A range of effective after-coolers and water separators to match your compressor

Atlas Copco offers a range of after-coolers and water separators, which combines minimal air pressure drop with high cooling efficiency and low energy consumption.

After-coolers are supplied complete with all necessary parts. They are compact, simple to install and easy to dismantle for cleaning. The negligible pressure drop effected by the after-coolers means virtually no loss of power to compressed air-driven tools, machines and pneumatic devices. Thus no extra demand is placed on the compressor and no additional energy or maintenance costs are incurred.

In addition, the Atlas Copco solution provides a number of important advantages:

- special, highly efficient separation by cyclone
- minimum maintenance
- totally rustproof material
- the assembly of the connection flanges is easy

Atlas Copco after-coolers, whether cooled by air or water, are reliable, require minimum maintenance and provide trouble-free protection against the costly effects of water in your system. Both types of after-cooler deliver air into the air-net at a temperature suitable for most types of air dryers.

Water-cooled HD after-coolers

Atlas Copco HD water-cooled after-coolers are designed to combine a high level of cooling with economic water consumption. The air leaving the compressor is cooled in a bundle of stainless steel tubes, with the cooling water and the compressed air flowing in opposite directions. A water separator is provided with the cooler as standard.

The cooling tubes are reeled inside to create turbulence for more rapid cooling of the compressed air. To increase the cooling effect, the water is deflected by baffles.

Air-cooled TD after-coolers

Atlas Copco TD air-cooled after-coolers have an aluminium block cooling element. An electrically driven fan, shielded by a protector for user safety, forces cooling air between the fins. High cooling efficiency is combined with low energy consumption.

The after-cooler is mounted on a sturdy frame. A water separator is delivered as standard with the TD25-650 coolers. The TD 08, is delivered with wall mounting brackets and incorporates a drain collector with manual drain.

Type	Capacity range		Maximum working pressure		Connections	Dimensions						Weight	
						Height		Width		Length			
	l/s	cfm	bar(e)	psi	inlet/outlet	mm	inch	mm	inch	mm	inch	kg	lbs
WD 08	7-60	15-127	20	290	G 1	332	13.0	130	5.1	185	7.3	1.1	2.4
WSD 80	50-150	106-318	20	290	G 1½	432	17.0	130	5.1	185	7.3	3.5	7.7
WSD 250	125-350	265-742	20	290	G 2½	532	20.9	160	6.3	230	9.0	12.5	27.6
WSD 750	300-800	636-1695	20	290	83 mm*	532	20.9	160	6.3	230	9.0	14.0	30.9

* Blind flange to be machined up to this diameter

Efficient water separators, automatic and intelligent drainage

WSD water separators

The water separators provided by Atlas Copco have ample capacity. Reliable automatic drain devices prevent condensed water from building up in the coolers. The water separators are delivered as standard with the after-coolers. They can also be installed in any point of your air net.

Made entirely of totally rustproof material, these general purpose separators feature very efficient separation by cyclone. Maintenance-free with no moving parts, they have an automatic and manual drain.

WD automatic condensate drains

The WD 80 drain valve provides completely automatic drainage of the condensate which collects at the bottom of the air receiver. The patented Atlas Copco design eliminates troublesome mechanical linkages.

The automatic drain can be installed at the lowest point of a compressed air-net, (e.g. at the bottom of a receiver or cyclone separator etc.). Maintenance is minimal.

Type	Maximum working pressure		Drain capacity	Connections	Dimensions						Weight	
					Height		Width		Length			
	bar(e)	psi	l/h		mm	inch	mm	inch	mm	inch	kg	lbs
WD 80	20	290	200	G ½	182	7.2	132	5.2	132	5.2	2.7	5.9

EWD electronic condensate drains

The exact net pressure

The range of EWD electronically controlled condensate drains is synonymous with safe, dependable and economical condensate management.

The intelligent drain function monitors condensate build-up with liquid level sensors and and evacuates the condensate only when necessary, thus avoiding wastage of compressed air and giving considerable energy savings.

The EWD drain device offers security and confidence, enabling you to solve all condensate discharge problems even with heavily contaminated systems.

A wide range of different EWD drains is available for oil contaminated condensate and also may be provided with additional hard coating for use with oil-free and aggressive condensate.

