

AH Series

Air-Oil Cooler
Flow: 60L/min to 350L/min



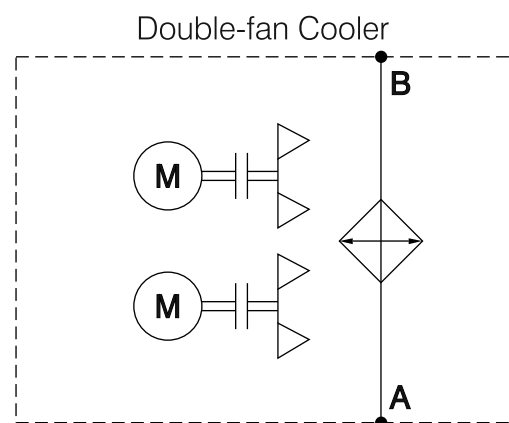
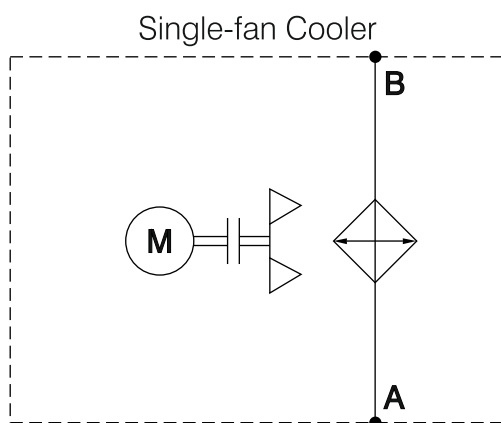
Index	Page No
• Introduction	02
• Symbol	02
• Ordering code	03
• Technical data	04
• Characteristic curves	05 - 06
• Unit dimensions	07 - 10



Introduction

- **Application:**
- **Applicable for:** The cooling of the discharge pipe of variable pump, return pipe of hydraulic system, independent cooling circuit and lubricating system.
- **Used in:** Machines tools, Special-purpose machinery, engineering machinery, tunnel and port machinery, hydraulic power station and lubricating system.
- **Product Characteristics:**
- The product is designed to achieve the best cooling effect with 35bar dynamic rated pressure, high-performance electronic axial flow fan and tightly structured high-efficiency fan.
- Single-fan cooling or double-fan cooling is available according to the heat generation of the system.
- Standard for oil inlet and outlet: PT (RC) screw thread, other threads can be custom-made.
- **Operating voltage:** AC 110V, AC 220V, AC 380V, DC 12V and DC 24V.
In case that special voltage is required, please contact THM

Symbol





Ordering code

	AH	1012	**	-	FM	A2	-	**	-	10
AH Series Air Oil Cooler		= AH								
Sizes:										
0608, 1012, 1417, 1470, 1490, 1680, 1890										
0608L, 0845L, 1012L, 1470L, 1680L, 1890L		= 1012								
Fan Quantity:										
Single Fan (Standard type)		= No code								
Double Fan		= L								
Drive type:										
Axial flow fan drive				= FM						
Voltage:										
DC 12V					= D1					
DC 24V					= D2					
AC 110V					= A1					
AC 220V/230V					= A2					
AC 380V/415V					= A3					
Frequency:										
50Hz						= No code				
60Hz						= 60				
Wind direction:										
Wind suction type(standard type, default)									= 10	
Wind Blowing type									= 20	



