

Presentation for Air/Oil Coolers









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Introduction & Range

- We proudly Introduce Alu Vacuum Brazed Air-Oil Cooler with our Own Brand "VARALKA" make
- Coolers are Imported from Europe and we are doing assembly in India
- Range from 2.5 Lpm to 700 Lpm in Single Cooler
- Cooler with DC Fan, Hydraulic Motor, Three Phase, Single Phase Power Supply
- Special Drain line Coolers of Emmegi Italy
- Offline Cooling Units









Nomenclature of Part Number

- Example: V-255004001
 - ✓V Varalka Make
 - ✓ 25 (Cooler Series) S Series
 - ✓ 50 (Cooler model) 2050K
 - ✓ 04 (Fan Type) Cooler with Electric B14 Motor
 - ✓ 0 Thermostat Range
 - ✓ 01 (Fan Type) Suction









How to select Cooler & Enquiry

- How we can take Requirement from Customer.
- What we will do if sufficient data is not available
- How we can guess technical data?
- Mandatory Require Data for cooler selection: Oil Flow / Pump Flow
 Heat Load / Main Motor HP
 Oil Inlet Temp / Oil Temp needs to maintain Ambient Temp/ Area/ City of Installation
 Oil Grade & Power Supply & Application
- Cooler Selection Manual / Software









Test of Cooler Selection

- Requirement 1
 Flow: 100 lpm, HL: 25Kw, Amb: 45, Oil Inlet: 70
- Requirement 2 Flow: 70 lpm, HL: 10,000Kcal/hr, Amb: 40, Oil Inlet: 65
- Requirement 3
 HPP = Flow: 80 lpm, Motor: 20HP, Amb: 40, Oil Inlet: 70
- Requirement 4
 FLS- Flow: 200 Lpm HD: 1500 Kcal/min- Oil temp to maintain 65 Deg.C
- Requirement 5

Flow: 500 Lpm – HD: 70 Kw- Oil In: 70 Deg- Ambient 45









Test of Cooler Selection

• Requirement 6

Flow: 80 Lpm – Oil In: 70 Deg- Oil Outlet: 60 Deg - Ambient 45

• Requirement 7

Oil Temp to maint: 55 Deg- Ambient 40- Oil Tank: 3000L- Offline cooler

• Requirement 8

Flow: 80 Lpm – Oil In: 70 Deg- Oil Outlet: 60 Deg - Ambient 45, Heat Load: 20 Kw

- Requirement 9
 Flow: 80 Lpm Oil In: 70 Deg- Motor HP- 40 HP
- Requirement 10
 Cooler Require of 5,000 Kcal/hr
- Requirement 11

Cooler Require of – 10,000 Kcal/hr - Flow: 50 to 100 lpm









Cooler selection & Technical Formula

- Please refer Oil Cooler Selection Catalogue
- Temp Drop Formula is $\Delta T = Kw \times 34 / LPM$
- 1 Kw = 860 Kcal / hr
- 1 Hp = 0.754 Kw
- Min 34% power of Main Motor as Heat Load of Hyd System in General
- For Press Pl take 50% Power as Heat Load of Main Motor







Equivalent Models & Competitors

- Competitors: AKG, StanHex, Olaer, ACE & AMA
- VARALKA Equivalent Models against AKG, OLAER & Standard Radiators (StanHex)
- VR & Sales Doc\Comparison Sheet with Competitors\Varalka Equivalent models Against AKG, StanHex, Olaer.xlsx









Potential Industry

- Hydraulic Power Pack Mfg
- Hydraulic Press Machine Mfg
- Crushers Mfg
- Gear Box Mfg
- Fluid Coupling Mfg
- Lub Oil System Mfg
- Concrete Pumps Mfg
- Concrete Block Making Machines Mfg
- Briquetting Machine Mfg
- Hydraulic Lifts Mfg
- Hydraulic Trolley Mfg









Potential Customers

- KLR Industries Ltd
- Puzzolana Machineries Ltd
- Proman Infrastructure
- Kamakshi Engineering Ltd
- Propel Machines
- Elecon Engineering / Hydraulics
- Hydac India Ltd
- Bosch Rexroth Ltd
- Preston Hydraulics Ltd
- Khushbu Hydraulics Ltd
 - Voith Ltd– Hyderabad



- Fluidomat Ltd
- Premium Transmission
- Mark Hydraulik
- Rachitech Engg
- Cenlub Systems
- SKF industrial
- Pearey Lal & Sons
- Parishram Machines
- Dropco Multilub







Strength and Weaknesses

- Good Quality
- Value for Money
- Technical Support
- PAN India Sales Network
- Ex Stock on Time Delivery
- Available cooler range with 3Ph Integrated, External Motor, DC Fan & Hyd Motors
- Identical replacement with Emmegi coolers
- Customer can easily accept us who is regularly taking PHEs from us.
- Disadvantage Varalka is well-known for PHEs but not for Air-Oil Coolers.







