

Oil-injected rotary screw compressors

GA 30+-90 (30-90 kW/40-125 hp)

Innovating for a sustainable future

At Atlas Copco, we have always looked ahead. Which products and services will make our customers more successful? Your future drives the Atlas Copco team every day. It is the reason why we devote so much time and so many resources to innovation. If there are technologies that will advance your productivity, we will find them. That is what we have been doing for almost 150 years now, setting new standards in compressed air reliability, efficiency, connectivity, and sustainability.

It's that last principle that now comes first. Sustainability is no longer something we should strive for, but something we must achieve. Productivity and growth will have to be built on sustainability. Atlas Copco – our products, our services, and our people – will help you get there, as we always have.

The technology that drives sustainability



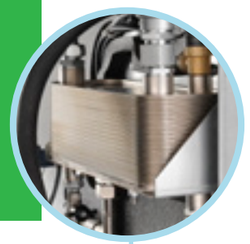
Smart Temperature Control System

Calculates and achieves the ideal oil-injection temperature based on actual operating conditions to maximize efficiency.



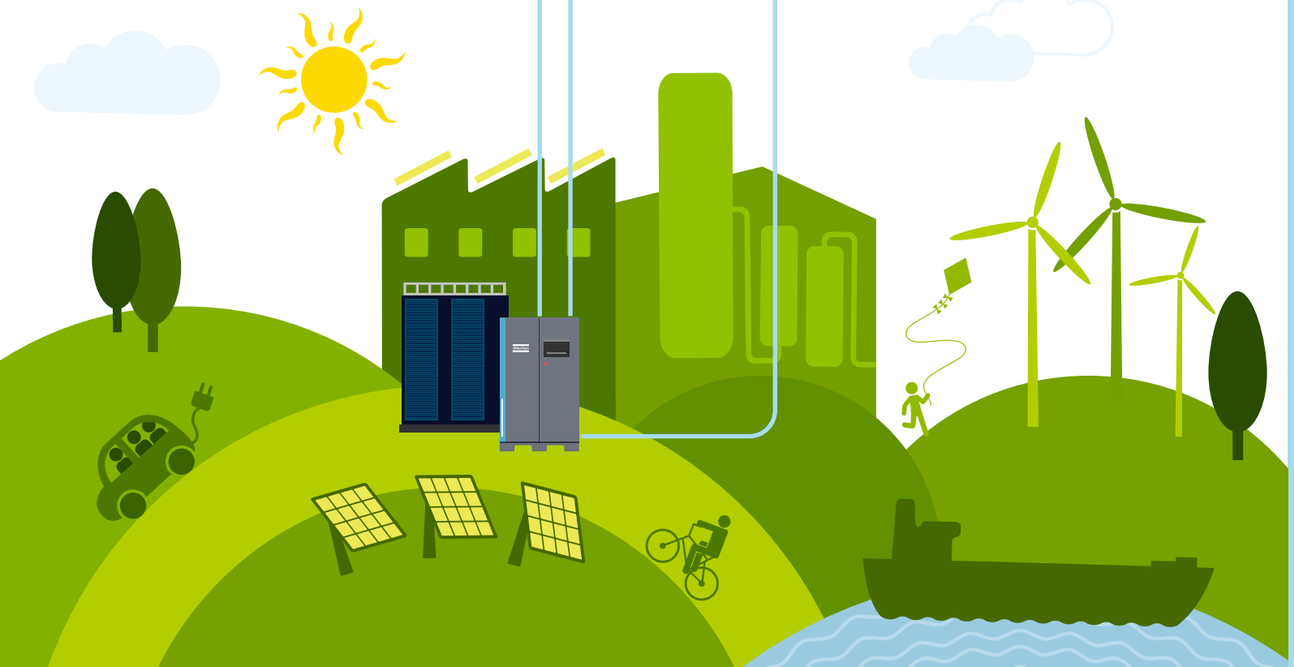
Intelligent sensors

Constantly monitor the pressure drop and thus any energy losses in the inlet filter, the oil separator, and the oil filter (optional).



