TSH Series

Air Oil Cooler for
Mobile, agriculture, construction machinery etc.
Rated Flow: 100～1000 L/min
Maximum Working Pressure up to 20 Bar

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Applications

- Mobile, agriculture, construction machinery etc.
- Suitable for mobile hydraulic systems or high-power cooling without AC power.

Features

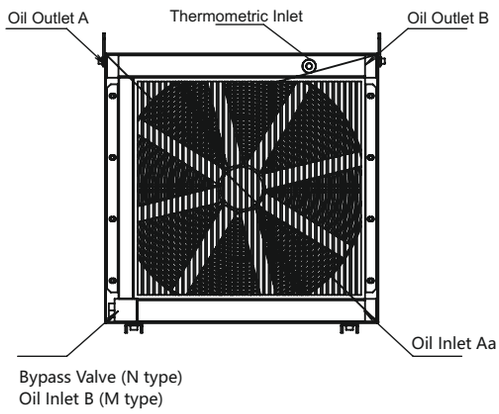
- Standard models include built-in pressure relief valve.
- High strength fiber/nylon blade, dynamic balance correction.

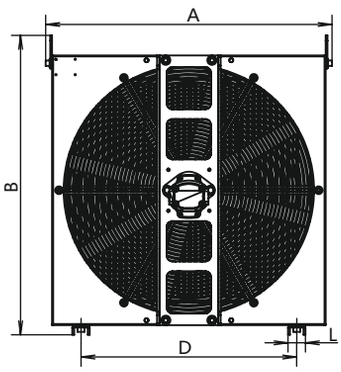
Technical Parameters

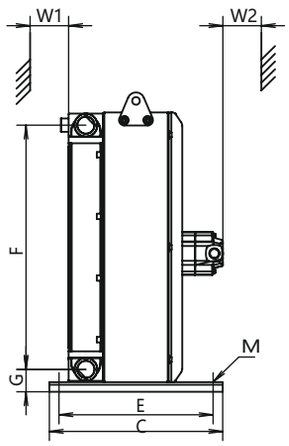
Model NO	TSH-3	TSH-4	TSH-5	TSH-6	TSH-7	TSH-8	TSH-9	TSH-10	TSH-11	TSH-12	TSH-13	TSH-14	TSH-15
Equivalent cooling power (KW/℃)	0.21	0.37	0.51	0.62	1.21	1.4	1.75	2.5	3.4	3.8	5	5.4	6.5
Rated flow (L/min)	100	150	200	250	300	350	400	500	600	700	800	900	1000
Max. working pressure (bar)	20	20	20	20	20	20	20	20	20	16	16	16	16
Motor displacement (ml/rev)	6	10	10	16	16	20	20	25	25	20x2	20x2	25x2	25x2
Max. motor pressure (Mpa)	21	21	21	21	21	21	21	16	16	21	21	16	16
Max. motor speed	2800	2800	2800	2800	2800	2800	2800	2600	2600	2800	2800	2600	2600
Motor inlet and outlet thread	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	SAE-C-1-1/4	SAE-C-1-1/4	M22x1.5	M22x1.5	SAE-C-1-1/4	SAE-C-1-1/4
Motor drain thread	G¼"	G¼"	G¼"	G¼"	G¼"	G¼"	G¼"	M14X1.5	M14X1.5	G¼"	G¼"	M14X1.5	M14X1.5
Inlet&Outlet thread	G1"	G1¼"	G1¼"	G1¼"	G1¼"	G1½"	G1½"	G1½"	G 1½	G2"	G2"	G2"	G2"
Thermometric thread	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"	G3/8"
Noise level (dB)	65	65	68	70	74	80	84	87	92	94	84	86	90

- The noise value is measured at a distance of 1m from the cooler, which is only for referenceBecause it is affected by the surroundina environment, medium viscosity and reflection.

