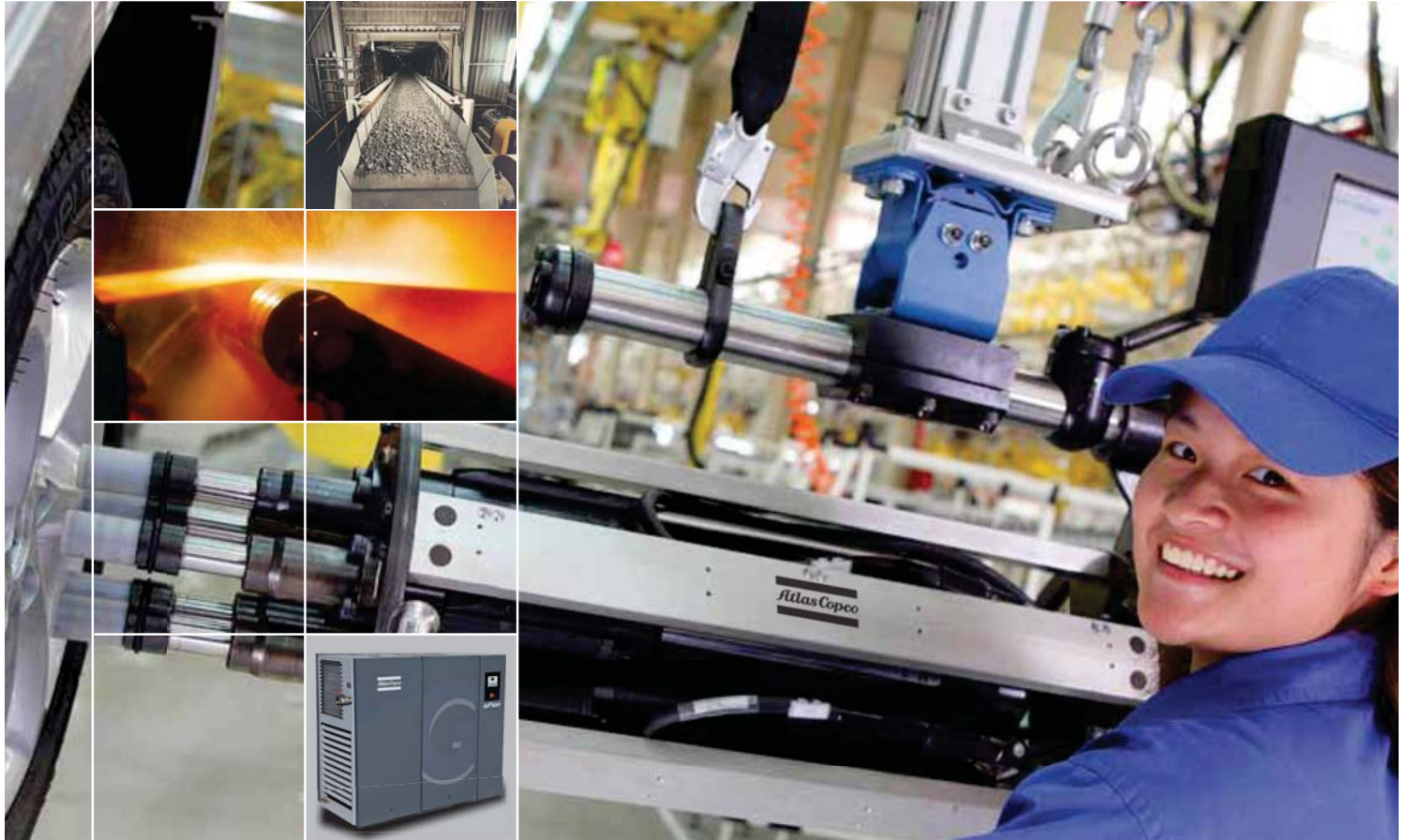


# Atlas Copco

Oil-injected Rotary Screw Compressors

GA° 37-90, 37kW - 90kW



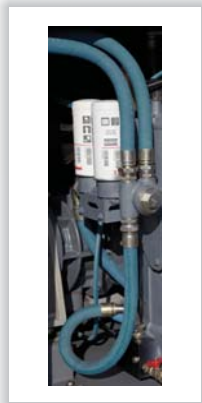
*Sustainable Productivity*

**Atlas Copco**

## GA° Series - Value Packed Innovation

### 4 Patents Filed

- 1 High Efficiency Ultra Drive**
  - Increased efficiency & reliability
  - Maintenance free - No drive coupling
  - 35% less parts
  - DE bearing runs cooler, resulting in longer life
- 2 Vacuum Assisted Unloader Valve**
  - Using vacuum forces to operate
  - Optimized for lower pressure drops
  - Simple, less parts, more reliable
  - Virtually maintenance free - only one moving part
- 3 Aftercooler With Integrated Water Separator**
  - 100% water separation
  - Virtually no internal pressure drop
  - Saves energy
  - Maintenance free
- 4 Saver Cycle Technology In Full Feature Unit**
  - Energy Saving Dew-point Mode (ESDM)
  - Turns off the Dryer under light load
  - Savings on dryer energy consumption
  - Lower operating cost



**OIL FILTER**  
 - A high efficiency oil filter removes 300% smaller particles than a conventional filter, providing clean oil to extend the lifetime of all lubricated parts in the compressor.  