Energy recovery

Gives you additional energy savings by recovering and re-using up to 75% of the heat the compressor produces.



The ultimate smart solution, driven by efficiency



Atlas Copco's GA and GA+ compressors bring you outstanding sustainability, reliability and performance, while minimizing your total cost of ownership. A choice of two premium fixed-speed compressor types provides you with the compressed air solution that perfectly matches your requirements with clear value propositions. Built to perform even in the harshest environments, the GA and GA+ keep your production running efficiently.



GA 37-90
Premium performance

- High-performance Free Air Delivery.
- Premium quality at the lowest initial investment.
- Integrated refrigerant dryer.
- Elektronikon® Touch controller (optional for GA 37/GA 45).
- **SMART**LINK real-time, remote monitoring and optimization.



GA 30+-75+
Industry-leading efficiency

- Best-in-class Free Air Delivery.
- Lowest energy consumption for applications with a stable air demand.
- Intelligent features boost efficiency and reliability.
- Integrated refrigerant dryer.
- Elektronikon® Touch controller.
- **SMART**LINK real-time, remote monitoring and optimization.
- OPC UA available for production system integration.

GA 30⁺-75⁺: Industry-leading efficiency

The GA 30⁺-75⁺ is our fixed-speed oil-injected rotary screw compressor that sets the industry standard. It gives you more of the things that really matter: more energy savings, more air, and a longer lifetime. Its state-of-the-art compression element and a host of advanced features ensure maximum performance with best-in-class efficiency.



1

Maintenance-free drive system

- 100% maintenance-free; totally enclosed and protected against dirt and dust.
- No coupling or slippage losses.
- Standard up to 46˚C/115˚F; high ambient version 55˚C/131˚F.
- Works reliably in harsh environments.

2

IE4 Super Premium Efficiency motor

- IP55, insulation Class F, B rise.
- Non-drive side bearing greased for life.
- Designed for continuous operation in harsh environments.

3

Robust spin-on oil filter

- High-efficiency; removes 300% smaller particles than a conventional filter.
- Integrated bypass valve with the oil filter.
- 8000-hour service interval (GA 55⁺/GA 75⁺).

4

Separate oversized oil cooler and aftercooler

- Low element outlet temperatures ensure long oil lifetime.
- Removal of nearly 100% of condensate with integrated mechanical separator.



5

Smart Thermostatic Control System (GA 55⁺/GA 75⁺)

- Intelligent algorithm achieves ideal injection temperature.
- Combines multiple operational parameters, including ambient temperature, pressure, humidity and load.
- Increases compressor efficiency and reliability.

6

Intelligent sensors (GA 55⁺/GA 75⁺)

- Pressure drop sensors monitor the lifetime of the inlet filter, the oil separator, and the oil filter (optional).
- SPM vibration sensor measures the vibration of the drive train and sends real-time updates via **SMART**LINK (option).
- CAN-cables allow for easy updates.





7

Elektronikon® Touch for remote monitoring

- High-tech controller with warning indications, compressor shut-down and maintenance scheduling.
- Standard **SMART**LINK remote monitoring to maximize air system performance and energy savings.
- Optional multiple compressor control (2, 4 or 6 compressors).

8

Heavy-duty air intake filter

- Protects compressor components by removing 99.9% of dirt particles down to 3 microns.
- Long, 8000-hour lifetime (GA 55⁺/GA 75⁺).

GA 55⁺/GA 75⁺ exclusive: Smart Temperature Control System

Our in-house developed Smart Temperature Control System introduces a new level of element efficiency and reliability. Its intelligent algorithm calculates the ideal oil-injection temperature based on parameters such as ambient and oil temperature, pressure and load, and air humidity. When necessary, the STC valve routes the oil via the coolers to achieve that ideal temperature to maximize compression efficiency and eliminate any risk of condensation.