Technical data

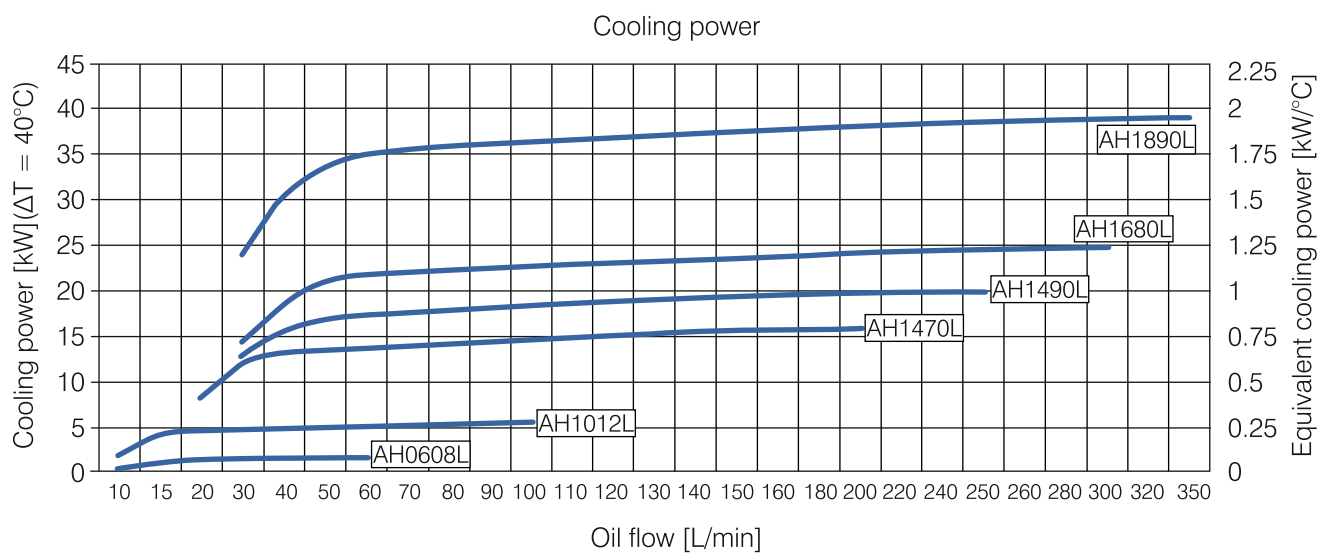
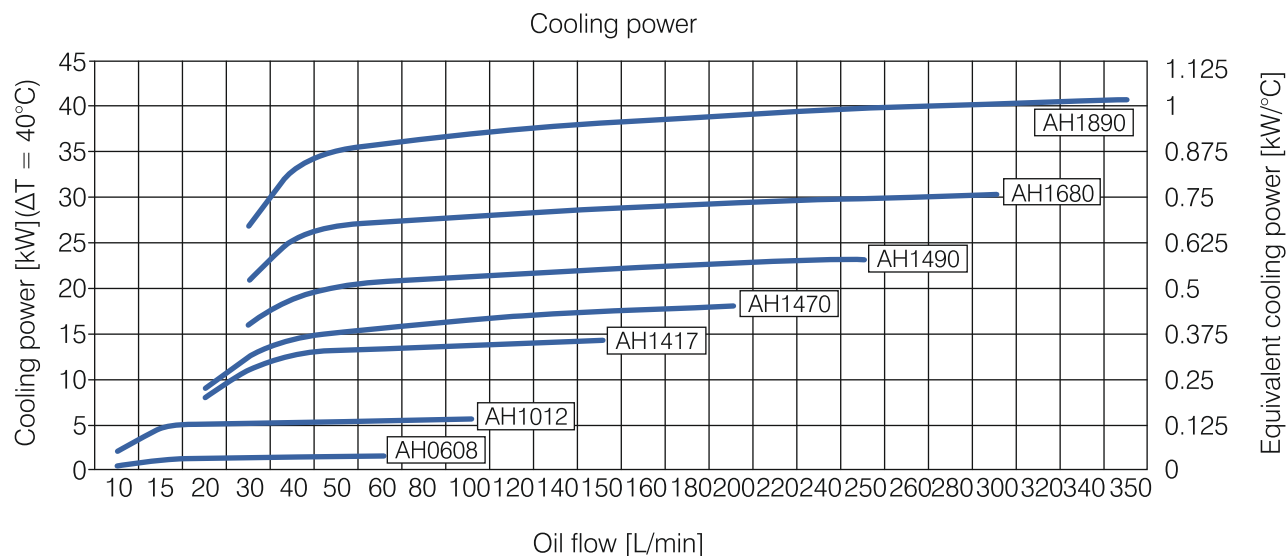
Cooler type	Maximum flow (l/min)	Working pressure (Bar)	Cooling Capacity (KW)	Power Consumption(W)		Fan rotating speed (rpm)	Noise (dB)	Maximum oil temperature (°C)	Maximum Viscosity (mm ² /s)	Weight (kg)
				AC fan (AC220V)	AC fan (AC380V)					
AH0608-FM	60	35	1.39	38	45	2700	50	130	2000	6
AH1012-FM	100	35	5.47	60	60	1300	65	130	2000	15
AH1417-FM	150	35	14	130	115	1420	69	130	2000	25
AH1470-FM	200	35	17.9	130	115	1420	69	130	2000	28
AH1490-FM	250	35	23.3	130	115	1420	69	130	2000	35
AH1680-FM	300	35	30.2	160	135	1400	73	130	2000	42
AH1890-FM	350	35	40.7	250	200	1400	75	130	2000	48
AH0608L-FM	60	35	3	38*2	45*2	2700	53	130	2000	11
AH0845L-FM	80	35	5.4	60*2DC	60*2DC	3000	60	130	2000	12
AH1012L-FM	100	35	12.3	60*2	60*2	1300	68	130	2000	25
AH1470L-FM	200	35	31.4	130*2	115*2	1420	72	130	2000	48
AH1490L-FM	250	35	40	130*2	115*2	1420	72	130	2000	55
AH1680L-FM	300	35	49.4	160*2	135*2	1400	76	130	2000	70
AH1890L-FM	350	35	77.9	250*2	200*2	1400	78	130	2000	97

