

# Hypercool

## Air Cooled Aftercoolers



Highly efficient air cooled after coolers. The Hypercool range represents a cost effective solution to easily remove water vapour and cool compressed air to safe usable levels for many industrial applications.

ADT coolers can be used when cooling water is not available, limiting costs and plant complexity and can prepare the air for further filtration and drying.

Hypercool coolers can be installed immediately downstream of compressors or blowers in order to remove up to 80% of the condensate, protecting the entire compressed air system or production process.

A high quality aftercooler, properly sized is an excellent investment that can help ensure that the compressed air system works efficiently, thereby guaranteeing the quality of the finished product.



### Product Features:

- Significant energy and capital investment savings
- Optimised compressed air systems performance
- Reduced maintenance and improved product quality
- Reliability and continuous operation
- Very low pressure drops with optimum cooling performances

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Robust construction and compact design

Low pressure drop design

Protective grill for fan and heat exchanger

High efficiency and low noise axial fans

Legs or support plate available on request for smaller models



Standard protection with epoxy powder coating

Stainless steel rivets and screws

Full range of matching centrifugal separators "Hypersep"

Extensive range of condensate drains "Hyperdrain"

### Operation:

Hot compressed air passes through the ADT copper tubes. Ambient air is forced across these externally finned tubes by the use of an axial fan. Compressed air is cooled to a temperature which can be as little as 10

°C above the ambient temperature. As the compressed air cools down, up to 80% of the water vapour condenses to a liquid and this is efficiently removed by a centrifugal separator installed at the ADT outlet.

### Versions:

- Legs and support plate kit for smaller models
- Counterflanges kit
- ADT with copper fins and tubes for marine environments available on request
- Stainless steel centrifugal water separators are available on request

### Applications:

- Compressed air cooling and dehumidification
- Pneumatic transportation
- Cooling air before an adsorption dryer
- Glassware-industry
- Railway and transportation industry

# Technical data

Aftercooler model	Air flow		Design pressure (barg)	Cooler air conn.	Electrical supply (V/ph/Hz)	Adsorbed current (A)	Pressure drop at nominal conditions (kPa)	Noise level at 10m dB(A)	Dimensions (mm)				Cooler weight (kg)
	(m <sup>3</sup> /h)	(m <sup>3</sup> /min)							A	B	C	D	
<b>Standard version</b>													
ADS004	210	3,5	16	1½"	230/1/50	0,36	14	44,1	550	1.140	303	715	37
ADT006	360	6	16	1½"	400/3/50	0,29	22	54,2	690	1.315	455	855	58
ADT009	540	9	16	2"	400/3/50	0,52	13	58,5	936	1.315	480	1.173	70
ADT028	1.680	28	16	DN 80	400/3/50	2,70	15	70,3	1.480	1.906	628	2.054	181
ADT038	2.160	36	16	DN 100	400/3/50	2,70	16	70,3	1.580	1.975	590	2.263	211
ADT064	3.840	64	16	DN 150	400/3/50	5,40	26	73,0	2.870	2.239	677	3.650	429

Performances refer to models in standard materials, operating with clean cooler, with air at FAD 20 °C / 1 bar A, and at the following working conditions: air suction 25 °C/60 % RH, 7 barg working pressure, 120 °C compressed air inlet temperature (for water-cooled models), temperature approach between air outlet and water inlet (water-cooled models) or cooling air (air-cooled models) of ca. 10 °C. The performance of models with non standard materials may differ from those quoted above.