GA 37-90:
Premium performance

The GA 37-90 gives you that trusted Atlas Copco oil-injected screw performance at a low investment cost. Built with top-quality materials, the GA 37-90 ensures compressed air reliability and efficiency in the toughest conditions.



1

Maintenance-free drive system

- 100% maintenance-free; totally enclosed and protected against dirt and dust.
- Suitable for harsh environments.
- No coupling or slippage losses.
- Standard up to 46˚C/115˚F; high ambient version 55˚C/131˚F.

2

IE3 Premium Efficiency electrical motor

- IP55, insulation Class F, B rise.
- Non-drive side bearing greased for life.
- Oil-lubricated drive side bearings.
- Designed for continuous operation in harsh environments.

3

Robust spin-on oil filter

- High-efficiency; removes 300% smaller particles than a conventional filter.
- Integrated bypass valve with the oil filter.

4

Separate oversized oil cooler and aftercooler

- Low element outlet temperatures ensure long oil lifetime.
- Removal of nearly 100% of condensate with integrated mechanical separator.
- No consumables.
- Eliminates possibility of thermal shocks in coolers.

5

Advanced Elektronikon® Touch control & monitoring (optional for GA 37/GA 45)

- Integrated smart algorithms reduce system pressure and energy consumption.
- Monitoring features include warning indications, maintenance scheduling, and online visualization of machine conditions.
- Standard **SMART**LINK remote monitoring to maximize air system performance and energy savings.

6

Heavy-duty air intake filter

- Protects the compressor components by removing 99.9% of dirt particles down to 3 microns.
- Differential inlet pressure for proactive maintenance while minimizing pressure drop.

7

Low noise fan

- Silent operation.
- High flows.
- Compact design.

As connected as you will be

When it comes to connectivity, manufacturing equipment has long stayed behind. Not Atlas Copco. Our compressed air systems helped pave the way for Industry 4.0. We never stopped developing innovative features and introducing new options to help our customers meet their operational goals.

SMART LINK



Connect

SMARTLINK

- Real-time monitoring of your compressor's operational parameters on your computer or mobile device.
- Performance data and insights identify opportunities for optimization.
- Service timeline.
- Maintenance and service alerts.
- Online resource center with manuals, documentation and technical information.



Manage

Equalizer 4.0

Manage multiple compressors with the Equalizer 4.0 (integrated in your compressor or as a standalone unit):

- **Reduced pressure band:** Create a narrow, predefined pressure band to save energy.
- **Optimal system performance:** Program all compressors to have equal running hours to reduce service intervals.
- **Improve reliability and efficiency:** With actionable performance reports, service warnings, and energy efficiency data.
- **Multiple compressor control:** Manage up to 6 compressors in one air network.

Control



Elektronikon® Touch
(optional for GA 37/GA 45)

The Elektronikon® Touch features a 4.3-inch user-friendly, multilingual display with clear pictograms and a service indicator. The operating system offers a host of control and monitoring options and smart algorithms to optimize your compressor performance. Customized timers and efficiency controls are just a few examples.

Optimize

OPC UA

Atlas Copco was the first compressor manufacturer to offer OPC UA, the machine-to-machine communication protocol that was developed especially for industrial automation. That means you can integrate your Atlas Copco compressor seamlessly in your production network:

- Standardization of production equipment communication.
- Insight into production system performance and optimization options.
- Network security thanks to various encryption levels, authentication, auditing, and user control to ensure security.

Built-in quality air

Untreated compressed air contains moisture, aerosols and dirt particles that can damage your air system and contaminate your end product, creating the risk of corrosion and leaks. Maintenance and repair expenses can far exceed air treatment costs. An air dryer is therefore essential to protect your systems and processes. The GA and GA+ have an integrated dryer option to ensure your peace of mind.