Type	Max. compressor capacity (1)		Max. dryer capacity (1)		Max. pressure		Dimensions						Weight	
							Height		Width		Length			
	l/s	cfm	l/s	cfm	bar	psi	mm	inch	mm	inch	mm	inch	kg	lbs
EWD 50 (2)	65	138	130	275	16	232	115	4.5	70	2.8	171	6.7	0.7	1.5
EWD 75	98	208	194	411	16	232	141	5.6	65	2.6	150	5.9	0.8	1.8
EWD 75 C (2)	98	208	194	411	16	232	141	5.6	65	2.6	150	5.9	0.8	1.8
EWD 75 CHP	98	208	194	411	63	913	141	5.6	65	2.6	150	5.9	0.9	2.0
EWD 330	433	917	866	1835	16	232	162	6.4	93	3.7	212	8.3	2.0	4.4
EWD 330 C(2)	433	917	866	1835	16	232	162	6.4	93	3.7	212	8.3	2.0	4.4
EWD 330 CHP (2)	433	917	866	1835	25	362	162	6.4	93	3.7	212	8.3	2.0	4.4
EWD 1500	1950	4132	3900	8264	16	232	180	7.1	120	4.7	252	9.9	2.9	6.4
EWD 1500 C (2)	1950	4132	3900	8264	16	232	180	7.1	120	4.7	252	9.9	2.9	6.4
EWD 16K C (2)	21670	45920	43340	91830	16	232	280	11.0	254	10.0	280	11.0	5.9	13.0

(1) At following conditions:
- ambient temperature 35 °C (95 °F)
- relative humidity 70 %

(Z) suitable for oil-free condensate

(C) with anti corrosion coating for oil-free condensate

Technical data after-coolers

HD water-cooled after-cooler

Type	Nominal flow *		Maximum working pressure		Δt above cooling water *		Water consumption		
	l/s	cfm	bar(e)	psi	°C	°F	l/s	m³/h	USgal/min
HD 4	67	142	20	290	7	13	0.17	0.61	2.7
HD 8	133	282	20	290	7	13	0.34	1.22	5.4
HD 11	183	388	20	290	6	11	0.46	1.66	7.3
HD 16	267	566	10.5	152	8	14	0.67	2.41	10.6
HD 32	533	1129	10.5	152	8	14	1.33	4.79	21.1
HD 48	800	1694	10.5	152	8	14	2.00	7.20	31.7
HD 67	1067	2260	10.5	152	8	14	2.67	9.61	42.3
HD 96	1600	3389	10.5	152	8	14	4.00	14.40	63.4

* HD water-cooled after-cooler

Type	Air inlet / outlet connections Ø		Dimensions						Weight		Cooling water	N° of cooler cores
			Height		Width		Length				inlet outlet	
	inlet	outlet	mm	inch	mm	inch	mm	inch	kg	lbs		
HD 4	G 1½	G 1½	1840	72.4	170	5.1	344	13.5	37	121	G ¾	1
HD 8	G 2½	G 2½	1973	77.7	215	6.3	474	18.7	78	172	G ½	1
HD 11	G 2½	G 2½	1975	77.8	230	9.1	483	19.0	85	187	G ½	1
HD 16	DN 100	DN 80	2083	82.0	500	19.7	645	25.4	180	396	G ¾	1
HD 32	DN 100	DN 80	2083	82.0	500	19.7	635	25.0	210	463	G 1¼	1
HD 48	DN 150	DN 80	2112	83.2	490	19.3	1032	40.6	380	838	G 1¼	2
HD 67	DN 150	DN 80	2112	83.2	490	19.3	1032	40.6	410	904	G 1¼	2
HD 96	DN 175	DN 80	2139	83.2	490	19.3	1412	55.6	610	1345	G 1½	3

TD air-cooled after-cooler

Type	Nominal flow *		Maximum working pressure		Δt above * ambient temperature		Fan motor power	
	l/s	cfm	bar(e)	psi	°C	°F	kW	hp
TD 08	8	17	20	290	10	18	0.05	0.07
TD 25	25	53	20	290	10	18	0.12	0.16
TD 50	50	106	20	290	10	18	0.18	0.24
TD 150	150	318	20	290	10	18	0.75	1.01
TD 300	300	363	20	290	10	18	0.75	1.01
TD 650	650	1377	20	290	10	18	2.20	2.95

* Referred to absolute pressure of 1 bar and temperature of 20 °C. Compressed air in at 160 °C.

Type	Air inlet / outlet connections Ø		Dimensions						Weight		N° of cooler cores
			Height		Width		Length				
	inlet	outlet	mm	inch	mm	inch	mm	inch	kg	lbs	
TD 08	G ½	G ½	188	7.4	130	5.1	270	10.6	6	13	1
TD 25	G 1	G 1	658	25.9	402	15.8	588	23.1	19	42	1
TD 50	G 1¼	G 1¼	735	28.9	412	16.2	664	26.1	23	51	1
TD 150	G 2½	G 2½	1160	45.6	435	17.1	920	36.2	53	117	1
TD 300	G 2½	G 2½	1280	50.3	466	18.3	1140	44.8	73	161	1
TD 650	DN 80	DN 100	1525	60.0	716	28.1	1780	70.0	185	408	1

In order to be First in Mind—First in Choice® for all your compressed air needs, Atlas Copco delivers the products and services that help increase your business' efficiency and profitability.

Atlas Copco's pursuit of innovation never ceases, driven by your need for reliability and efficiency. Always working with you, we are committed to providing you the customized quality air solution that is the driving force behind your business.

Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

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After-coolers, water separators and drains

HD 4-96 & TD 8-650, WSD 25-750 & WD 80/EWD 50-1500

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