 - The oil filter rating of  $\beta_{12}=75$  sets a new industrial compressor standard that is fully compliant with ISO 16889.

Simplified spin on oil filter with extreme duty flexibles

- |   |                    |
|---|--------------------|
| 1 Integrated refrigerant dryer, with SAVER cycle technology | 6 Fan              |
| 2 Motor   | 7 Oil separator    |
| 3 Coolers   | 8 Air inlet filter |
| 4 Element   | 9 Elektronikon     |
| 5 Drive arrangement   | 10 Air outlet      |

# Elektronikon®: A Superior Electronic Control, Monitoring And Communication System



1

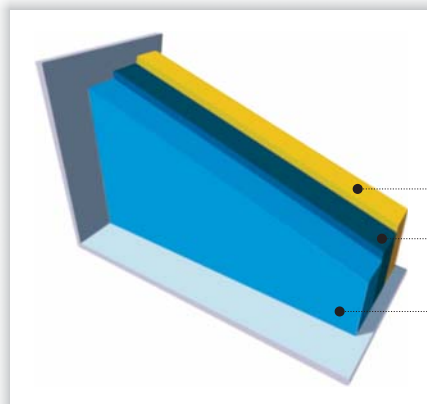
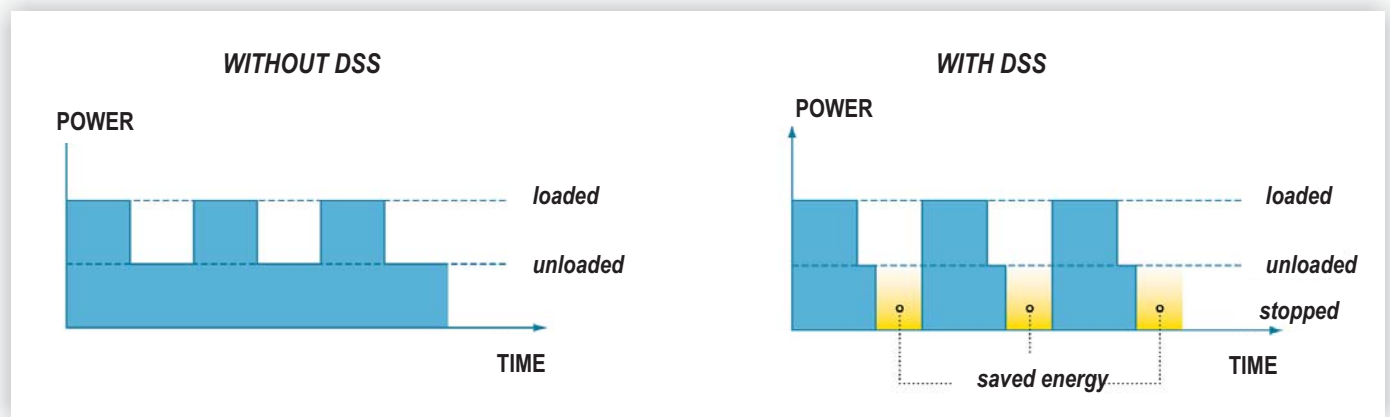
## DUAL PRESSURE SET POINT

The production process creates fluctuating levels of demand which can create energy waste in low use periods. The Elektronikon can manually or automatically create two different system pressure bands to optimize energy use and reduce costs at low use times.

2

## DELAYED SECOND STOP

The sophisticated Delayed Second Stop (DSS) runs the drive motor only when needed. Because the Elektronikon maintains the desired system pressure while minimizing the drive motor run time, energy consumption is kept at a minimum.