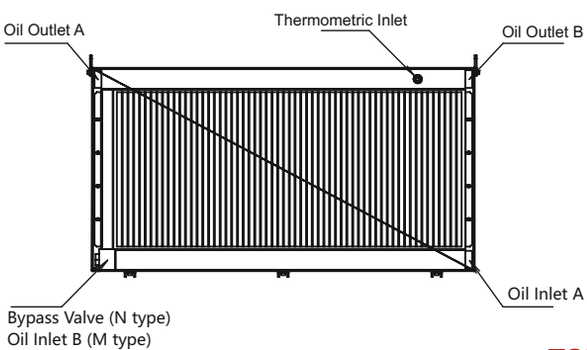
Unit Dimensions

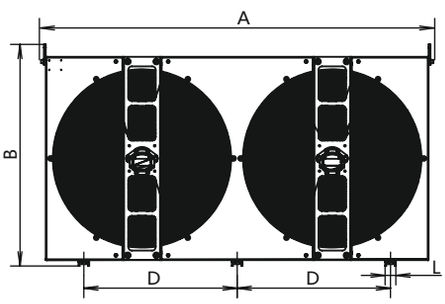


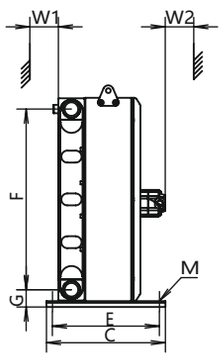




TSH3-DXH11







TSH12-DXH15

Model NO	TSH-3	TSH-4	TSH-5	TSH-6	TSH-7	TSH-8	TSH-9	TSH-10	TSH-11	TSH-12	TSH-13	TSH-14	TSH-15
A (±5)	427	532	587	632	632	752	837	972	1082	1442	1642	1842	2047
B (±5)	503	563	603	623	623	763	919	1059	1208	763	913	1043	1193
C (±2)	350	350	350	450	450	450	500	600	600	450	500	600	600
D (±2)	290	390	450	490	490	560	645	700	700	560	645	700	800
E (±2)	310	310	310	400	400	400	450	550	550	400	450	550	550
F (±5)	384	434	475	495	495	634	780	920	1070	600	760	900	1050
G (±5)	50	55	55	55	55	55	60	60	60	75	70	65	65
L (±2)	40	40	40	45	45	45	55	55	55	45	55	55	55
M	12x18	12x18	12x18	12x18	12x18	14x22	14x22	18x25	18x25	14x22	14x22	18x25	18x25
W1	180	200	220	250	280	320	380	400	500	320	380	400	500
W2	380	400	450	500	550	650	750	800	1000	650	750	800	1000

Ordering Code

TS - H - 8 - N - C - X - 0 - 0
1 2 3 4 5 6 7 8

1. Series
TS

2. Serial Number
H

3. Cooler Size Specifications
3/4/5/6/7/8/9/10/11/12/13/14/15

4. Bypass Valve
N = Internal Pressure Bypass Valve W = External Pressure Bypass Valve
M = No Bypass Valve

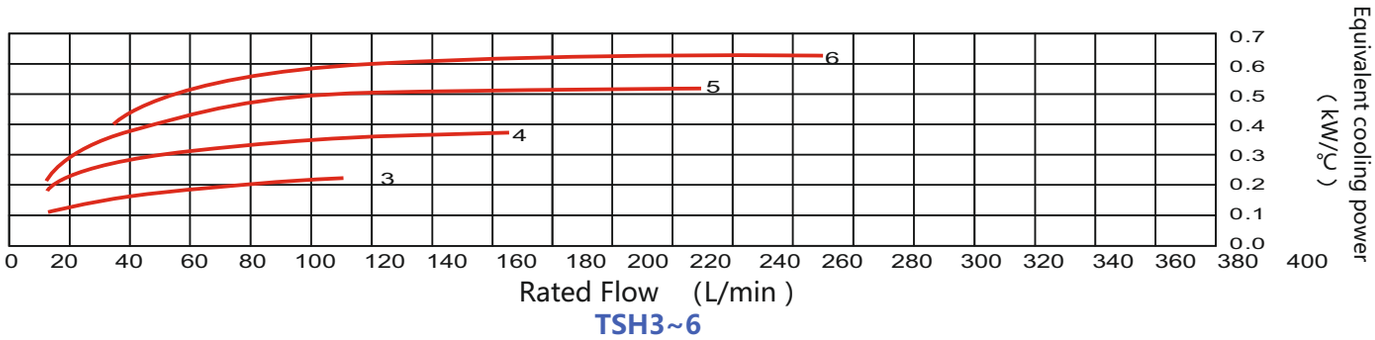
5. Oil Port Connection Direction
C = Side Inlet Side Outlet

