

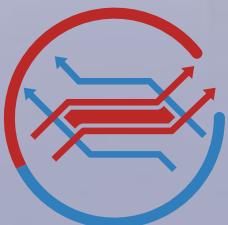
20

YEARS OF EXCELLENCE

ISO 9001-2015 COMPANY



A Commitment of Consistent Quality
& Wide Range of Air-Oil Coolers



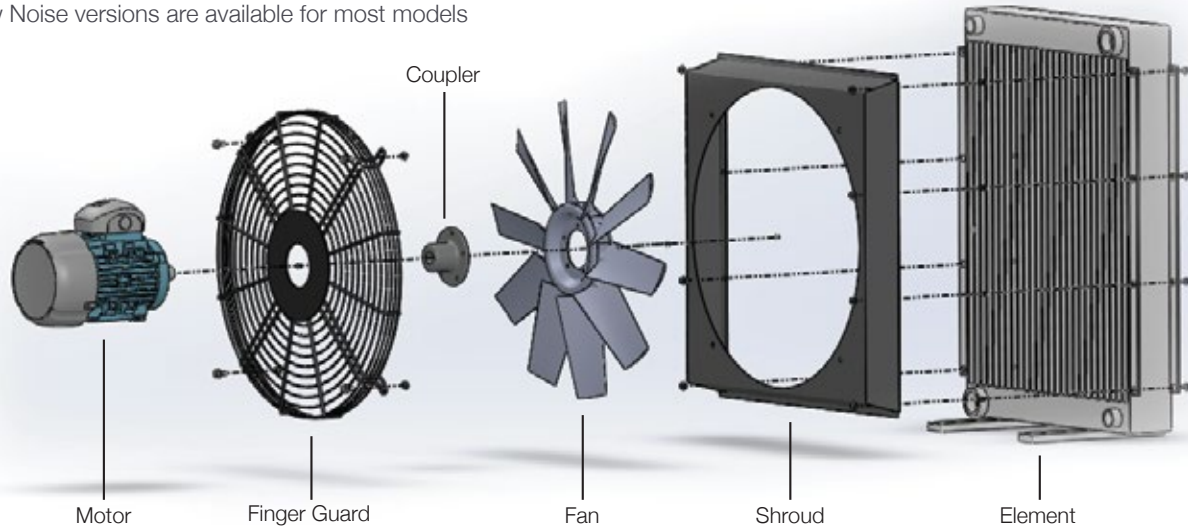
VARALKA

QUALITY • VALUE • COMPETENCE

Aluminium Bar and Plate Heat Exchangers

Varalka brings to you world class aluminium bar and plate heat exchangers, specially designed for oil cooling in industries and mobile vehicles. Rugged and robust, Varalka heat exchangers are able to deliver under the most demanding operating environments. Our product portfolio offers multiple core depths, sizes, and fin densities to meet any application and system performance needs.

- Cooling elements are made from high grade aluminium alloys
- Designed for usage with a variety of hydraulic, transmission, lubricating and engine oils and water-glycol mixtures
- Can be fitted with AC motors, DC Motors, Hydraulic motors
- Available with high-performance air fins or alternatively with low fouling cooling air fins
- Low Noise versions are available for most models

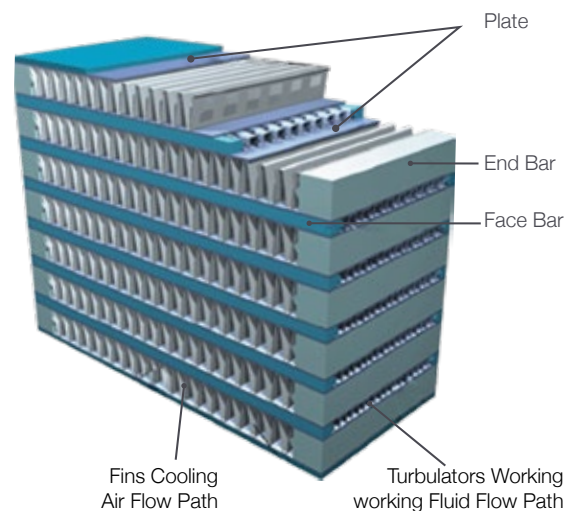


Bar and Plate Construction

Varalka oil coolers are constructed using bar and plate technology. Oil side turbulators and air side fins are placed between aluminium braze sheets and fitted with long and short solid aluminium profiles. The assembled unit is then brazed with precise control of time and temperature. Thereafter hollow aluminium profiles are welded on both sides of this core. These profiles serve as oil inlet and outlet manifold.