3

## SAVER CYCLE

Saver cycle technology reduces the energy consumption of the integrated refrigerant dryers in light load applications. Using an ambient sensor to monitor the required dew point suppression, the Elektronikon starts and stops the dryer when the compressor has stopped – minimizing energy use and protecting the air system from corrosion.

## Delivering Quality Air

---

The integrated refrigerant dryer, standard with the Atlas Copco GA<sup>®</sup> reduces installation and maintenance costs, as well as required floor space. The dryer comes with the innovative SAVER cycle technology which limits the running time of the dryer while ensuring a good dewpoint to protect your system from moisture.

Untreated compressed air contains moisture, dirt particles and aerosols that can damage your entire air system. The resulting maintenance and downtime costs can far exceed air treatment costs. The GA<sup>®</sup> integrates air and condensate treatment equipment into one canopy, right on your work floor. The air from the GA<sup>®</sup> will see the quality of your production improve while your operating and maintenance expenses decrease.



## Protecting Your Production

Untreated compressed air contains moisture, aerosols and dirt particles that can damage your air system and contaminate your end product. Resulting maintenance costs can far exceed air treatment costs. We believe in effective prevention.



### **INCREASE YOUR PRODUCTION RELIABILITY**

Low quality air heightens the risk of corrosion in your system, which can lower the life span of your air tools and production equipment. The GA<sup>®</sup> filtration process produces clean air that enhances your system's reliability, avoiding costly downtime and production delays.



### **SAFEGUARD YOUR PRODUCT QUALITY**

Compressed air coming into contact with your final products should not affect their quality. The GA<sup>®</sup> provides the clean, dry air that will protect your product's reputation in the marketplace.



### **REDUCE YOUR ENERGY COSTS**

Clean, treated air reduces the risk of corrosion and leaks in your compressed air system. A 3 mm leak could easily add up to 1800 to your energy bill annually.



### **PROTECT THE ENVIRONMENT**

With leaks and energy waste minimized and the unsafe disposal of untreated condensate eliminated, you can safeguard the environment and comply with stringent international regulations.

# The Atlas Copco GA° Advantages

- Four Trade mark patents as standard scope.
- Designed for 46°C, extreme duty working conditions.
- Axial cooling fan with improved cooling flow.
- Water removal through WSD.
- Compact unit - which saves lot of footprints.
- “Mark V” Elektronikon with DSS feature which Saves Energy about 15-20%.
- Ready to use unit with Ball Valve at outlet.

## The GA° Series

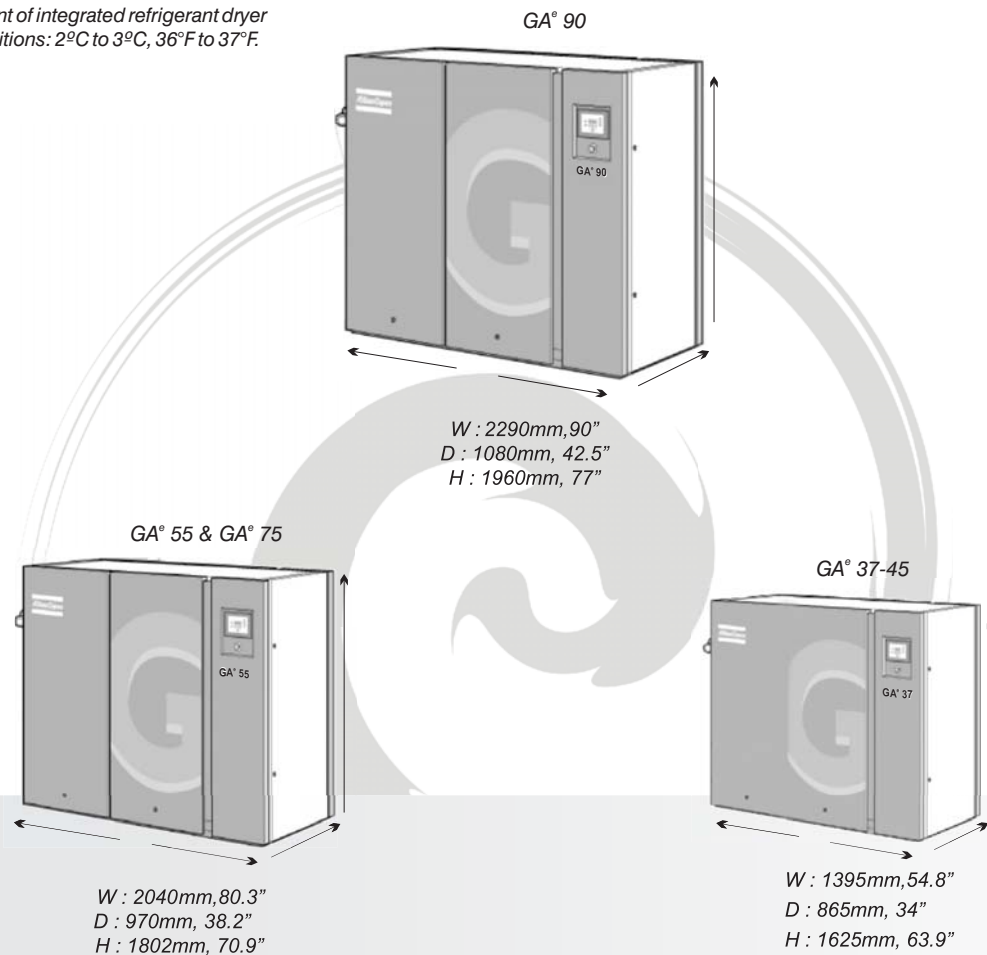
\* Unit performance measured according to ISO 1217, Ed. 3, Annex C-1996.