A fully integrated dryer

- Optimized sizing for the compressor avoids excessive energy consumption.
- Fit for your application.
- Controlled and monitored by the Elektronikon®.
- Space-saving all-in-one solution with low installation costs.



Lowest lifecycle costs and peace of mind

- No extra installation costs.
- Save on floor space.
- Use of energy-efficient, environmentally friendly refrigerant R410A reduces operating costs and ensures zero ozone depletion.
- Heat exchanger cross-flow technology with low pressure drop, saving energy and costs.
- Zero waste of compressed air thanks to no-loss condensate drain.
- Advanced control functions ensure dry air under all circumstances and prevent freezing at low load.
- Pressure dewpoint of 3°C/37°F (100% relative humidity at 20°C/68°F).

Integrated purity

The optional UD+ filter and integrated refrigerant air dryer (IFD) efficiently remove moisture, aerosols and dirt particles to protect your investment. The UD+ filter has a 40% lower pressure drop than the conventional DD+/PD+ filter combination. It saves space and reduces energy costs. Using only 1 single filter it is possible to reach Quality Class 1.4.2 according to ISO 8573-1:2010.

	ISO QUALITY CLASS*	DIRT PARTICLE SIZE	WATER PRESSURE DEWPOINT**	OIL CONCENTRATION
Pack compressor	3.-.4	5 microns	-	3 ppm
Integrated refrigerant dryer	3.4.4	5 microns	+3°C/37°F	3 ppm
DD+	2.4.2	1 micron	+3°C/37°F	0.1 ppm
UD+	1.4.2	0.5 micron	+3°C/37°F	0.1 ppm

* The table values reflect the maximum limits according to the ISO quality air standard (ISO 8573-1:2010).
** Water pressure dewpoint based on 100% RH at 20°C/68°F.

Built-in energy recovery

As much as 90% of the electrical energy used by a compressed air system is converted into heat. Why let that heat go to waste? A specifically developed energy recovery system can be built into your GA and GA+, allowing you to recover up to 75% of that power input as hot air or hot water (e.g.: changing room showers). Through efficient use of the recovered energy, you generate important energy cost savings and a high return on investment without compromising your compressor's performance.

Use your compressor twice



Hot water

Convert compressor heat into hot water for:

- Radiators
- Laundries, industrial cleaning and sanitary facilities
- Industrial process heating
- Canteens and large kitchens
- Food, chemical and pharmaceutical industries

Ducting

Recovered hot air can be used for:

- Auxiliary or main heating of warehouses and workshops
- Drying processes



Options

Some applications may need or may benefit from additional options and more refined control/air treatment systems. To meet these needs, Atlas Copco has developed options and easily integrated compatible equipment.

