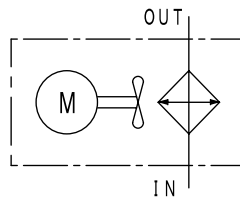


Air-Cooled type Oil Cooler with various line-up

Characteristics

- Various sizes suitable for application from hydraulic power units to large lubrication machines
- Various installation types are available: Horizontal, Vertical, and Built-in
- Fan motor is selectable from 3 phase AC 300V class and 400V class
- 2 pass model is available for small oil flow rate (ATS-30, 35, 40 only)



Air-cooled type cooler

SPECIFICATION

Max working pressure *2	MPa	1.0
Max working temperature	Inside of tube	°C 150
	Outside of tube	°C 50
Ambient conditions	Temperature	°C ATS-30~40 -10~50
		°C ATS-70~100 -30~50
	Relative humidity	% ≤RH90
	Place of installation	Indoor *3
Fluid type		Mineral oil, Water glycol fluid *4
Material	Radiator	Aluminum
	Case · Guard	Steel plate

Model code	306□-H	356□-H	406□-H	306□-V	356□-V	406□-V
Coating	Radiator	Black				
	Fan motor	Ivory				
	Case, Guard	Ivory				
Weight	kg 16	21	28	17	22	30

Model code	70101A-H	70101A-V	80101A-H	100101A-H
Coating	Radiator	Black		
	Fan motor	Ivory		
	Case, Guard	Ivory		
Weight	kg 113	113	140	240

Model code	Frequency (Hz)	Rated voltage (V)	Rated current (A)	Rated power (W)	Sound level *5 (dB)
ATS-306□ 200V class	50 / 60	200~220	0.21~0.23 / 0.20~0.21	25	38.5 / 41.5
ATS-306□ 400V class		380-400-415 / 380-400-440	0.10-0.10-0.104 / 0.094-0.10-0.10		
ATS-356□ 200V class		200~220	0.33~0.37 / 0.29~0.31	50	43.0 / 46.0
ATS-356□ 400V class		380-400-415 / 380-400-440	0.16-0.17-0.18 / 0.14-0.15-0.15		
ATS-406□ 200V class		200~220	0.63~0.75 / 0.52~0.56	100	47.0 / 51.0
ATS-406□ 400V class		380-400-415 / 380-400-440	0.29-0.32-0.33 / 0.25-0.26-0.28		
ATS-70101A 200V class		200~220	1.55~1.65 / 1.90~1.88	750	49.5 / 53.5
ATS-70101A 400V class		380-400-415 / 400~440	0.78-0.80-0.82 / 0.91~0.91		
ATS-80101A 200V class		200 / 200~220	5.60 / 5.30~5.50	1500	64.5 / 68.0
ATS-80101A 400V class		380-400-415 / 400~440	2.60-2.80-2.90 / 2.70~2.80		
ATS-100101A 200V class		200 / 200~220	5.80 / 6.30~6.30	2200	69.0 / 73.0
ATS-100101A 400V class		380-400-415 / 400~440	2.80-2.90-3.00 / 3.15~3.00		
Common to all models	Three phase, 4P, Built-in thermal protection (except 400V class and ATS-80101A/100101A), UL · TUV standard and other special spec are available				

MODEL CODE

(Model code example)

ATS — **3062** — M — **①** — **②** — **③** — **④**

〈ATS-30,35,40〉

〈ATS-70〉

〈ATS-80,100〉

Code	Heat transfer area	Pass number	Code	Heat transfer area	Pass number
3061	2.9m ²	1	70101A	32.8m ²	1
3062		2	80101A	41.5m ²	1
3561	4.5m ²	1	100101A	66.5m ²	1
3562		2			
4061	6.8m ²	1			
4062		2			

①Code	Installation type	②Code	Radiator guard	③Code	Fan guard	④Code	Motor voltage
H	Horizontal stand	R	Radiator guard	G	Fan guard	2	200V class
V	Vertical stand	N	Non	N	Non	4	400V class
N*6	No stand						

★ ATS-70, 80, 100 : Radiator and fan guard are included in standard equipment.

