

Aftercooler for compressed air and gases UFK-W, water-cooled

The aftercooler UFK-W is designed to cool compressed air, but can be used for other gases as well.



Product description:

The UFK-W as an additional piece of equipment after the compressor supports an efficient and economical purification of compressed air.

The cooler works in a counterflow procedure where the hot compressed air is cooled down by eliminating heat over the cooling tubes to the cooling water. The generated condensate will be drained by a cyclone separator.

This product series offers 9 different housings ranging from a volume flow of 100 to 5000 m³/h with fixed nest of boiler tubes and 9 different sizes for a volume flow of 450 to 10500 m³/h. with removable nest of boiler tubes (related to 7 bar g).

Features:

The Aftercooler can be delivered with fixed nest of boiler tubes as well as with moveable nest of boiler tubes. Furthermore all aftercoolers are equipped with a cyclone separator. The coolers consist of enlarged surface insertions made out of copper. The shell, the pipes and the flanges are made of steel.

Technical Data

Materials:	
Housing	Steel
Radiator tube bundel	Copper
Shell, pipes and flanges	Steel
Surface finish	Polyester resin coating

Maximum operating pressure:	
0100 - 5000	16 bar
0450 Z - 5000 Z	16 bar
7000 Z - 10500 Z	10 bar

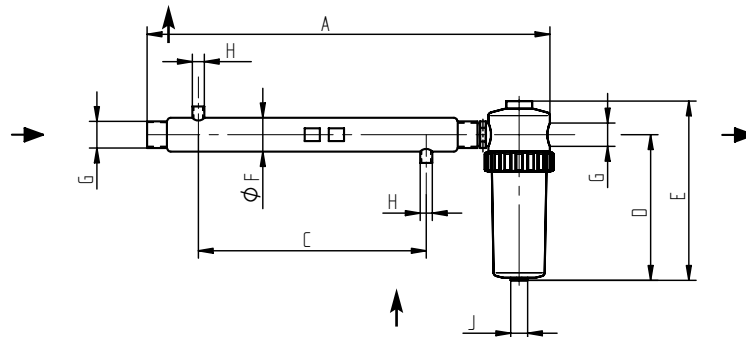
Maximum operating temperature:	
Air, inlet:	200°C
Water, inlet:	90°C
Separator:	65°C

Aftercooler:	
0100-5000	with fixed nest of boiler tubes for clean cooling water
0450 Z-10500 Z	with moveable nest of boiler tubes for dirty cooling water

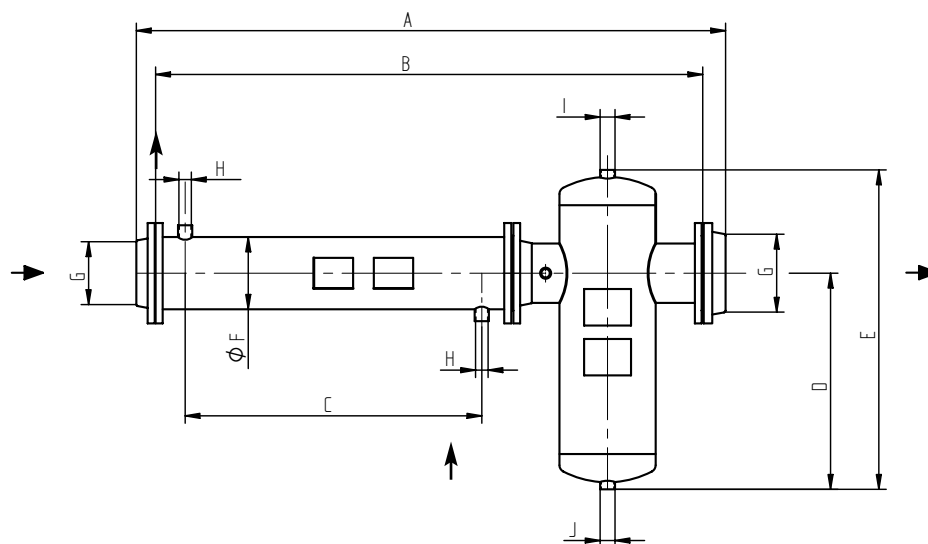
Annotation:
The nominal volume flow is related to 20°C inlet temperature at 50% relative humidity with an air outlet temperature of 120°C and a difference of the temperature between air outlet and water inlet of 10°C.

Aftercooler UFK-W 0100-5000

Typ 0100 - 1000



Typ 1650 - 5000

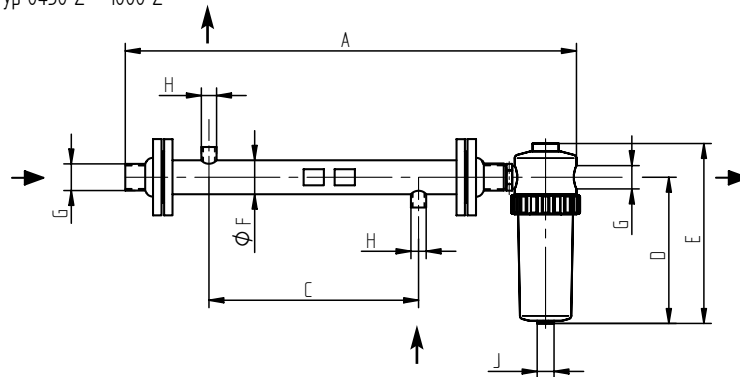


Max. working pressure:	
0100-5000:	16 bar
Test pressure:	
0100-5000:	24 bar
Max. operating temperature:	
Air, inlet:	200°C
Water, inlet:	90°C
Separator:	65°C
Paint coat:	Polyester resin coating