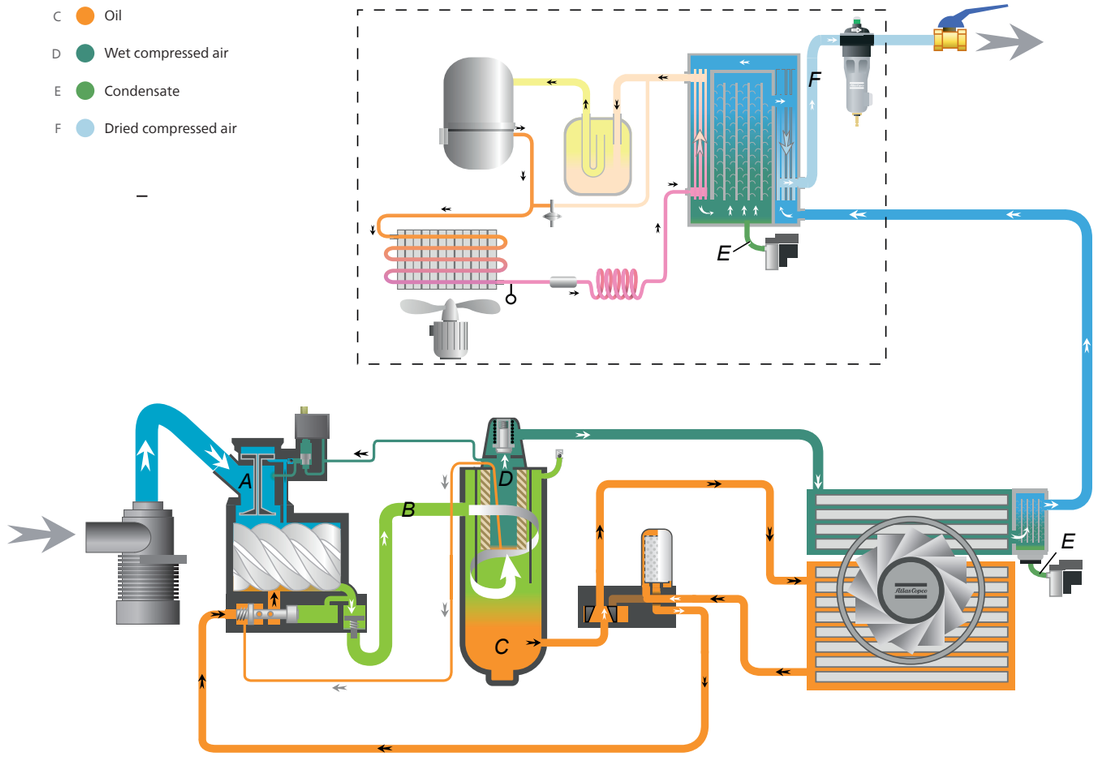
		GA 30+-45	GA 37+-45+	GA 55-90	GA 55+-75+
Air treatment	Integrated filter kit class 1*	•	•	-	•
	Integrated filter kit class 2*	•	•	•	•
	Dryer bypass*	-	•	•	•
Protection	Oil retaining frame	-	-	•	•
	Motor space heater + thermistors	•	•	•	•
	Water shut-off valve**	-	•	•	•
	Phase sequence relay	■	■	■	■
	Tropical thermostat	•	•	•	-
	Freeze protection	•	•	•	•
	Pre-filter	•	•	•	•
	Advanced monitoring	•	•	•	■
	ANSI flange outlet	-	•	•	•
	SPM measurement	-	-	-	•
Public works	Rain protection	•	•	•	•
	Main power isolator switch	-	-	•	•
	Lifting device	-	-	•	•
	Oversized motor (except GA 90)	-	-	•	•
	Oversized dryer	-	-	•	•
Communication	ES 100 relays***	•	•	■	■
	Elektronikon® Touch upgrade	•	■	■	■
	EQ2i/EQ4i/EQ6i	•	•	•	•
	Digital I/O expansion module	•	•	•	•
	OPC UA	-	•	-	•
Oils	Food grade ultra oil	•	•	•	•
	Roto Synthetic Xtend oil (8000 hours)	•	•	•	■
General options	Witness performance test	•	•	•	•
	Energy recovery	•	•	•	•
	Power duct fan	-	-	•	•
	Modulating control	•	•	•	•
	High-ambient temperature version (HAV 55°C, 131°F)****	•	•	•	•
	IT/TT ancillaries	-	•	•	•

* FF units only.
** Water-cooled units.
*** Includes potential-free contacts: motor running, compressor load/unload.
**** FF units max 50°C/122°F.