* 1 Only horizontal installation type for ATS-80, 100. * 2 Allowable pressure fluctuation range is within 0.3MPa when using in a hydraulic circuit with repeated pressure fluctuation. * 3 Please ask us in advance if you use in an environment with oil mists * 4 Please be sure that using fluid is not aluminum corrosive * 5 Noise value of fan motor only (from manufacturer's catalog). It is not from cooler assembly. * 6 Only for ATS-30, 35, 40.

PERFORMANCE GRAPH

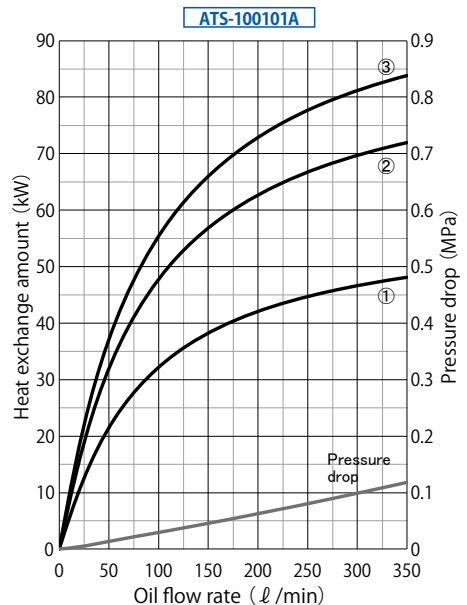
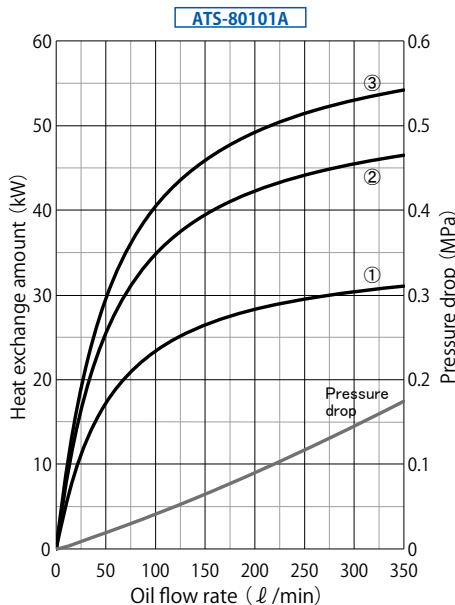
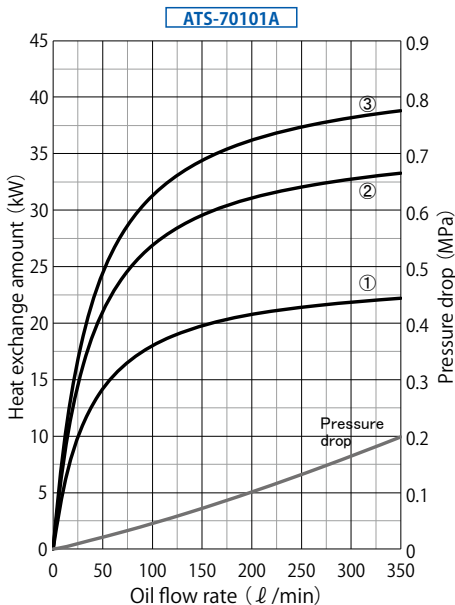
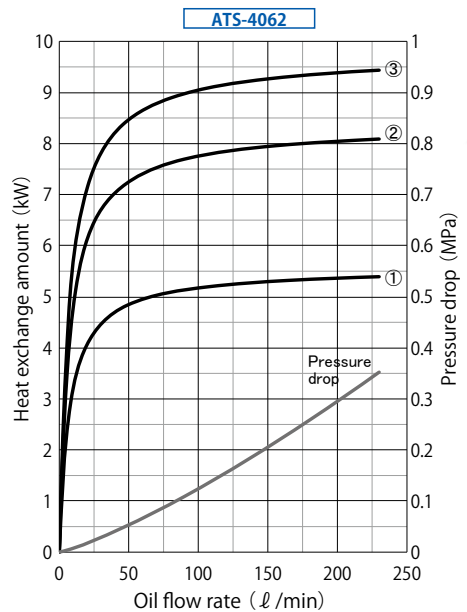
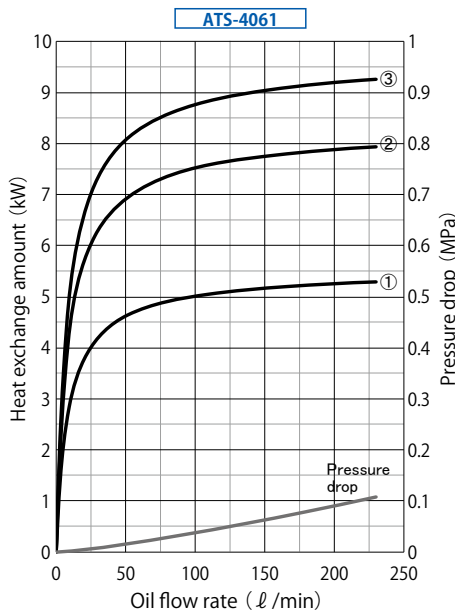
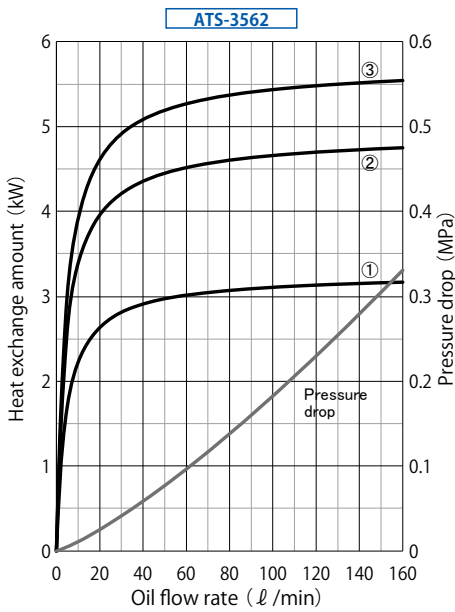
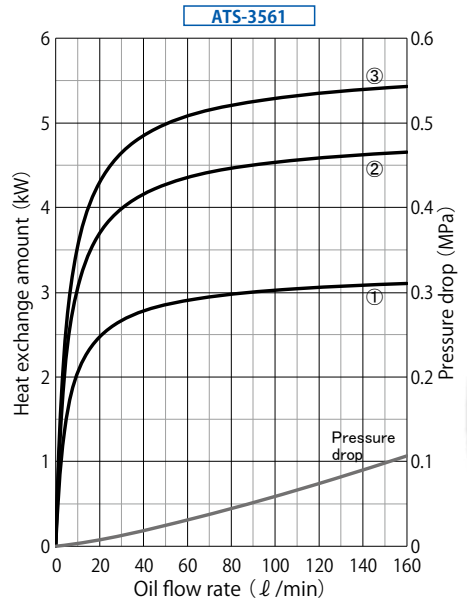
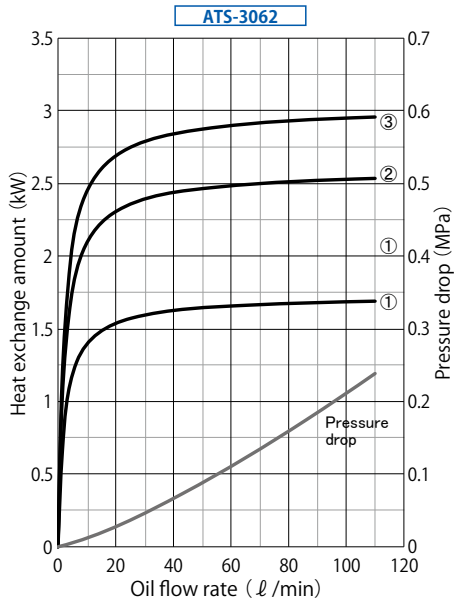
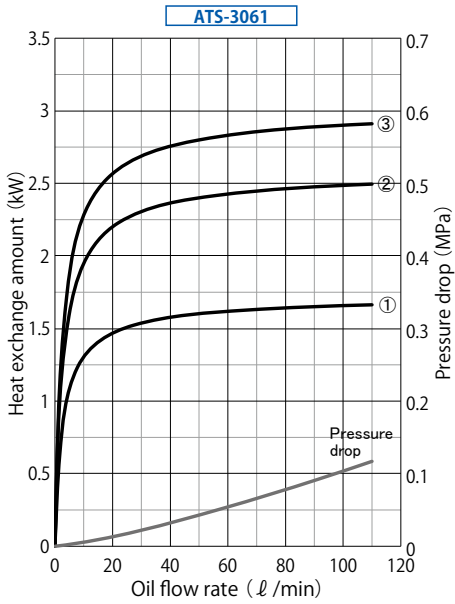
Condition