- Cooling capacity: cooling power at $\Delta T = 40^{\circ}\text{C}$.
- Different power consumption is available under various voltages. This table only takes AC220V-50Hz and AC380V-50Hz as examples.
- Axial flow fan type: the standard type is wind suction type, Ip44, Ip54, F-class insulation, complying with CE standard.
- Medium: mineral oil, complying with DIN 51524. For other media please contact us.
- Noise value given in the table is measured at 1m, which is for reference only because it may be influenced by ambient environment, viscosity and reflection and other factors.



Characteristic curves

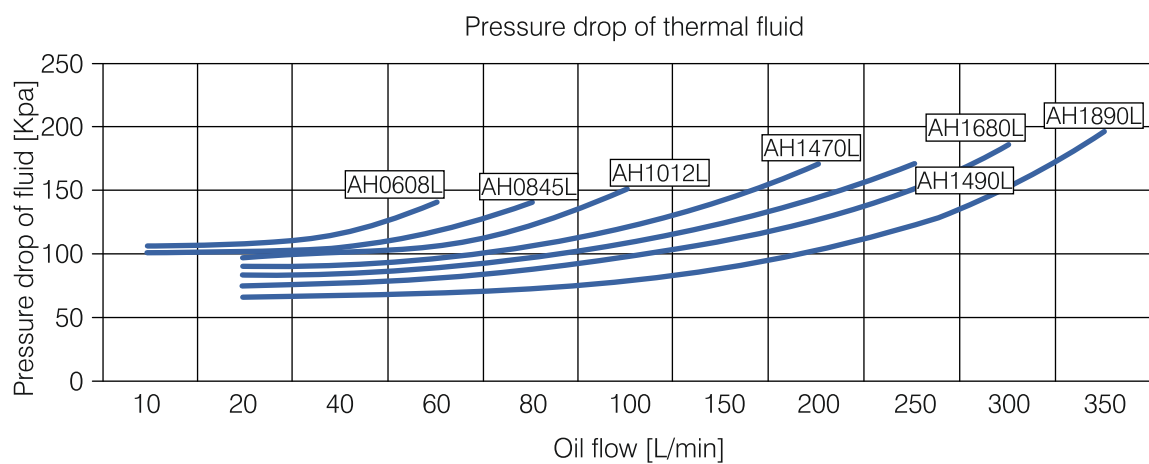
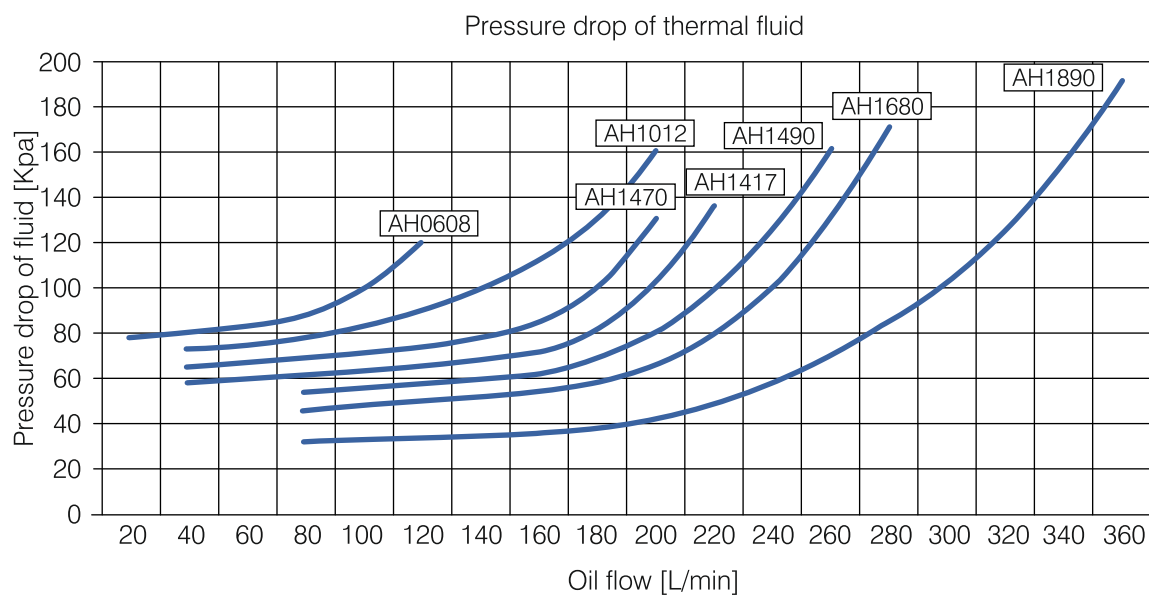
- Characteristics of cooling power - AH AC Series





Characteristic curves

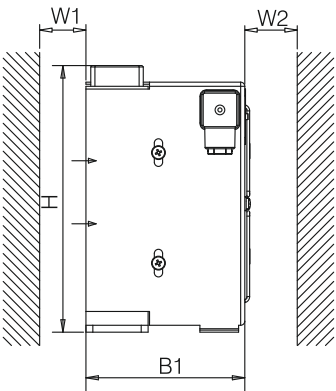
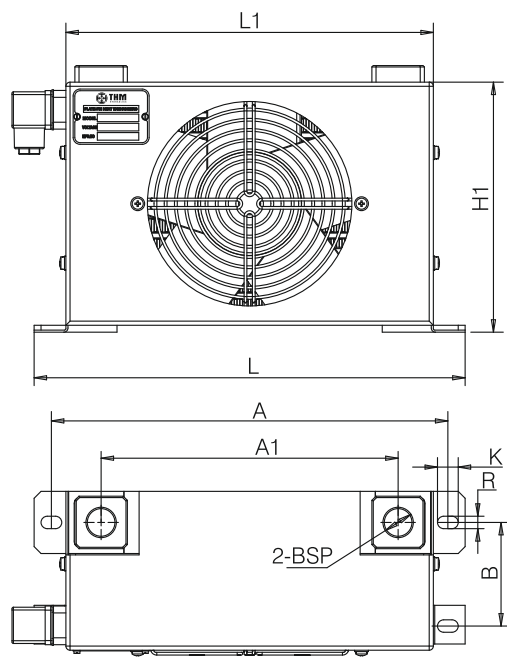
- Characteristics of pressure loss - AH AC Series





