

# Atlas Copco

After-coolers, water separators and drains



COMPLETE,  
EASY TO INSTALL AND  
VERY ECONOMICAL



# 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



## Water-cooled HD after-coolers

Atlas Copco HD water-cooled after-coolers are designed to combine a high level of cooling with economic

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 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.



# Technical data aftercoolers

## 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	m <sup>3</sup> /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 64	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

R249 Stainless steel tube bundle

Type	Air inlet / outlet connections Ø		Height		Dimensions Width		Length		Weight		Cooling water in-/outlet	No of cooler cores
	inlet	outlet	mm	inch	mm	inch	mm	inch	kg	lbs		
HD 4	G 1 1/2	G 1 1/2	1840	72.4	170	5.1	344	13.5	37	121	G 3/8	1
HD 8	G 2 1/2	G 2 1/2	1973	77.7	215	6.3	474	18.7	78	172	G 1/2	1
HD 11	G 2 1/2	G 2 1/2	1975	77.8	230	9.1	483	19.0	85	187	G 1/2	1
HD 16	DN 100	DN 80	2083	82.0	500	19.7	645	25.4	180	396	G 3/4	1
HD 32	DN 100	DN 80	2083	82.0	500	19.7	635	25.0	210	463	G 1 1/4	1
HD 48	DN 150	DN 80	2112	83.2	490	19.3	1032	40.6	380	838	G 1 1/4	2
HD 64	DN 150	DN 80	2112	83.2	490	19.3	1032	40.6	410	904	G 1 1/4	2
HD 96	DN 175	DN 80	2139	84.2	490	19.3	1412	55.6	610	1345	G 1 1/2	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	636	20	290	10	18	0.75	1.01
TD 650	650	1377	20	290	10	18	2.20	2.95
TD 650	650	1377	10.5	152	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		Height		Dimensions Width		Length		Weight		No of cooler cores
	inlet	outlet	mm	inch	mm	inch	mm	inch	kg	lbs	
TD 08	G 1/2	G 1/2	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 1 1/4	G 1 1/4	735	28.9	412	16.2	664	26.1	23	51	1
TD 150	G 2 1/2	G 2 1/2	1160	45.6	435	17.1	920	36.2	53	117	1
TD 300	G 2 1/2	G 2 1/2	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

# 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.



Type	Capacity range		Maximum working pressure		Connections inlet / outlet	Dimensions						Weight	
	l/s	cfm	bar(e)	psi		Height		Width		Length		kg	lbs
						mm	inch	mm	inch	mm	inch		
WSD 25	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 1 1/2	432	17.0	130	5.1	185	7.3	3.5	7.7
WSD 250	125-350	265-742	20	290	G 2 1/2	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

## 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 l/h	Connections	Height		Dimensions Width		Length		Weight	
	bar(e)	psi			mm	inch	mm	inch	mm	inch	kg	lbs
WD 80	20	290	200	G 1/2	182	7.2	132	5.2	132	5.2	2.7	5.9

# EWD electronic condensate drains



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

<sup>(1)</sup> At following conditions:  
 ambient temperature 35 °C (95 °F)  
 relative humidity 70 %

(C) with anti corrosion coating for oil-free condensate  
<sup>(2)</sup> suitable for oil-free condensate



The face of innovation

What sets Atlas Copco apart as a company is our conviction that we can only excel in what we do if we provide the best possible know-how and technology to really help our customers produce, grow and succeed.

There is a unique way of achieving that - we simply call it the Atlas Copco way. It builds on **interaction**, on long-term relationships and involvement in the customers' process, needs and objectives. It means having the flexibility to adapt to the diverse demands of the people we cater for.

It's the **commitment** to our customers' business that drives our effort towards increasing their productivity through better solutions. It starts with fully supporting existing products and continuously doing things better, but it goes much further, creating advances in technology through **innovation**. Not for the sake of technology, but for the sake of our customer's bottom line and peace-of-mind.

That is how Atlas Copco will strive to remain the first choice, to succeed in attracting new business and to maintain our position as the industry leader.

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



#### ISO 9001

From design to production and delivery, Atlas Copco compressors adhere to the ISO 9001 quality standard.



#### ISO 14001

Atlas Copco's Environmental Management System forms an integral part of each business process.

**Atlas Copco**

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