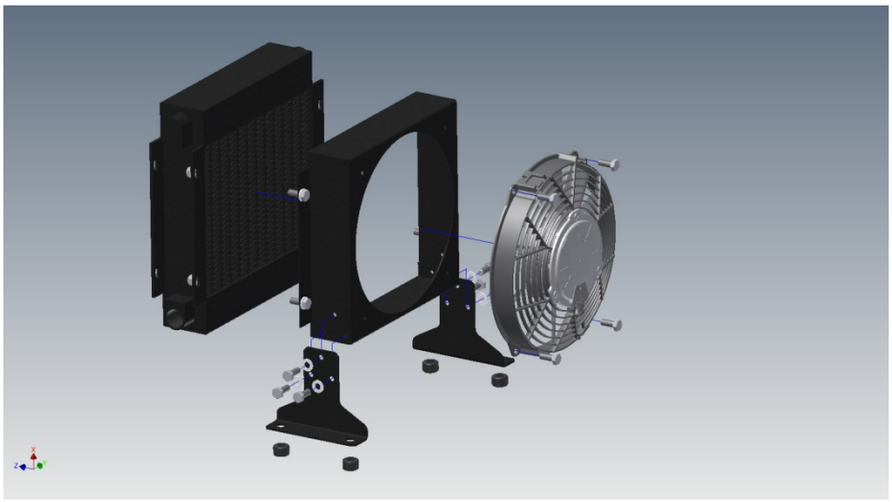
SERIE CSL

AIR/OIL HEAT EXCHANGER
SCAMBIATORI DI CALORE ARIA/OLIO

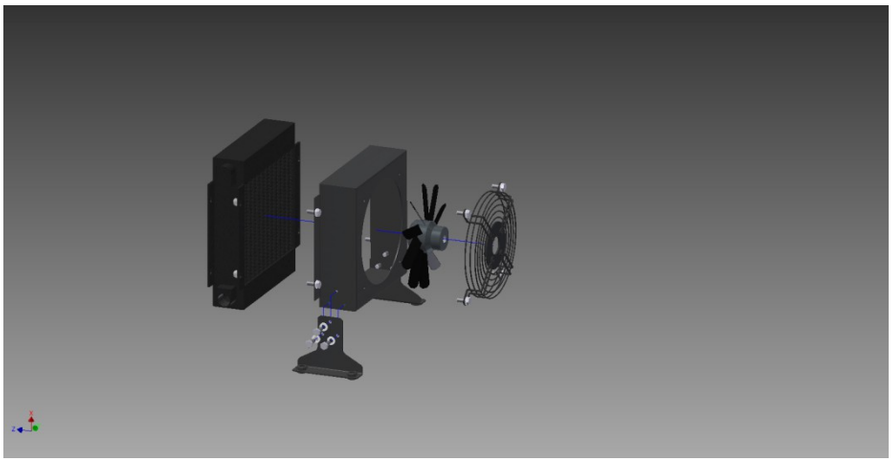
CIESSE

HEAT EXCHANGER SERIES CSL

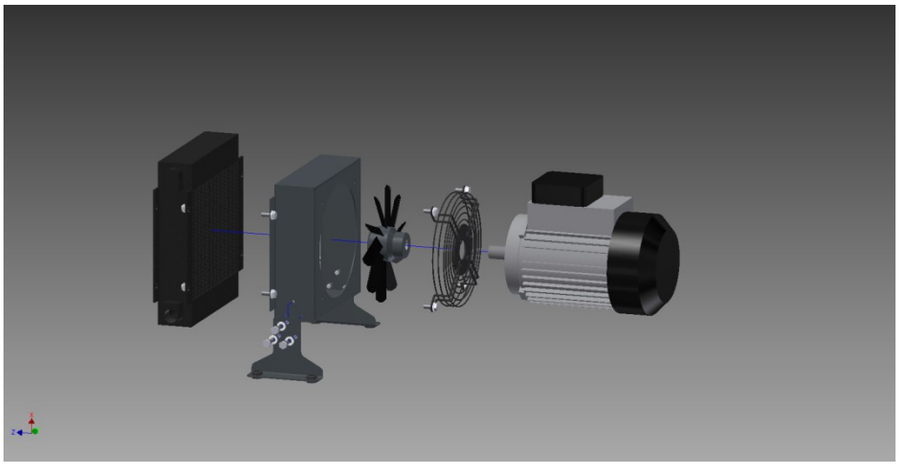
SERIES 12 and 24 V



SERIES 22 and 38 (230 and 230/400V)



SERIES G2 and 40 (for hydraulic motor and motor B14)



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NEW HEAT EXCHANGER SERIES CSLV

Cooler with the valve thermostatic by-pass incorporate

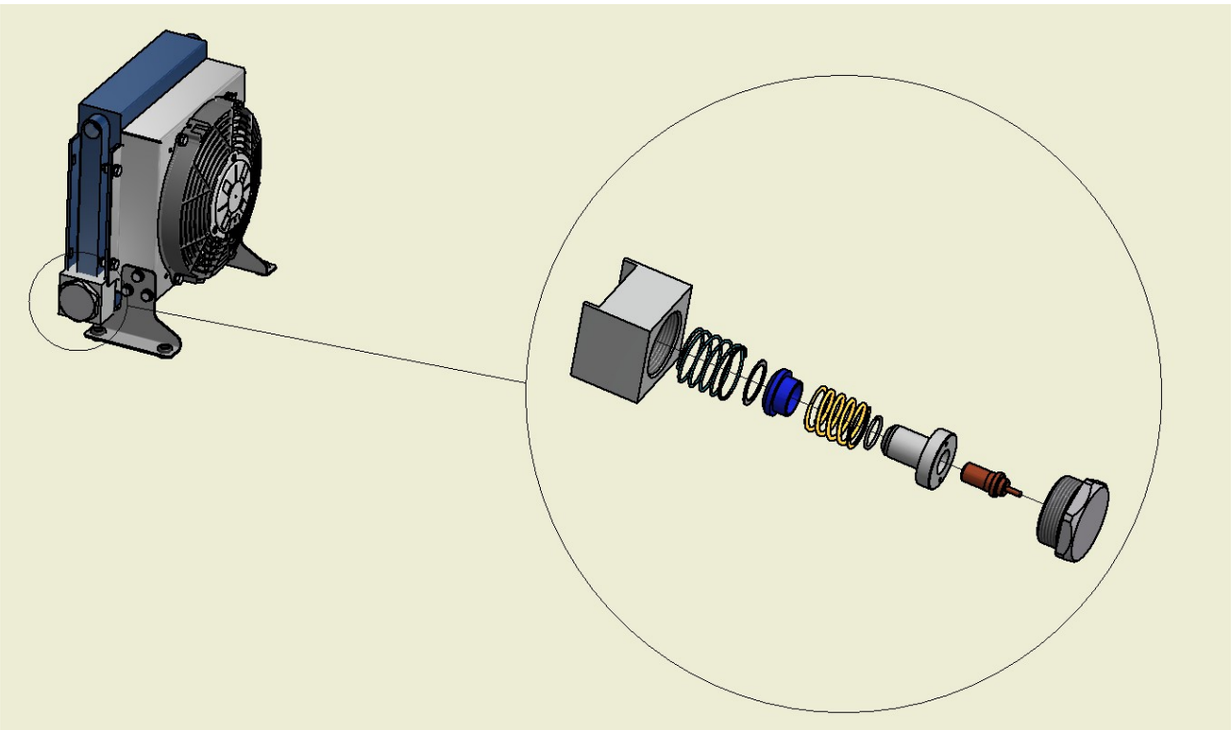
The CSLV heat exchangers series are the result of continuous research and technical development carried out, taking into account the needs expressed by the market.

One of the most common needs encountered by customers in the assembly of the heat exchangers is that they have to add an external bypass valve to allow the discharge of any high pressures, due to varying of oil viscosity and / or multiplications of the flow.

To simplify and make the assembly cheaper, the series CSLV integrates within the same block of the exchanger, the by-pass valve and the thermostatic valve, thereby ensuring the control of the peaks of pressure.

Moreover, the presence of the thermostatic valve allows, in case of freezing temperatures of the oil at the start of the system, to by-passing the oil outside the core until the oil temperature reaches 40 ° C.

This system is innovative, in that it eliminates the problem of loss of load when the oil viscosity is higher, as in the case of a cold startup. Moreover, this solution also allows to increase the temperature inside the pipes, allowing a better control of the oil temperature inside them.



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USE AND MAINTENANCE HEAT XCHANGER AIR – OIL

INSTALLATION

Air/oil heat exchanges are generally used for cooling oleodynamic equipments linked on the exhaust line where the exercise pressure isn't over 20 bar (max pressure admited for air/oil heat exchangers). If the exhaust pressure is over 20 bar (flow multiplication, oil viscosity) the heat exchangers are placed into indipendent cooling systems with recirculation pump and by-pass.
It's advisable to mount the heat exchangers on anti-vibrants and to link inlets and outlets with flexible tubing The heat xchangers must be installed in order that there aren't obstacles to the air flow: the anterior and posterior distance has to be as much or superior to the radius of the fan mounted (scheme 2). If he oleodynamic equipment is placed in environments where the oil temperature is subject to hight temperature range it's advisable to mount a by-pass valve since with low temperatures oil viscosity rises considerably causing hight pressure drops that, in most cases, are bigger than the max pressure allowed. (scheme 1)

FLUID COMPATIBLE

Mineral oil, hl, hlp, water-oil emulsion, water-glycol. For the other fluids, please consult the Technical Department of CIESSE

THECNICAL SPECIFICATION OF THE HEAT EXCHANGER PARTS

- Cooler Material: " Aluminium "
- Max Working Temperature: " + 120 °C "
- Min Working Temperature: " – 20 °C "
- Max Working Pressure: " 20 bar "
- Test Pressure: " 30 bar "
- Max Oil Viscosity: " 300 cst "
- For Other Information, Please See The Internal Data, Or Contact The Thecnical department.

ELECTRIC PART LINKING

Please be sure that Tension V, frequency Hz and rotation direction of the electric fan are as shown by the plate mounted on the heat exchangers. Follow accurately what's written in the electric scheme attached (scheme 3).

AIR SIDE MAINTENANCE

Disconnect electrically the heat exchanger. Disassemble the conveyor, electric fan and thermosta (if present). All the impurities can be removed with a warm water jet paying attention that its direction is parallel to the fins to help with the discharge of the dirt.

OIL SIDE MAINTENANCE

Disconnect hydraulically he heat exchanger.flux against the flow the heat exchanger with degreasing substances not aggressive for aluminium. The intensity of the dirt will determine the duration of this operation that usually lasts from 15 to 30 minutes. In case the desired clening isn't achieved repeat the operation as many times ad needed.

STORAGE

Make sure that during the movement and repositioning. The turbinates air hoses and couplings are protected. For storage aver 18 months flush the inside part of the Oil heat exchanger with oil the inside of glycol with glycolate. this

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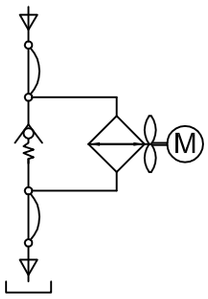
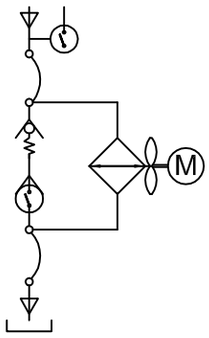
SCHEMA n°1

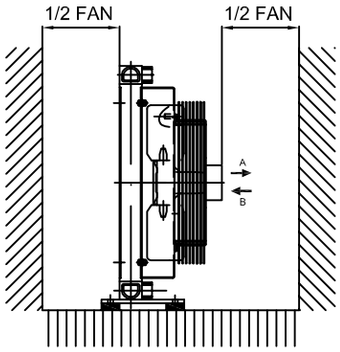
CSL



CSLV



SCHEMA n°2

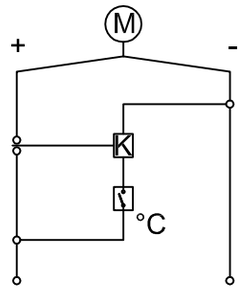


ATTENTION: THE CSLV VERSION, CAN BE PROVIDED AS FOLLOWS:

- Complete, with the termostatic valve and by-pass,
- With only by-pass element,
- With only valve termostatic element.

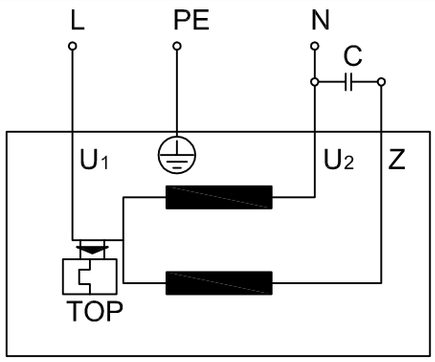
SCHEMA n°3

CONNECTION 12 -24V DC



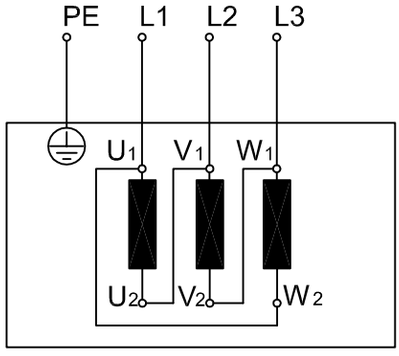
+ = RED
- = BLACK
K = RELE'
°C = THERMOSTAT

CONNECTION 230V MONOPHASE



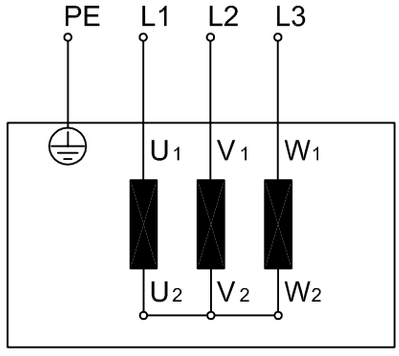
U1 = BU
U2 = BK
U = BN
= GNYE

CONNECTION Delta (3~ 230 VAC)



U1 = BK
U2 = GN
V1 = BU
V2 = WH
W1 = BN
W2 = YE
= GNYE

CONNECTION Star (3~ 400 VAC)



U1 = BK
U2 = GN
V1 = BU
V2 = WH
W1 = BN
W2 = YE
= GNYE

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Sheet for cooler selection / Modulo richiesta dati

Date / Data :

Customer / Cliente:

Name of applicant / Nome del richiedente:

Phone / Telefono:

				Note
Total power engine	Potenza installata:	KW		
Power to be dissipated	Potenza da dissipare	KW		
Oil flow rate	Portata olio	lmp		
Inlet oil temperature	Temperatura ingresso olio	°C		
Max ambient temperature	Temperatura massima ambiente	°C		
Oil viscosity	Viscosità olio	cst		
Voltage type	Tipo di voltaggio	V		
Direction air flow	Direzione flusso aria			
Thermostat	Termostato	°C		
Thermostatic valve	Valvola termostatica			
By-pass tarature	Taratura by- pass	bar		

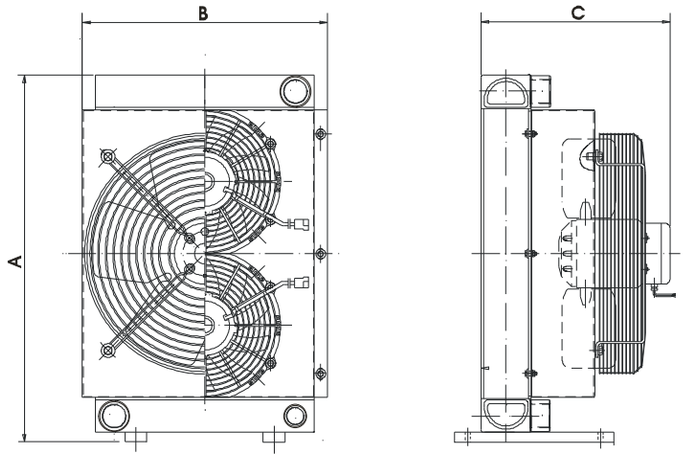
MAX DIMENSION AVAILABLE

INGOMBRI MASSIMI DISPONIBILI

A =

B =

C =



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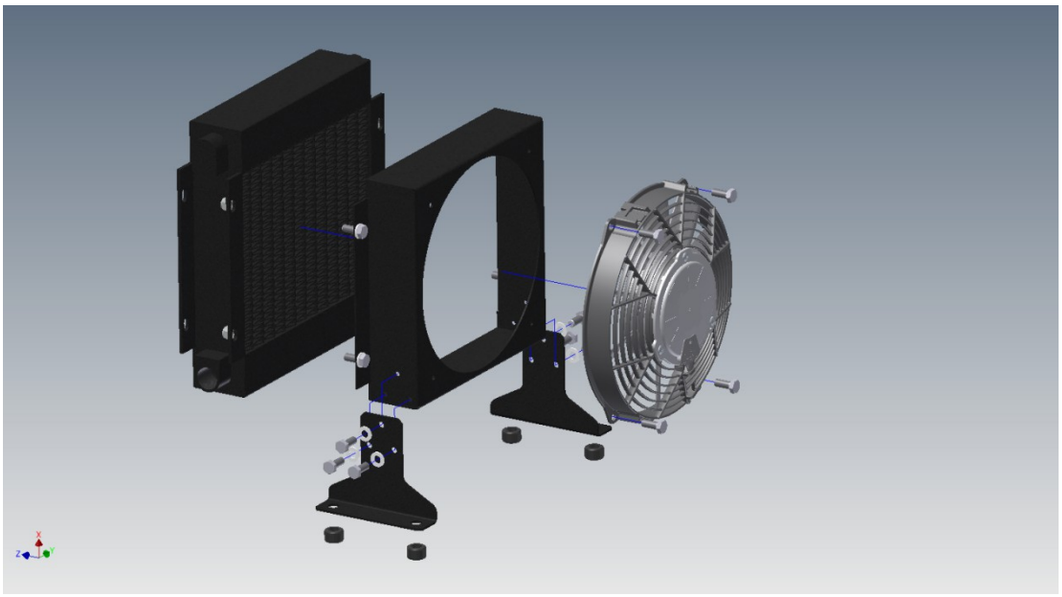
Key for CSL air-oil coolers



All positions must be filled in when ordering. **FOR EXAMPLE:** **CSL 1 . 12 . A . 00 2**

AIR – OIL COOLER TYPE:

CSL (standard series)

COOLERS SEIZE:

04 – 05 – 1 – 2 – 3 – 4 – 5

MOTOR VOLTAGE:

12 (12V) – 24 (24V) - 22 (230V) - 38 (230/400V)

G2 (for Hydraulic motor Gr.2) – 40 (Motor B14)

AIR FLOW:

A = Air flow suction - B = Air flow blowing

THERMO CONTACT:

00 = No thermo contact

38 = 38°C - 27°C

47 = 47°C - 36°C

60 = 60°C - 49°C

70 = 70°C - 59°C

80 = 80°C - 69°C

TR = 0°C -100°C

PASSAGES:

/ = Single pass.

2 = Two pass

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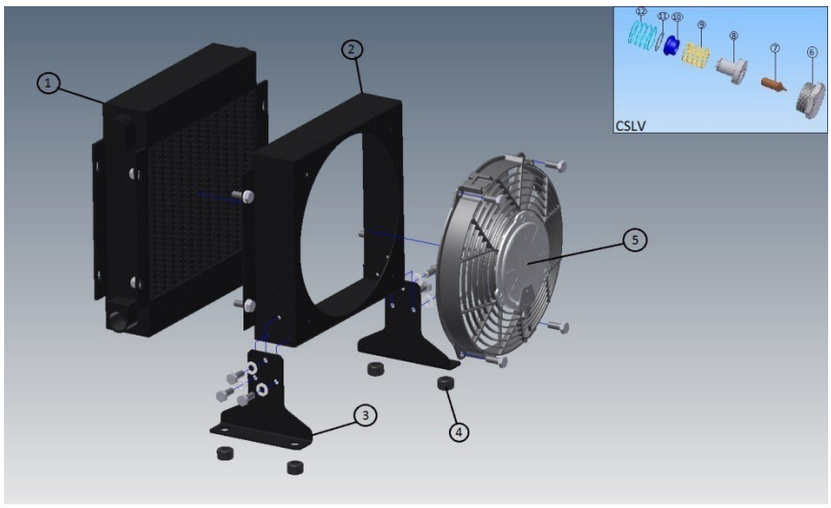
Key for CSLV air-oil coolers



FOR EXAMPLE: **CSLV 1 . 12 . A . 00 2 . 06 . 01**

AIR – OIL COOLER TYPE:

CSLV (Air – Oil coolers with valve thermostatic by-pass)

COOLERS SEIZE:

04 – 05 – 1 – 2 – 3 – 4 – 5

MOTOR VOLTAGE:

12 (12V) – 24 (24V) – 22 (230V) – 38 (230/400V)

G2 (for Hydraulic motor) – 40 (Motor B14)

AIR FLOW:

A = Air flow suction - B = Air flow blowing

THERMO CONTACT:

00 = No thermo contact
38 = 38°C - 27°C
47 = 47°C - 36°C
60 = 60°C - 49°C
70 = 70°C - 59°C
80 = 80°C - 69°C
TR = 0°C -100°C

PASSAGES:

0 = Single pass.
2 = Two pass

BY-PASS TARATURE:

03 = By-pass 3 bar
06 = By-pass 6 bar
08 = By-pass 8 bar

THERMOSTATIC VALVE:

00 = Without valve
01 = With thermostatic valve 40°C

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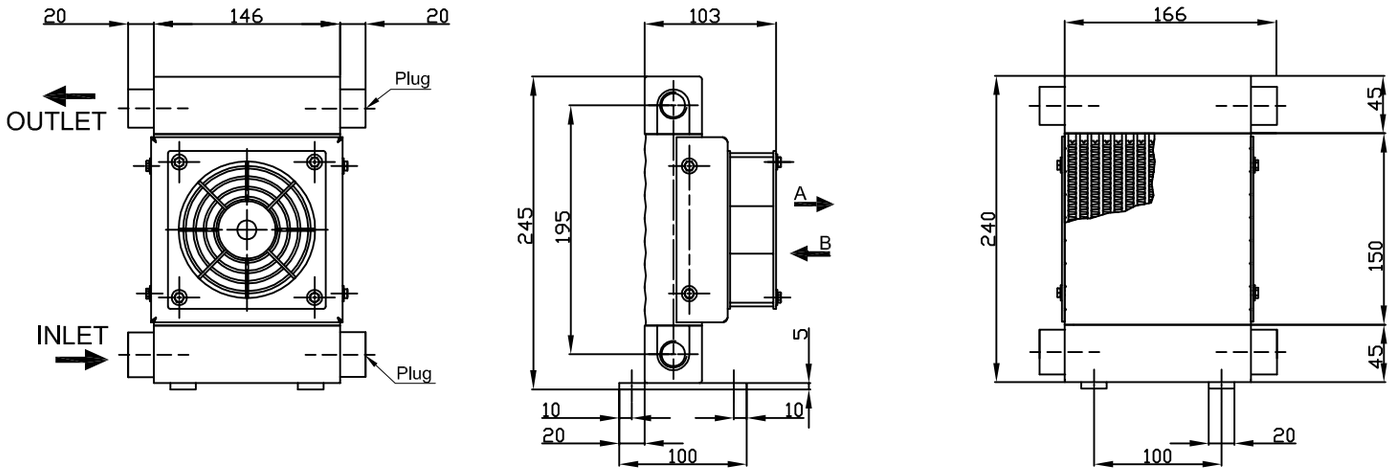
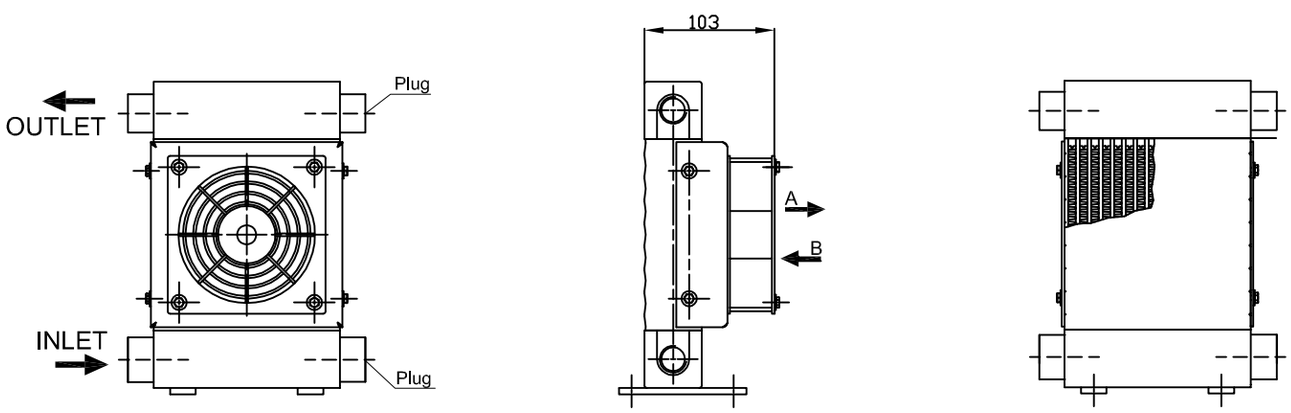
Air - Oil coolers series CSL04

Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL04.12.0.00	12	DC	2800	140	0.0035	0.6	108	20	45	1.15	3	Black
CSL04.24.0.00	24	DC	2800	140	0.0033	0.2	107	20	45	1.15	3.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL04.22.0.00	230	50/60	2650/3100	125	0.019/0.017	0.14	105	20	42	1.15	3.2	Black



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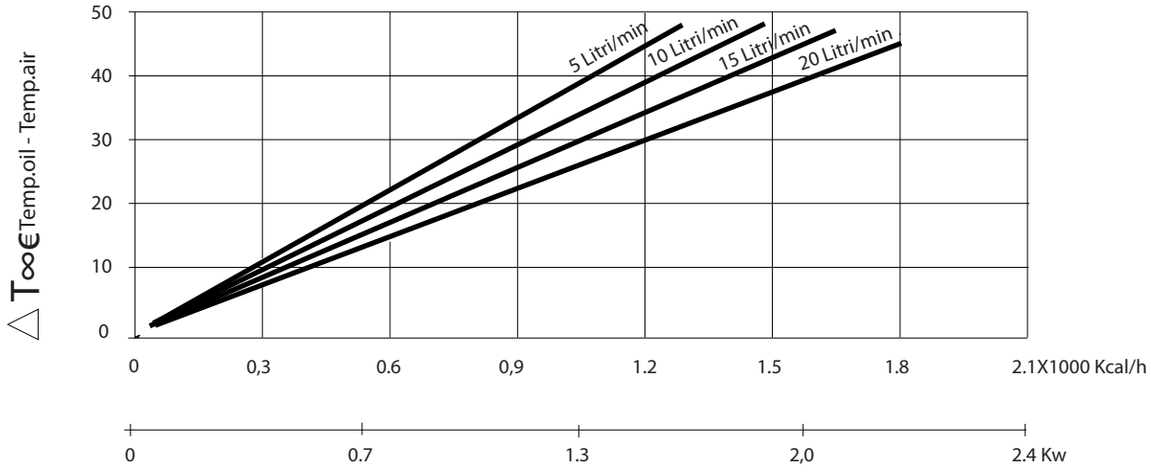
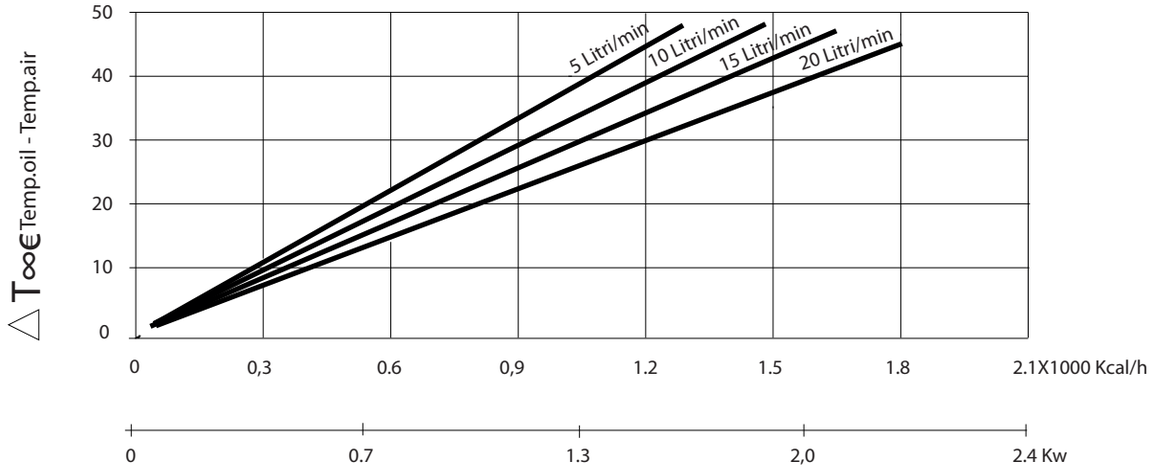
CSL04