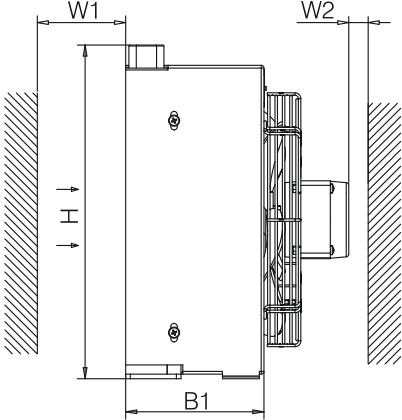
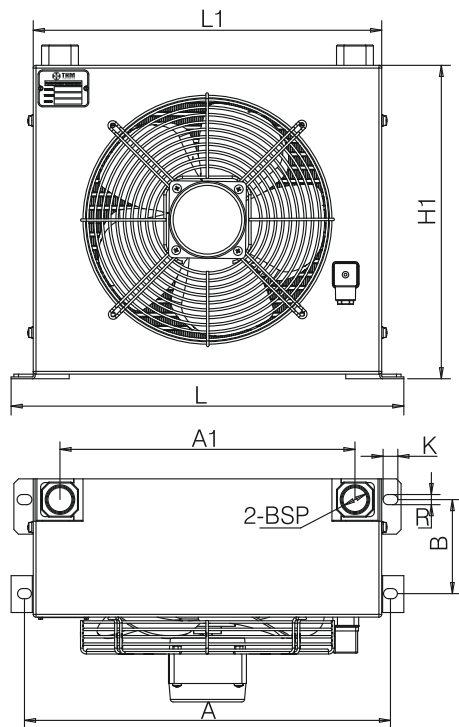
Unit dimensions

(Dimensions in mm)



Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	B	B1	H	H1	L	L1	K	R	BSP	W1	W2
AH0608-FM	280	215	75	115	193	181	305	266	15	9	3/4"	76	152



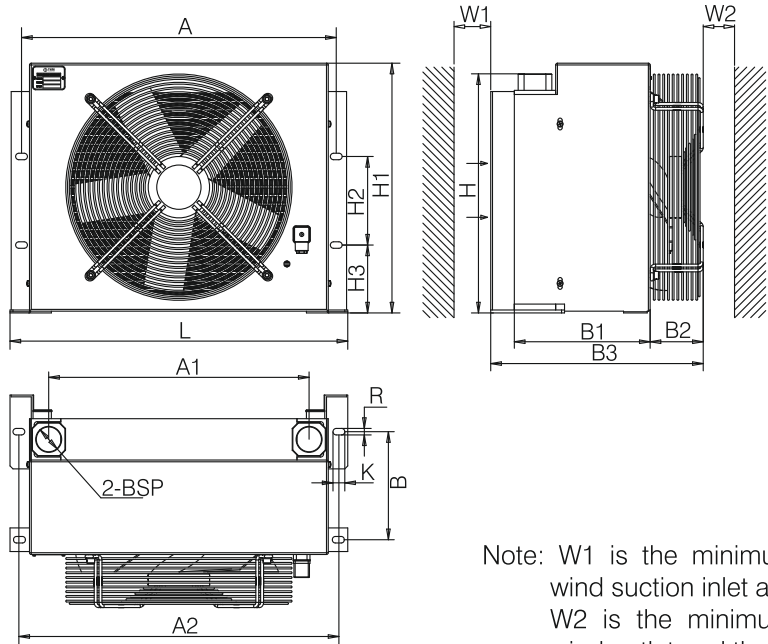
Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	B	B1	H	H1	L	L1	K	R	BSP	W1	W2
AH1012-FM	397	320	102	150	362	340	426	378	16	11	1"	127	254



