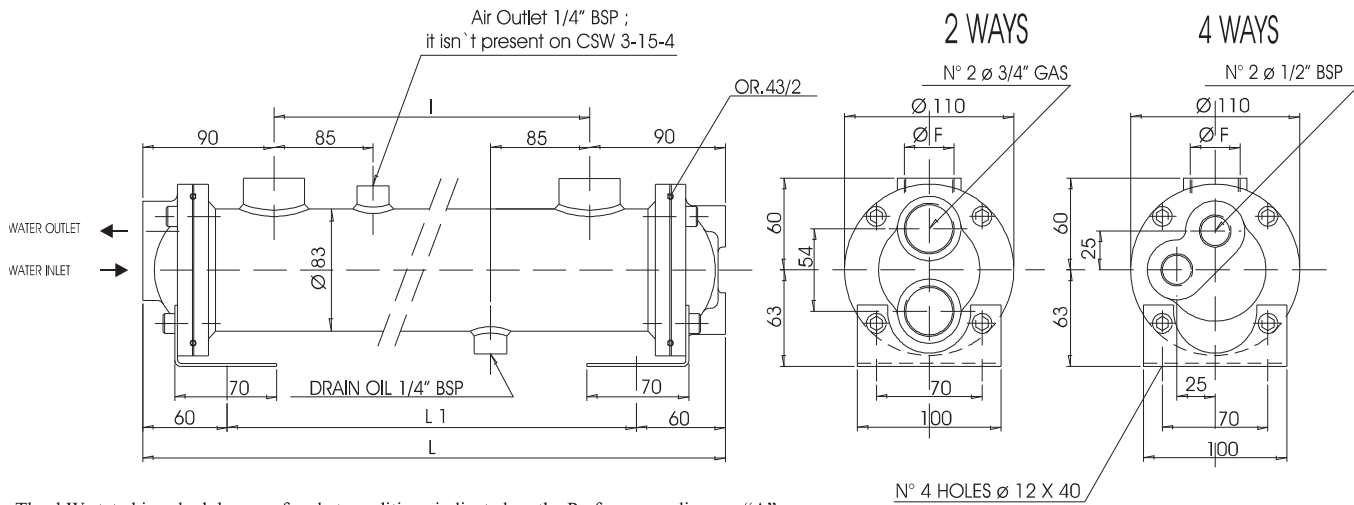


Water/oil coolers series CSW 3

Code	Capacity .	Oil flow (L/min)	kW Dissipated (With oil 55 °C and H ₂ O 20 °C)	Weigh	Over all dimensions			
					F	I	L	L1
CSW3 - 15 - *	0.70	20 - 70	3 - 6	5.5	1"	150	330	210
CSW3 - 31 - *	1.20	30 - 90	6 - 10	7.0	1"	310	490	370
CSW3 - 38 - *	1.40	30 - 90	7 - 13	7.5	1"	385	565	445
CSW3 - 56 - *	2.00	30 - 90	9 - 15	9.3	1"	560	740	620
CSW3 - 71 - *	2.45	40 - 130	12 - 21	10.0	1"	715	895	775
CSW3 - 87 - *	2.80	50 - 140	15 - 25	12.0	1"	870	1050	930

* = 2 with water circuit two ways

* = 4 with water circuit four ways



The kW stated in schedule are referred at conditions indicated on the Performance diagram "A"

Code	Shell	Covers	Seals	Pipes	Tubing plate	Deflector baffles
All	Fe 510.2	Al Si 13	NBR	CuDHP	C40	C37

