

Tehnički podaci GA37VSDsP A 10 MEAC 400V

ATLAS COPCO ULJNO-PODMAZIVAN VIJČANI KOMPRESOR, SA VARIJABILNOM FREKVENCIJOM UPRAVLJANJA

Referentni uslovi

Pritisak vazduha na ulazu	1 bar(a)
Temperatura na ulazu vazduha	20 °C
Relativna vlažnost vazduha na ulazu	0 %

Ograničenja

Maksimalni radni pritisak	10.5 bar(g)
Minimalni radni pritisak	4 bar(g)
Maksimalna temperatura okoline	46 °C
Minimalna temperatura okoline	0 °C

Radne karakteristike

Radni pritisak bar(g)	Minimalna brzina		Maksimalna brzina	
	Količina realno raspoloživog vazduha (FAD) [l/s]	Ukupna ulazna snaga [kW]	Količina realno raspoloživog vazduha (FAD) [l/s]	Ukupna ulazna snaga [kW]
4	15.7	4.8	130.8	41.5
7	15.7	6.4	129.3	48.6
10	15.7	8.2	110.8	47.9

Količina ulja u komprimovanom vazduhu	2.5 mg/m ³
Protok vazduha za hladjenje kompresora	1.7 m ³ /s
Snaga na vratilu ventilatora za hladjenje	0.6 kW
Temperatura vazduha na izlaznom ventilu	8 °C

Podaci o ugrađenoj opremi

Nivo buke	71 dB(A)
Spoj na izduvu vazduha	G 1.5"
Spojevi na automatskoj drenaži kondenzata(OD)	8 mm
Kapacitet ulja	21.4 l
Voltaža / broj faza / frekvencija	400 (V) / 3 / 50 Hz
Ukupna težina	480 kg
Dimenzije: dužina x širina x visina	854 mm x 870 mm x 1725 mm

Podaci o motoru

Instalirana snaga motora	37 kW
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* Na nivou mora

** Performanse jedinice su merene prema ISO 1217 ed. 4 2009, aneks E najnovije izdanje.

*** Maksimalni nivo buke meren sa razdaljine od 1 metra prema ISO 2151:2004 koristeći ISO 9614/2 metodu merenja intenziteta zvuka; tolerancija 3dB (A)

Tehnički podaci su validni samo za mašine bez opcija, ako su opcije uključene to može uticati na performanse mašine.

Technical Data: FX130 230V 50Hz

ATLAS COPCO REFRIGERANT DRYER

Reference conditions

Air inlet pressure*	7 bar(g)
Ambient air temperature	25 °C
Air inlet temperature	35 °C
Pressure dewpoint	5 °C
Air inlet relative humidity	100 %

Limitations

Maximum air inlet temperature	55 °C
Maximum working pressure	14 bar(g)
Maximum ambient temperature	43 °C
Minimum ambient temperature	5 °C

Performance**

Total electrical power at reference condition	1.124 kW
Cooling air flow	718 l/s
Pressure drop over dryer	0.26 bar
Volume flow	128 l/s

Design data

Refrigerant type	R410A
Refrigerant amount	0.8 kg
GWP Refrigerant	2088
Air outlet connection	G 1 ½ " F
Net Weight	82 kg
Dimensions: length x width x height	0.557m x 0.58m x 0.899m

* At sea level

** Unit performance measured according to ISO 7183:2007.

The technical data is only valid for machines without options, if options are ordered this can affect your performance.

Built-in quality air

Untreated compressed air contains moisture, aerosols and dirt that increase the risk of corrosion and compressed air system leaks. This can result in a damaged air system and contaminated end products. The GA 5-37 VSD⁵ comes in a Full Feature version with a built-in refrigerant dryer. It provides the clean, dry air that improves your system's reliability, avoids costly downtime, and safeguards the quality of your products.

- Pressure dewpoint of 3°C/37.4°F (100% relative humidity at 20°C/68°F).
- Heat exchanger cross-flow technology with low pressure drop.
- Zero waste of compressed air thanks to no-loss condensate drain.
- Zero ozone depletion.
- Global warming potential has been lowered by an average of 50% by reducing the amount of refrigerant.