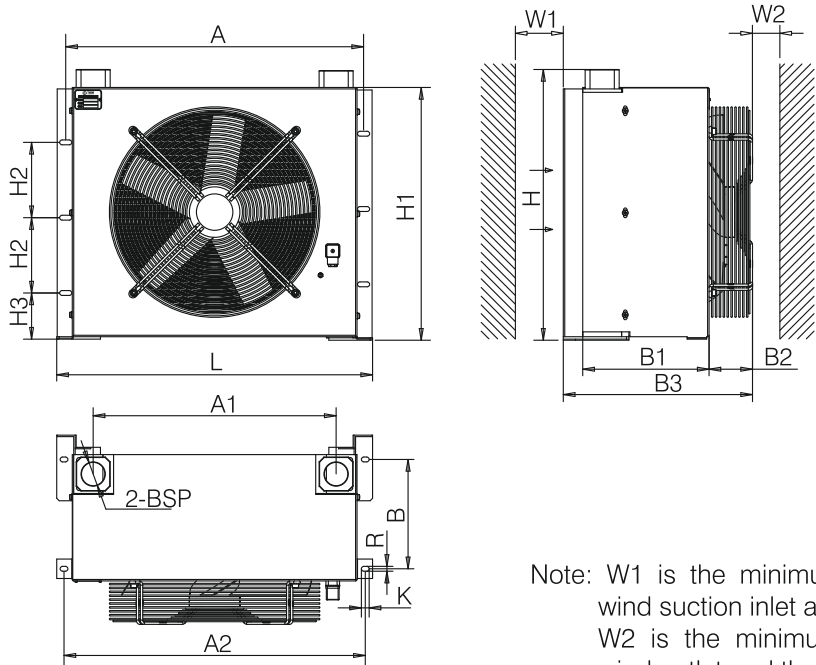
Unit dimensions

(Dimensions in mm)



Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	A2	B	B1	B2	B3	H	H1	H2	H3	L	K	R	BSP	W1	W2
AH1417-FM	535	445	540	162	215	90	345	405	422	150	115	572	20	11	1"	178	356
AH1470-FM	535	440	540	183	230	90	360	405	422	150	115	572	20	11	1-1/4"	178	356
AH1490-FM	593	470	600	193	250	80	370	445	408	180	115	630	16	10	1-1/2"	178	356
AH1890-FM	688	560	694	230	305	90	435	558	555	270	125	734	25	13	1-1/2"	229	457



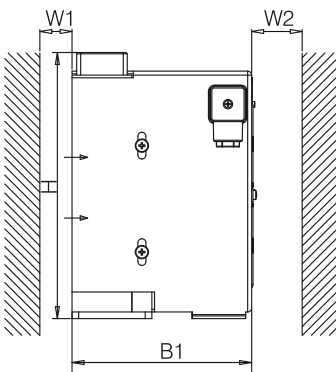
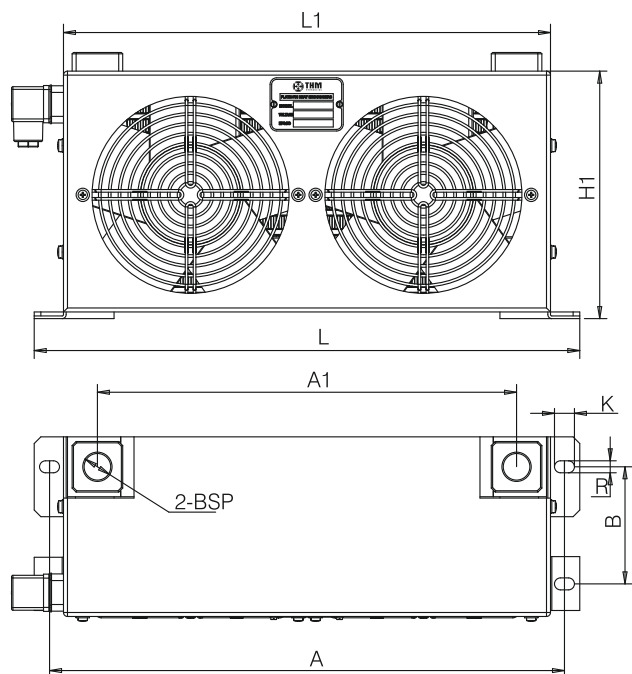
Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	A2	B	B1	B2	B3	H	H1	H2	H3	L	K	R	BSP	W1	W2
AH1680-FM	615	500	620	225	260	90	390	555	518	155	115	650	16	10	1-1/2"	203	406