Fluid type	Corresponding to ISO VG32
Oil inlet temperature	°C ①Room temperature +20°C ②Room temperature +30°C ③Room temperature +35°C
Temp. of Pressure drop measurement	°C 55
Power frequency	Hz 50

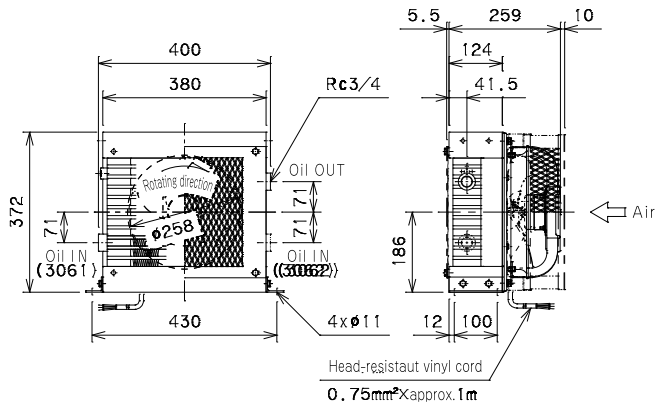
Allowable flow rate

Model code	ATS-306□	ATS-356□	ATS-406□	ATS-70101A	ATS-80101A	ATS-100101A
Flow rate	ℓ/min ~110	ℓ/min ~160	ℓ/min ~230	ℓ/min ~350	ℓ/min ~350	ℓ/min ~350

★ It is max value and It depends on each working condition.

