

SS Series

Oil Coolers



Features

OMT air/oil heat exchangers have been designed to use on the return line of hydraulic systems.

The special structure of the cooler element in alu-alloy increases the conductivity quality, and the brass welding process of the conduits allows a high thermic exchange and a good resistance to pressure, obtained by using qualified materials.

Materials

Fan	Steel or hard plastic
Fan case	Steel
Fan protection	Steel or hard plastic

Radiating Mass Data

Material	Aluminium
Nominal Pressure	25 bar
Test Pressure	35 bar
Maximum Temperature	120°C

Fluid Compatibility

Mineral oils, hl, hlp, water-oil emulsion

Installation

We recommend to install a by-pass valve in parallel to the heat exchanger, for its protection during start up. Ensure there are no obstacles to the air flow.

SS10 Series

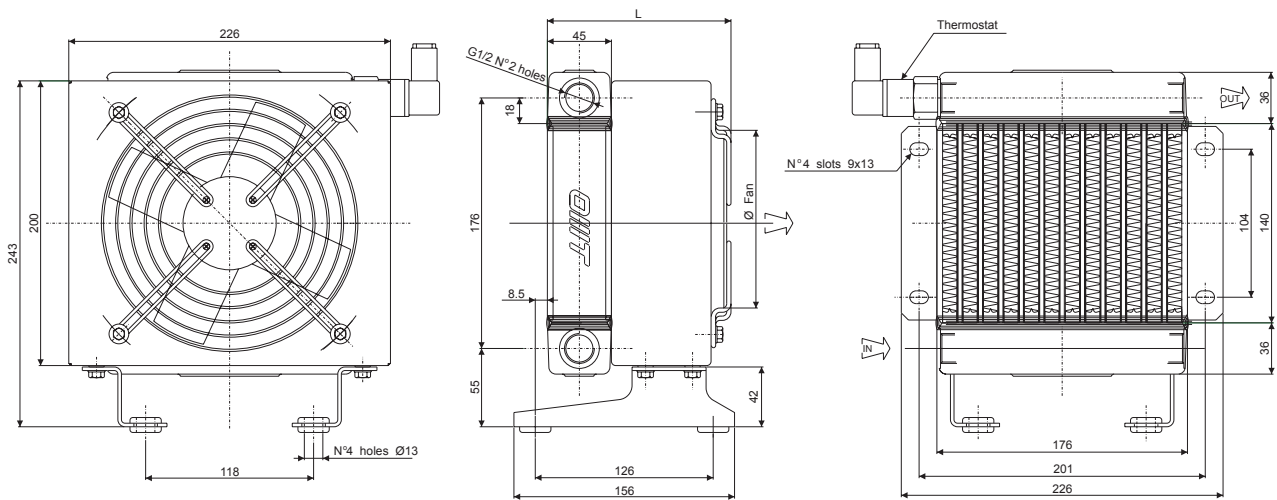
Oil Coolers



Technical Features

Type	Frequency Hz	Voltage V	RPM	Power kW	Dia. Fan (mm)	dB (A)	L (mm)	Q Air (m3/h)	Cap. (lt)	Weight (kg)	IP
01	50/60	230	2650/3000	0.050/0.046	170	63	125	500	0.28	6	44
03	50/60	230/240	2750/3100	0.045/0.043	170	63	125	500	0.25	6	44
12	DC	12	4000	0.080	167	64	158	550	0.25	5	65
24	DC	24	4100	0.080	167	64	158	550	0.28	5	65

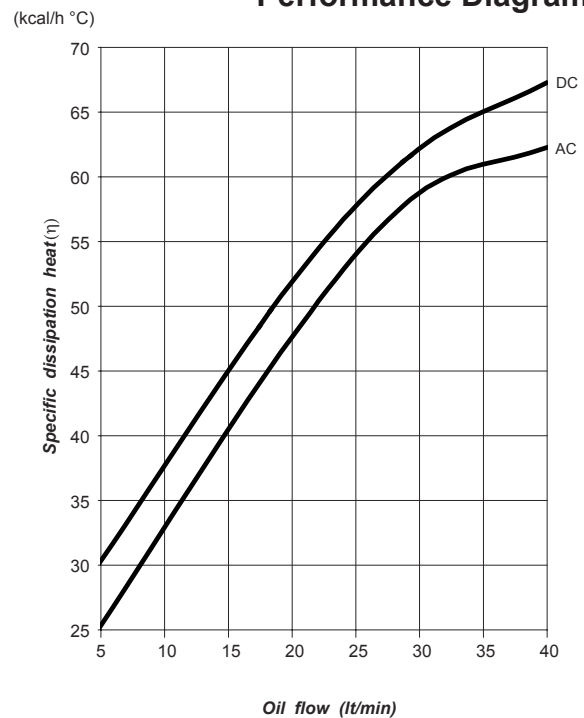
Suggested oil flow from 5 to 40 (ltr/min)



