

Water Cooled Aftercooler - Fixed Tube Bundle



Standard Scope of Supply

Water cooled with **fixed** cooling tubes

-Shell and tube Heat exchanger

Compressed air through the tube, cooling water around tube in counterflow

-Treated carbon steel vessel, copper tubes, aluminium baffles

-High efficiency water separator

-Automatic float drain

- Mounted thermometer (from WBC180)

-Counter flanges (from WBC 180)

Codes

- Compliance to PED97/23/EC

Operating Limitations

- Air inlet temperature : Max 200° C

- Max inlet water temperature 90C

- Ambient : Min 2°C

NOTE : For application with oil free air, contact Business Centre for additional pricing. Additional internal coating required.

Fixed Tubes Model	Capacity ¹	Operating Pressure bar(g)	Water Flow Rate m3/hour	Air In / Out Connections	Water		Weight (kg)
	m ³ /min				In / Out	Connections	
WBC-12 FH/V ⁴	1.2	0.5 - 16	0.60	3/4" BSP	3/8 " BSP		3.7
WBC-35 FH/V ⁴	3.5	0.5 - 16	0.80	1 1/2 " BSP	1/2 " BSP		7.8
WBC-65 FH/V ⁴	6.5	0.5 - 16	1.50	1 1/2 " BSP	3/4" BSP		10.8
WBC-90 FH/V ⁴	9	0.5 - 16	5.50	2 " BSP	3/4" BSP		14.8
WBC-135 FH/V ⁴	13.5	0.5 - 16	3.50	2 " BSP	3/4" BSP		20
WBC-180 FH	18	0.5 - 12	5.00	DN80	1 " BSP		50
WBC-270 FH	27	0.5 - 12	8.00	DN100	1 1/4" BSP		96
WBC-360 FH	36	0.5 - 12	8.80	DN100	1 1/4" BSP		102
WBC-500FH	50	0.5 - 12	5.00	DN125	1 1/4" BSP		139
WBC-600FH	60	0.5 - 12	6.00	DN150	1 1/4" BSP		187
WBC-900FH	90	0.5 - 12	7.60	DN200	1 1/4" BSP		269

Options

WBC-180 FV to 900 FV: Please check with IR

WBC-180 FH/V to 900 FH/V for 16 bar a (PED approved).

1. Performance given is based on the following reference conditions:

- Ambient pressure equal to 1 bar(a)
- Ambient temperature equal to 25°C
- Ambient relative humidity equal to 60%
- air inlet pressure equal to 7 bar(g)
- Inlet air temperature equal to 120°C
- Outlet air temperature approximately 10°C above water inlet at reference conditions

2. Standard CPN must not be used if any options are selected.

3. FH/V = Fixed cooler tube . Horizontal or vertical arrangement

FH = Fixed cooler tube. Horizontal only

4. WBC-12 FH/V to 135 FH/V: These models are factory assembled as horizontal versions, but include a separator connection elbow kit to convert them to a vertical version as standard