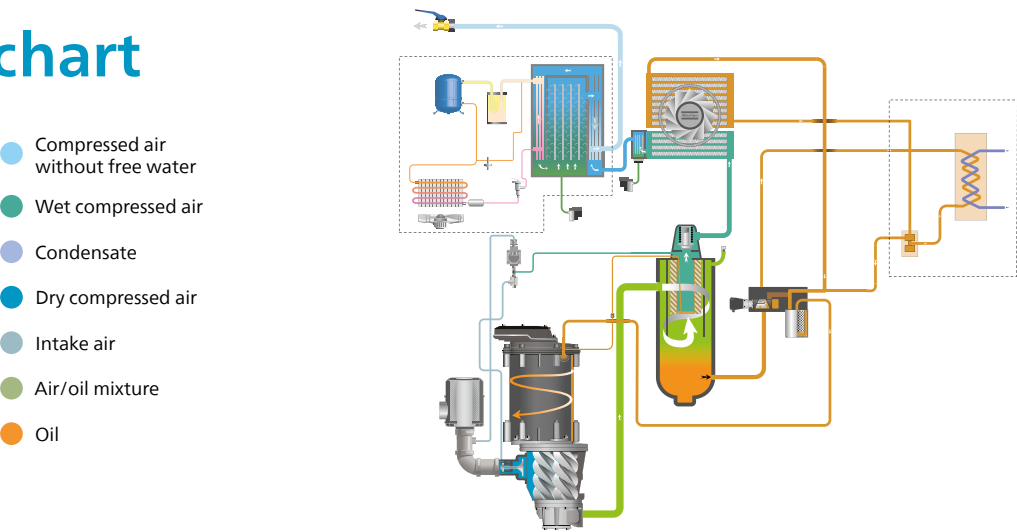


The GA 5-37 VSD⁵ with built-in dryer and UD+ filter meets ISO 8573-1 Quality Class 1.4.2.

Purity class	Solid particles			Water		Total oil*
	Number of particles per m³			Pressure dewpoint		Concentration
	0.1 < d ≤ 0.5 µm**	0.5 < d ≤ 1.0 µm**	1.0 < d ≤ 5.0 µm**	°C	°F	mg/m³
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20000	≤ 400	≤ 10	≤ -70	≤ -94	≤ 0.01
2	≤ 400000	≤ 6000	≤ 100	≤ -40	≤ -40	≤ 0.1
3	-	≤ 90000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10000	≤ 3	≤ 37.4	≤ 5
5	-	-	≤ 100000	≤ 7	≤ 44.6	-
6	≤ 5 mg/m³			≤ 10	≤ 50	-

* Liquid, aerosol and vapor. ** d= diameter of the particle.