This type of construction offers many advantages:

- **Compact Size and Light weight** – 2-3 times smaller than copper tube and fin coolers
- **High Working Pressure** – 20 bar working pressure and 35 bar test pressure. Floating brazing junctions allow coolers to withstand pulsating oil flows

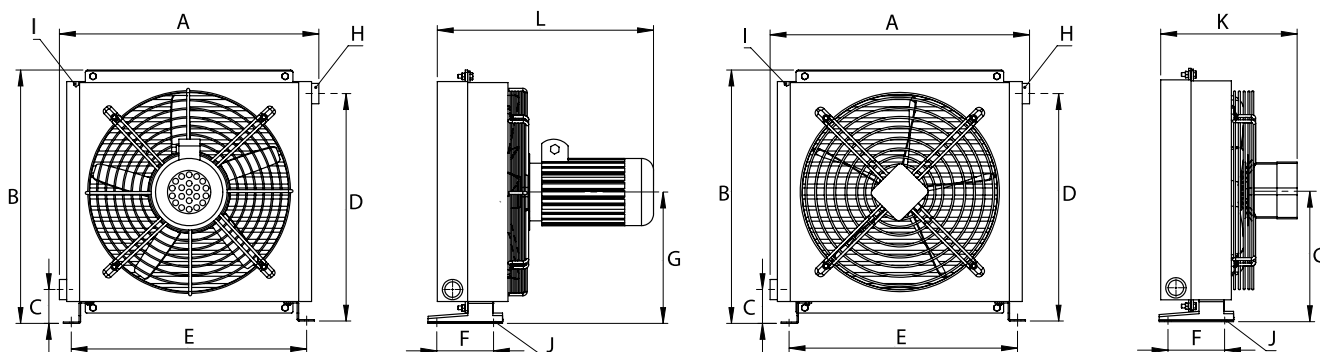


Why Choose Varalka?

- Competitive Pricing
- Quick Deliveries
- Prompt Pre and After Sales Support
- ISO 9001:2015 Quality Management System
- Varalka Facility Audited by Leading Hydraulic/Lube Oil Systems Manufacturers
- CE, PED Compliant Oil Coolers
- Third Party Inspections Accepted



S Series



Dimensions

	V2010	V2020	V2024	V2030	V2040	V2050
A	224	320	380	445	540	620
B	249	305	366	430	526	665
C	55	83	82	85	79	35
D	233	241	304	368	468	640
E	120	273	325	390	485	380
F	125	125	125	125	125	180
G	144	162	193	226	274	335
H	Ø½" BSP	Ø1" BSP	Ø1" BSP	Ø1" BSP	Ø1¼" BSP	Ø1¼" BSP
I	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP
J	Ø13	Ø13	Ø13	Ø13	Ø13	Ø14
K	175	168	168	178	239	327
L	-	381	381	388	431	426

Cooler With Squirrel Cage Induction Motor

Motor kW/rpm	-	0.25/1350	0.25/1450	0.37/1450	0.55/1450	0.75/1450
dB(A)	-	64	64	70	77	79
Weight (kg)	-	11	16	20	21	30

Cooler With Integrated Motor & Fan

Motor kW/rpm	0.045/2750	0.068/2600	0.105/2600	0.195/2600	0.29/1250	0.43/1250
dB(A)	63	68	72	76	71	76
Weight (kg)	6	8	11	15	25	27

Note : Sound Pressure Level is at 1 meter distance. It is a calculated value and should be used as guideline only.

Ordering Code

V25

30

Cooler Series
2030

03

Fan Motor Type

- 01 Integrated AC 230V/1Ph-50Hz
- 03 Integrated AC 415V-3Ph-50Hz
- 04 Squirrel Cage Induction Motor AC 415V-3Ph-50Hz
- 12 DC 12V
- 24 DC 24V
- 56 Hydraulic Motor
- 05 Special Motor, Flame Proof, Special Voltage etc.

