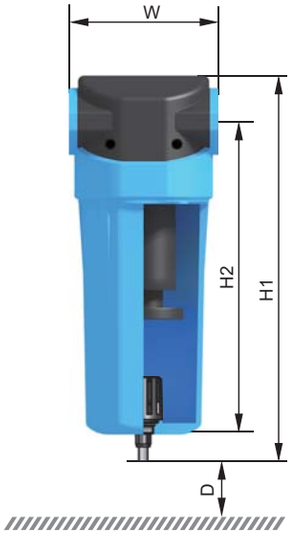
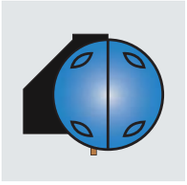
Condensate separator

Condensate separators are designed for high efficient removal of bulk liquids from compressed air and vacuum systems. Inside the housing there is an insert with vanes that creates controlled rotation of the air.
As a result of centrifugal action, liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the filter housing prevents condensate from being picked up and "carried over" into the airstream. To discharge condensate from the cyclone separator it is essential to install automatic or electronic condensate drain.

TECHNICAL DATA								
Filter housing size	Pipe size	Max. oper. Press.	Flow rate at 7 bar(g) 20 °C	Temperature oper.range	Dimensions [mm]			
	inch	[bar]	Nm^3/h	°C	W	H1	H2	D
US 60	G 1/2"	16	60	1.5-65	95	220	197	95
US 78	G 3/4"	16	78	1.5-65	95	220	197	110
US 120	G 3/4"	16	120	1.5-65	95	280	257	145
US 198	G 1"	16	198	1.5-65	125	315	290	185
US 510	G 1 1/2"	16	510	1.5-65	125	400	370	230
US 1000	G 2"	16	1000	1.5-65	170	700	658	570
US 1500	G 2 1/2"	16	1500	1.5-65	200	995	938	570
US 2160	G 3"	16	2160	1.5-65	200	995	938	700





quality class - solids (ISO 8573-1)	
quality class - water (ISO 8573-1)	8
quality class - oils (ISO 8573-1)	
efficienty	>98%

Specification	Value
operating pressure	2 to 16 bar
connections	1/2" to 3"
volume flow rate	60 to 2160 Nm^3/h
operating temperature range	1.5 to 65°C
standard colour:	RAL 5015

CORRECTION FACTORS															
Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13

Outlet flow 7 bar(g) x Correction factor at different operating pressure = Outlet flow at different operating pressure.