Flow chart



Technical specifications GA 5-37 VSD⁵

Compressor type	Working pressure		Capacity FAD** min-max			Installed motor power		Noise level***	Weight (kg)	
	bar(e)	psig	l/s	m³/h	cfm	kW	hp	dB(A)	Pack	Full Feature
GA 5 VSD ⁵	4	58	6.9-19.1	24.9-68.9	14.7-40.5	5.5	7.5	62	223	306
*	7	102	6.6-19.1	23.8-68.9	14.0-40.5	5.5	7.5	62	223	306
*	10	147	6.1-15.3	22.1-55.2	13.0-32.5	5.5	7.5	62	223	306
*	12.5	181	6.1-15.0	21.8-54.0	12.8-31.8	5.5	7.5	62	223	306
GA 7 VSD ⁵	4	58	6.7-23.0	24.0-82.7	14.1-48.7	7.5	10	62	225	307
*	7	102	6.4-22.6	22.9-81.2	13.5-47.8	7.5	10	62	225	307
*	10	147	5.9-18.6	21.2-66.8	12.5-39.3	7.5	10	62	225	307
*	12.5	181	5.8-14.7	20.9-52.8	12.3-31.1	7.5	10	62	225	307
GA 11 VSD ⁵	4	58	6.4-38.8	22.9-139.8	13.5-82.3	11	15	67	302	384
	7	102	5.7-38.2	20.7-137.4	12.2-80.9	11	15	67	302	384
*	10	147	6.4-32.3	22.9-116.2	13.5-68.4	11	15	67	389	435
*	12.5	181	6.3-26.6	22.6-95.8	13.3-56.4	11	15	67	389	435
GA 15 VSD ⁵	4	58	6.4-50.3	22.9-181.2	13.5-106.7	15	20	69	302	417
	7	102	5.7-49.4	20.7-177.9	12.2-104.7	15	20	69	302	417
	10	147	3.9-41.1	14.1-147.8	8.3-87.0	15	20	69	302	417
*	12.5	181	6.3-32.4	22.6-116.6	13.3-68.6	15	20	69	236	351
GA 18 VSD ⁵ *	4	58	6.4-67.0	22.9-241.3	13.5-142.1	18	25	69	311	427
*	7	102	5.7-65.2	20.7-234.6	12.2-138.1	18	25	69	311	427
*	10	147	3.9-55.4	14.1-199.4	8.3-117.4	18	25	69	311	427
*	12.5	181	2.7-44.7	9.6-160.8	5.6-94.7	18	25	69	311	427
GA 22 VSD ⁵	4	58	15.9-84.5	57.3-304.0	33.7-178.9	22	30	63	458	587
	7	102	16.2-83.3	58.2-299.7	34.3-176.4	22	30	63	458	587
	10	147	16.2-65.9	58.2-237.2	34.3-139.6	22	30	63	458	587
*	12.5	181	15.7-56.3	56.4-202.5	33.2-119.2	22	30	63	387	516
GA 26 VSD ⁵	4	58	15.9-98.1	57.3-353.1	33.7-207.8	26	35	66	463	604
	7	102	16.2-96.8	58.2-348.6	34.3-205.2	26	35	66	463	604
	10	147	16.2-81.3	58.2-292.6	34.3-172.2	26	35	66	463	604
*	12.5	181	15.8-68.2	57.0-245.3	33.5-144.4	26	35	66	392	533
GA 30 VSD ⁵	4	58	15.9-110.5	57.3-397.7	33.7-234.1	30	40	67	476	616
	7	102	16.2-109.2	58.2-393.1	34.3-231.4	30	40	67	476	616
	10	147	16.2-88.1	58.2-317.1	34.3-186.6	30	40	67	476	616
*	12.5	181	15.8-74.2	57.0-267.1	33.5-157.2	30	40	67	405	545
GA 37 VSD ⁵	4	58	15.7-130.8	56.5-470.7	33.2-277.0	37	50	71	480	621
	7	102	15.7-129.4	56.4-465.7	33.2-274.1	37	50	71	480	621
	10	147	15.7-110.8	56.4-398.8	33.2-234.8	37	50	71	480	621
*	12.5	181	16.0-94.2	57.7-338.9	34.0-199.5	37	50	71	409	550

* 13-bar design
** Unit performance measured according to ISO 1217 ed. 4 2009, annex E, latest edition.
*** Mean noise level measured at a distance of 1 m at max. working pressure according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method); tolerance 3 dB(A).

FAD is measured at the following effective working pressures:
- 4 bar(e)
- 7 bar(e)
- 9.5 bar(e)
- 12.5 bar(e)

Maximum working pressure:
10 bar(e) (147 psig) or 13 bar(e) (191 psig)

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

Dimensions

Pack	Dimensions (A x B x C)	
	mm	in
GA 5-11 VSD ⁵ TM	700 x 1200 x 1630	27.56 x 47.24 x 64.17
GA 5-18 VSD ⁵	700 x 700 x 1495	27.56 x 27.56 x 58.86
GA 22-37 VSD ⁵	870 x 844 x 1725	34.25 x 33.22 x 67.91

Full Feature	Dimensions (A x B x C)	
	mm	in
GA 5-11 VSD ⁵ TM	700 x 1595 x 1630	27.56 x 62.80 x 64.17
GA 5-11 VSD ⁵	700 x 1095 x 1495	27.56 x 43.11 x 58.86
GA 15-18 VSD ⁵	700 x 1200 x 1495	27.56 x 47.24 x 58.86
GA 37 VSD ⁵ FF	870 x 1330 x 1725	34.25 x 52.36 x 67.91

A= Width, B= Depth, C= Height



Options

- Energy recovery
- Dryer bypass
- Potential-free contacts
- Remote monitoring
- Freeze protection
- Heavy duty inlet filter
- Pre-filter
- IT ancillaries
- DD filter
- FoodGrade oil
- UD+ filter
- Roto Synthetic Xtend oil
- EQ4i, EQ6i
- OPC UA gateway
- Power duct fan
- High ambient version