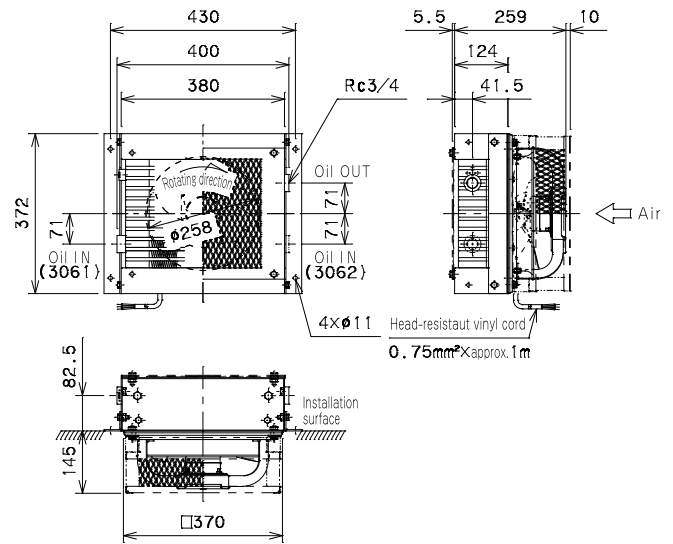


ATS-306□-MH□□□□



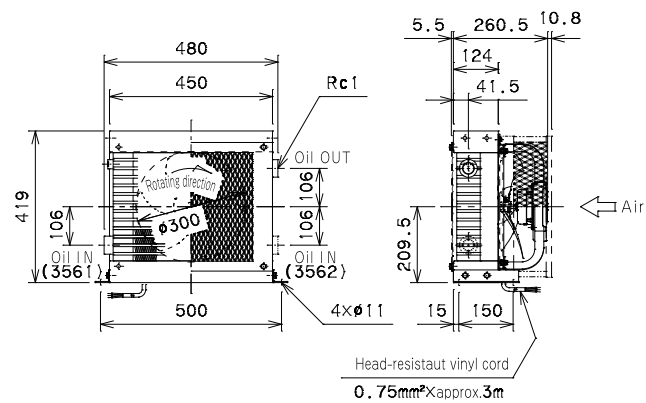
ATS-306□-MV□□□□

Unit : mm

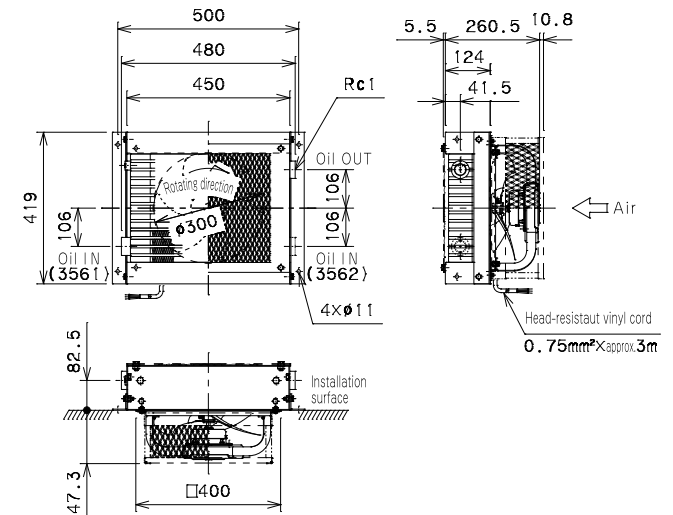


※ Opening size of installation surface should be larger than □370mm.