THERMIC EFFICIENCY FOR 12-24 DC



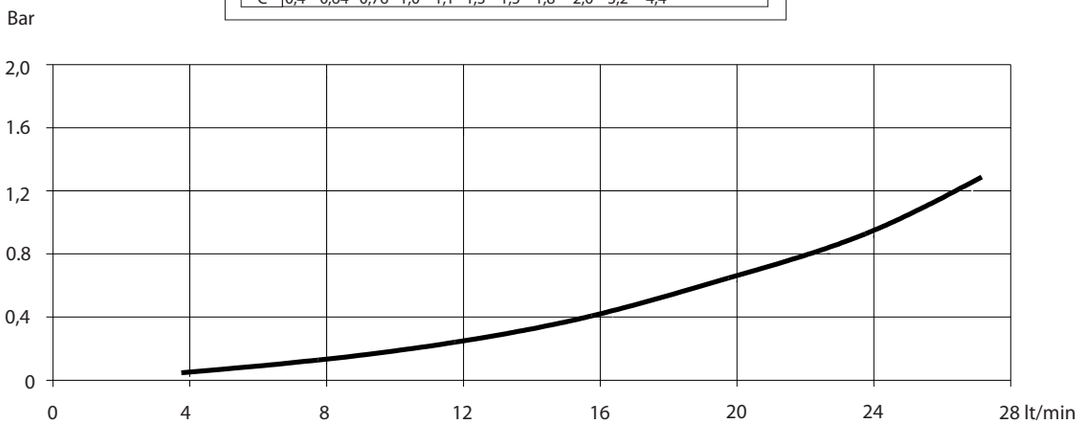
THERMIC EFFICIENCY FOR 22 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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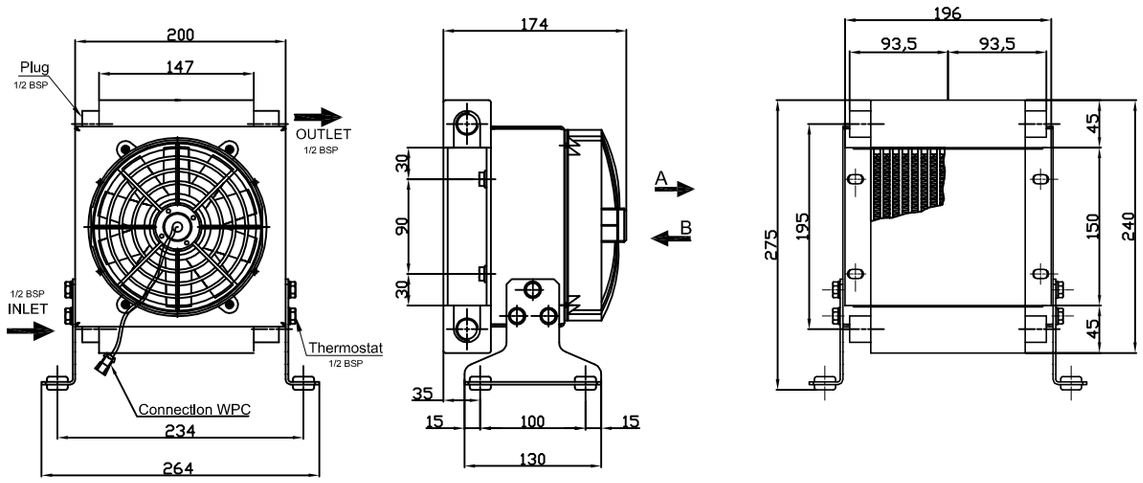
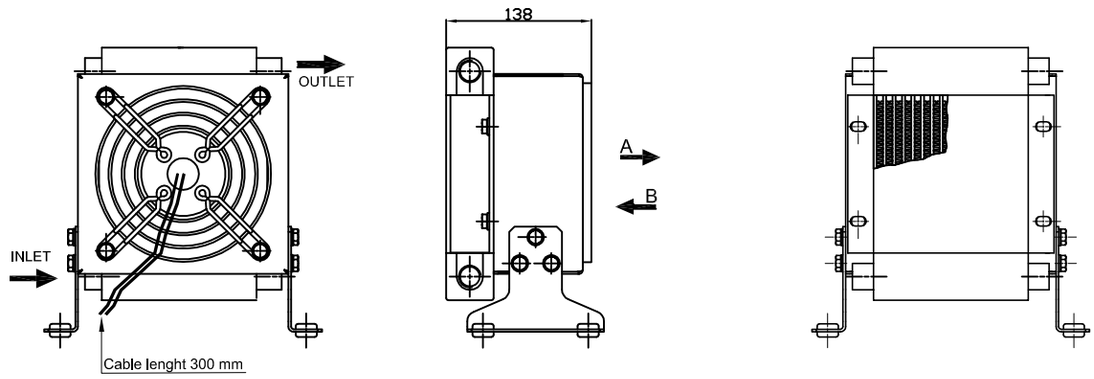
Air - Oil coolers series CSL05

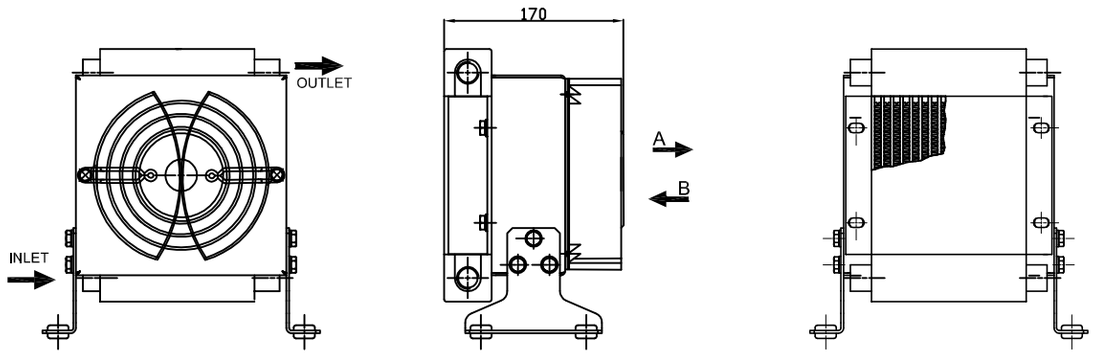
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL05.12.0.00	12	DC	4200	430	0.080	4.5	167	68	68	1.3	4	Black
CSL05.24.0.00	24	DC	4300	440	0.080	2.3	167	68	68	1.3	4	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL05.22.0.00	230	50/60	2650	240	0.045	0.21	170	54	67	1.3	5	Black
CSL05.38.0.00	230/400	50/60	2950	240	0.045	0.12	170	54	63	1.3	5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL05.22.0.00ECO	230	50	2650	260	0.045	0.56	170	54	67	1.3	4.5	Black



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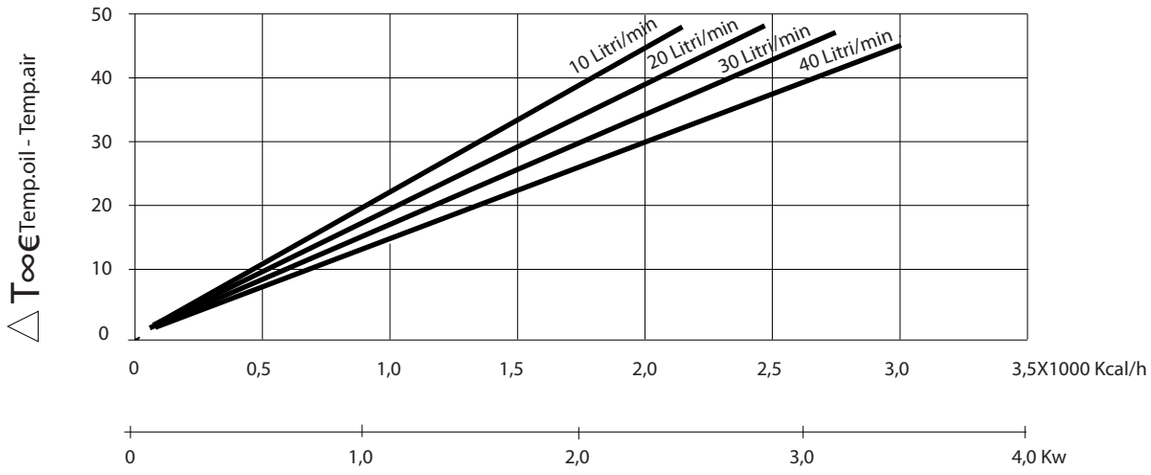
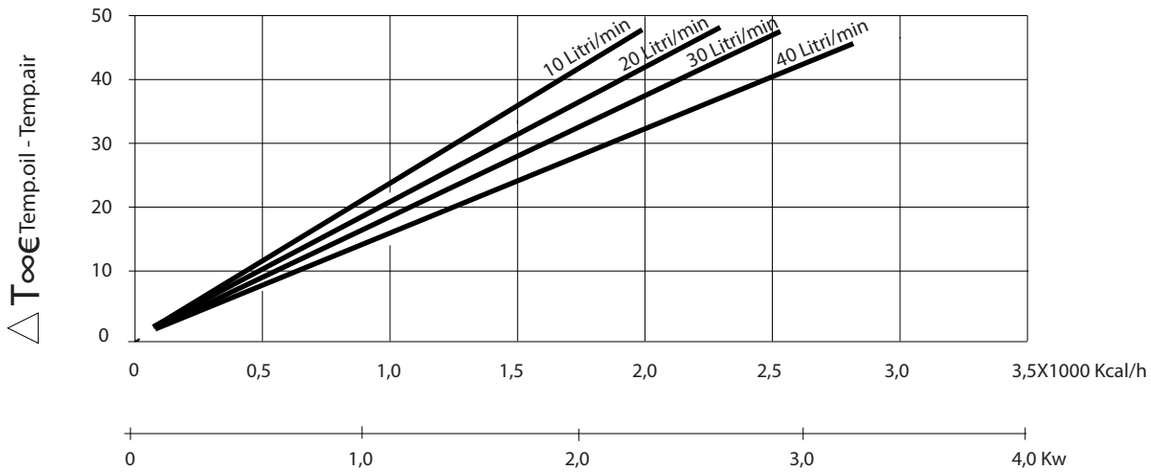
CSL05

THERMIC EFFICIENCY FOR 12-24 DC



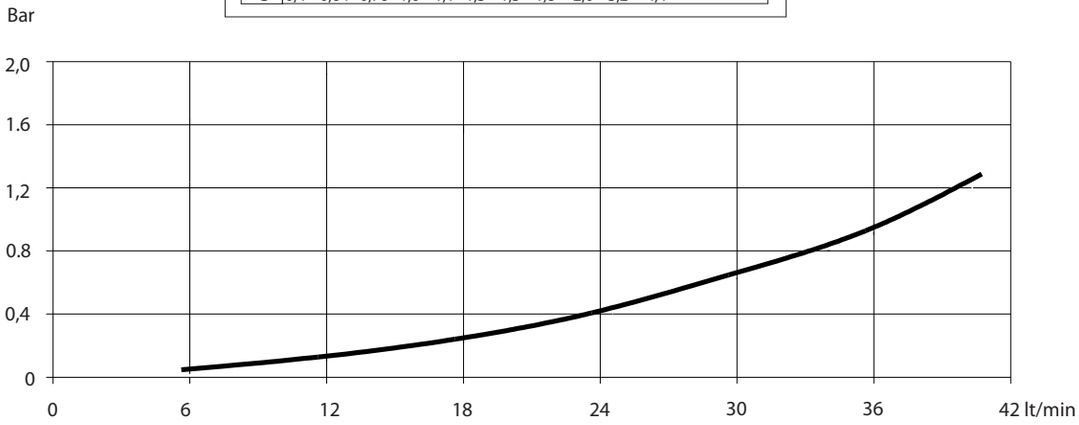
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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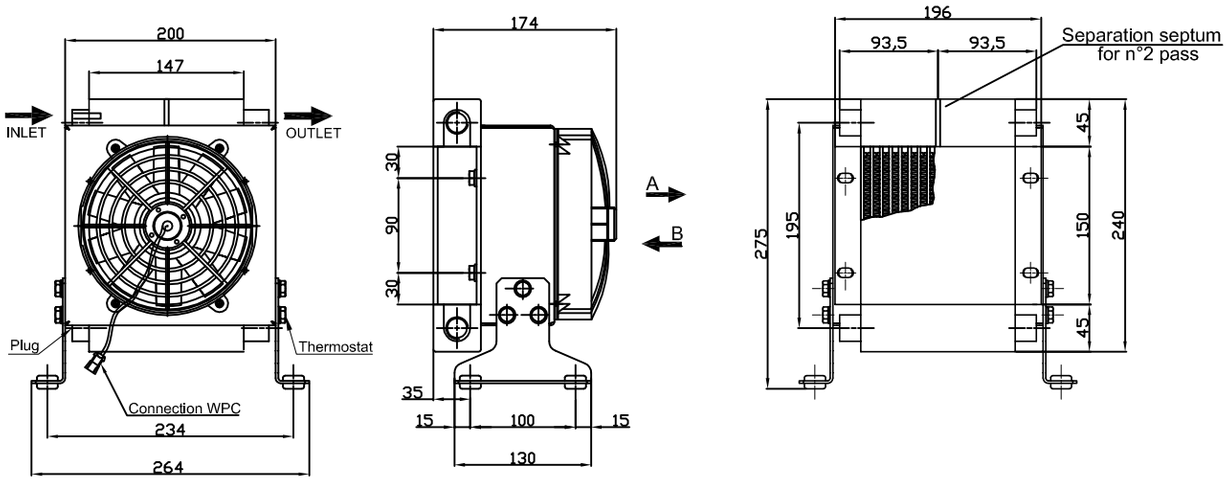
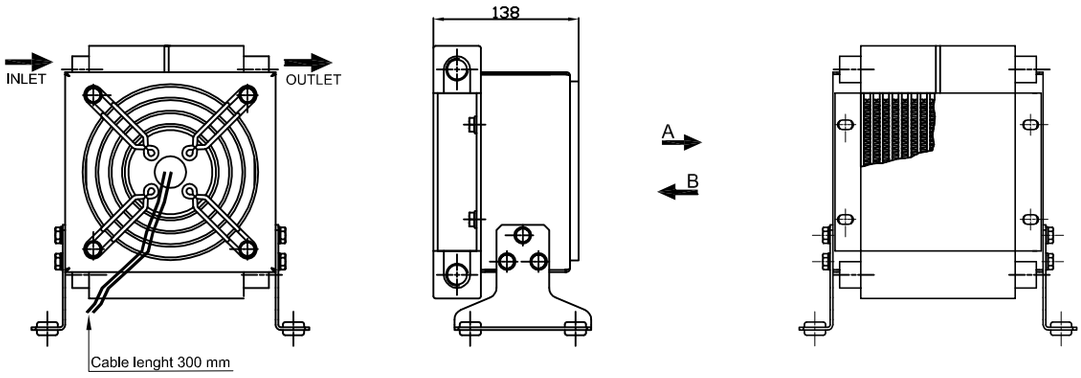
Air - Oil coolers series CSL05 - 2 Passages