Technical specifications FD VSD 100-300

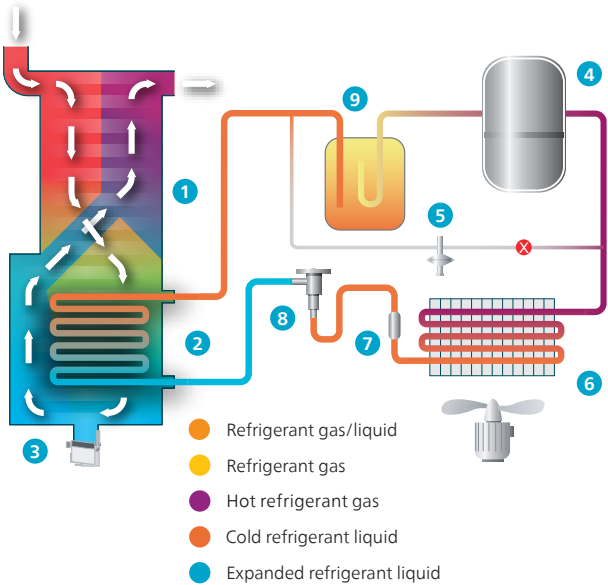
Model	Maximum inlet conditions at full flow (ambient/ inlet)	Inlet flow with a pressure dew point of 3°C/37.4°F		Pressure drop at full flow		Power consumption		Max. working pressure		Compressed air connections	Dimensions						Weight	
											Length		Width		Height			
											°C	l/s	cfm	bar	psi	kW	hp	bar
FD 100 VSD	60	100	212	0.16	2.3	0.66	0.90	14.5	210	G 1 1/2 F (NPT for UL version)	805	31.69	962	37.87	1040	41	130	287
FD 140 VSD	60	140	297	0.11	1.6	1.04	1.41	14.5	210	G 2 F (NPT for UL version)	805	31.69	962	37.87	1040	41	130	287
FD 180 VSD	60	180	381	0.18	2.6	1.54	2.09	14.5	210	G 2 F (NPT for UL version)	805	31.69	962	37.87	1040	41	134	295
FD 220 VSD	60	220	466	0.14	2	1.77	2.41	14.5	210	G 2 1/2 F (NPT for UL version)	805	31.69	962	37.87	1040	41	143	315
FD 260 VSD	60	260	551	0.1	1.5	1.9	2.58	14.5	210	G 2 1/2 F (NPT for UL version)	805	31.69	962	37.87	1040	41	150	331
FD 300 VSD	60	300	636	0.18	2.6	2.64	3.59	14.5	210	G 2 1/2 F (NPT for UL version)	805	31.69	962	37.87	1040	41	165	364

Technical specifications FD 5-95 50 Hz & 60 Hz

Model	Maximum inlet conditions at full flow (ambient/ inlet)	Inlet flow with a pressure dew point of 3°C/37.4°F		Pressure drop at full flow		Power consumption		Max. working pressure		Compressed air connections	Dimensions						Weight	
											Length		Width		Height			
											°C	l/s	cfm	bar	psi	kW	hp	bar
FD 5	60	6	13	0.07	1.02	0.2	0.27	16 (1)	233 (1)	R 3/4	525.5	20.7	390	15.4	530	20.9	27	60
FD 10	60	10	21	0.11	1.6	0.2	0.27	16 (1)	233 (1)	R 3/4	525.5	20.7	390	15.4	530	20.9	27	60
FD 15	60	15	32	0.12	1.75	0.33	0.45	16 (1)	233 (1)	R 3/4	525.5	20.7	390	15.4	530	20.9	32	70
FD 20	60	20	42	0.12	1.75	0.41	0.56	16 (1)	233 (1)	R 3/4	525.5	20.7	390	15.4	530	20.9	34	75
FD 25	60	25	53	0.17	2.47	0.41	0.56	16 (1)	233 (1)	R 3/4	525.5	20.7	390	15.4	530	20.9	34	75
FD 30	60	30	64	0.25	3.64	0.41	0.56	16 (1)	233 (1)	R 3/4	525.5	20.7	390	15.4	530	20.9	34	75
FD 40	60	40	85	0.2	2.91	0.57	0.76	16 (1)	233 (1)	R 1	716	28.2	389	15.3	679	26.8	57	125
FD 50	60	50	106	0.2	2.91	0.54	0.72	16 (1)	233 (1)	R 1	716	28.2	389	15.3	679	26.8	58	128
FD 60	60	60	127	0.22	3.2	0.63	0.84	13	189	R 1	795	31.3	482	19.0	804	31.7	80	176
FD 70	60	70	148	0.22	3.2	0.87	1.17	13	189	R 1	795	31.3	482	19.0	804	31.7	81	178
FD 95	60	95	201	0.22	3.2	1.18	1.58	13	189	R 1	795	31.3	482	19.0	804	31.7	87	192

How refrigerant dryers work

A refrigerant dryer uses a refrigerant circuit and heat exchanger(s) to pre-cool air, refrigerate it to condense out moisture vapor, and then re-heat the air to prevent pipe sweating downstream.