ATS-356□-MH□□□□

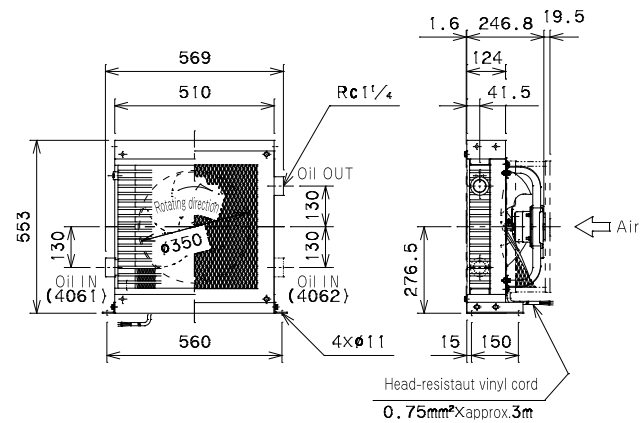


ATS-356□-MV□□□□

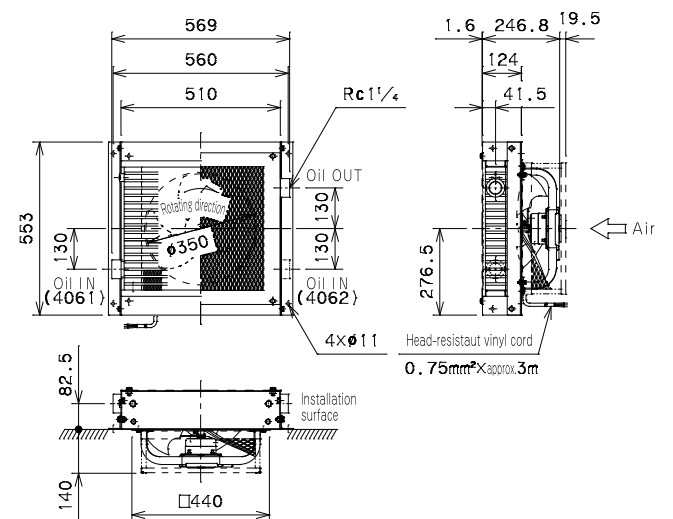


※ Opening size of installation surface should be larger than □400mm.

ATS-406□-MH□□□□

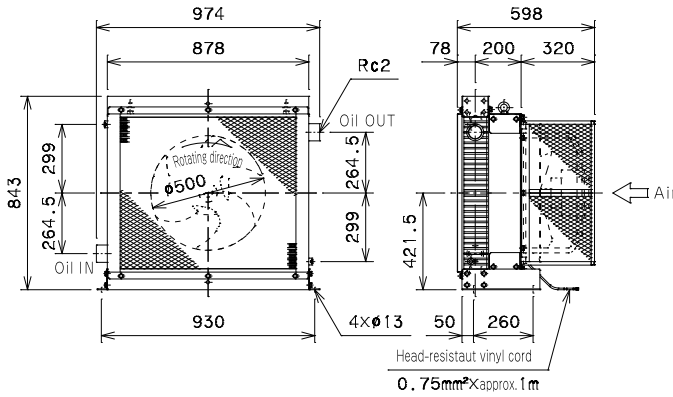


ATS-406□-MV□□□□



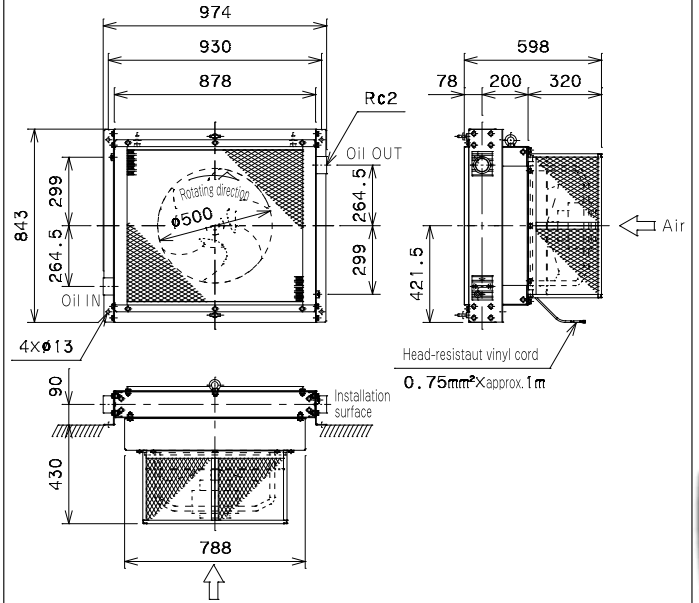
※ Opening size of installation surface should be larger than □440mm.