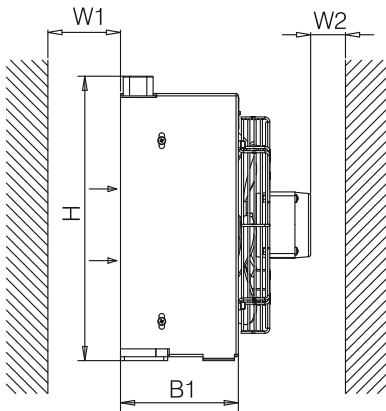
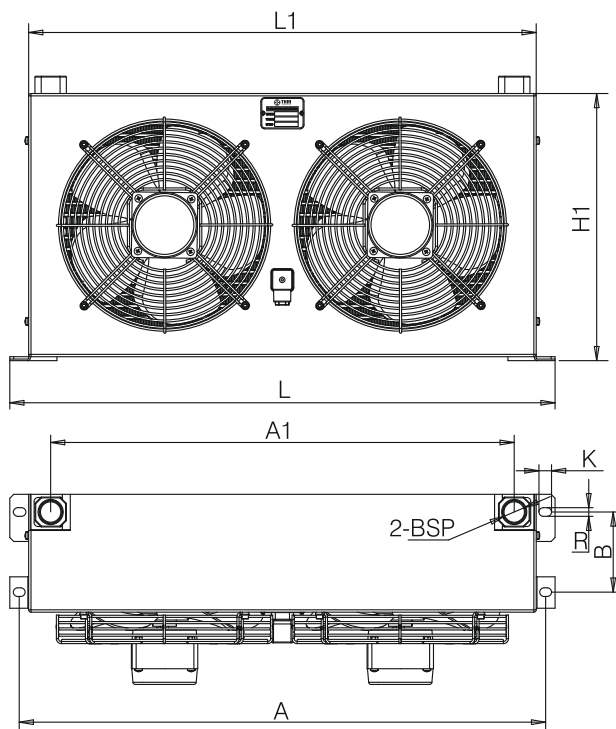
Unit dimensions

(Dimensions in mm)



Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	B	B1	H	H1	L	L1	K	R	BSP	W1	W2
AH0608L-FM	385	315	88	135	200	186	410	366	15	9	3/4"	76	152