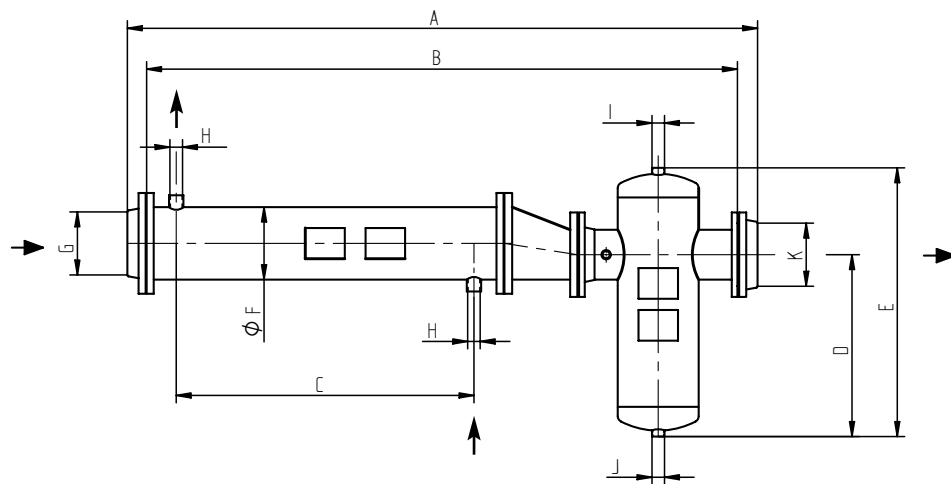
Size	Weight (kg)	A mm	B mm	C mm	D mm	E mm	F mm	G	H	I	J	Filter-housing
0100	5,3	935	-	600	290	355	42,4	G 1	G 3/8	-	G 1/2	AG-Z 0375
0300	12,3	985	-	600	395	355	60,3	G 1 1/2	G 1/2	-	G 1/2	AG-Z 0750
0450	17,7	1050	-	600	395	355	88,9	G 2	G 3/4	-	G 1/2	AG-Z 1000
0650	18,7	1050	-	600	395	355	88,9	G 2	G 3/4	-	G 1/2	AG-Z 1000
1000	37	1715	-	1100	495	580	114,3	G 2 1/2	G 1	-	G 1	AG-Z 1650
1650	78	2000	1895	1100	505	690	139,7	DN 80	G 1	G 1	G 1	SG-Z 1650
2250	115	1860	1745	1100	625	840	168,3	DN 125	G 1 1/4	G 1	G 1	SG-Z 2750
3500	165	1960	1845	1100	750	1000	193,7	DN 150	G 1 1/4	G 1	G 1	SG-Z 5000
5000	226	2090	1955	1100	925	1240	244,5	DN 200	G 1 1/4	G 2	G 2	SG-Z 7500

Aftercooler UFK-W 0450 Z-10500 Z

Typ 0450 Z - 1000 Z



Typ 1650 Z - 10500 Z



Max. working pressure:	
0450-5000 Z:	16 bar
7000-10500 Z:	10 bar
Test pressure:	
0450-5000 Z:	24 bar
7000-10500 Z:	15 bar
Max. operating temperature:	
Air, inlet:	200°C
Water, inlet:	90°C
Separator:	65°C
Paint coat:	Polyester resin coating

Size	Weight (kg)	A mm	B mm	C	D mm	E mm	F mm	G	H	I	J	K	Filter housing
0450	35,2	1080	-	520	395	470	88,9	G 2	G 3/4	-	G 1/2	-	AG-Z 0750
0650	36,2	1080	-	520	395	470	88,9	G 2	G 3/4	-	G 1/2	-	AG-Z 1000
1000	55	1705	-	1050	495	580	114,3	G 2 1/2	G 1	-	G 1	-	AG-Z 1650
1650	110	1975	1870	1300	505	690	139,7	DN 80	G 1	G 1	G 1	DN 80	SG-Z 1650
2250	160	1855	1740	1050	625	840	168,3	DN 125	G 1 1/4	G 1	G 1	DN 125	SG-Z 2750
3500	222	1955	1840	1050	750	1000	193,7	DN 150	G 1 1/4	G 1	G 1	DN 150	SG-Z 5000
5000	323	2140	1950	1050	925	1000	244,5	DN 200	G 1 1/4	G 2	G 2	DN 200	SG-Z 7500
7000	391	2290	2155	1050	925	1240	273	DN 250	G 1 1/2	G 2 1/2	G 2	DN 200	SG-Z 7500
10500	550	2475	2330	1050	1220	1600	323,9	DN 300	G 2	DN 100	G 2	DN 200	SG-Z 10500