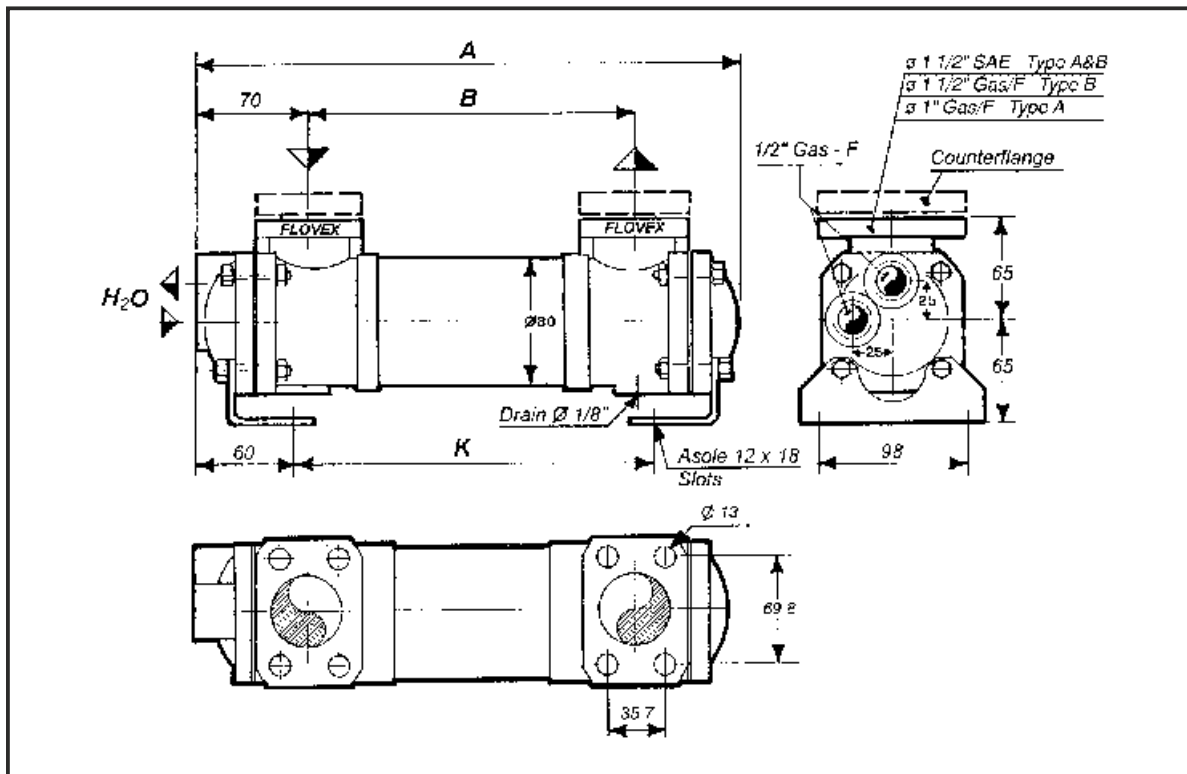


# LIGHT ALLOY HEAT EXCHANGER TYPE ST

## CHARACTERISTICS

- Signature:** All range of models have been divided into two types according to oilflow. Tipe "A" for low/medium oilflow, type "B" to high oilflow. Our raccomandation all times, to complete signature of exchanger (letter "A" or "B" to be found on label and stamped permanently on hubs of each exchanger). verify the flows with the flow charts in the next page. To give more guarantee, each exchanger passes a "quality control" and a hydraulic test before leaving our workshop.
- Tube boundle:** Integrally finned, chemically passivated, straight copper tubes rolled into the tubesheets, enshure most efficiency
- Baffles:** Stamped in carbon steel, with lips around tubes and at outline, to give: better clearances between tubes to baffles, shell to baffles, for higher efficiency.
- Hubs:** Pressed in light alloy, type "ANTICORODAL", in one piece with tubesheet in STAINLESS AISI 316 and oilside connection type SAE to reduce velocity/pressure drop in inlet/outlet even at higher flow.
- Shell:** Cold drawn, calibrated, extruded light alloy tube, at both extremity one hub, sealed permanently "O" ring.
- Cover:** Plastic material, glass fiber reinforced with 1/2" B.S.P. connection in carbon steel stamped in one piece, to give exceptional resistance against corosion, combined with good mechanical strenght. other type on request.
- Feet:** Stamped in carbon steel, screwed to covers, with possibility of multiple orientation to make installation easier.
- Maintenance:** correct selection by our performance curves and a correct flowrange of fluids, will enshure long, trouble-free life to our exchanger. Being mostly oilcoolers, our ST 80 will need cleaning only tubeside (waterside) periodically. This operation can be done without depressurising oilside only taking off covers. The use of integrally finned tubes riduces the actual number of tubes that combined with good wallthickness, make even mechanical cleaning extremely easy against traditional exchangers. Our only raccomandation is to take care of orientation of covers and gaskets after maintenance.
- Warranty:** Each exchanger is guaranteed against defects of fabbrication or the materials for 12 months. No guarantee will be hold against corosion, excessive vibrations, pressure hammering, calcium deposits, and uncorrect installation



Model	A mm	B mm	K mm
ST1.8035.A/B	425	285	305
ST1.8061.A/B	680	540	560
ST1.8076.A/B	830	692	712
ST1.8091.A/B	985	845	865

DESIGN TEMPERATURE	°C	99	99
DESIGN PRESSURE	Bar G	10	10
TEST PRESSURE	Bar G	13	13
DESIGN DATA	U.M.	SHELL	TUBES

# LIGHT ALLOY HEAT EXCHANGER TYPE ST

## HEAT TRANSFER CURVES

The curves are valid for hydraulic oil ISO VG 46 Temperature difference oil/water 25°C

### WATER CONSUMPTION

1 = 0.5 m<sup>3</sup>/h - 2 = 1.25 m<sup>3</sup>/h - 3 = 2 m<sup>3</sup>/h

### TEMPERATURE CORRECTION

For difference of temperature inbetween oil/water other then 25°C before see the curves multiply kcal/h with coefficient of correction table.

TABLE	
$\Delta t$ oil/water	Coefficient
15	1.4
20	1.2
25	1
30	0.8
35	0.6

