

Atlas Copco

Heatless Adsorption Compressed Air Dryers

CD 32-190 Series



Competitive investment Superb cost efficiency Reliable performance

High Reliability

- High-quality components designed for increased reliability and use in harsh environments

Competitive Performance

- A pressure dewpoint of $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ (working pressure 4 to 14.5 bar(e)/58 to 210 psig) together with simple and easy controls guarantee the best operation possible

Limited Maintenance

- Economical three-year maintenance intervals thanks to the use of high-grade desiccant and high-quality valves

Features and Benefits

Enduring Performance

- Well designed pipes and valves for operating stability and efficiency as well as a limited pressure drop
- Filled with high-performance desiccant for a stable dewpoint of $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ (working pressure 4 to 14.5 bar(e)/58 to 210 psig)

Energy Saving & Cost Efficient

- Purge saver contact (timer controlled as standard) which reduces the air purge consumption proportionally with the load cycle of the compressor, significantly reducing running costs
- Low life cycle cost with limited maintenance thanks to the use of highly efficient desiccant and high-quality valves resulting in three-year maintenance intervals
- For 4 to 13 bar working pressures a purge nozzle kit is supplied as a standard saving purge air

Ease of Operation

- User-friendly with easy installation and simple control thanks to Atlas Copco's all-in-one concept delivered ready for use
- Forklift slot for easy handling

Sustainable Productivity

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Scope of supply



- 1 Robust shuttle valve for tested and proven performance when switching the towers
- 2 Compressor steered timer card control to save purge air
- 3 Integrated silencers ensuring extremely low noise
- 4 Inlet and outlet filtration for compliance with ISO 7183:2010 class 1.2.1
- 5 Desiccant with excellent mechanical properties for long life
- 6 Minimum footprint for space saving installation
- 7 Selected purge nozzle for optimum performance



- 8 Display – 3 LED on/off
 - Power on
 - In operation
 - Service
- 9 Pressure gauges
 - Tower A outlet
 - Tower B outlet



Technical Specifications

TYPE	Inlet capacity (FAD)			Pressure drop		Filter size			Connection size inlet/outlet	
	l/s	m ³ /h	cfm	bar(e)	psig	DD	PD	DDp	50Hz=G, 60Hz=NPT	
CD 32	32	115	68	0.06	0.87	*	32	32	1"	
CD 40	40	144	85	0.11	1.60	*	44	44	1"	
CD 45	45	162	95	0.14	2.03	*	44	44	1"	
CD 65	65	234	138	0.29	4.21	*	60	60	1"	
CD 75	75	270	159	0.09	1.31	*	60	60	1"	
CD 90	90	324	191	0.16	2.32	*	120	120	1"	
CD 105	105	378	222	0.20	2.90	*	120	120	1"	
CD 130	130	468	275	0.24	3.48	*	120	120	1"	
CD 160	160	576	339	0.25	3.63	*	150	150	1 1/2"	
CD 190	190	684	403	0.27	3.92	*	175	175	1 1/2"	

* Optional

Reference conditions:

Compressed air inlet temperature: 35°C/95°F
 Compressed air inlet pressure: 7 bar(e)/102 psig
 Inlet relative humidity: 100%
 Pressure dewpoint: -40°C/-40°F

Capacity correction (Kp) for other inlet pressures

5 bar(e)/72 psig	7 bar(e)/102 psig	9 bar(e)/131 psig	11 bar(e)/160 psig	13 bar(e)/189 psig
0.75	1.00	1.25	1.5	1.75

Capacity correction (Kt) for other inlet temperatures

35°C/95°F	40°C/104°F	45°C/113°F	50°C/122°F
1.00	0.84	0.67	0.55

The capacity (Q actual) at inlet temperature (Kt) and working pressure (Kp) other than reference conditions (Q nominal) is calculated as Q actual = Q nominal x Kp x Kt.

TYPE	Dimensions (L x W x H)		Weight	
	mm	inch	kg	lbs
CD 32	239x550x998	9.5x21.7x39.3	64	141.1
CD 40	239x550x998	9.5x21.7x39.3	64	141.1
CD 45	239x550x1243	9.4x21.7x48.9	78	171.9
CD 65	239x550x1611	9.4x21.7x63.4	98	216.0
CD 75	358x550x998	14.1x21.7x39.3	133	293.1
CD 90	358x550x1243	14.1x21.7x48.9	158	348.2
CD 105	358x550x1611	14.1x21.7x63.4	256	564.2
CD 130	358x550x1611	14.1x21.7x63.4	256	564.2
CD 160	520.8x550x1611	20.5x21.7x63.4	310	683.2
CD 190	520.8x550x1611	20.5x21.7x63.4	310	683.2