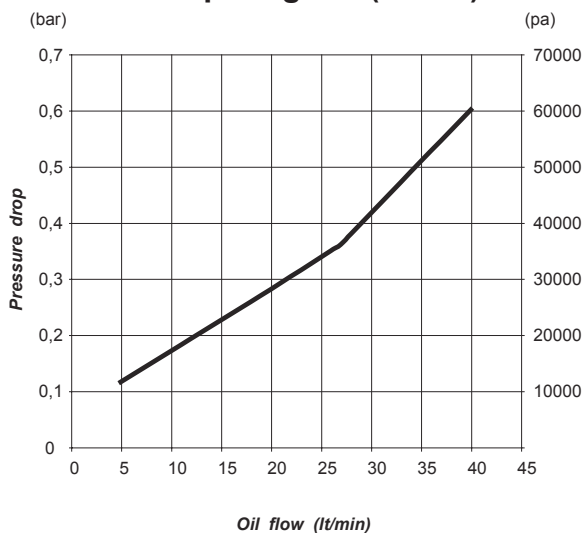
Correction Factor

CST	10	15	20	32	40	50	60	80	100	200
F	0.51	0.66	0.76	1	1.22	1.4	1.6	1.9	2.1	3.4

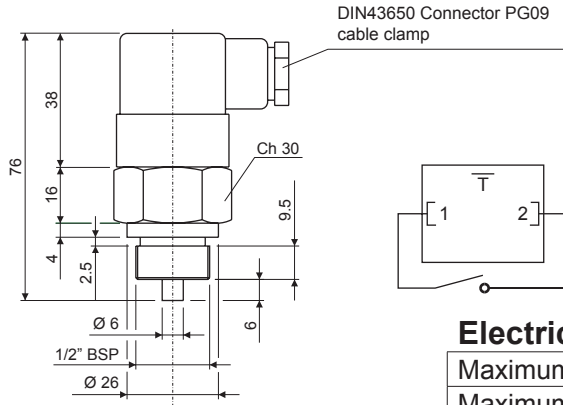
Performance Diagram



Pressure Drop Diagram (32 cst)



Bimetallic Fixed Temperature Switch



Stock Code	Working Temperature	Contact
T01	36-26°C	
T02	43-33°C	
T03	52-42°C	
T04	65-55°C	NA/NO
T05	75-65°C	
T06	85-75°C	
T07	95-85°C	

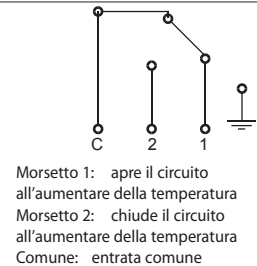
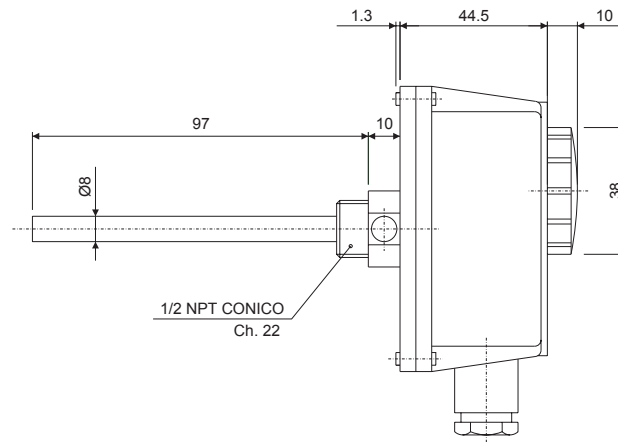
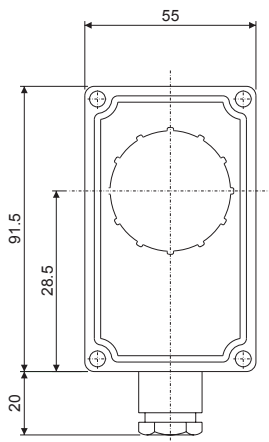
Electrical Data

Maximum voltage	250Vca
Maximum current	16A
Tolerance	±5°C
Maximum fixed hysteresis	15°C
Electrical connection	DIN43650
Protection degree	IP65
Maximum temperature	130°C

Materials

Body	Brass
Contacts	Silver plated

Temperature Switch



Stock Code
T08

Electrical Data

Temperature range	0°±90°C
Tolerance	±5k
Temperature differential	6±2k
Degree of protection	IP40
Insulation class	I
Temperature rate of change	<1k/min
Maximum head temperature	80°C
Maximum sensing bulb temperature	125°C
Storage temperature	-15°C 55°C
Time constant	<1'
Contacts rating	C-1:10(2.5)A/250V~ C-2:6(2.5)A/250V~
Output	cutoff or switching contacts
Switch action	1B
Installation location	normal environment
Fairlead type	M20x1.5

How to Order

SS20	14	02	P
Type	Fan Motor	Bimetallic fixed temperature switch	Foot flanges / Electric connection
SS10	01 230V 50/60 Hz Single Phase	00 No Switch	P With foot flanges
SS15	03 230/400V 50/60 Hz three phase	01 Fixed switch 36-26°C	E With electric connection
SS20	14 230/400V 50/60 Hz three phase B14	02 Fixed switch 43-33°C	PE With foot flanges and electric connection
SS24	12 12V CC	03 Fixed switch 52-42°C	
SS30	24 24V CC	04 Fixed switch 65-55°C	
	G2 Arranged for hydraulic motor GR.2	05 Fixed switch 75-65°C	
		06 Fixed switch 85-75°C	
		07 Fixed switch 95-85°C	
		Adjustable switch	
		08 Adjustable switch 0-90°C	