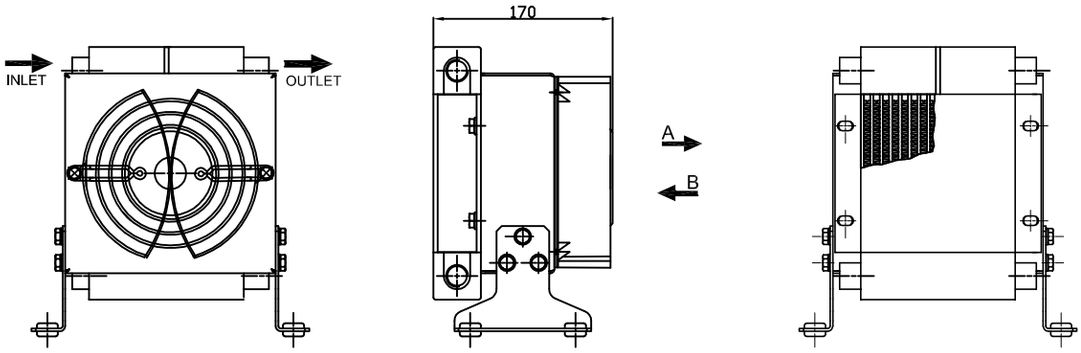
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL05.12.0.002	12	DC	4200	430	0.080	4.5	167	68	68	1.3	4.2	Black
CSL05.24.0.002	24	DC	4300	440	0.080	2.3	167	68	68	1.3	4.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL05.22.0.002	230	50/60	2650	240	0.045	0.21	170	54	67	1.3	5	Black
CSL05.38.0.002	230/400	50/60	2950	240	0.045	0.12	170	54	63	1.3	5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL05.22.0.00ECO	230	50	2650	260	0.045	0.56	170	54	67	1.3	4.5	Black



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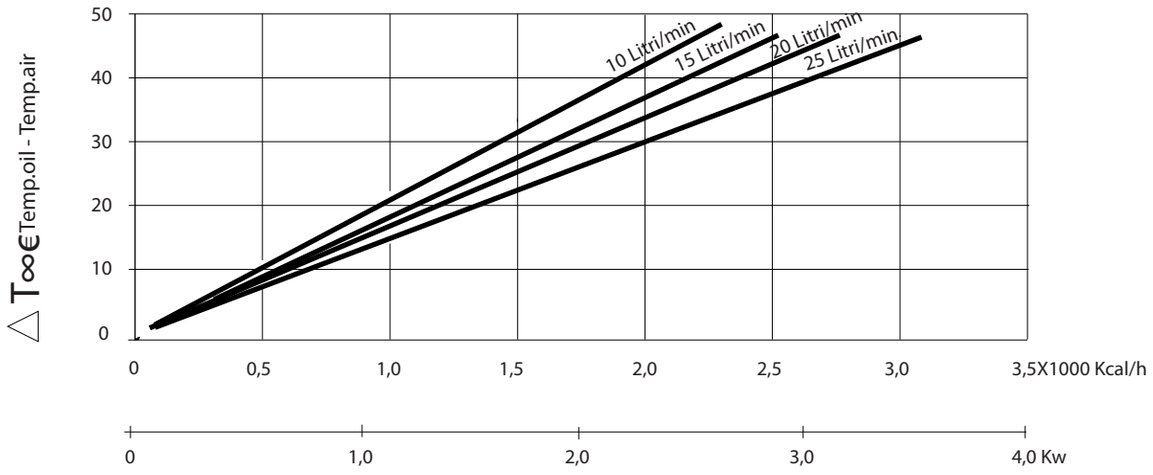
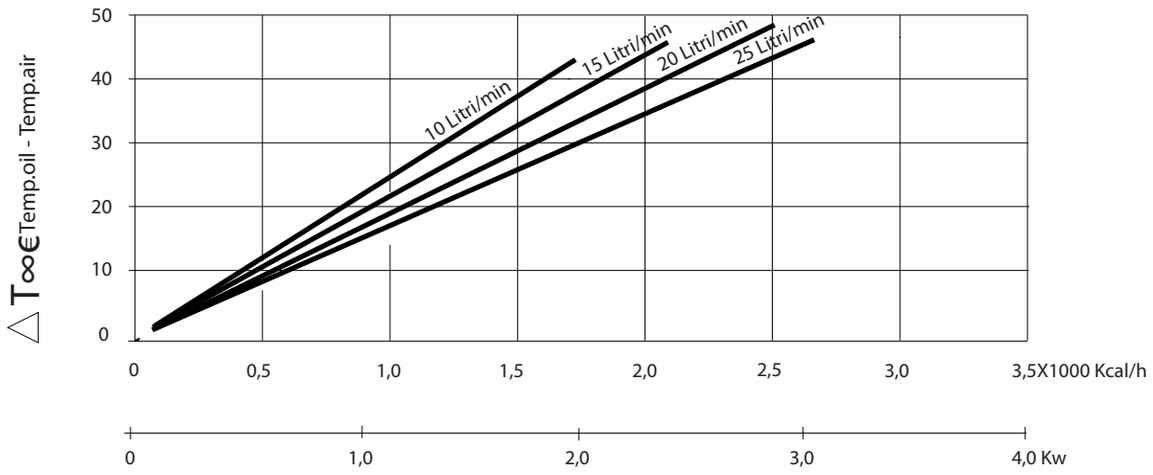
CSL05.2P

THERMIC EFFICIENCY FOR 12-24 DC



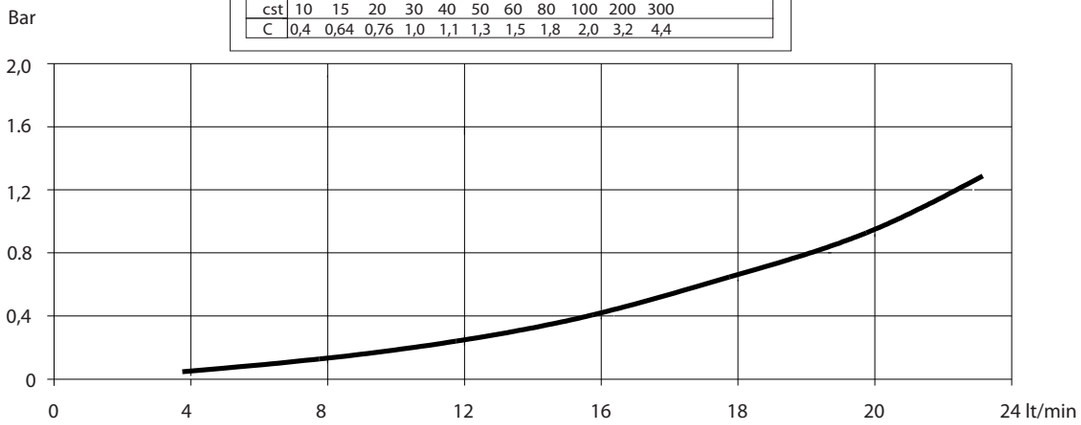
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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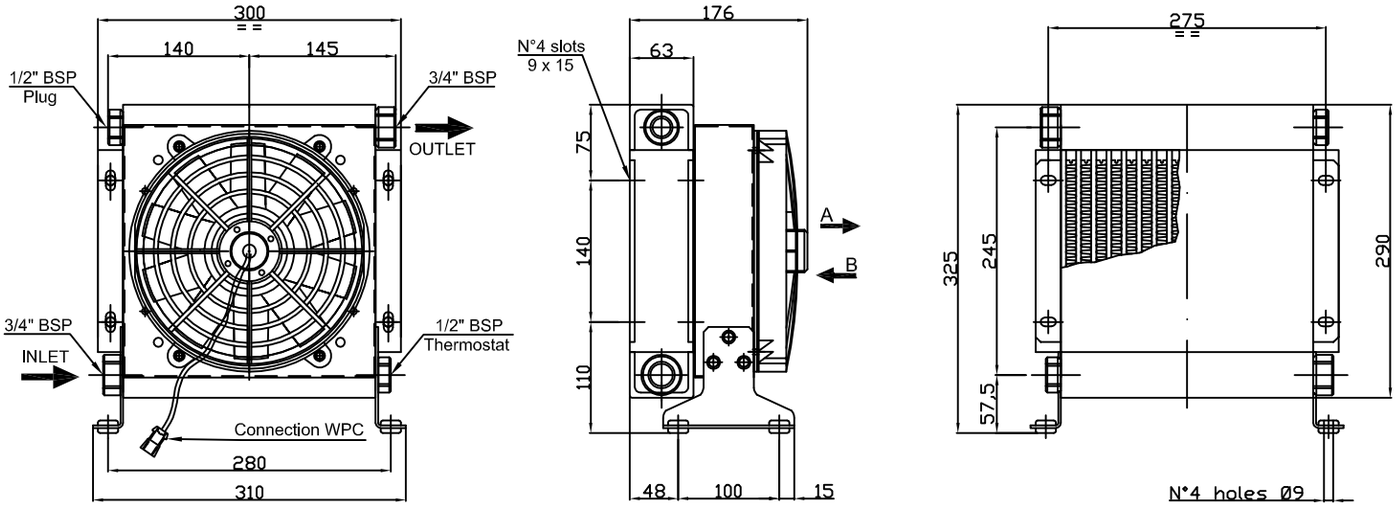
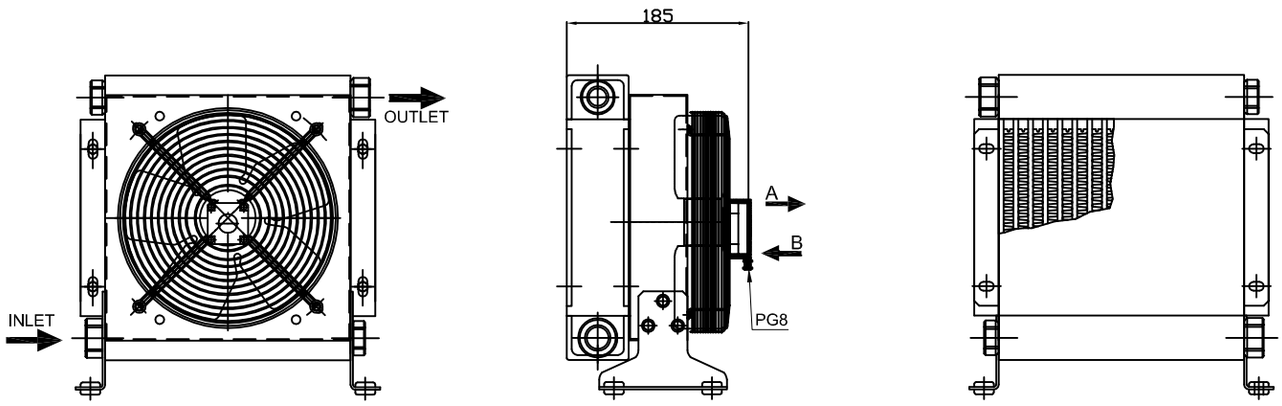
Air - Oil coolers series CSL1

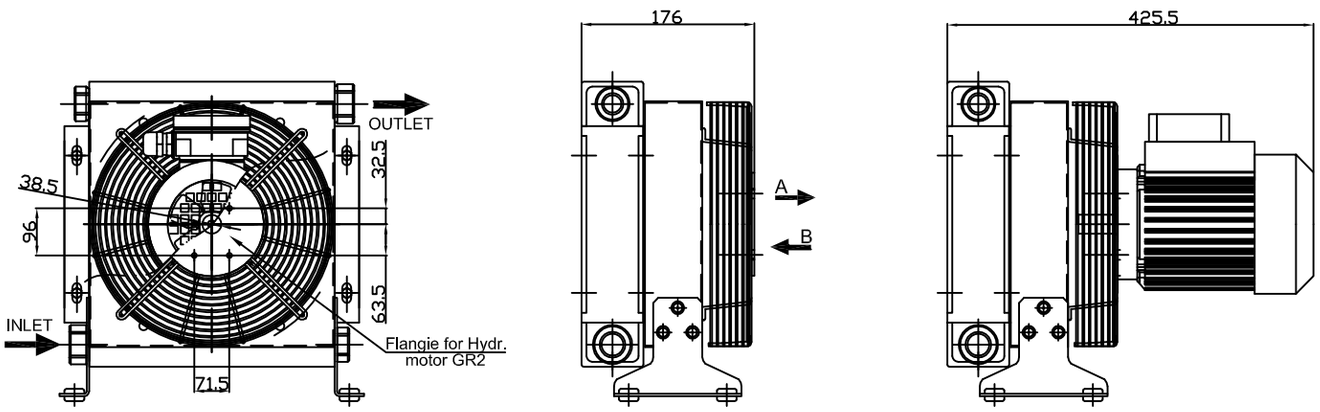
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1.12.0.00	12	DC	3100	900	0.090	5.9	225	68	72	1.9	5.5	Black
CSL1.24.0.00	24	DC	3050	885	0.100	2.7	225	68	72	1.9	5.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1.22.0.00	230	50/60	3200	810	0.085	0.55	200	44	66	1.9	6	Black
CSL1.38.0.00	230/400	50/60	2800	810	0.068	0.31	200	44	66	1.9	6	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1.G2.0.00	//	//	//	//	//	//	200	//	//	1.9	6.5	Black
CSL1.40.0.00	230/400	50/60	1350	400	0.250	0.72	200	55	67	1.9	10	Black