ATS-70101A-HRG □

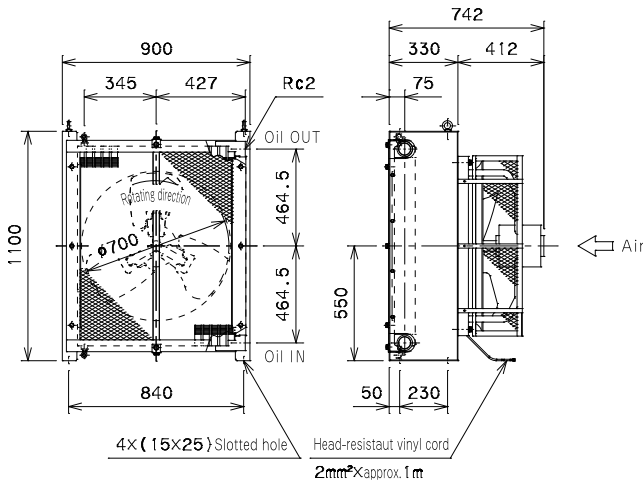


ATS-70101A-VRG □

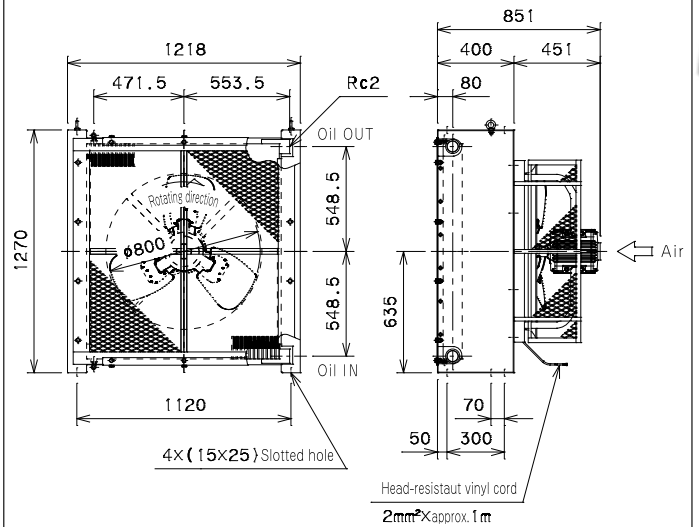
Unit : mm



ATS-80101A-H-G □



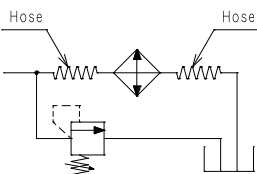
ATS-100101A-H-G □



<About pressure surge>

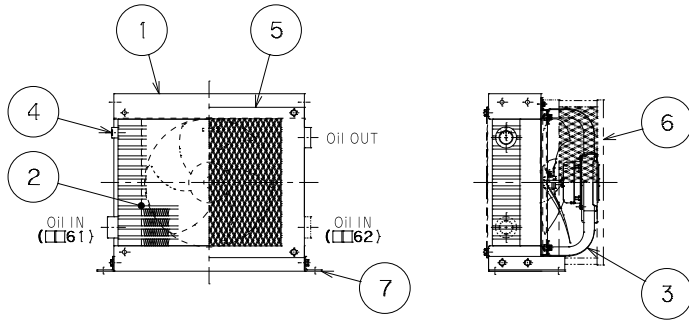
Allowable pressure fluctuation range is within 0.3MPa when using in a hydraulic circuit with repeated pressure fluctuation. Please do not install a component (filter or relief valve) after oil cooler in hydraulic circuit. Since our air-cooled type oil cooler (ATL, ATK, ATS, ATF) is aluminum radiator and it expands greatly, fluctuating pressure and vibration may cause breakdown of product. Moreover, please be sure that there is no rapid change of oil level in tank.

■ Recommended piping ex.