2

Thermostat

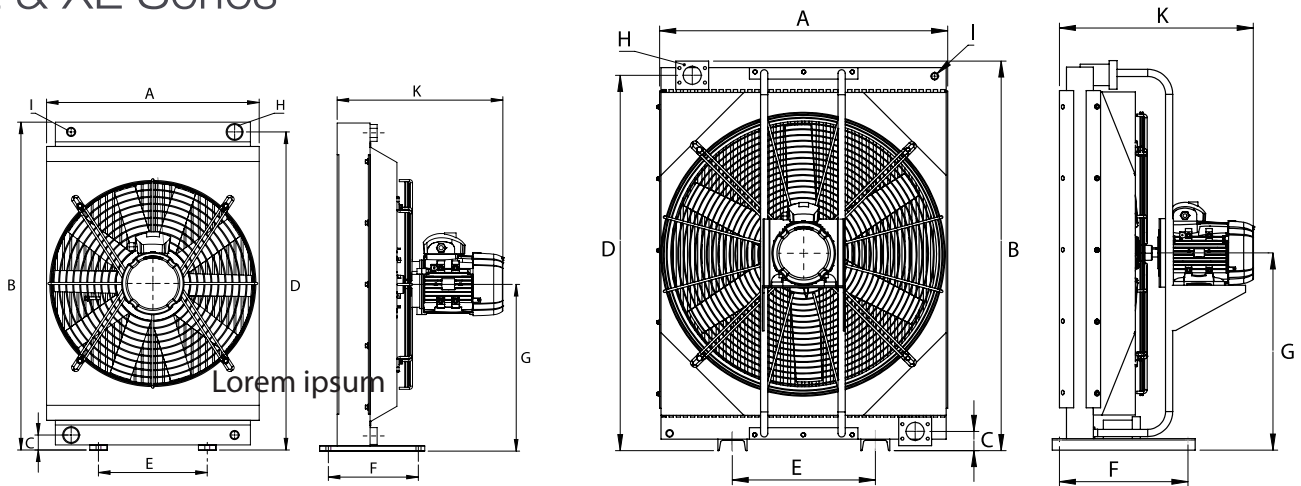
- 0 No Thermostat
- 1 Fixed Thermostat 40-28°
- 2 Fixed Thermostat 50-38°
- 3 Fixed Thermostat 60-48°
- 4 Fixed Thermostat 70-58°
- 5 Fixed Thermostat 80-68°
- 6 Fixed Thermostat 90-78°
- 8 Adjustable Thermostat 0-90° (TC2)
- 9 Adjustable Thermostat 0-120°(TC2)

01

Ventilating Type

- 01 Suction air flow
- 02 Blowing air flow

L & XL Series



Specification								
	V-HPA 30	V-HPA36	V-HPA42	V-HPA52	V-HPA72	V-HPA135	V-HPA180	V-HPA255
Dimensions								
A	465	610	606	725	725	1008	1008	1182
B	685	785	935	955	955	1340	1340	1335
C	43	43	43	50	50	67	67	52
D	657	757	907	920	920	1313	1313	1308
E	200	310	310	400	400	500	500	650
F	250	250	250	250	250	450	450	450
G	350	400	475	485	485	690	690	686
H	Ø1¼" BSP	Ø1¼" BSP	Ø1¼" BSP	Ø1½" BSP	Ø1½" BSP	SAE Ø2½"	SAE Ø2½"	SAE Ø2½"
I	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP	Ø½" BSP
J	Ø14	Ø14	Ø14	Ø14	Ø14	Ø14	Ø14	Ø1
K	452	460	502	573	608	721	721	957
Motor Mounting	B14				B34			
Power Supply	415V, 3 Phase, 50 Hz							
Motor kW/Poles	0.75/4	1.1/4	1.1/4	1.1/6	2.2/4	2.2/6	5.5/4	11/4
Sound Pressure Level dB(A)	82	84	84	82	79	84	89	90
Weight (kg)		60	65	95	105	126	126	358

Note: Sound Pressure Level is at 1 meter distance. It is a practical measurement but should be used as guideline only.

Ordering Code

V24

30

Cooler Series
V-HPA 30

03

Fan Motor Type

- 03 Squirrel Cage Induction Motor
- 12 DC 12V
- 24 DC 24V
- 56 Hydraulic Motor
- 05 Special Motor, Flame Proof, Special voltage etc.