6. Wind Direction
X = Suction Type C = Blowing Type

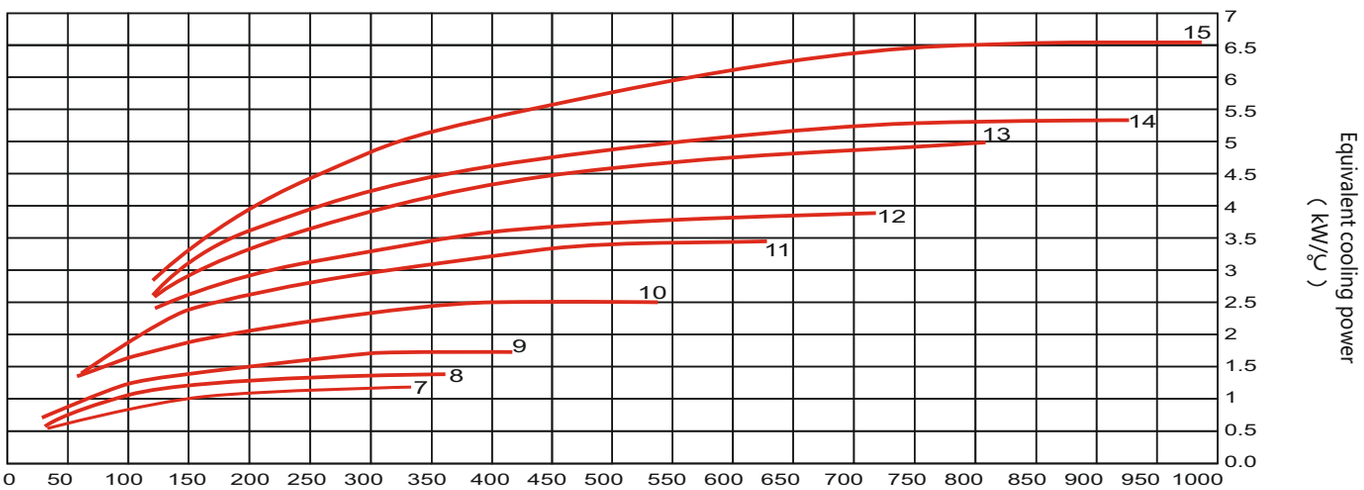
7.Temperature Controller
0 = No Controller T = Temperature Switch Action
Temperature T50 = 50℃, T60 = 60℃, T70 = 70℃
C = Temperature Transmitter C1 = Compact Type C2 = Digital Display Type

8.Radiator Protection
0 = No Protection S = Stone Guard C = Dust Guard

Dissipation Performance Diagram

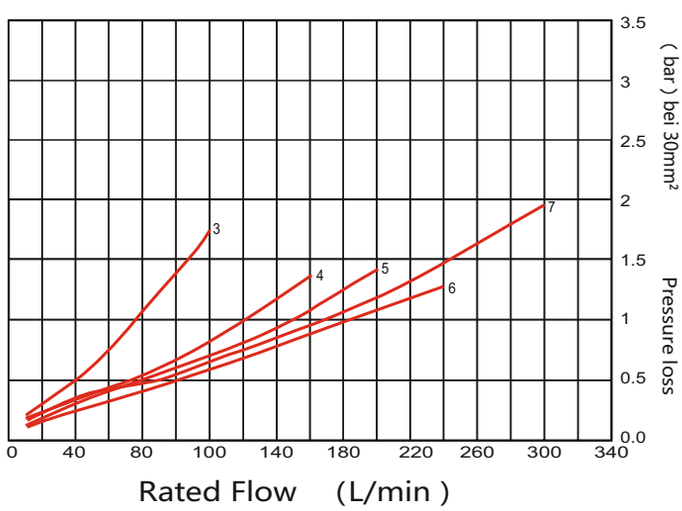


TSH3~6

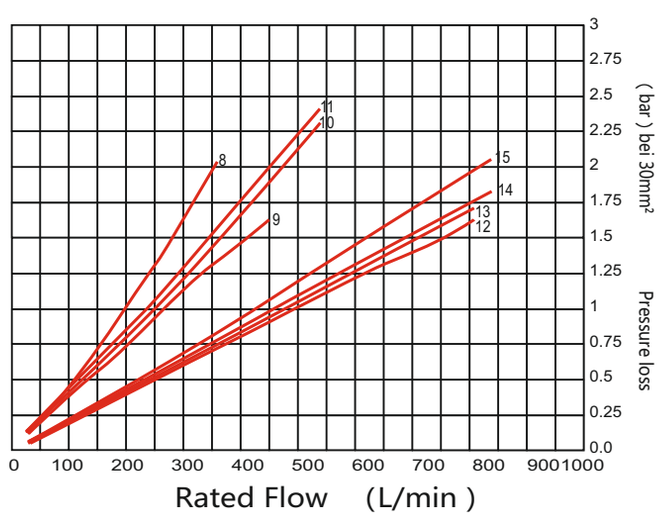


TSH7~15

Pressure Drop Diagram



TSH3~7



TSH8~15

The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

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