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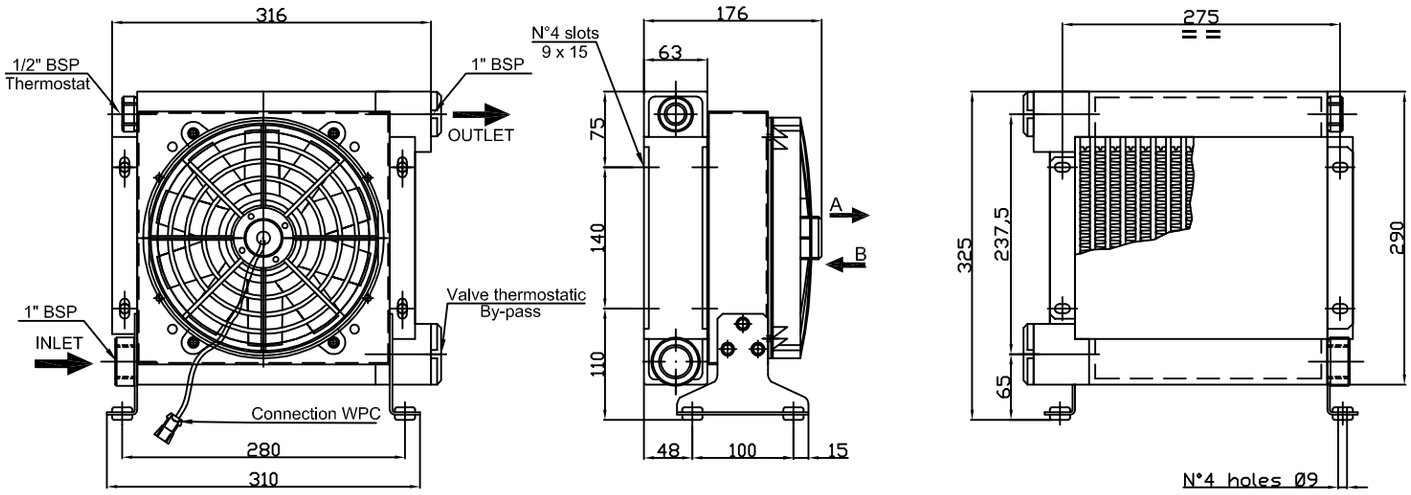
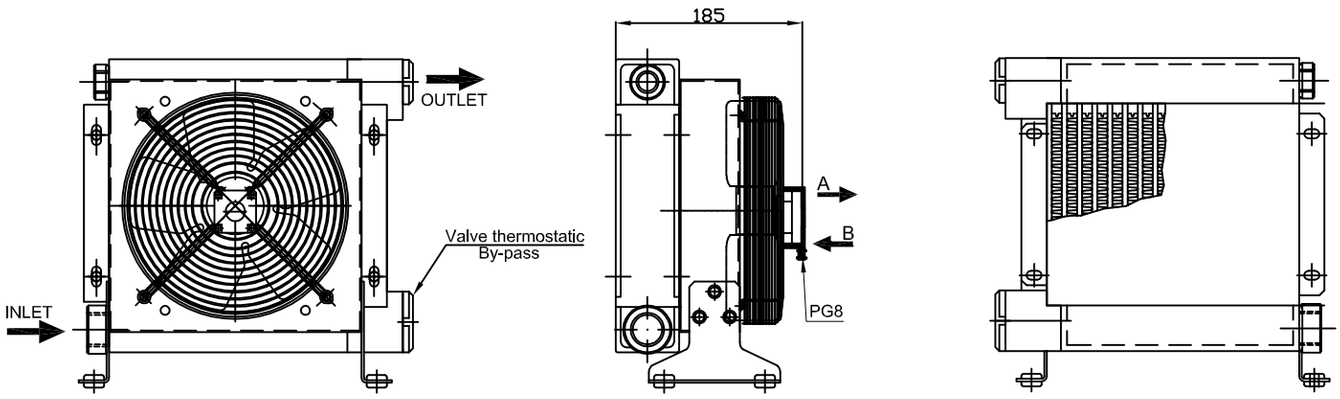
Air - Oil coolers series CSLV1

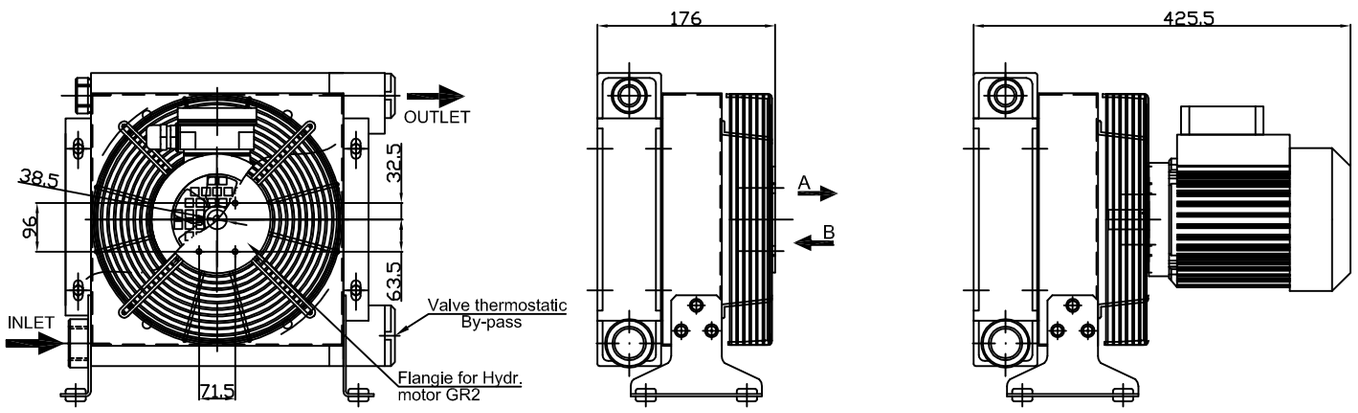
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1.12.0.00	12	DC	3100	900	0.090	5.9	225	68	72	1.9	6.5	Black
CSLV1.24.0.00	24	DC	3050	885	0.100	2.7	225	68	72	1.9	6.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1.22.0.00	230	50/60	3200	810	0.085	0.55	200	44	66	1.9	7	Black
CSLV1.38.0.00	230/400	50/60	2800	810	0.068	0.31	200	44	66	1.9	7	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1.G2.0.00	//	//	//	//	//	//	200	//	//	1.9	7.5	Black
CSLV1.40.0.00	230/400	50/60	1350	400	0.250	0.72	200	55	67	1.9	11	Black



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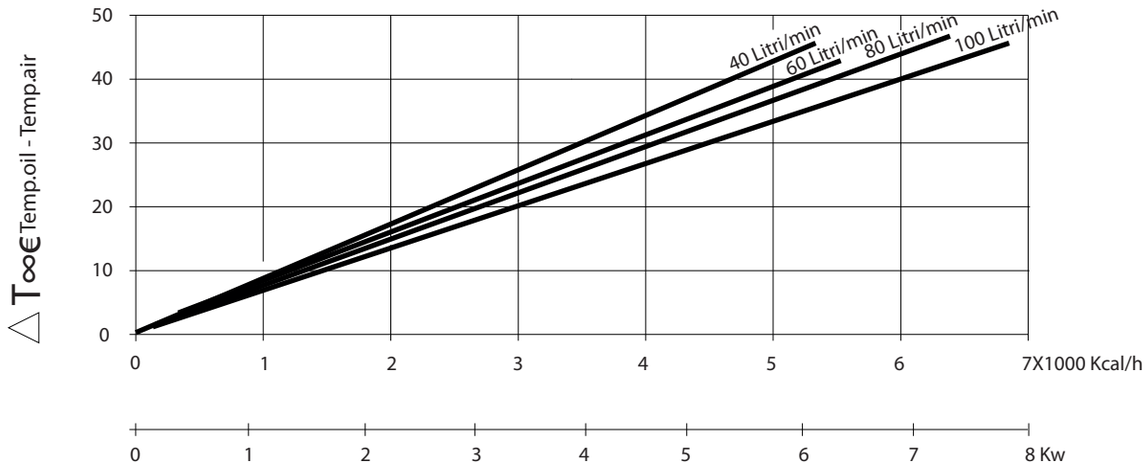
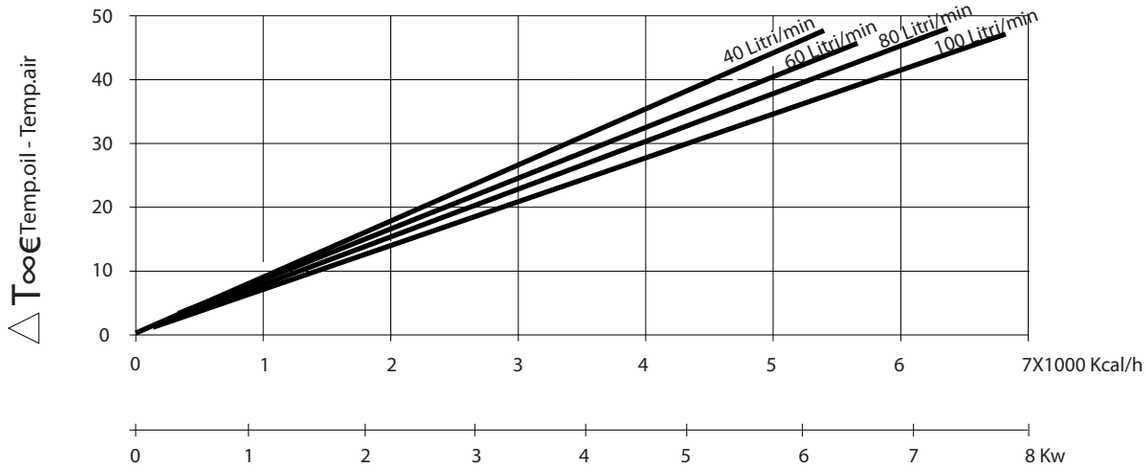
CSL1 and CSLV1

THERMIC EFFICIENCY FOR 12-24 DC



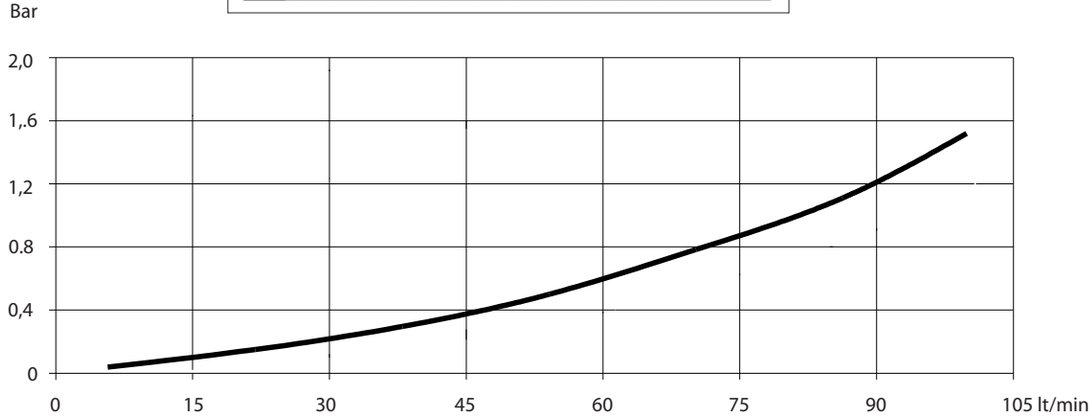
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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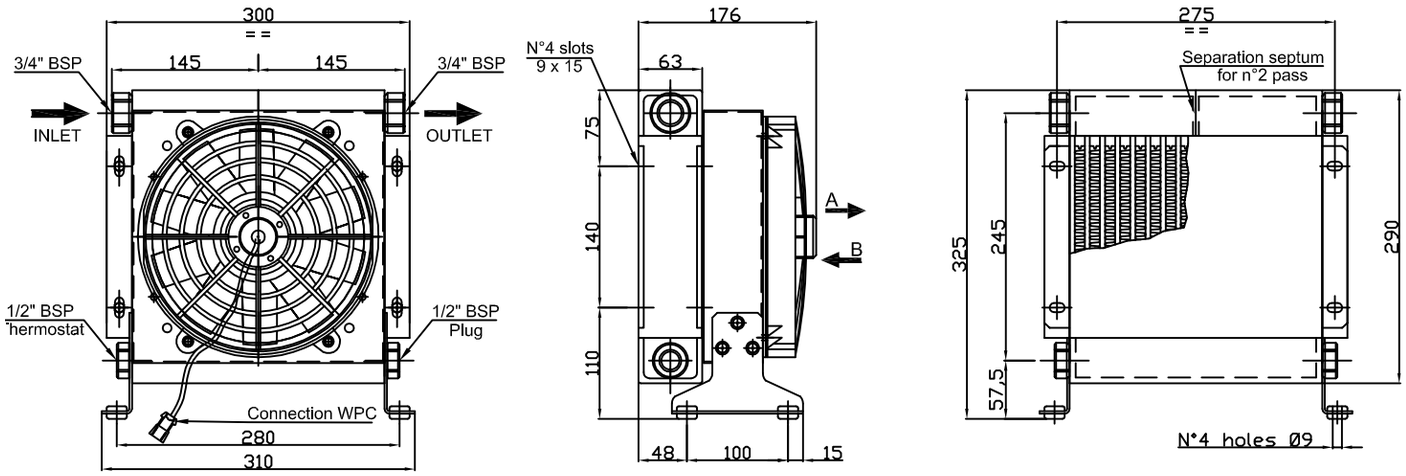
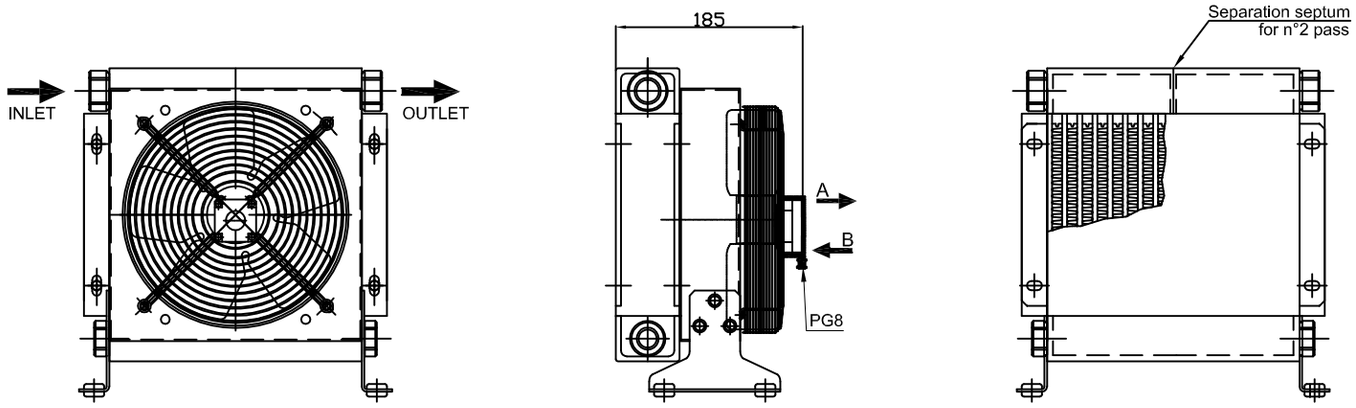
Air - Oil coolers series CSL1 - 2 Passages