FAD is measured at the following working pressures:

- 7.5 bar versions at 7 bar
- 10 bar versions at 9.5 bar
- 13 bar versions at 12.5 bar

\*\* Mean noise level measured according to ISO 2151/Pneurop/Cagi PN8NTC2 test code; tolerance 3 dB(A).

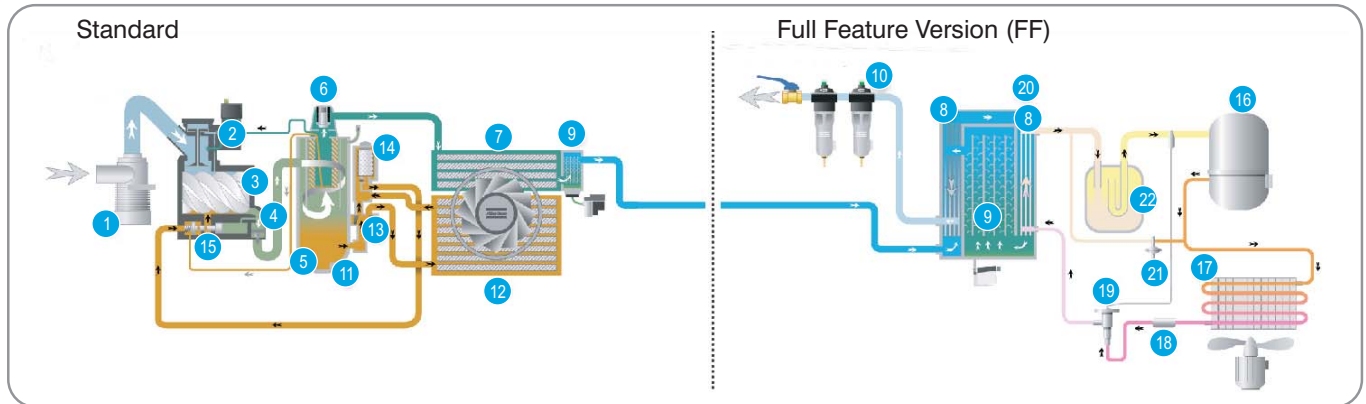
Pressure dew point of integrated refrigerant dryer at reference conditions: 2°C to 3°C, 36°F to 37°F.