Air circuit

- 1 Air-to-air heat exchanger: Incoming air is cooled down by the outgoing dry, cold air
- 2 Air-to-refrigerant heat exchanger: The air is cooled to the required dew point by the refrigerant circuit. The water vapor condenses into water droplets
- 3 Integrated water separator: The moisture is collected and evacuated by the electronic drain

Refrigerant circuit

- 4 Refrigerant compressor: Compresses the gaseous refrigerant to a higher pressure
- 5 Regulation device: The hot gas bypass valve regulates the dryer to prevent freezing at lower load conditions
- 6 Refrigerant condenser: Cools the refrigerant so that it changes from a gas to a liquid
- 7 Refrigerant filter: Protects the expansion device from harmful particles
- 8 Thermostatic expansion valve: The expansion process reduces the pressure and cools the refrigerant further
- 9 Liquid separator: Ensures that only refrigerant gas enters the compressor

Technical specifications FX 5-300 50& 60Hz

Model					Maximum working pressure		Electrical supply		Dimensions						Weight		Compressed air connections
									Length		Width		Height				
	l/s	cfm	bar	psi			bar	psi							voltage/phase/frequency		
FX5	6	13	0.15	2.18	16	232	230/1/50Hz 115-230/1/60Hz		493	19.41	350	13.78	450	17.72	19	42	3/4" M
FX10	10	21	0.25	3.63	16	232	230/1/50Hz 115-230/1/60Hz		493	19.41	350	13.78	450	17.72	19	42	3/4" M
FX15	14	30	0.25	3.63	16	232	230/1/50Hz 115-230/1/60Hz		493	19.41	350	13.78	450	17.72	20	44	3/4" M
FX20	20	42	0.25	3.63	16	232	230/1/50Hz 115-230/1/60Hz		493	19.41	350	13.78	450	17.72	25	55	3/4" M
FX30	30	64	0.3	4.35	16	232	230/1/50Hz 115-230/1/60Hz		493	19.41	350	13.78	450	17.72	27	60	3/4" M
FX40	39	83	0.14	2.03	14	203	230/1/50Hz 115-230/1/60Hz		497	19.57	370	14.57	764	30.08	51	112	1" F
FX50	50	106	0.2	2.90	14	203	230/1/50Hz 115-230/1/60Hz		497	19.57	370	14.57	764	30.08	51	112	1" F
FX60	60	127	0.18	2.61	14	203	230/1/50Hz 115-230/1/60Hz		557	21.93	460	18.11	789	31.06	62	137	1 1/2" F
FX70	68	144	0.18	2.61	14	203	230/1/50Hz 115-230/1/60Hz		557	21.93	460	18.11	789	31.06	62	137	1 1/2" F
FX90	87	184	0.25	3.63	14	203	230/1/50Hz 115-230/1/60Hz		557	21.93	460	18.11	789	31.06	62	137	1 1/2" F
FX110	108	229	0.2	2.90	14	203	230/1/50Hz 230/1/60Hz		557	21.93	580	22.83	899	35.39	82	181	1 1/2" F
FX130	128	271	0.26	3.77	14	203	230/1/50Hz 230/1/60Hz		557	21.93	580	22.83	899	35.39	82	181	1 1/2" F
FX170	167	354	0.16	2.32	14	203	400/3/50Hz 460/3/60Hz		1040	40.94	805	31.69	962	37.87	145	320	2" F
FX200	200	424	0.23	3.34	14	203	400/3/50Hz 460/3/60Hz		1040	40.94	805	31.69	962	37.87	158	348	2" F
FX250	250	530	0.18	2.61	14	203	400/3/50Hz 460/3/60Hz		1040	40.94	805	31.69	962	37.87	165	364	2 1/2" F
FX300	300	636	0.18	2.61	14	203	400/3/50Hz 460/3/60Hz		1040	40.94	805	31.69	962	37.87	164	362	2 1/2" F