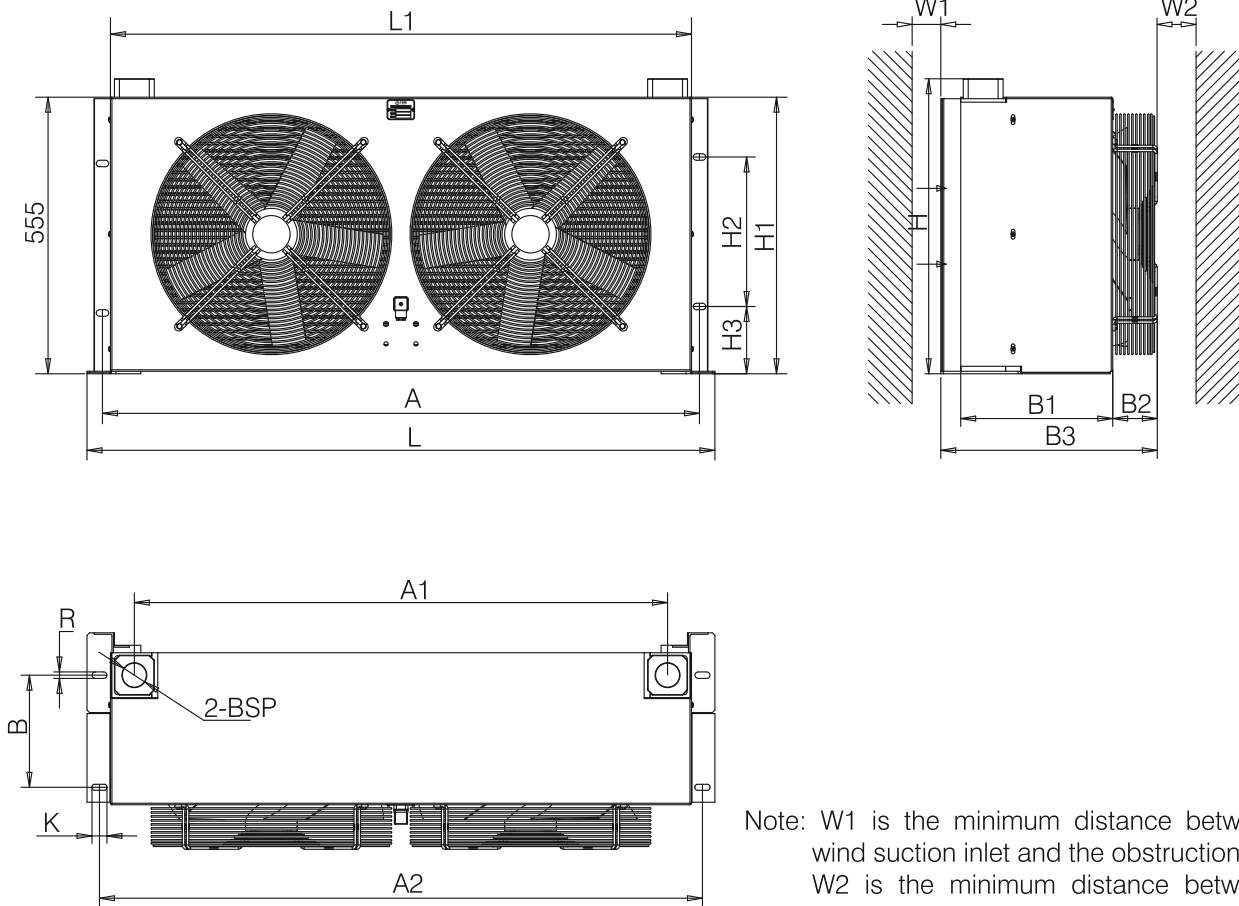
Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	B	B1	H	H1	L	L1	K	R	BSP	W1	W2
AH1012L-FM	670	590	102	150	362	340	694	646	16	11	1"	127	254



Unit dimensions

(Dimensions in mm)



Note: W1 is the minimum distance between the wind suction inlet and the obstruction.
W2 is the minimum distance between the wind outlet and the obstruction.

Type	A	A1	A2	B	B1	B2	B3	H	H1	H2	H3	L	L1	K	R	BSP	W1	W2
AH141 7L-FM	833	741	842	183	230	83	354	405	423	150	115	872	806	20	11	1-1/4"	178	356
AH149 0L-FM	893	770	900	193	250	90	380	445	408	180	115	930	866	15	10	1-1/2"	178	356
AH168 0L-FM	933	820	940	225	260	90	390	555	518	250	130	970	906	16	10	1-1/2"	203	406
AH189 0L-FM	1198	1070	1210	225	305	90	434	592	555	300	135	1260	1166	30	13	1-1/2"	229	457

