和山®
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PRODUCT SPECIFICATION

XFL SERIES OIL COOLER

FOR HYDRAULIC ELEVATOR

HESHAN

Brief Introduction

When the hydraulic system of the hydraulic elevator is working , the oil plays a double function of lubricating and passing power. As the temperature rises, the oil's viscidity declines. If the oil film in the lubricating part has been destroyed, the leakage of oil increases, the sealing material ages in advance and the pressure of saturation oil steam rises. All of these affect directly the elevator precision, comfort, car loading and also the cooling effect of the oil-soaked electrical machine in the pump. If the elevator runs long time under high temperature, the oil will be oxidated, sedimentation will appear, and the movement of the pump and valve may be disturbed. When the oil temperature is over high, the hydraulic system may even go into the protection mode which will cause the accident of locking people in.

The hydraulic system works by vertical rise and fall. According to the law of conservation of energy, all the energy input into the system will go in to the system in the form of heat. If the natural cooling can not maintain the oil temperature in the permitted range, the oil cooler must be installed to take a obligatory cooling.

For the technical requirement of the hydraulic system, our factory takes the international-lead technology for heat exchanger, and developed the new generation -XFL series elevator condenser on the base of LK type oil cooler . It cools the air to keep the working oil at the set temperature and guarantees the hydraulic system work properly and continuously. The new style cooler has a much smaller size, and weight but higher Energy Efficiency Rate. The installation is very convenient with installation size, oil outlet, oil inlet match the oil container in other country. All the date of the cooler arrive at the level of similar foreign product.

- Air cooling; Stable and reliable effect;
- The working temperature can be set from 0 to99.9;
- Show the oil temperature in the oil tank at any real time so that the changing of the oil temperature can be known directly;
- When the temperature arrives at the up limit, the cooler start to work; when the oil temperature declines to the bottom limit, the air conditioner power off automatically.

☆ **Optional oil filter can be supplied (the precision of it is 10 micron, and it can clean the oil tank).**

Mode Rule

XFL series cooler are named like this

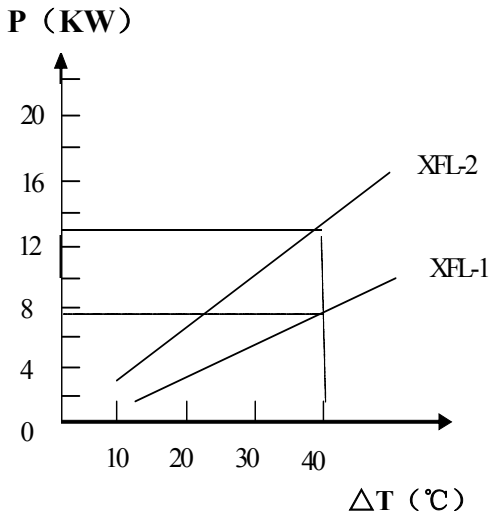
XFL—1 A

New Style oil Cooler

- Model A : with 2.5meter long rubber hose 2 pcs
- Model B: with 2.5meter long rubber hose 2 pcs, crossing board contactor 2 pcs
- Model C :with 2.5meter long rubber hose 2 pcs, crossing board contactor 2 pcs
- Model T, special mode,supply to special need in the building site

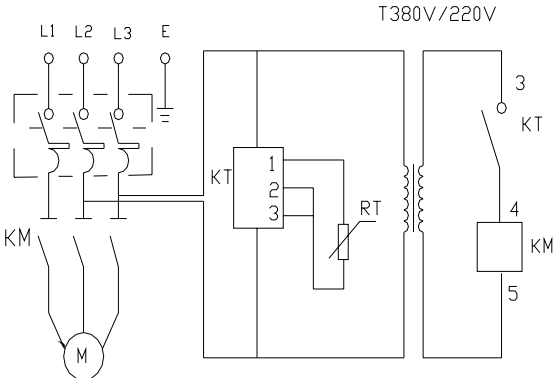
- Model 1： rated cooling capacity7kw
- Model 2： rated cooling capacity13kw

Performance Curve



P: Heat radiating power △T :the temperature difference between the oil inlet and wind inlet. Notice: Rated power means the heat radiating power. when t =40 , the power increase with the rise of the △T.