Reference conditions Limitations

		Reference conditions		Limitations	
		Standard	UL-approved	Standard	UL-approved
FX 5-300	Ambient temperature	25°C	100°F	5°C-43°C ⁽¹⁾	41°F-109°F ⁽¹⁾
	Inlet temperature	35°C	100°F	5°C-55°C	41°F-131°F
	Operating pressure	7 bar	100 psi	6-14 bar ⁽²⁾	87-203 psi ⁽²⁾
FD 5-95	Ambient temperature	25°C	100°F	1°C-46°C	34°F-131°F
	Inlet temperature	35°C	100°F	5°C-60°C	41°F-115°F
	Operating pressure	7 bar	100 psi	6-14 bar ⁽³⁾	87-203 psi ⁽³⁾
FD VSD 100-300	Ambient temperature	25°C	100°F	5°C-46°C	41°F-131°F
	Inlet temperature	35°C	100°F	5°C-60°C	41°F-140°F
	Operating pressure	7 bar	100 psi	6-14 bar	87-203 psi

Tested according to ISO 7183:2007 ⁽¹⁾ FX 170-300: 46°C/131°F ⁽²⁾ FX 5-30: 16 bar/232 psi ⁽³⁾ FD 5-50: 16 bar/232 psi

Notes

Refrigerant types:	R513A for FX 5-50, FD 5-50 R410A for FX 60-300, FD 60-95, FD VSD
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Options
DD+/PD+/UD+/DDp+/PDp+/QD+

- Smart indicator
- External wiring for smart indicator
- Potential-free alarm for gauge
- Filter connection kit
- Wall mounting kit
- Mechanical drain WD 80
- Zero-loss electronic drain (IWD)



DD+/ PD+/ UD+			DDp+/ PDp+/QD+		
Threaded std	Threaded inPASS	Flanged	Threaded std	Threaded inPASS	Flanged

Standard							
Drain	Depressurizing valve (for DDp+/ PDp+/QD+)	x	x	x	x	x	x
	Floater drain (for DD+/PD+/UD+)	x	x				
	Electronic drain EWD (for DD+/ PD+/UD+)			x			
Indicator (excl. QD+)	Pop-up indicator	size 7-25		size 7-25			
	Gauge	size >25		size >25			
	Smart indicator		x	x	x	x	x
Bypass			x		x		
Options							
	Smart indicator	x		x			
	External wiring for smart indicator	x	x	x	x	x	x
	Potential-free alarm for gauge	size >25		size >25			
	Filter connection kit	x	x	x	x		
	Wall mounting kit	x	x	x	x		
	Mechanical drain WD 80			x			
	Electronic drain EWD	x	x				

Correction factors

When working with other pressures than the nominal pressure, the actual FAD capacity is calculated by multiplying the correction factor with the rated AML capacity. The calculated actual flow capacity corresponds to the AML-stated pressure drop.

Working pressure in bar(g)	1	2	3	4	5	6	7	8	10	12	14	16
Correction factor	0.38	0.53	0.65	0.75	0.83	0.92	1	1.06	1.20	1.31	1.41	1.50

Sizing & dimensions
DD+/PD+/UD+/DDp+/PDp+/QD+

Filter size with or without inPASS™	Nominal capacity		Reference pressure		Maximum pressure		Connections		Dimensions						Free space for cartridge replacement		Weight	
	l/s	cfm	bar(e)	psig	bar(e)	psig	G	NPT	A		B		C		D		kg	lbs
									mm	inch	mm	inch	mm	inch	mm	inch		
7+	7	15	7	102	16	232	G 1/2	NPT 1/2	106	4.17	90	3.54	362.6	14.3	90	3.54	1.18	2.60
15+	15	32	7	102	16	232	G 1/2	NPT 1/2	106	4.17	90	3.54	362.6	14.3	90	3.54	1.24	2.73
25+	25	53	7	102	16	232	G 1/2	NPT 1/2	106	4.17	90	3.54	415.1	16.3	90.5	3.56	1.45	3.20
45+	45	95	7	102	16	232	G 3/4	NPT 3/4	135	5.31	110	4.33	442.6	17.4	110	4.33	2.35	5.18
75+	75	159	7	102	16	232	G 1	NPT 1	135	5.31	110	4.33	527.6	20.8	110	4.33	2.8	6.17
110+	110	233	7	102	16	232	G 1 1/2	NPT 1 1/2	175	6.89	143	5.63	559.1	22.0	130.5	5.14	5.4	11.91
145+	145	307	7	102	16	232	G 1 1/2	NPT 1 1/2	175	6.89	143	5.63	629.1	24.8	130.5	5.14	5.93	13.08
180+	180	381	7	102	16	232	G 1 1/2	NPT 1 1/2	175	6.89	143	5.63	699.1	27.5	130.5	5.14	6.45	14.22
240+	240	509	7	102	16	232	G 2	NPT 2	222	8.74	171	6.73	729.6	28.7	175	6.89	9.54	21.04
300+	300	636	7	102	16	232	G 2	NPT 2	222	8.74	171	6.73	822.6	32.4	175	6.89	10.71	23.62
							G 2 1/2	NPT 2 1/2									10.43	23.00

Non-inPASS™ variant: height "C" decreases by 51 mm (2") for sizes 7-25 and by 10 mm (0.4") for sizes 45-300.