■ : Standard ● : Optional - : Not available

Flow chart

A Intake air
B Air/oil mixture
C Oil
D Wet compressed air
E Condensate
F Dried compressed air



Technical specifications GA 30+-90 (50 Hz versions)

Compressor type	Pressure variant	Max. working pressure Pack		Capacity FAD*			Installed motor power		Noise level**	Weight Pack		Weight Full Feature	
		bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	kg	lbs	kg	lbs
GA 30+	7.5	7.5	109	102	6.1	213	30	40	66	626	1377	796	1751
	8.5	8.5	123	97	5.8	203	30	40	66	626	1377	796	1751
	10.5	10.5	152	83	5.0	173	30	40	66	626	1377	796	1751
	13	13	189	76	4.6	159	30	40	66	626	1377	796	1751
GA 37	7.5	7.5	109	116	6.9	243	37	50	67	683	1503	853	1877
	8.5	8.5	123	108	6.5	226	37	50	67	683	1503	853	1877
	10.5	10.5	152	100	6.0	210	37	50	67	683	1503	853	1877
	13	13	189	88	5.3	185	37	50	67	683	1503	853	1877
GA 37+	7.5	7.5	109	124	7.4	262	37	50	69	781	1721	997	2197
	8.5	8.5	123	117	7.0	247	37	50	69	781	1721	997	2197
	10	10	145	105	6.3	222	37	50	69	781	1721	997	2197
	13	13	189	88	5.3	187	37	50	69	781	1721	997	2197
GA 45	7.5	7.5	109	138	8.3	290	45	60	70	692	1522	900	1980
	8.5	8.5	123	128	7.7	268	45	60	70	692	1522	900	1980
	10.5	10.5	152	119	7.2	251	45	60	70	692	1522	900	1980
	13	13	189	105	6.3	221	45	60	70	692	1522	900	1980
GA 45+	7.5	7.5	109	150	9.0	317	45	60	71	819	1805	1035	2281
	8.5	8.5	123	144	8.7	305	45	60	71	819	1805	1035	2281
	10	10	145	132	7.9	279	45	60	71	819	1805	1035	2281
	13	13	189	106	6.3	224	45	60	71	819	1805	1035	2281
GA 55	7.5	7.5	109	193	11.6	408	55	75	69	1470	3241	1570	3462
	8.5	8.5	123	183	11.0	388	55	75	69	1470	3241	1570	3462
	10.5	10.5	152	161	9.7	341	55	75	69	1470	3241	1570	3462
	13	13	189	140	8.4	297	55	75	69	1470	3241	1570	3462
GA 55+	7.5	7.5	109	205	12.3	435	55	75	66	1570	3462	1670	3682
	8.5	8.5	123	193	11.6	410	55	75	66	1570	3462	1670	3682
	10.5	10.5	152	167	10.0	354	55	75	66	1570	3462	1670	3682
	13	13	189	146	8.8	310	55	75	66	1570	3462	1670	3682
GA 75	7.5	7.5	109	239	14.4	507	75	100	72	1650	3638	1750	3859
	8.5	8.5	123	233	14.0	494	75	100	72	1650	3638	1750	3859
	10.5	10.5	152	209	12.6	444	75	100	72	1650	3638	1750	3859
	13	13	189	181	10.8	383	75	100	72	1650	3638	1750	3859
GA 75+	7.5	7.5	109	257	15.4	544	75	100	68	1650	3638	1750	3859
	8.5	8.5	123	240	14.4	509	75	100	68	1650	3638	1750	3859
	10.5	10.5	152	215	12.9	456	75	100	68	1650	3638	1750	3859
	13	13	189	186	11.2	394	75	100	68	1650	3638	1750	3859
GA 90	7.5	7.5	109	292	17.5	619	90	125	72	1700	3749	1800	3969
	8.5	8.5	123	283	17.0	600	90	125	72	1700	3749	1800	3969
	10.5	10.5	152	253	15.2	536	90	125	72	1700	3749	1800	3969
	13	13	189	222	13.3	471	90	125	72	1700	3749	1800	3969

*Unit performance measured according to ISO 1217, Annex C, Edition 4:2009.