2

Thermostat

- 0 No Thermostat
- 1 Fixed Thermostat 40-28°
- 2 Fixed Thermostat 50-38°
- 3 Fixed Thermostat 60-48°
- 4 Fixed Thermostat 70-58°
- 5 Fixed Thermostat 80-68°
- 6 Fixed Thermostat 90-78°
- 8 Adjustable Thermostat 0-120° (Tc2)

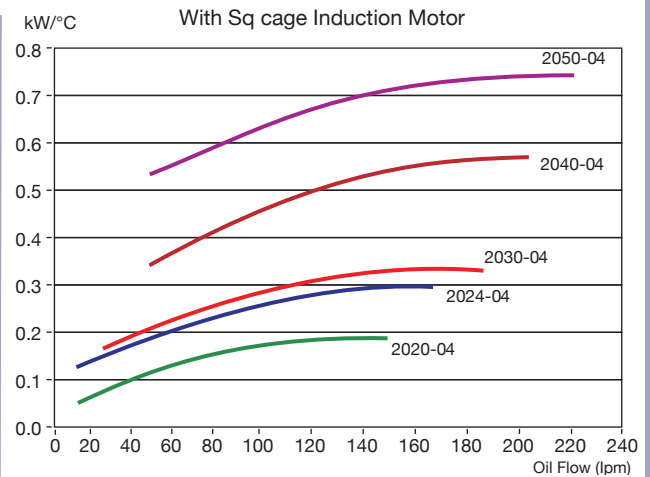
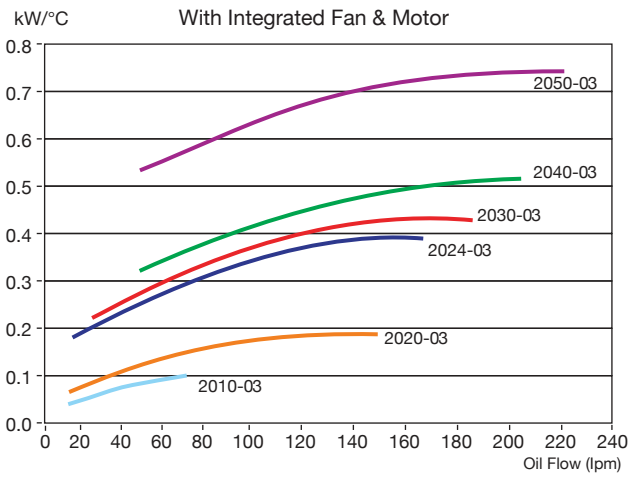
01

Ventilating Type

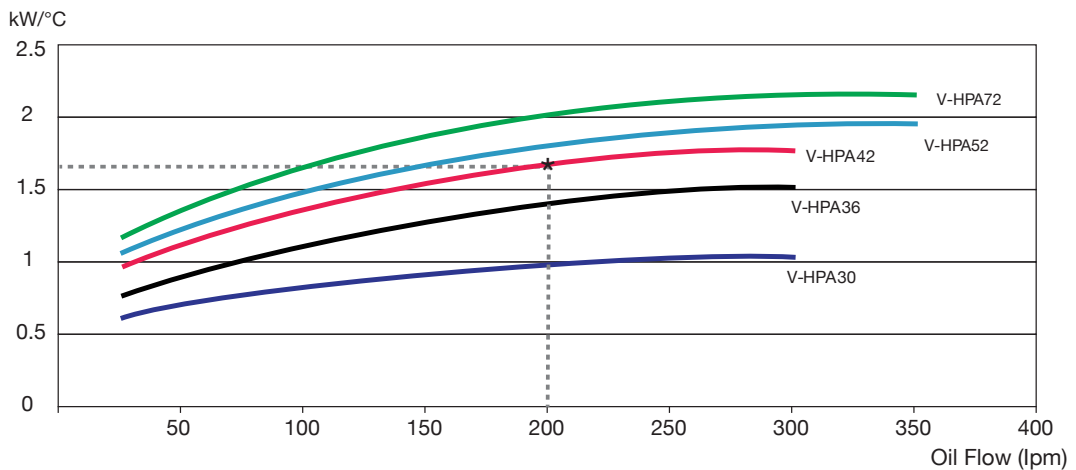
- 01 Suction air flow
- 02 Blowing air flow