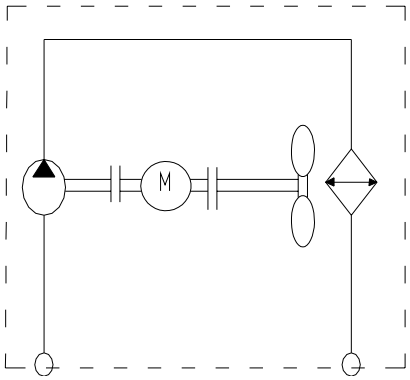
Electrical Chart



Q:Air switch KM: Main Contactor KT:Temp Controller

M:Electric Motor RT:Temp Probe MI:Fan

Oil Route

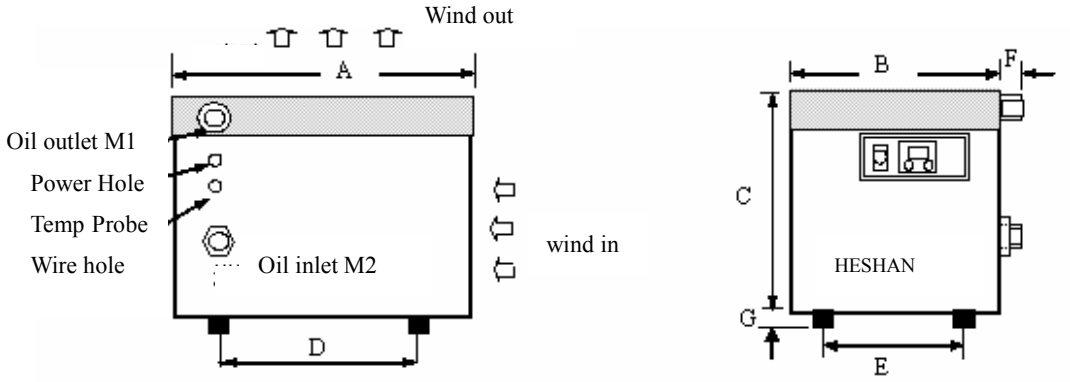


Oil in Oil out

Technical Data

Model	Cooling Capacity	Input Power	Voltage	Oil Flow	Air Flow	Noise	Weight
	（kw）	(kw)	(ACV)	(L/min)	(m^3/h)	dB(A)	(kg)
XFL-1	7	0.75	380	25	1500	68	77
XFL-2	13	1.1	380	40	2800	70	96

Dimension



Model	A	B	C	D	E	F	G	M1	M2
XFL-1	654	384	470	550	300	33	35	M30*2	M30*2
XFL-2	704	449	515	580	350	37	35	M36*2	M36*2

Installing

Installation procedure flow(take xfl-1c for example)：

1 .Install the cooler: place the cooler stable on the ground, 2.5 meters from the oil tank.

2 .Connect the oil route: connect the passing board connector to the inlet and outlet of the oil tank, insert two pics 0.7 meter long oil hose to the oil tank and connect them to the passing board connectors; use 2.5meter long hose to connect the oil inlet and outlet in the pump to the inlet and outlet of the cooler.

3 .The installation of the temperature control probe: fix the temperature probe o n t he t op c over of the oil tank.

4 .Connect the power supply: connect it to 380v.50hz electrical source, turn on the cooler, check whether the wind direction is as showed by the arrow; if not, check the power supply.

5 .Set the working temperature: set the working temperature of the cooler , the cooler go into auto mode

Notice for Use

1. If the cooler is installed in the machine room, please keep good ventilation, so that the heat given off by the cooler can be shift out of the room.

2.The cooler should be put on the ground; if you have to raise the height, you had better put it 0.5 meter above the oil tank; If to high, there would be a sharp increase in the noise.

3.The set temperature of the oil temperature controller should be within 40-54 ， 47 best, the set temperature should not be less than 38 , otherwise there would be increased noise caused by the blockage from oil viscidity.

4.To ensure a good cooling effect, the attachment on the heat exchanger should be cleaned regularly.

5.In the cooling system equipped with oil filter, if the pressure clock goes into the red light warning area, please cut off the power supply to change the filter core.

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