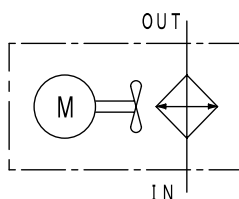


Advanced Model of conventional "ATL"



Characteristics

- Larger flow rate, Less pressure loss, and Great improvement of heat transfer performance (Max 200% of the conventional model)
 - Light weight aluminum radiator is selectable from 3 sizes
 - Waterproof and dustproof specification are selectable (option)
 - Electric connection is selectable from DIN connector and lead wire
 - Fan motor is selectable from single phase AC 100V and 200V
 - Other special specification is available: Different AC voltage or DC motor
- ※ Shape and each specification are different with standard model.



Air-cooled type cooler

SPECIFICATION

Max working pressure *1		MPa		1.0	
Max working temperature	Inside of tube	℃		100	
	Outside of tube	℃		60	
Ambient conditions *2	Temperature	℃		-10~60	
	Relative humidity	%		Unguarded	RH35~85
				Corresponding to IP54	≤RH95
	Place of installation			Indoor	
Fluid type		Mineral oil、Water glycol fluid *3			

Model code		13A	14A	16A
Material	Radiator	Aluminum		
	Support	Steel plate		
Coating	Radiator	Black		
	Fan motor・Support	Black		
	Fan guard	Plating		
Waterproof・Dustproof		Corresponding to IP54 (Option)		
Weight	kg	2.4	2.5	3.0

Model code	Frequency (Hz)	Rated voltage (V)	Rated current (A)	Maximum load current (A)	Sound level *4 (dB)	Standard
ATL-□□A-03-□M1	50 / 60	100	0.52 / 0.44	0.61 / 0.51	56 / 58	UL・TUV
ATL-□□A-03-□M2		200	0.26 / 0.22	0.3 / 0.27		
ATL-□□A-03-□P1		100	0.55 / 0.46	0.61 / 0.6		TUV
ATL-□□A-03-□P2		200	0.26 / 0.22	0.29 / 0.29		
Common to all models		Single phase, 2P, Built-in thermal protection				

MODEL CODE

〈Model code example〉 With Fan motor ASSY

ATL - **13A** - **03** - **B M 2**

① ② ③

Code	Radiator size
13A	13stages
14A	14stages
16A	16stages

Code	Connection diameter
03	Rc 3/8

Code	Fan motor
① Wiring type	
A	DIN connector
B	Lead wire
② Protection type☆	
M	Unguarded
p	Dustproof • Waterproof
③ Voltage☆	
1	100V
2	200V

☆ Since price and delivery are different for Dustproof • Waterproof spec, please ask us.
☆ Different voltage is available (special specification). Please ask us for details.

〈Model code example〉 Single radiator

R - **13A** - **03**

Code	Radiator size
13A	13stages
14A	14stages
16A	16stages

Code	Connection diameter
03	Rc 3/8

PERFORMANCE GRAPH

Condition

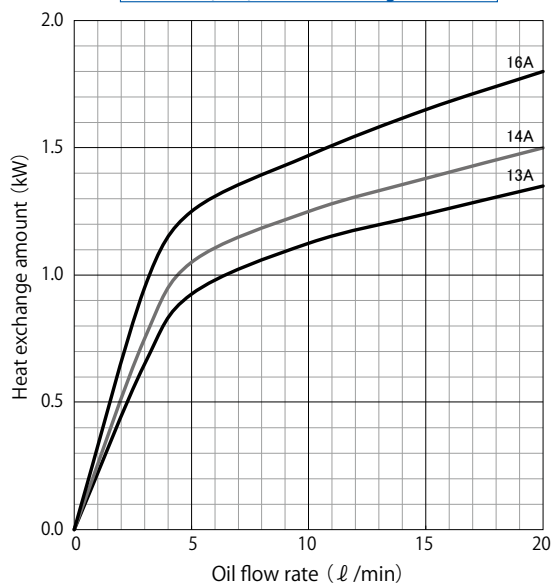
Fluid type	Corresponding to ISO VG32
Oil inlet temperature	°C Room temperature +30°C
Temp. of Pressure drop measurement	°C 55
Power frequency	Hz 50

