

Atlas Copco

After-coolers, water separators and drains

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



Sustainable Productivity



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.

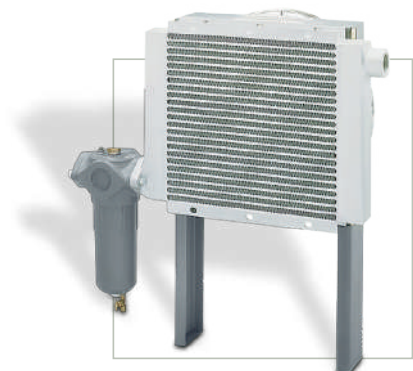
The cooling tubes are reeled inside to create turbulence for more rapid cooling of the compressed air. To increase the cooling effect, the water is deflected by baffles.



▶ 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.



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 | |
|---------|----------------|----------|--------------------------|-----|-----------------------------|------------|------|-------|------|--------|------|--------|------|
| | | | | | | Height | | Width | | Length | | | |
| | l/s | cfm | bar(e) | psi | | mm | inch | mm | inch | mm | inch | kg | lbs |
| 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 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

▶ 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 | Dimensions | | | | | | Weight | |
|-------|--------------------------|-----|-----------------------|-------------|------------|-----|-------|-----|--------|-----|--------|-----|
| | | | | | Height | | Width | | Length | | | |
| | bar(e) | psi | 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



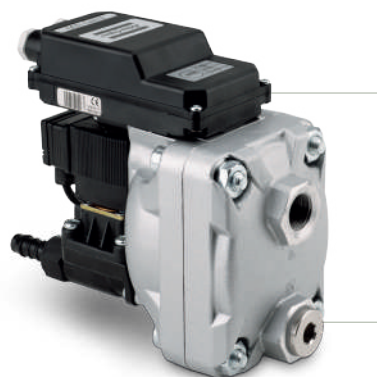
▶ The exact net pressure

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 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 | |
|----------------------------|---|-------|------------------------------------|-------|---------------|-----|------------|------|-------|------|--------|------|--------|------|
| | l/s | cfm | l/s | cfm | bar | psi | Height | | Width | | Length | | kg | lbs |
| | | | | | | | mm | inch | mm | inch | mm | inch | | |
| 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 %

(2) 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 inlet outlet | N° of cooler cores |
|-------|----------------------------------|--------|------------|------|-------|------|--------|------|--------|------|----------------------------|--------------------|
| | | | Height | | Width | | Length | | | | | |
| | 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 |
| 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 | | 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 |



Driven by innovation

With more than 135 years of innovation and experience, Atlas Copco will deliver the products and services to help maximize your company's efficiency and productivity. As an industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous innovation, we strive to safeguard your bottom line and bring you peace of mind.



Building on interaction

As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.



A committed business partner

With a presence in over 170 countries, we will deliver high-quality customer service anywhere, anytime. Our highly skilled technicians are available 24/7 and are supported by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. We are committed to providing the best possible know-how and technology to help your company produce, grow, and succeed. With Atlas Copco you can rest assured that your superior productivity is our first concern!