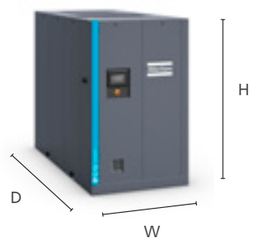
**A-weighted emission sound pressure level at the work station, Lp WSA (re 20 µPa) dB (with uncertainty 3 dB).
Values determined according to noise level test code ISO 2151 and noise measurement standard ISO 9614.

FAD is measured at the following working pressures:
- 7.5 bar versions at 7 bar
- 8.5 bar versions at 8 bar
- 10.5 bar versions at 10 bar
- 13 bar versions at 12.5 bar

Reference conditions:
- Absolute inlet pressure 1 bar (14.5 psi)
- Intake air temperature 20°C/68°F

Pressure dewpoint of integrated refrigerant dryer at reference conditions:
3ºC/37°F

Dimensions



Dimensions	Pack						Full Feature					
	D (mm)	W (mm)	H (mm)	D (in)	W (in)	H (in)	D (mm)	W (mm)	H (mm)	D (in)	W (in)	H (in)
GA 30+/37/45	1310	890	1790	51.5	35.0	70.5	1810	890	1790	71.3	35.0	70.5
GA 37+/45+	1310	890	1790	51.5	35.0	70.5	1810	890	1790	71.3	35.0	70.5
GA 55+/75+/55/75/90	1680	1221	1980	66.1	48.1	78.0	2524	1221	1980	99.4	48.1	78.0

Technical specifications GA 30+-90 (60 Hz versions)

Compressor type	Pressure variant	Max. working pressure Pack		Capacity FAD*			Installed motor power		Noise level**	Weight Pack		Weight Full Feature	
		bar(e)	psig	l/s	m³/min	cfm	kW	hp	dB(A)	kg	lbs	kg	lbs
GA 30+	100	7.4	100	101	6.1	214	30	40	66	643	1415	813	1789
	125	9.1	125	92	5.5	194	30	40	66	643	1415	813	1789
	150	10.8	150	83	5.0	176	30	40	66	643	1415	813	1789
	175	12.5	175	75	4.5	158	30	40	66	643	1415	813	1789
GA 37	100	7.4	100	117	7.0	249	37	50	67	698	1536	868	1910
	125	9.1	125	107	6.4	228	37	50	67	698	1536	868	1910
	150	10.8	150	98	5.9	209	37	50	67	698	1536	868	1910
	175	12.5	175	93	5.6	196	37	50	67	698	1536	868	1910
GA 37+	100	7.4	100	124	7.4	262	37	50	69	781	1721	997	2197
	125	9.1	125	114	6.8	241	37	50	69	781	1721	997	2197
	150	10.8	150	102	6.1	217	37	50	69	781	1721	997	2197
	175	12.5	175	88	5.3	187	37	50	69	781	1721	997	2197
GA 45	100	7.4	100	139	8.4	295	45	60	70	745	1639	915	2013
	125	9.1	125	130	7.8	275	45	60	70	745	1639	915	2013
	150	10.8	150	118	7.1	250	45	60	70	745	1639	915	2013
	175	12.5	175	108	6.5	229	45	60	70	745	1639	915	2013
GA 45+	100	7.4	100	152	9.1	322	45	60	71	819	1805	1035	2281
	125	9.1	125	139	8.3	294	45	60	71	819	1805	1035	2281
	150	10.8	150	131	7.9	278	45	60	71	819	1805	1035	2281
	175	12.5	175	114	6.9	242	45	60	71	819	1805	1035	2281
GA 55	100	7,4	100	193	11,6	408	55	75	69	1470	3241	1570	3462
	125	9,1	125	176	10,6	373	55	75	69	1470	3241	1570	3462
	150	10,8	150	161	9,6	341	55	75	69	1470	3241	1570	3462
	175	12,5	175	138	8,3	292	55	75	69	1470	3241	1570	3462
GA 55+	100	7,4	100	205	12,3	435	55	75	66	1570	3562	1670	3682
	125	9,1	125	189	11,4	400	55	75	66	1570	3562	1670	3682
	150	10,8	150	164	9,9	347	55	75	66	1570	3562	1670	3682
	175	12,5	175	140	8,4	297	55	75	66	1570	3562	1670	3682
GA 75	100	7,4	100	248	14,9	525	75	100	72	1650	3638	1750	3859
	125	9,1	125	222	13,3	470	75	100	72	1650	3638	1750	3859
	150	10,8	150	201	12,0	426	75	100	72	1650	3638	1750	3859
	175	12,5	175	177	10,6	375	75	100	72	1650	3638	1750	3859
GA 75+	100	7,4	100	257	15,4	544	75	100	68	1650	3638	1750	3859
	125	9,1	125	233	14,0	494	75	100	68	1650	3638	1750	3859
	150	10,8	150	206	12,3	436	75	100	68	1650	3638	1750	3859
	175	12,5	175	182	10,9	386	75	100	68	1650	3638	1750	3859
GA 90	100	7,4	100	307	18,4	651	90	125	72	1700	3749	1800	3969
	125	9,1	125	276	16,6	585	90	125	72	1700	3749	1800	3969
	150	10,8	150	240	14,4	509	90	125	72	1700	3749	1800	3969
	175	12,5	175	222	13,3	471	90	125	72	1700	3749	1800	3969