# Technical specifications GA<sup>e</sup> 37-90

COMPRESSOR TYPE	Max. Working Pressure Workplace		Capacity FAD*			Installed motor power		Noise level**	Weight (kg/lbs)		
	bar(e)	psig	l/s	m <sup>3</sup> /min	cfm	kW	hp	db(A)	Workplace	Workplace full feature	
<b>50 Hz VERSION</b>											
GA <sup>e</sup> 37	7.5	7.5	109	107	6.4	227	37	50	69	787/1735	862/1900
	10	10	145	93	5.6	197	37	50	69	787/1735	862/1900
	13	13	189	75	4.5	159	37	50	69	787/1735	862/1900
GA <sup>e</sup> 45	7.5	7.5	109	129	7.7	273	45	60	72	821/1810	896/1975
	10	10	145	109	6.5	231	45	60	72	821/1810	896/1975
	13	13	189	91	5.5	193	45	60	72	821/1810	896/1975
GA <sup>e</sup> 55	7.5	7.5	109	165	9.9	350	55	75	69	1145/2524	1305/2877
	10	10	145	144	8.6	305	55	75	69	1145/2524	1305/2877
	13	13	189	124	7.4	263	55	75	69	1145/2524	1305/2877
GA <sup>e</sup> 75	7.5	7.5	109	218	13.1	462	75	100	73	1500/3307	1650/3638
	10	10	145	184	11.0	390	75	100	73	1500/3307	1650/3638
	13	13	189	162	9.7	343	75	100	73	1500/3307	1650/3638
GA <sup>e</sup> 90	7.5	7.5	109	270	16.2	572	90	125	73	1580/3483	1730/3813
	10	10	145	235	14.1	498	90	125	73	1580/3483	1730/3813
	13	13	189	200	12.0	424	90	125	73	1580/3483	1730/3813

## Flow Diagram



- INTAKE AIR
- Air/oil mixture
- Oil
- Compressed air without free water
- Wet compressed air
- Dry compressed air
- Water
- Refrigerant gas/liquid mixture
- High pressure, hot refrigerant gas
- Low pressure, cool refrigerant gas
- High pressure refrigerant liquid
- Low pressure refrigerant liquid

- AIR FLOW**
1. Air intake filter
  2. Air intake valve
  3. Compression element
  4. Non return valve
  5. Air/oil separator vessel
  6. Minimum pressure valve
  7. After-cooler
  8. Air-air heat exchanger
  9. Water separator with drain
  10. DD Filter (optional)

- OIL FLOW**
11. Oil
  12. Oil cooler
  13. Thermostatic bypass valve
  14. Oil filter
  15. Oil stop valve

- REFRIGERANT FLOW**
16. Refrigerant compressor
  17. Condenser
  18. Liquid refrigerant dryer/filter
  19. Thermostatic expansion valve
  20. Evaporator
  21. Hot gas bypass valve
  22. Accumulator

## Atlas Copco Group:

Global Industrial group, headquartered in Stockholm, Sweden.

More than 140 years of experience.

More than 39,800 employees worldwide, with sales turnover, over BEUR 10.5.

Network in 180 countries.



CUSTOMER CENTRES	PHONE	MOBILE	FAX
406, Baleshwar Avenue, Opp. Rajpath Club, Sarkej- Gandhinagar Highway, <b>AHMEDABAD</b> 380 015.	(079) 32445433	(0) 9960478647	(079) 26872547
5th Floor, Kushal Graden Arcade, Peenya Industrial Area, Phase II, Peenya, <b>BANGALORE</b> 560 058.	(080) 39280191	(0) 9341640024	(080) 39280145
SCO 811, 1st Floor, NAC, Manimajra, <b>CHANDIGARH</b> 161 101.	(0172) 3934922	(0) 9316915466	(0172) 3934911
"SHYAMALA TOWERS" 8th Floor, 136, Arcot Road, Saligramam, <b>CHENNAI</b> 600 093.	(044) 39156000	(0) 9341640024	(044) 39156004
6-3-1191, 2nd Floor, Brij Tarang, Greenland, Begumpet, <b>HYDERABAD</b> 500 016.	(040) 32949090	(0) 9341640024	(040) 23417923
Trinity Plaza, 2nd Floor, West Wing, 841 / 1A, Topasia Road (South), <b>KOLKATA</b> 700 046.	(033) 22851042	(0) 9330925621	(033) 22851043
Mahatma Gandhi Memorial Building, 2nd Floor, Netaji Subhash Road, <b>MUMBAI</b> 400 002.	(022) 32949090	(0) 9960478647	(022) 22811463
Unitech Business Park, Tower 'A', First Floor, Sector - 41, <b>GURGAON</b> 122 001.	(0124) 3027945	(0) 9316915466	(0124) 3027924
2nd Floor, Tellus Technologies Pvt. Ltd. 209/1B/1A, Range Hills Road, <b>PUNE</b> 411 020.	(020) 32949090	(0) 9960478647	(020) 30257129

9096 3253 01



### Atlas Copco Compressor Technique

Atlas Copco (India) Ltd.

Sveanagar, Dapodi, Pune 411012.

Phone: 020 - 3985 2100 Fax: 020 - 3985 7009

Email : info.compressor@in.atlascopco.com

[www.atlascopco.com](http://www.atlascopco.com)

Reach us @ 1800 200 0030