With inPASS™																		
380+	380	805	7	102	14	203	G 3	NPT 3	250	9.84	191	7.52	927.1	36.5	200.5	7.89	13.6	29.99
425+	425	901	7	102	14	203	G 3	NPT 3	250	9.84	191	7.52	1043.1	41.1	200.5	7.89	14.95	32.96
510+	630	1081	7	102	14	203	G 3	NPT 3	250	9.84	191	7.52	1281.1	50.4	200.5	7.89	19.6	43.22
Without inPASS™																		
360+	360	763	7	102	16	232	G 2 1/2	NPT 2 1/2	222	8.74	171	6.73	812.7	32.0	175	6.89	10.2	22.49
430+	430	911	7	102	16	232	G 3	NPT 3	250	9.84	191	7.52	917.2	36.1	200.5	7.89	13.98	30.83
525+	525	1112	7	102	16	232	G 3	NPT 3	250	9.84	191	7.52	1033.2	40.7	200.5	7.89	15.32	33.78
630+	630	1335	7	102	16	232	G 3	NPT 3	250	9.84	191	7.52	1271.2	50.0	200.5	7.89	19.24	42.42
Flanged																		
480+	480	1017	7	102	16	232	DN 80		370	15	316	12	1295*	51*	1375	54	76	168
630+	630	1335	7	102	16	232	DN 80		370	15	316	12	1295*	51*	1375	54	78	172
860+ T	860	1822	7	102	16	232	DN 100		550	22	418	17	798	31	230	9	38	84
970+	970	2055	7	102	16	232	DN 100		510	20	451	18	1360*	54*	1500	59	141	311
1050+ T	1050	2225	7	102	16	232	DN 100		550	22	418	17	914	36	230	9	41	90
1260+	1260	2670	7	102	16	232	DN 100		510	20	451	18	1360*	54*	1500	59	143	315
1260+ T	1260	2670	7	102	16	232	DN 100		550	22	418	17	1152	45	230	9	49	107
1600+	1600	3390	7	102	16	232	DN 150		620	24	506	20	1480*	58*	1560	61	210	463
2100+	2100	4450	7	102	16	232	DN 150		640	25	541	21	1555*	61*	1640	65	176	388
2500+	2500	5297	7	102	16	232	DN 150		640	25	541	21	1555*	61*	1640	65	178	392
3000+	3000	6357	7	102	16	232	DN 200		820	32	701	28	1745*	69*	1710	67	420	926
3500+	3500	7416	7	102	16	232	DN 200		820	32	701	28	1745*	69*	1710	67	424	935
4000+	4000	8476	7	102	16	232	DN 200		820	32	701	28	1745*	69*	1710	67	428	944
5000+	5000	10594	7	102	16	232	DN 200		820	32	701	28	1745*	69*	1710	67	432	952
6000+	6000	12713	7	102	16	232	DN 250		920	36	815	32	2085*	82*	1625	64	671	1479
7000+	7000	14832	7	102	16	232	DN 250		920	36	815	32	2085*	82*	1625	64	679	1497
8000+	8000	16951	7	102	16	232	DN 300		1040	41	930	37	2070*	81*	1625	64	896	1975
9000+	9000	19070	7	102	16	232	DN 300		1040	41	930	37	2070*	81*	1625	64	900	1984

* +60 mm/2.36 in for units with an electronic drain & +70 mm/2.76 in for a mechanical float.

Temperature correction factors QD+

At higher temperatures, more compressor oil evaporates. When the actual working air inlet temperature differs from the reference, divide the filter capacity by the corresponding correction factors to obtain the correct capacity.

Inlet temperature °C	20	25	30	35	40	45	50	55	60
Inlet temperature °F	68	77	96	95	104	113	122	131	140
Correction factor oil-free	1	1	1	1	1	1	1	1	1
Correction factor oil-lubricated	1	1	1	1.2	1.5	1.7	2.1	2.4	2.6

Some environmental or process aspects could cause a higher amount of hydrocarbons or other volatile organic compounds in the compressed air. Contact Atlas Copco when higher concentrations can be expected.