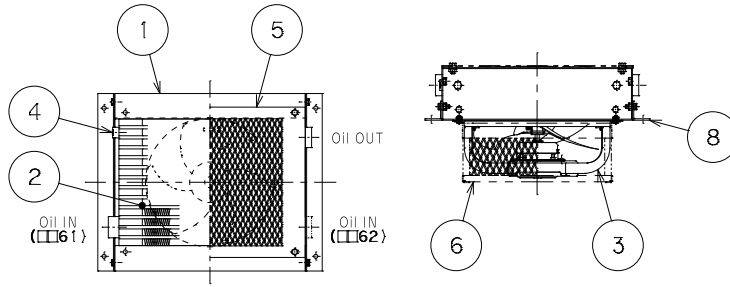
ATS-306□,356□,406□-M□□□□

H model



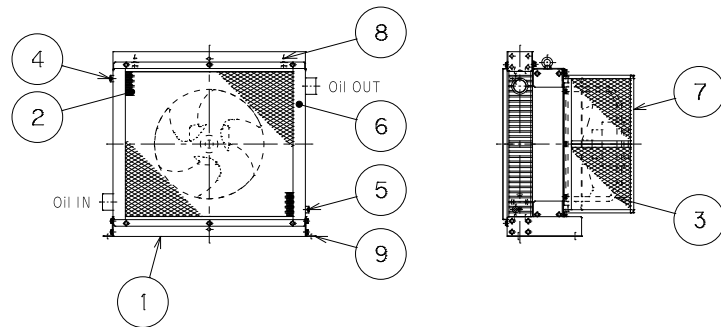
No.	Item	Qty
1	Case	1
2	Radiator	1
3	Fan motor	1
4	Air vent valve	1
5	Radiator guard	1
6	Fan guard	1
7	Horizontal stand	H model 2
8	Vertical stand	V model 2

V model



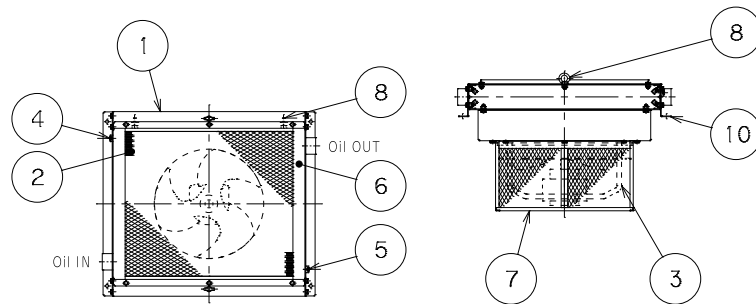
ATS-70101A-□□□□

H model

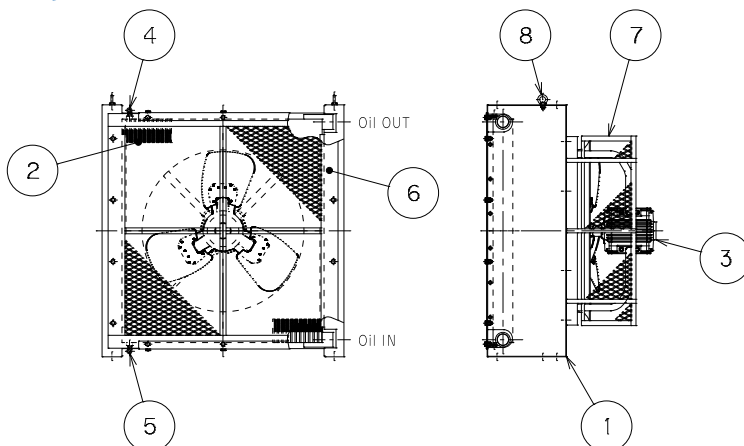


No.	Item	Qty
1	Case	1
2	Radiator	1
3	Fan motor	1
4	Air vent valve	1
5	Drain plug	1
6	Radiator guard	1
7	Fan guard	1
8	Eye bolt	H model 2
8	Eye bolt	V model 4
9	Horizontal stand	H model 2
10	Vertical stand	V model 2

V model



ATS-80101A,100101A-H-G□



No.	Item	Qty
1	Case	1
2	Radiator	1
3	Fan motor	1
4	Air vent valve	1
5	Drain plug	1
6	Radiator guard	1
7	Fan guard	1
8	Eye bolt	2