Performance Curves

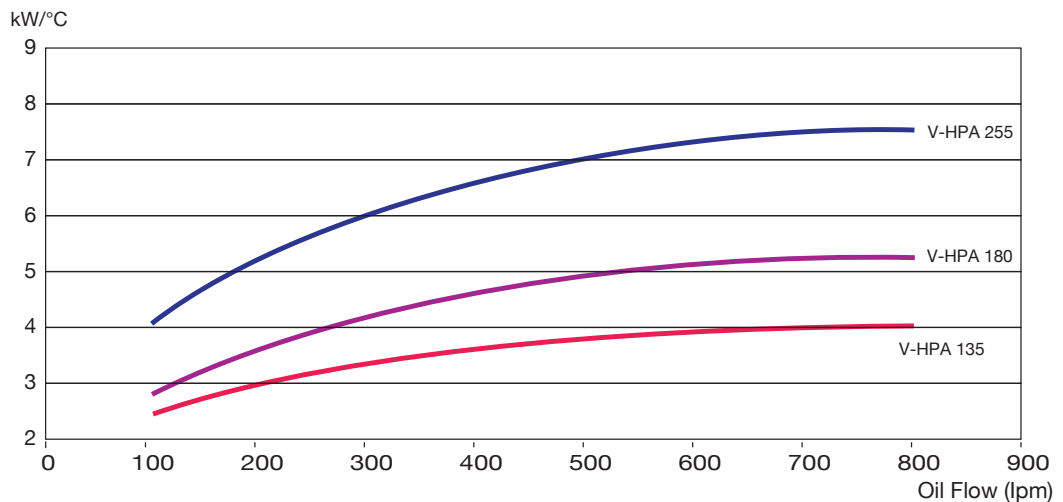
S Series



L Series



XL Series



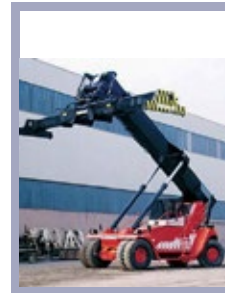
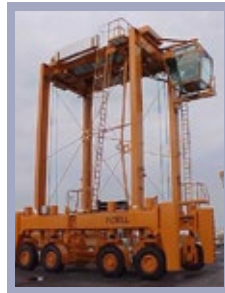
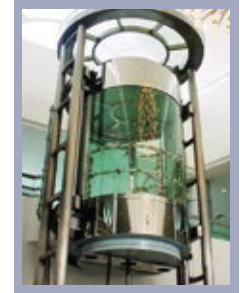
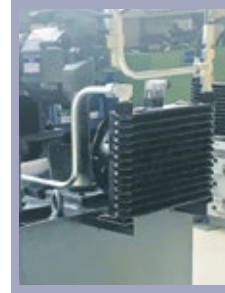
How to Select a Cooler?

- Heat Dissipation Required: 49 kW,
- Oil Flow Rate 200 lpm
- Oil Inlet Temperature: 70 °C,
- Ambient Temperature: 40 °C

● $\text{kW/}^\circ\text{C} = 49 / (70 - 40) = 1.63$

Hence the Cooler required would be V-HPA42

Applications



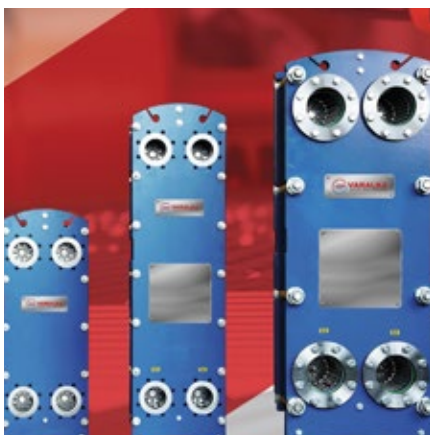
About Varalka

Varalka, a 100% Indian company founded in year 2000, is an ISO 9001:2015 certified professional company. We started as a distributor of global leaders in the field of plate heat exchangers and aluminium bar and plate oil coolers. In 2014, we launched brand Varalka to provide quality heat exchangers to discerning, quality conscious and value-oriented customers. Today Varalka is an OE supplier of air-oil coolers and plate heat exchangers to most of the leading hydraulic and lube oil system manufacturers. Varalka heat exchangers serve at most difficult applications in steel plants, mines, power plants, cement plants, hydraulic presses, special purpose machines, railway locomotives etc.

Other Products

Varalka also manufactures a wide variety of plate heat exchangers in cooperation with Global Leaders.

- Gasketed PHEs (DN15 to DN500)
- Gas/Liquid Heat Exchangers
- Semi-Welded Plate Heat Exchangers
- Welded Plate Heat Exchangers



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