*Unit performance measured according to ISO 1217, Annex C, Edition 4:2009.

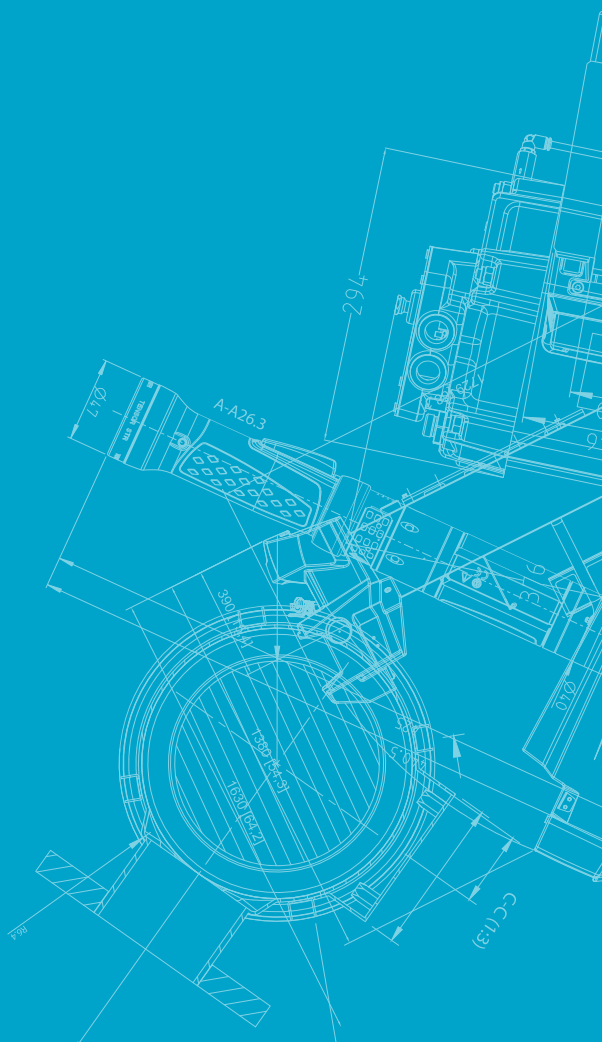
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- 10.5 bar versions at 10 bar
- 13 bar versions at 12.5 bar

Reference conditions:
- Absolute inlet pressure 1 bar (14.5 psi)
- Intake air temperature 20°C/68°F

Pressure dewpoint of integrated refrigerant dryer at reference conditions:
3ºC/37°F

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ISO 9001 • ISO 14001
OHSAS 18001

Atlas Copco

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