Allowable flow rate

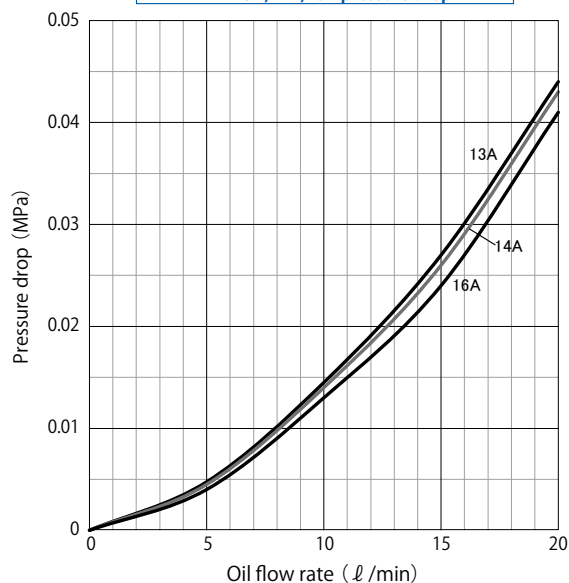
Model code	ATL-13A-03	ATL-14A-03	ATL-16A-03
Flow rate ℓ/min	~20	~20	~20

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

ATL-13A,14A,16A heat exchange amount



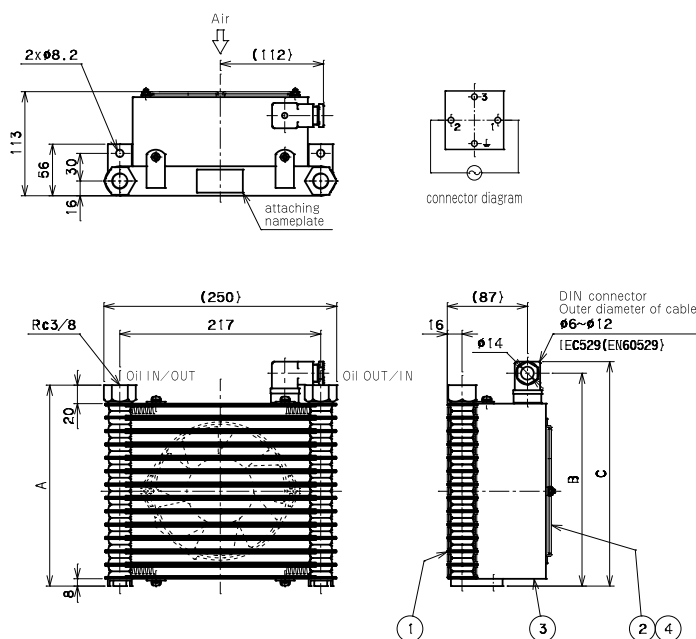
ATL-13A,14A,16A pressure drop



CROSS SECTION · PARTS LIST

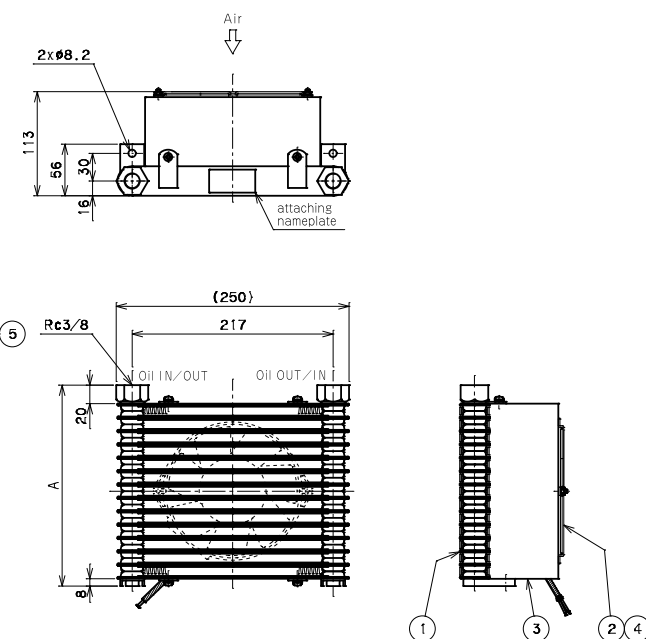
ATL-13A,14A,16A-03-A□□

A : DIN connector



ATL-13A,14A,16A-03-B□□

B : Lead wire



Unit : mm

Model code	Length		
	A	B	C
ATL-13A-03-A□□	204	216	228
ATL-13A-03-B□□			
ATL-14A-03-A□□	218	231	243
ATL-14A-03-B□□			
ATL-16A-03-A□□	248	262	274
ATL-16A-03-B□□			

No.	Item	Qty
1	Radiator	1
2	Fan motor	1
3	Support	1
4	Fan guard	1
5	Connector	1

〈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.