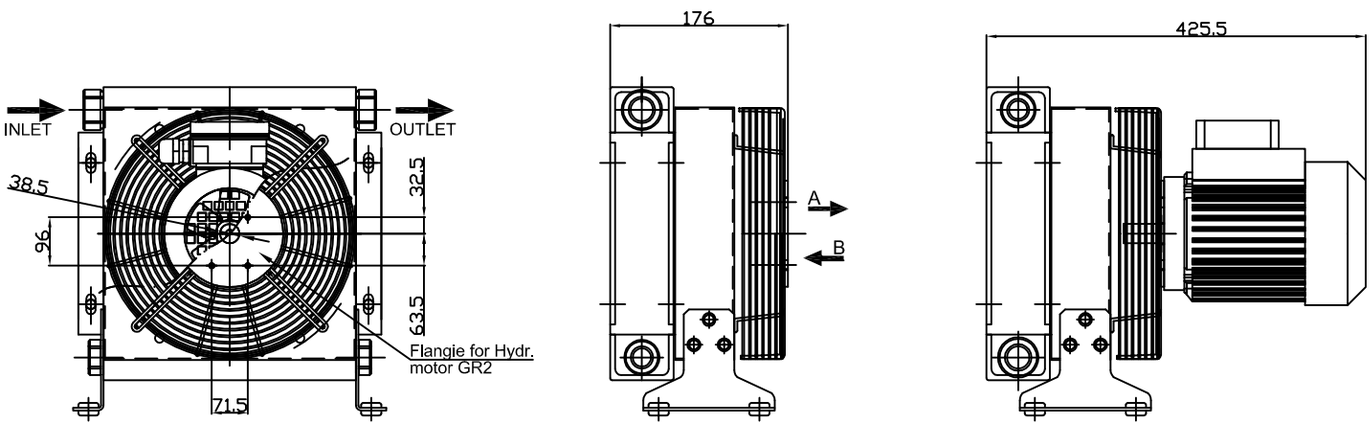
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1.12.0.002	12	DC	3100	900	0.090	5.9	225	68	72	1.9	5.7	Black
CSL1.24.0.002	24	DC	3050	885	0.100	2.7	225	68	72	1.9	5.7	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1.22.0.002	230	50/60	3200	810	0.085	0.55	200	44	66	1.9	6.2	Black
CSL1.38.0.002	230/400	50/60	2800	810	0.068	0.31	200	44	66	1.9	6.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1.G2.0.002	//	//	//	//	//	//	200	//	//	1.9	6.7	Black
CSL1.40.0.002	230/400	50/60	1350	400	0.250	0.72	200	55	67	1.9	10.2	Black



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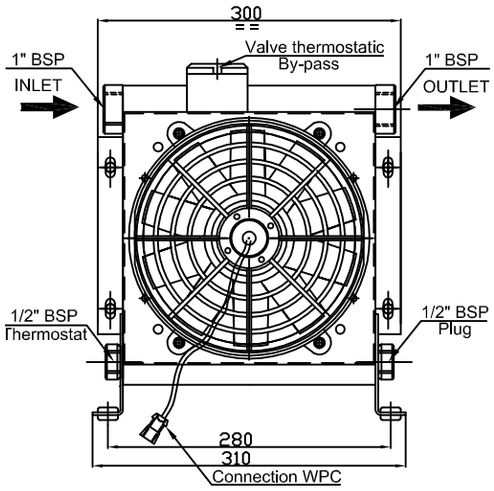
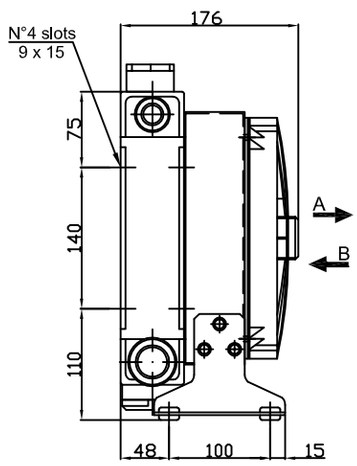
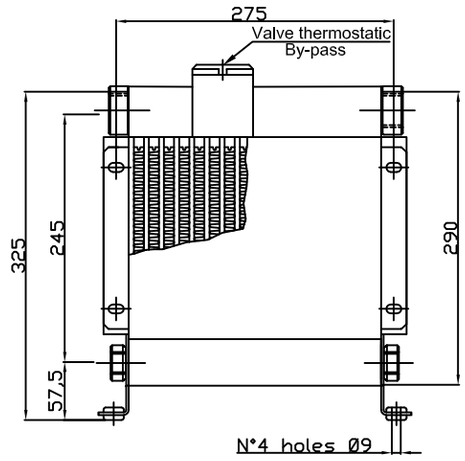
Air - Oil coolers series CSLV1 - 2 Passages

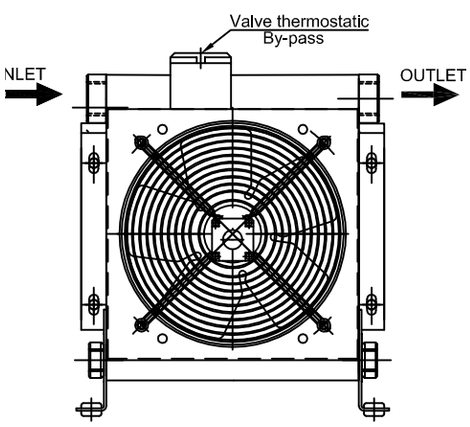
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1.12.0.002	12	DC	3100	900	0.090	5.9	225	68	72	1.9	6.7	Black
CSLV1.24.0.002	24	DC	3050	885	0.100	2.7	225	68	72	1.9	6.7	Black

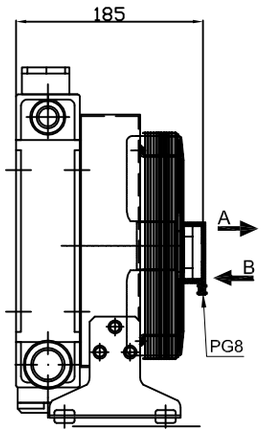


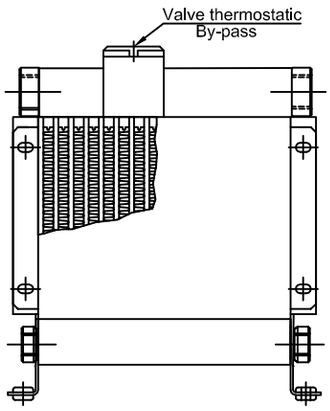




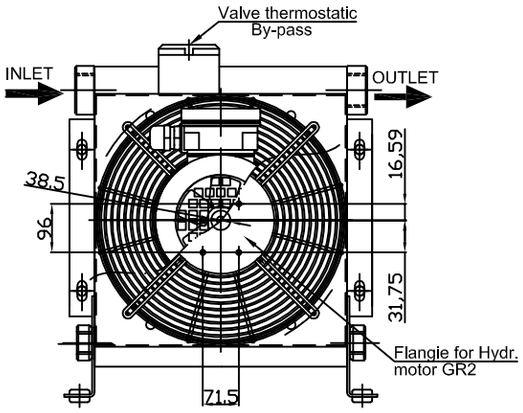
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1.22.0.002	230	50/60	3200	810	0.085	0.55	200	44	66	1.9	7.2	Black
CSLV1.38.0.002	230/400	50/60	2800	810	0.068	0.31	200	44	66	1.9	7.2	Black

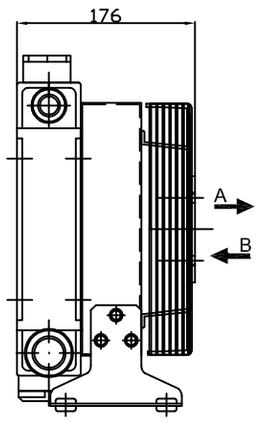


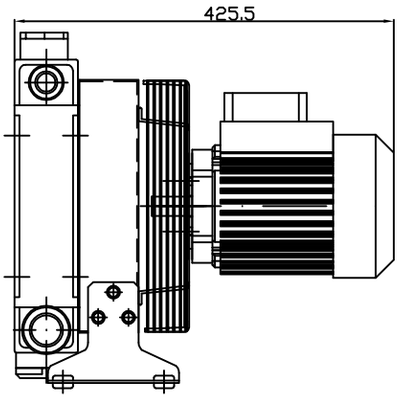




Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1.G2.0.002	//	//	//	//	//	//	200	//	//	1.9	7.7	Black
CSLV1.40.0.002	230/400	50/60	1350	400	0.250	0.72	200	55	67	1.9	11.2	Black







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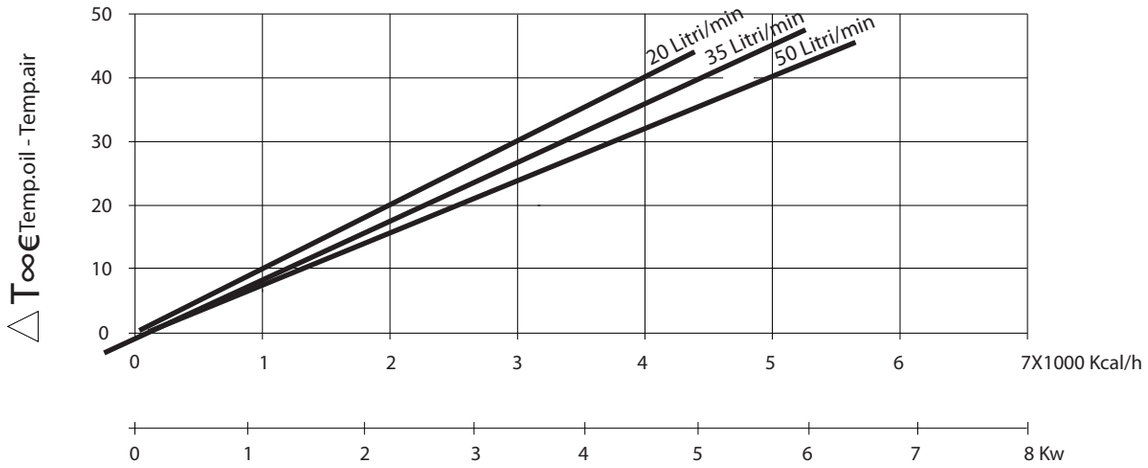
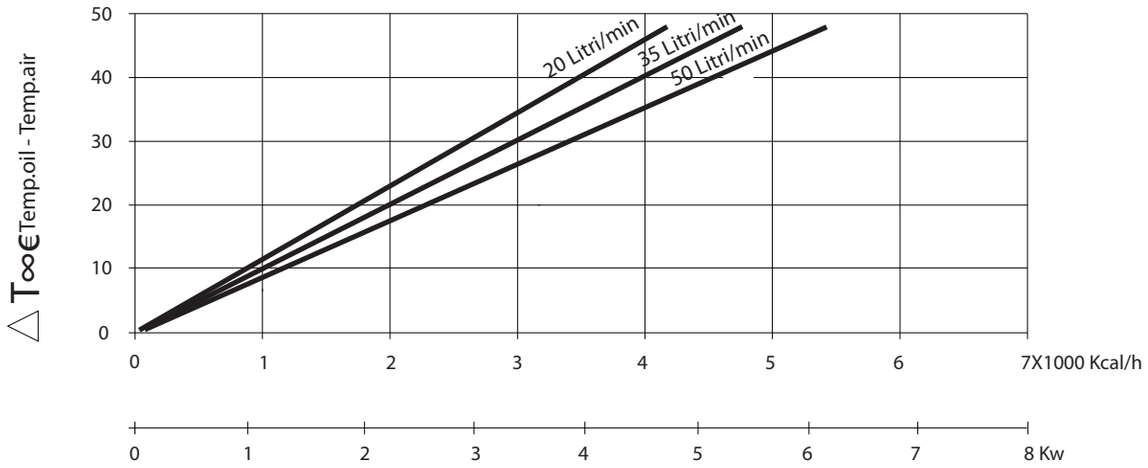
CSL1.2P and CSLV1.2P

