluminium crankcase and finned cylinder heads with high cooling characteristics, for long lifetime and efficient operation.

Continuous operation

Delivering 100% duty cycle with uninterrupted air on demand, ABAC Tech industrial compressors add value to your business by minimising the risk of equipment downtime and reducing maintenance costs

Robust design

Designed to withstand extreme conditions and high working pressures

Low operating costs

Simple maintenance thanks to easily accessible parts with long maintenance intervals and service kits available

Energy savings

Direct drive transmission allows major energy savings compared to belt-driven compressors

Reliability

High quality materials for premium performance and long-life

Quality air

Aluminium V-type pump heats up fast enough to vaporise any condensate, extending the lifetime of your equipment



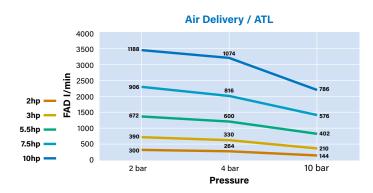
ABAC Tech ATL

Oil lubricated industrial piston compressor range has been designed specifically to support small industrial applications requiring powerful, reliable air.



- Oil lubricated technology
- Single stage up to 10 Bar
- ATL generates high quality air at the lowest operating temperatures in the industry with minimal oil carry over

	ATL 2hp	ATL 3hp	ATL 5.5hp	ATL 7.5hp	ATL 10hp
V-Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air-end type	Oil lubricated				
Construction	Industrial	Industrial	Industrial	Industrial	Industrial
kW (hp)	1.5 (2)	2.2 (3)	4 (5.5)	5.5 (7.5)	7.5 (10)
RPM	1500	1500	1500	1500	1500
Cylinders	2	2	2	2	2
Air intake, L/min	408	504	918	1146	1560
FAD L/min (@7Bar)	204	264	504	702	942
Max pressure (Bar)	10	10	10	10	10
Noise db(A)	78	79	79	80	81
Duty cycle	S1 100%				
Dimensions (LxWxH) mm	686x530x547	686x530x547	686x530x547	860x591x625	860x591x625
Weight Kg	45	49	51	90	102





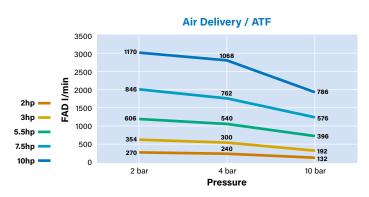
ABAC Tech ATF

ATF compressors deliver clean air, which is free of any contamination, thereby avoiding damage to downstream equipment.



- Oil free technology
- Single stage up to 10 Bar
- Proven design with nickel plated aluminium cylinders ensures high durability as pistons are coated with Teflon, to allow lowest friction.

	ATE 2	ATE 2	ATCEE	ATE 7.5	ATE 10
	ATF 2	ATF 3	ATF 5.5	ATF 7.5	ATF 10
V-Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air-end type	Oil free				
Construction	Industrial	Industrial	Industrial	Industrial	Industrial
kW (hp)	1.5 (2)	2.2 (3)	4 (5.5)	5.5 (7.5)	7.5 (10)
RPM	1500	1500	1500	1500	1500
Cylinders	2	2	2	2	2
Air intake, L/min	408	504	918	1146	1470
FAD L/min (@7Bar)	186	240	492	660	930
Max pressure (Bar)	10	10	10	10	10
Noise db(A)	82	83	83	84	86
Duty cycle	S1 100%				
Dimensions (LxWxH) mm	686x530x547	686x530x547	686x530x547	860x591x625	860x591x625
Weight Kg	45	49	90	90	105





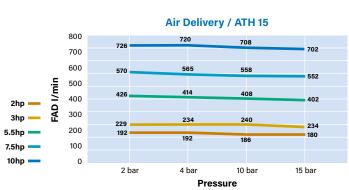
ABAC Tech ATH



ATH industrial pistons are designed for pressures of 15, 20 or 30 Bar. Perfect for more demanding applications where continuous high-pressure air is essential. Built for the most challenging work environments.

- Oil lubricated aluminium pistons
- Double stage compression for higher pressure up to 30 Bar.
- Higher power capacity up to 20hp.
- Proven design and quality materials deliver premium operation and an extra long life.

