

# Technical Data Sheet

## Air Cooled Aftercooler



Note: Read and follow the Blastline Air Cooled Aftercooler Operations Manual and provide proper training for all users of the machine and related accessories in order to achieve a safe and effective cooling operation



### Description

Air-cooled air aftercoolers cool the compressed air with atmospheric air. A standard screw air compressor will increase compressed air temperature by 100°C over the ambient temperature. This hot, laden air is then directed into the pneumatically driven fan-cooled aluminum radiator, where it is cooled, and water vapor begins to coagulate into large droplets. The cooled air is then directed through a coalescent filter to remove the moisture. There are four different models available for Blastline Aftercoolers, namely BL-450, BL-600, BL-800, and BL-1000. The compressed air is cooled to approximately 9°C above ambient temperature. A sufficient capacity aftercooler can take up to 80% of the moisture present in the compressed air. The BL Series is a complete aftercooler package designed to work on most models of rotary air compressors. To select the appropriate model, simply determine compressor horsepower and select the model from the chart.

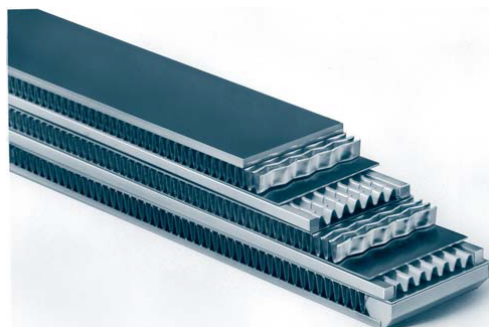
### Features and Benefits

- Advanced technology design provides compact cooling with a High-efficiency cooling system - 100% Aluminium-made.
- Rugged, high-performance Bar & Plate technology.
- Designed for maximum heat transfer with minimum compressed air pressure loss.
- High performance & working pressure - Heavy duty.
- Heat transfer is maximized by heavy-gauge brazed aluminum fins that increase cooling air turbulence.
- Maintenance-free product.
- Low noise levels.
- Cost-effective compared with Cu-Br cooler.
- Electric/pneumatic pusher fans options are available.
- All models feature sturdy, corrosion-resistant housing with strong steel brackets for floor mounting.
- Fan blades are made of Polypropylene and feature an aluminum hub, ensuring balanced vibration-free operation.
- Fan motors are chosen for extended service life and low maintenance requirements.

### Common Applications

- Aftercoolers are a crucial component in any system that utilizes compressed air.
- Used in conjunction with desiccant or deliquescent dryers for the removal of up to 90% moisture.
- In high-humidity environments, for maximum blasting productivity and reduced abrasive wastage.

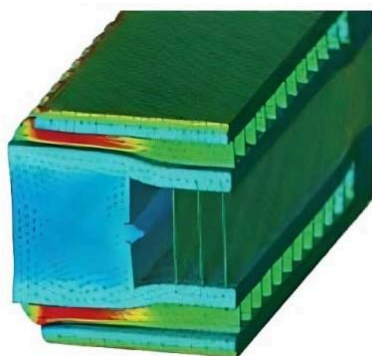
## Technological Advantages



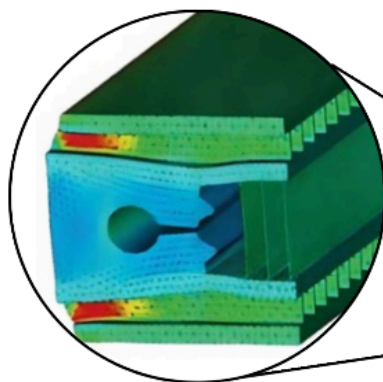
- High-performance bar & plate technology.
- Up to 60% smaller than conventional fin and tube designs.
- Fin spacing allows uniform air distribution while resisting choking of dust/dirt.
- Reduced Air side fouling.
- 99% efficient moisture separator.
- Well-suited for harsh environments. The fin system prevents clogging and is easy to clean.
- Compact and robust design, field-tested during many years of use in rugged, real-life conditions.

## Hollow Profile Advantages

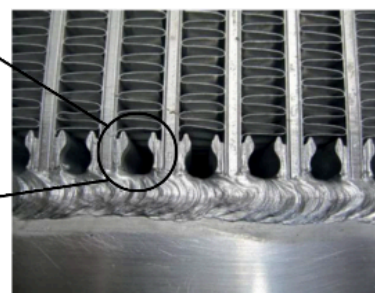
- Reduced Strain: According to strength calculations, the maximum strain is reduced to 2.
- Prolonged Service lifetime: Service life time increases by a factor ranging from 3 to 5.



With Standard Profile  
(for normal Aftercoolers)



With Hollow Profile  
(for Blastline Aftercoolers)



## Technical Data

Model	Internal Max Air flow (CFM)	Compressor Horsepower used
BL AC 54	539	50-75 HP
BL AC 80	785	100-125 HP
BL AC 120	1200	125-160 HP
BL AC 160	1569	150-200 HP
Common Specifications		
Ambient Temperature	-15°C ~ +55°C	
Max. Inlet Temperature	125°C	
Altitude	~ 1000m ASL	
Delta T (Above Ambient)	~ 9°C	
Max. Operating Pressure	250 Psi	