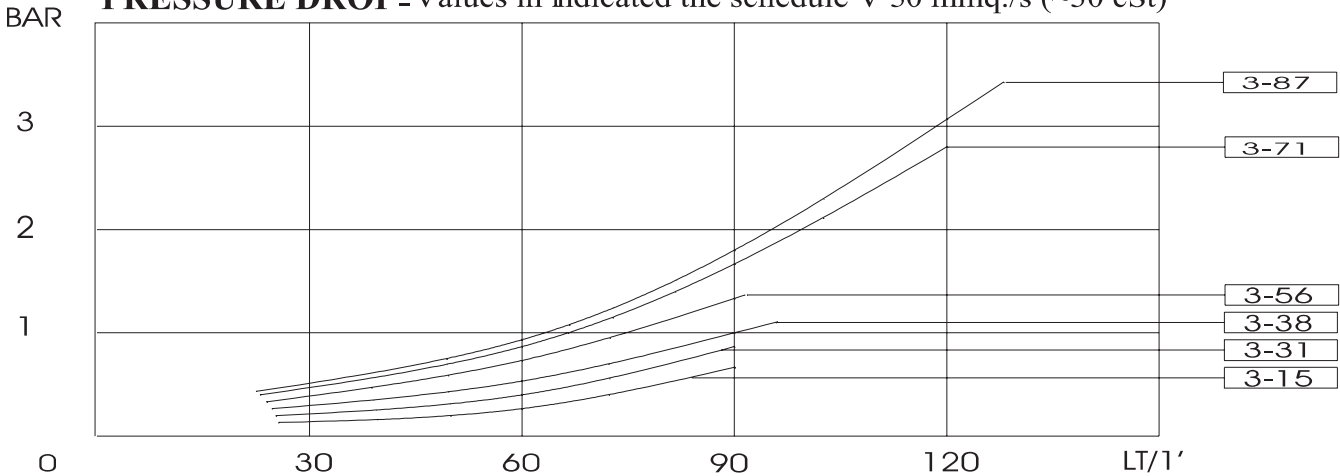
COOLERS TECHNICAL DATA

Max Working Pressure	: 12 bar
Test Pressure	: 18 bar
Max Working Temperature	: + 99° C

CORRECTION FACTOR (C) - PRESSURE DROP

CSi	10	15	20	30	40	50	60	80	100	200	300
C	0,50	0,65	0,75	1,00	1,20	1,40	1,60	1,90	2,10	3,10	4,20

PRESSURE DROP-Values in indicated the schedule V 30 mmq./s (~30 cSt)



Performance Diagrams CSW 3

DIAGRAM “ A “ Water circuit cooler 4 ways
The dissipation, expressed in HP and indicated in schedule, takes place when:

Oil inlet reaches a temperature of 55°C and a viscosity of 30 cSt.
Water cooling of 20°C with a flow of 1 Lt/min. each HP to be dissipated .

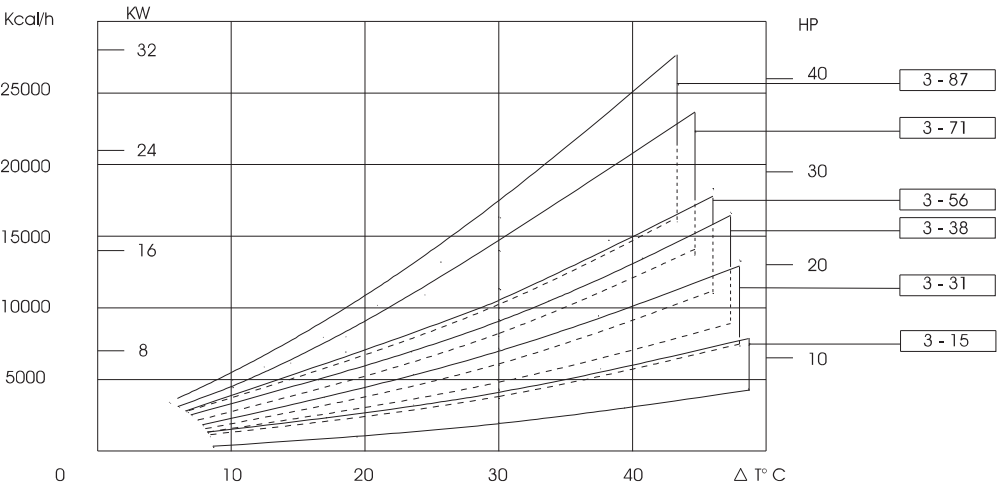


DIAGRAM “ B “ Water circuit cooler 4 ways
The dissipation, expressed in HP and indicated in schedule, takes place when:

Oil inlet reaches a temperature of 55°C and a viscosity of 30 cSt.
Water cooling of 20°C with a flow of 2 Lt/min. each HP to be dissipated .