QDT Series

Activated carbon towers for optimal oil vapor filtration

The high-efficiency activated carbon tower is capable of removing hydrocarbons, odors and oil vapor from compressed air. The activated carbon will, through adsorption, reduce the residual oil content to lower than 0.003 mg/m³. The pressure drop is low and stays minimal during the filter’s lifetime.



Your benefits:

- **Maximum oil vapor removal**
Superb activated carbon material.
- **Low pressure drop** - Optimal internal flow path.
- **High reliability** - The QDT’s robust design and rigorous quality control of the activated carbon optimize filter reliability.
- **Long service intervals** - The high volume of activated carbon material ensures a long lifetime, even in very harsh working conditions.

Options

- Oil indicator ensures pure air.
- Wall mounting kit for easy installation (20-185 l/s).
- Heavy-duty filling for extreme oil load (425-1800 l/s).
- PDp+ post-filter including interconnection pipe (425-1800 l/s).

Performance

	QDT
Contaminant	Oil vapor
Test method	ISO 8573-5:2001, ISO 12500-2:2007
Maximum oil carry-over (mg/m³)*	0.003
Average dry pressure drop (mbar)	125 (QDT 20-310) 72 (QDT 425-1800)
Element service	After 4,000 operating hours or 1 year (up to QDT 310) After 8,000 operating hours or 1 year (from QDT 425) After 12,000 operating hours or 1 year (heavy-duty option)
Precede with	Water separation UD+ or DD+/PD+ Dryer

* After UD+ or DD+/PD+.



QDT 20-310



QDT 425-1800

Certification

ISO 8573-5:2001

Sizing & dimensions

Filter size	Nominal capacity		Connections G or NPT	Dimensions						Weight	
				A		B		C			
	l/s	cfm		in	mm	in	mm	in	mm	in	kg
20	20	42	1/2	490	19	223	9	190	7	7	22
45	45	95	1	715	28	223	9	190	7	15	33
60	60	127	1	840	33	223	9	190	7	18	40
95	95	210	1	715	28	387	15	190	7	29	64
125	125	265	1 1/2	840	33	387	15	190	7	34	75
150	150	318	1 1/2	715	28	551	22	190	7	42	93
185	185	392	1 1/2	840	33	551	22	190	7	50	110
245	245	519	1 1/2	840	33	715	28	190	7	67	148
310	310	657	1 1/2	840	33	879	35	190	7	84	185
425	425	901	DN 80 3"	2148	85	710	28	600	24	264	581
550	550	1165	DN 80 3"	2190	86	710	28	670	26	302	664
850	850	1801	DN 100/4"	2320	91	724	29	805	32	391	860
1100	1100	2331	DN 100/4"	2450	97	934	37	820	32	602	1324
1800	1800	3814	DN 150/6"	2612	103	1046	41	980	39	882	1940

Correction factors

For other compressed air inlet temperatures, divide the filter capacity by the following correction factor (Kt):

Inlet temperature °C	10	15	20	25	30	35	40	45	50	55	60	65	70*	75*	80*
Inlet temperature °F	50	59	68	77	96	95	104	113	122	131	140	149	158	167	176
Correction factor oil-free	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Correction factor oil-lubricated	1	1	1	1	1	1	1.2	1.5	1.7	2.1	2.4	3	3.5	4.1	4.9

* For QDT flanged only.

For other compressed air inlet pressures, multiply the filter capacity by the following correction factor (Kp):

Inlet pressure bar	3	4	5	6	7	8	9	10	11	12	13
Inlet pressure psi	44	58	73	87	102	116	131	145	160	174	193
Correction factor	0.57	0.77	0.83	1	1	1	1	1.05	1.05	1.11	1.18

UD+ & QDT: the winning combination

The Atlas Copco UD+ - QDT filter train meets the requirements of air purity class 1 for total oil, according to ISO 8573-1:2010, in a typical compressed air installation:

UD+	QDT
Liquid oil & oil aerosol removal	Oil vapor removal
Guaranteed 0.0009 mg/m³ aerosol and liquid	Guaranteed 0.003 mg/m³ vapor
40% pressure drop reduction compared to DD+/PD+	65% pressure drop reduction compared to previous QDT
50% footprint reduction	Extremely compact compared to vessel designs

Certified filter trains

Filter train	Purity class according to ISO 8573-1:2010	Certified
UD+ - QDT - DDp+	[2:-1]	yes
UD+ - QDT - DDp+ PDp+	[1:-1]	yes