	ATH 15 - 2	ATH 15 - 3	ATH 15 - 5.5	ATH 15 - 7.5	ATH 15 - 10
V-Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air-end type	Oil lubricated				
Construction	Industrial	Industrial	Industrial	Industrial	Industrial
κW (hp)	1.5 (2)	2.2 (3)	4 (5.5)	5.5 (7.5)	7.5 (10)
RPM	1500	1500	1500	1500	1500
Cylinders	2	2	2	2	2
Air intake, L/min	252	318	570	780	1002
AD L/min (@15Bar)	180	234	402	552	702
Max pressure (Bar)	15	15	15	15	15
Noise db(A)	78	79	79	80	81
Outy cycle	S1 100%				
Dimensions (LxWxH) mm	686x533x507	686x533x507	686x533x507	860x606x600	932x606x600
Weight Kg	45	49	90	90	102

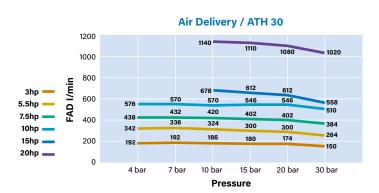


	ATH 20 - 2	ATH 20 - 3	ATH 20 - 5.5	ATH 20 - 7.5	ATH 20 - 10	ATH 20 -15	ATH 20 - 20
V-Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air-end type	Oil lubricated						
Construction	Industrial						
kW (hp)	1.5 (2)	2.2 (3)	4 (5.5)	5.5 (7.5)	7.5 (10)	11 (15)	15(20)
RPM	1500	1500	1500	1500	1500	1500	1500
Cylinders	2	2	2	2	2	2	2
Air intake, L/min	204	252	456	570	780	1392	1716
FAD L/min (@20Bar)	126	174	300	402	546	906	1080
Max pressure (Bar)	20	20	20	20	20	20	20
Noise db(A)	78	79	79	80	81	86	86
Duty cycle	S1 100%						
Dimensions (LxWxH) mm	686x533x507	686x533x507	686x533x507	860x606x600	932x606x600	1053x682x675	1103x713x675
Weight Kg	45	49	51	90	102	194	250

Unit performance measured according to ISO 1217, Annex C, latest edition. Noise level measured according to ISO 2151 2004



	ATH 30 - 3	ATH 30 - 5.5	ATH 30 - 7.5	ATH 30 - 10	ATH 30 - 15	ATH 30 - 20
V-Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air-end type	Oil lubricated					
Construction	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
xW (hp)	2.2 (3)	4 (5.5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)
RPM	1500	1500	1500	1500	1500	1500
Cylinders	2	2	2	2	2	2
ir intake, L/min	252	456	570	780	996	1710
AD L/min (@30Bar)	150	264	384	510	558	1020
Max pressure (Bar)	30	30	30	30	30	30
loise db(A)	79	79	80	81	85	86
Outy cycle	S1 100%					
Dimensions (LxWxH) mm	686x533x507	686x533x507	860x606x600	860x606x600	1053x720x675	1103x720x675
Weight Kg	49	51	90	102	165	194





Power pack



Base mounted



Tank mounted



Full feature



4 factory options:

Silencing hood

Metal hood with noise insulating foam

Timer condensate drain

Automatic condensate drain on the tank

Oil level switch

Sensor in crankcase measures oil level

Low duty cycle

Additional device (solenoid valve with silencer and relay) on aftercooler line to blow off the line, drain condensate and run unit for 60 seconds without load

Applications





Applications





Applications



Energy Exploration (INDUSTRIAL)

In order to minimize repair and maintenance costs during energy exploration, it is essential that operations implement the most reliable power source. This is especially needed in onshore and offshore sites and where turbulent seas or other uncontrollable conditions can affect the equipment. An air compressor is the ideal choice for this situation since it can inserting and withdrawing reactor rods, controlling valves in steam and coolant circuits from a distance, and powering ventilation systems for boiler houses.







ABAC AIR COMPRESSORS srl

VIA CRISTOFORO COLOMBO, 3 - 10070 ROBASSOMERO (TO) ITALY Tel. +39 011 9246415-421

WEB. www.abacaircompressors.com

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