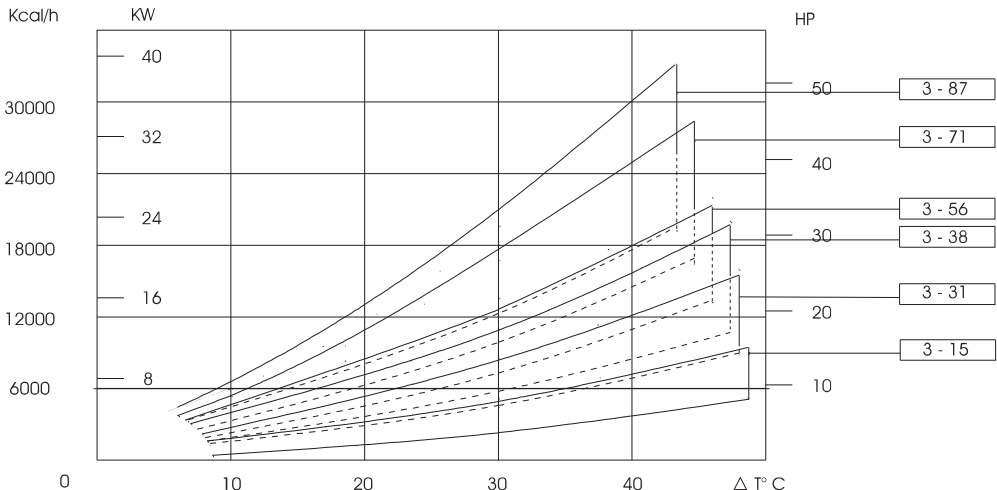
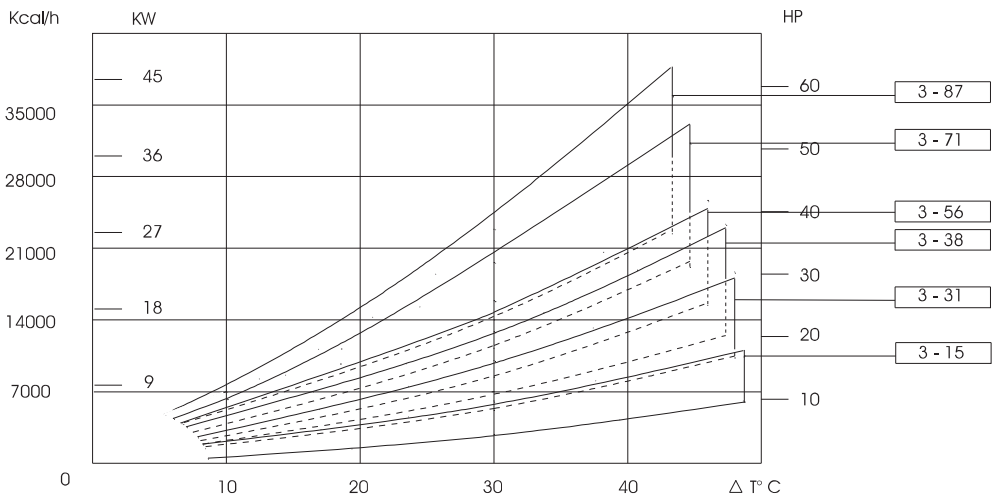


DIAGRAM “ C “ Water circuit cooler 4 ways
The dissipation, expressed in HP and indicated in schedule, takes place when:

Oil inlet reaches a temperature of 55°C and a viscosity of 30 cSt.
Water cooling of 20°C with a flow of 3 Lt/min. each HP to be dissipated .



CORRECTION FACTOR TEMP °C with oil at 55° C

Water temp	20° C	25° C	30° C	35° C
Correction factor	1	0,88	0,75	0,65