THERMIC EFFICIENCY FOR 12-24 DC



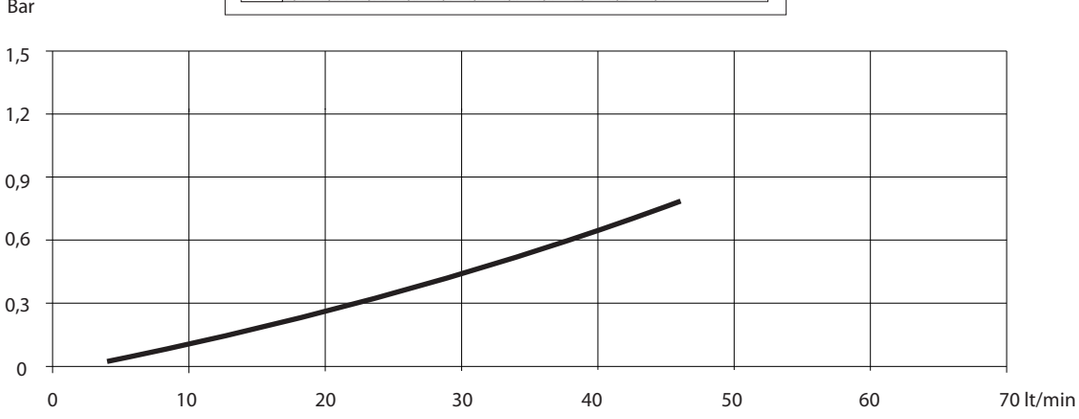
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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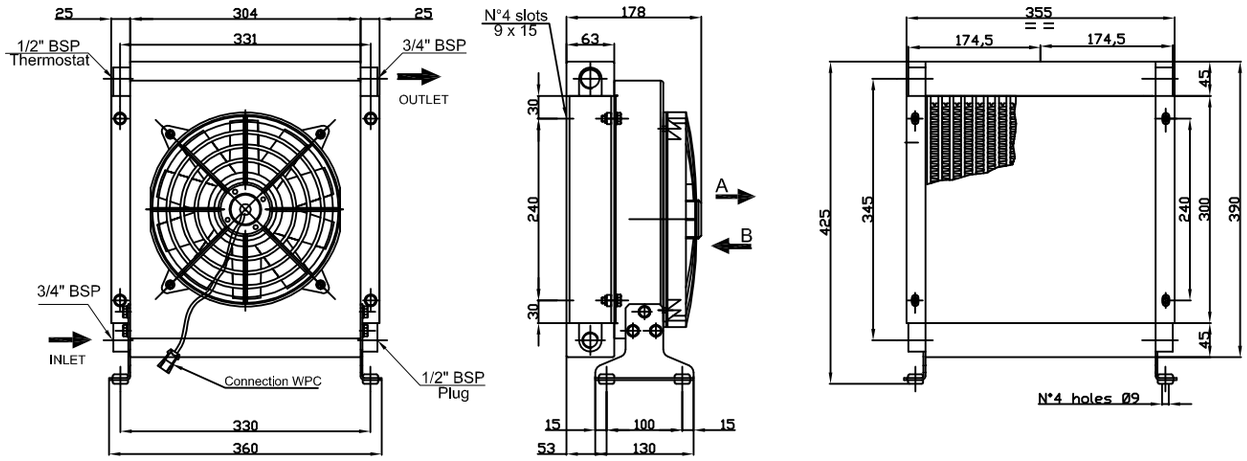
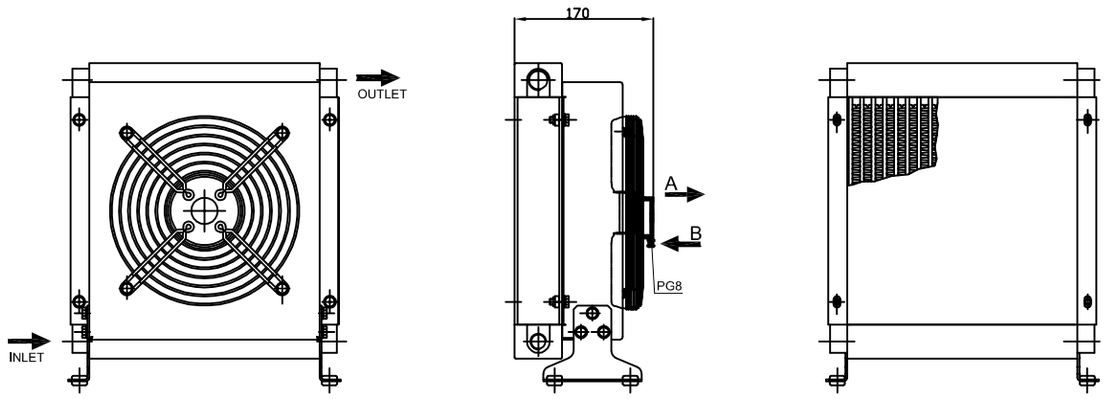
Air - Oil coolers series CSL2

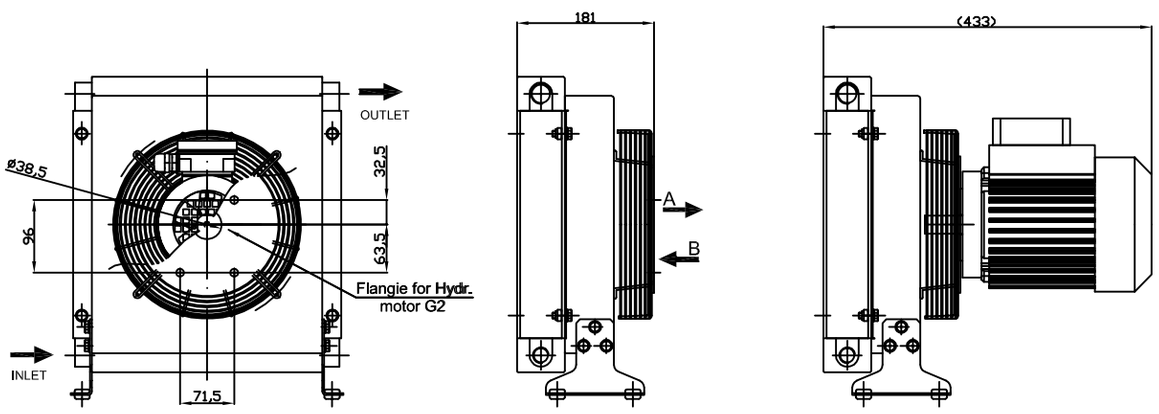
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2.12.0.00	12	DC	3150	950	0.095	5.8	255	68	70	1.65	6	Black
CSL2.24.0.00	24	DC	3050	950	0.105	3	255	68	70	1.65	6	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2.22.0.00	230	50/60	2850	1960	0.128	0.55	250	44	71	1.65	7	Black
CSL2.38.0.00	230/400	50/60	2700	1830	0.110	0.40	250	44	71	1.65	7	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2.G2.0.00	//	//	//	//	//	//	250	//	//	1.65	6	Black
CSL2.40.0.00	230/400	50/60	1450	1100	0.250	0.68	250	55	64	1.65	10	Black



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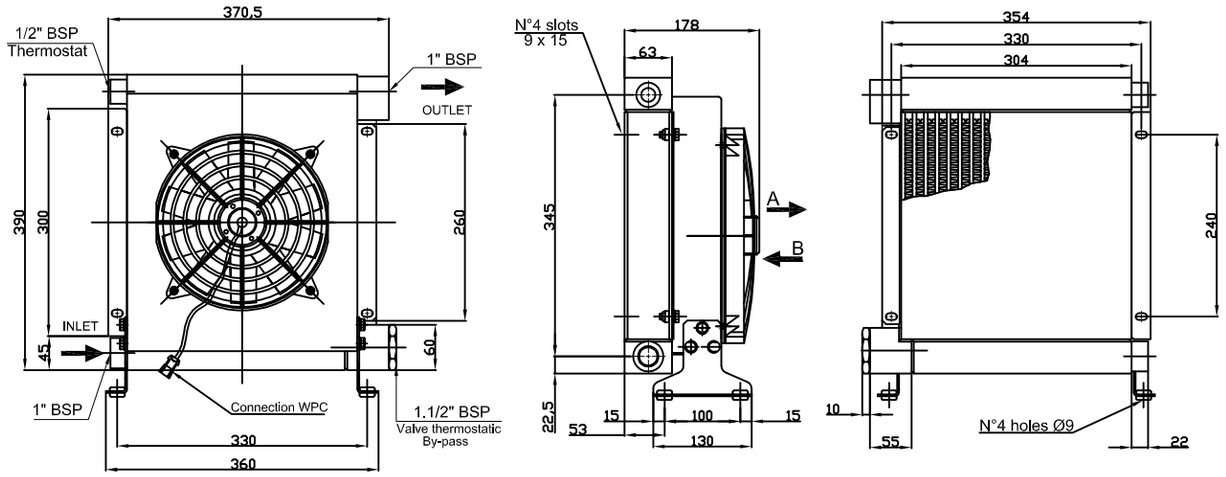
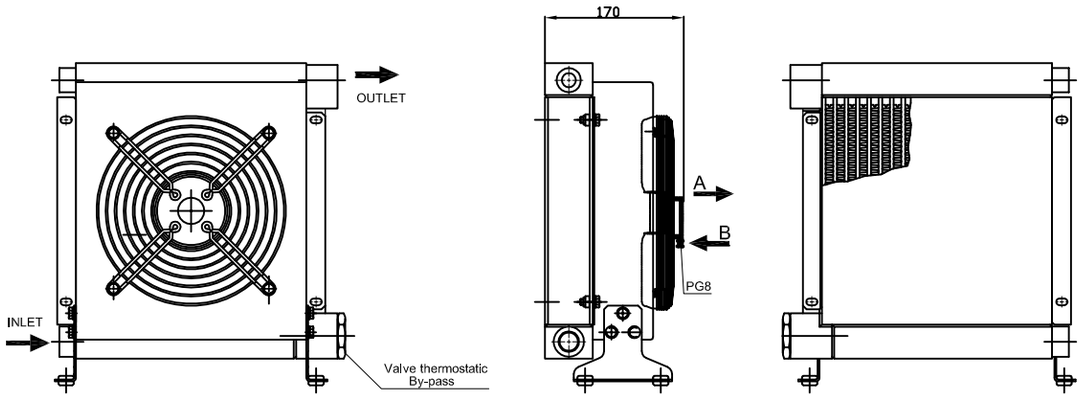
Air - Oil coolers series CSLV2

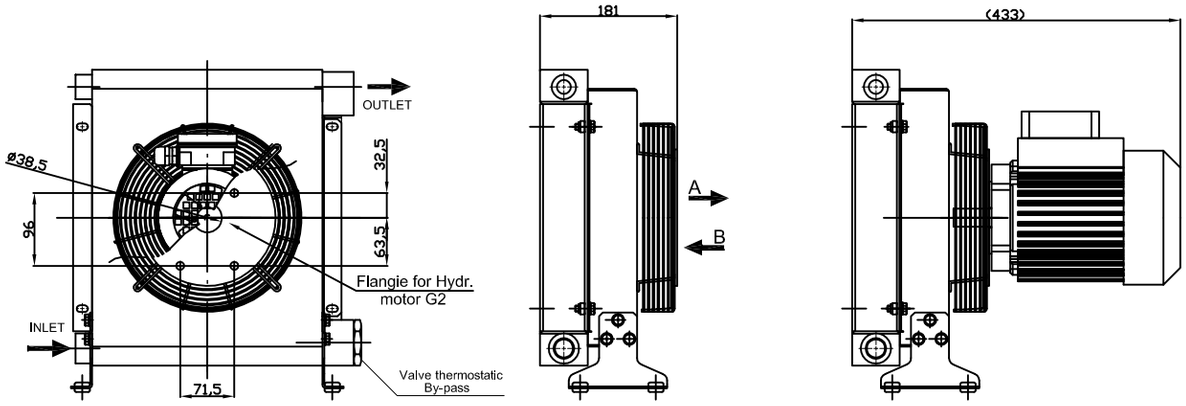
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2.12.0.00	12	DC	3150	950	0.095	5.8	255	68	70	1.65	7	Black
CSLV2.24.0.00	24	DC	3050	950	0.105	3	255	68	70	1.65	7	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2.22.0.00	230	50/60	2850	1960	0.128	0.55	250	44	71	1.65	8	Black
CSLV2.38.0.00	230/400	50/60	2700	1830	0.110	0.40	250	44	71	1.65	8	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2.G2.0.00	//	//	//	//	//	//	250	//	//	1.65	7	Black
CSLV2.40.0.00	230/400	50/60	1450	1100	0.250	0.68	250	55	64	1.65	11	Black



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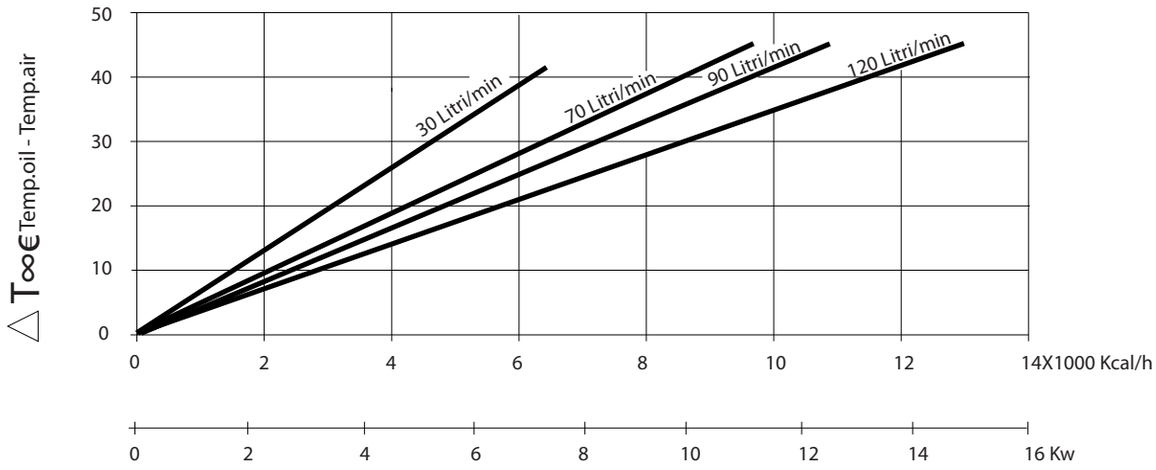
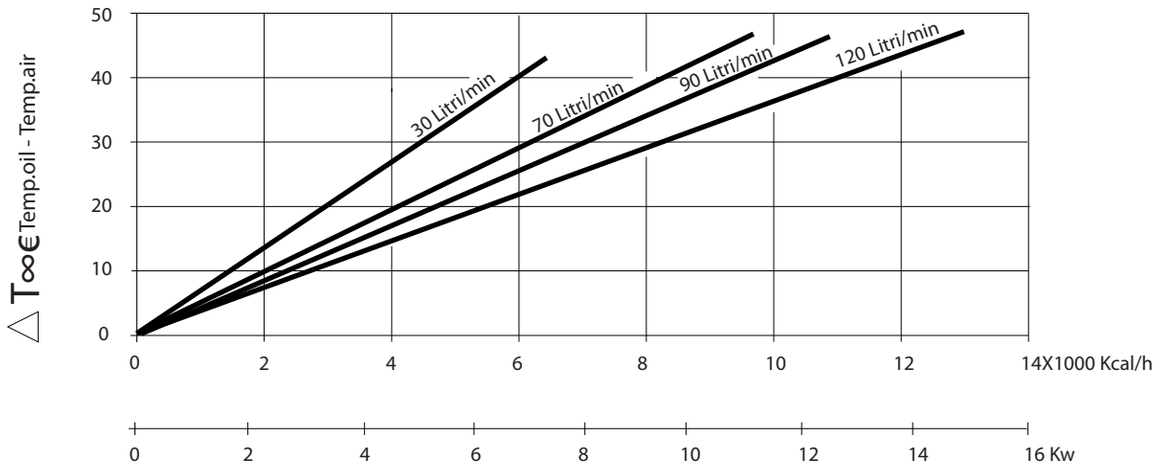
CSL2 and CSLV2

THERMIC EFFICIENCY FOR 12-24 DC



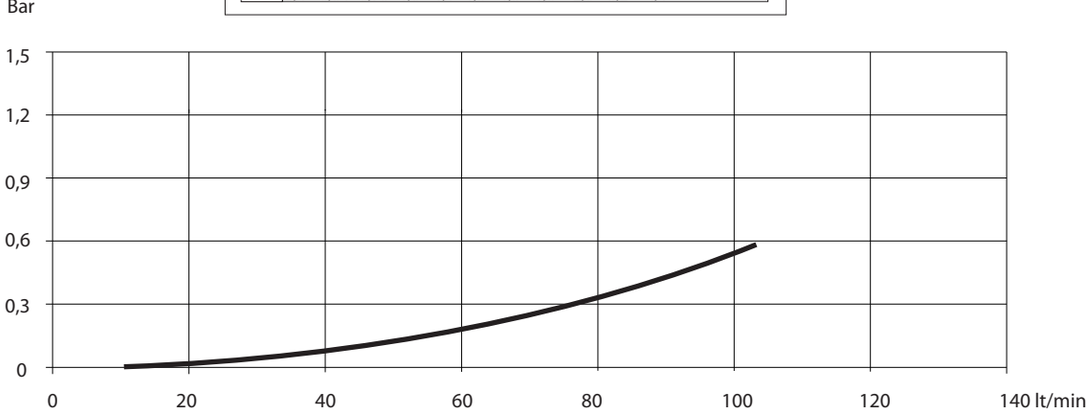
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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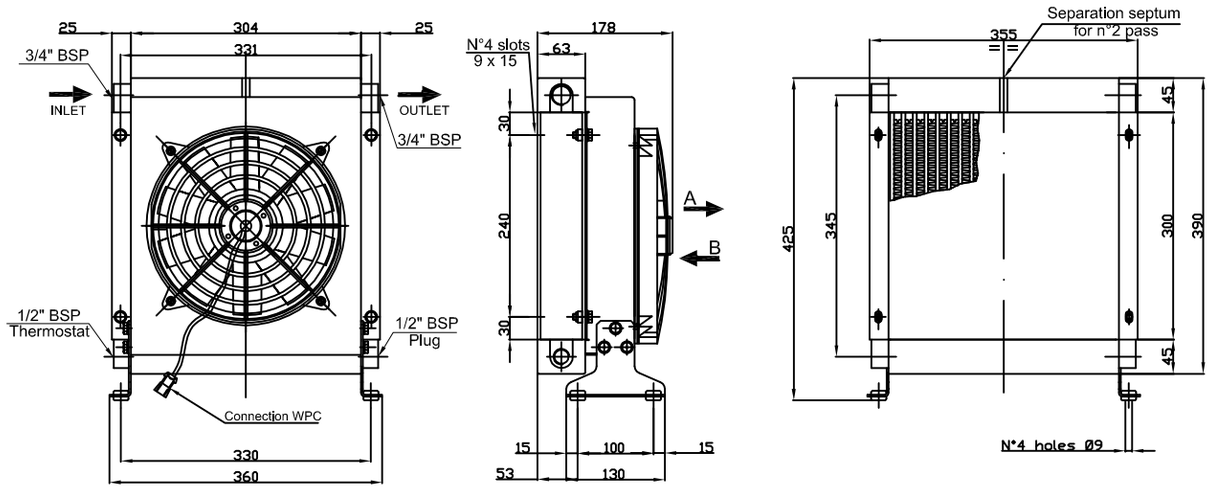
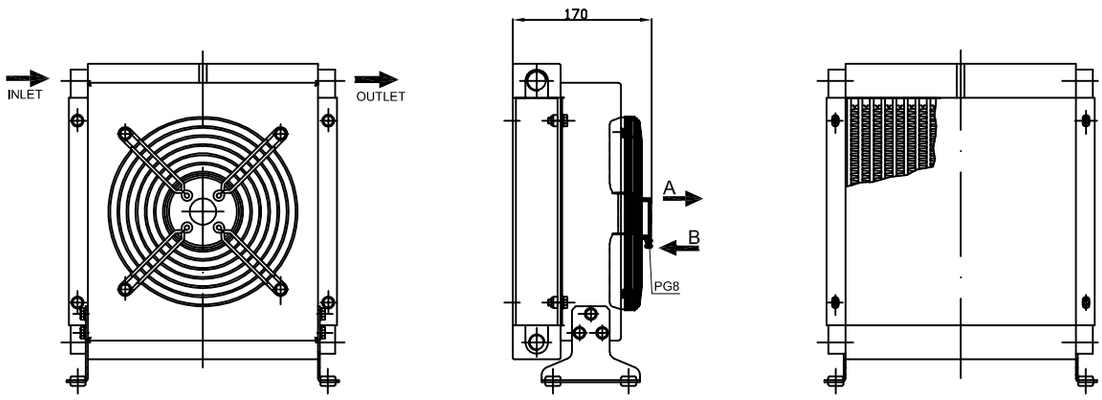
Air - Oil coolers series CSL2 - 2 Passages

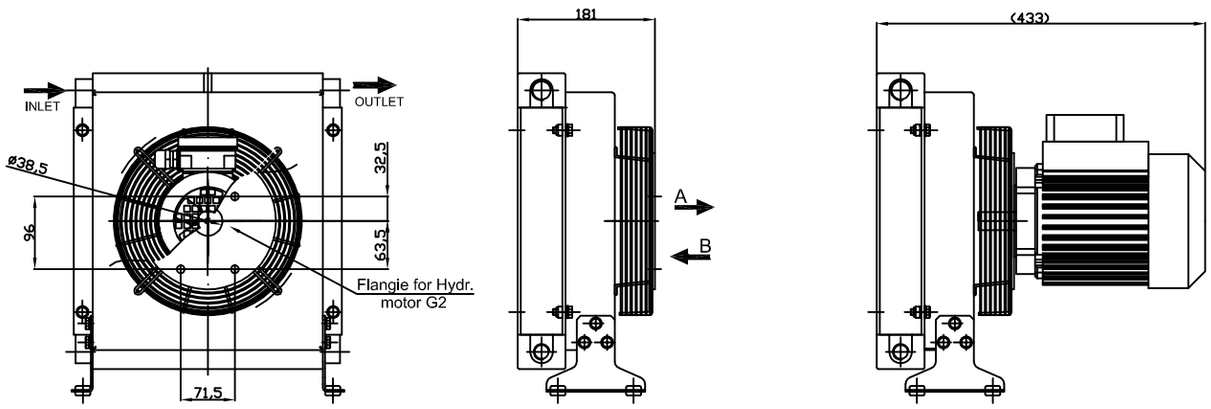
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2.12.0.002	12	DC	3150	950	0.095	5.8	255	68	70	1.65	6.2	Black
CSL2.24.0.002	24	DC	3050	950	0.105	3	255	68	70	1.65	6.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2.22.0.002	230	50/60	2850	1960	0.128	0.55	250	44	71	1.65	7.2	Black
CSL2.38.0.002	230/400	50/60	2700	1830	0.110	0.40	250	44	71	1.65	7.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2.G2.0.002	//	//	//	//	//	//	250	//	//	1.65	6.2	Black
CSL2.40.0.002	230/400	50/60	1450	1100	0.250	0.68	250	55	64	1.65	10.2	Black



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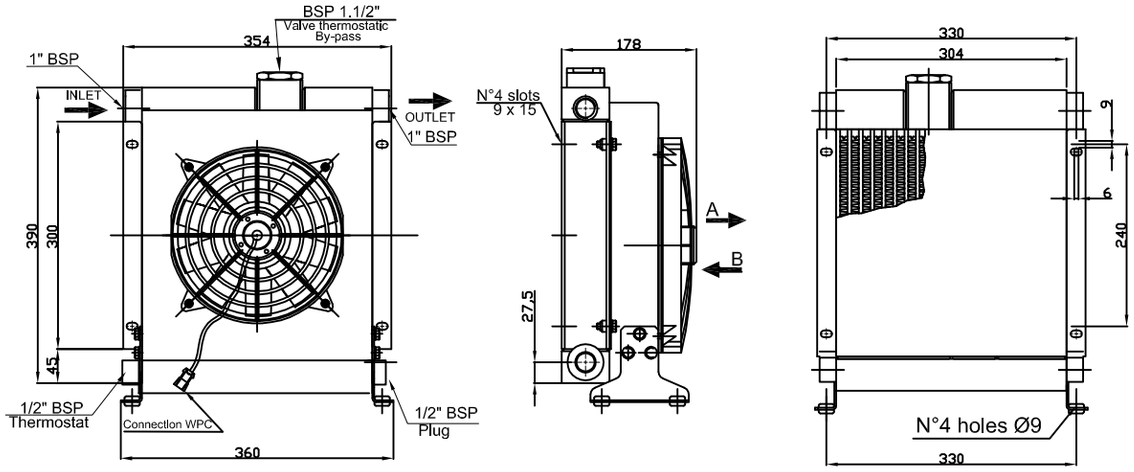
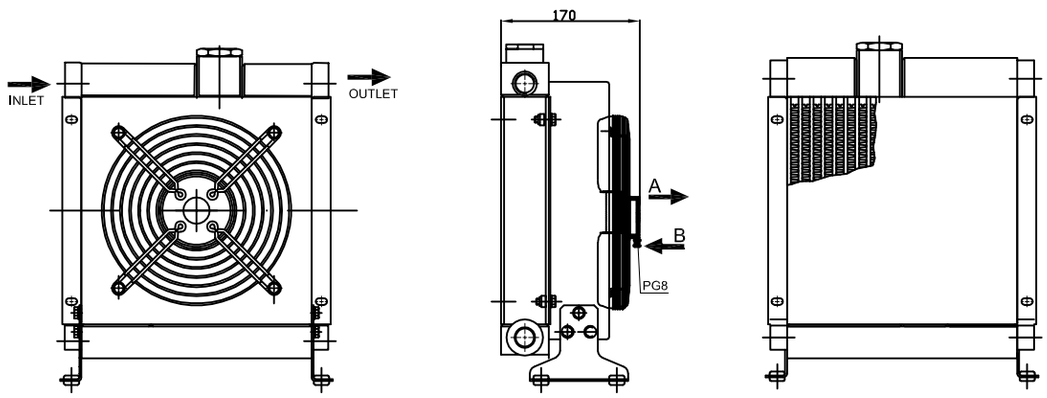
Air - Oil coolers series CSLV2 - 2 Passages

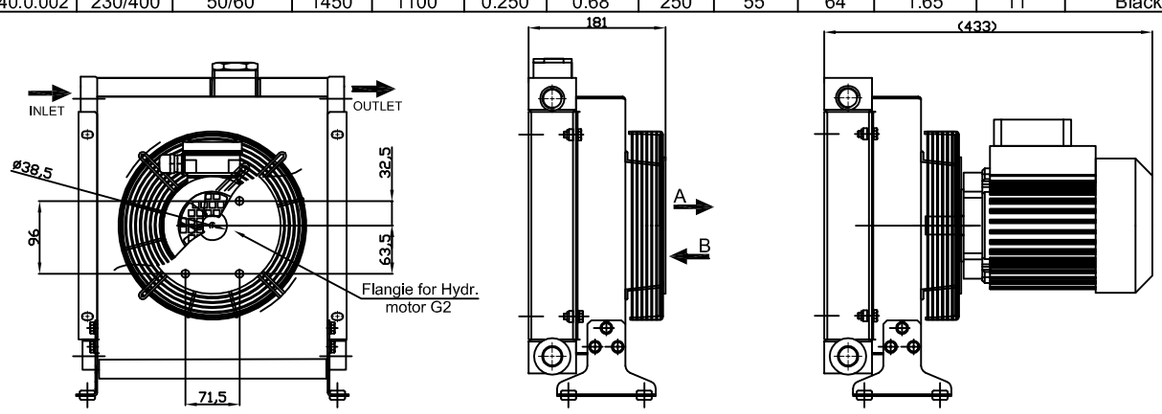
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2.12.0.002	12	DC	3150	950	0.095	5.8	255	68	70	1.65	7	Black
CSLV2.24.0.002	24	DC	3050	950	0.105	3	255	68	70	1.65	7	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2.22.0.002	230	50/60	2850	1960	0.128	0.55	250	44	71	1.65	8	Black
CSLV2.38.0.002	230/400	50/60	2700	1830	0.110	0.40	250	44	71	1.65	8	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2.G2.0.002	//	//	//	//	//	//	250	//	//	1.65	7	Black
CSLV2.40.0.002	230/400	50/60	1450	1100	0.250	0.68	250	55	64	1.65	11	Black



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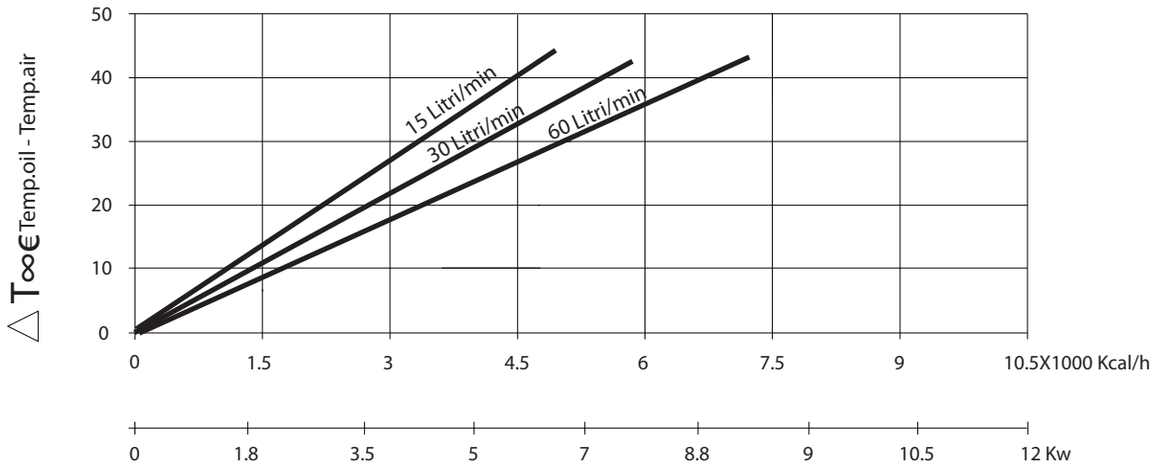
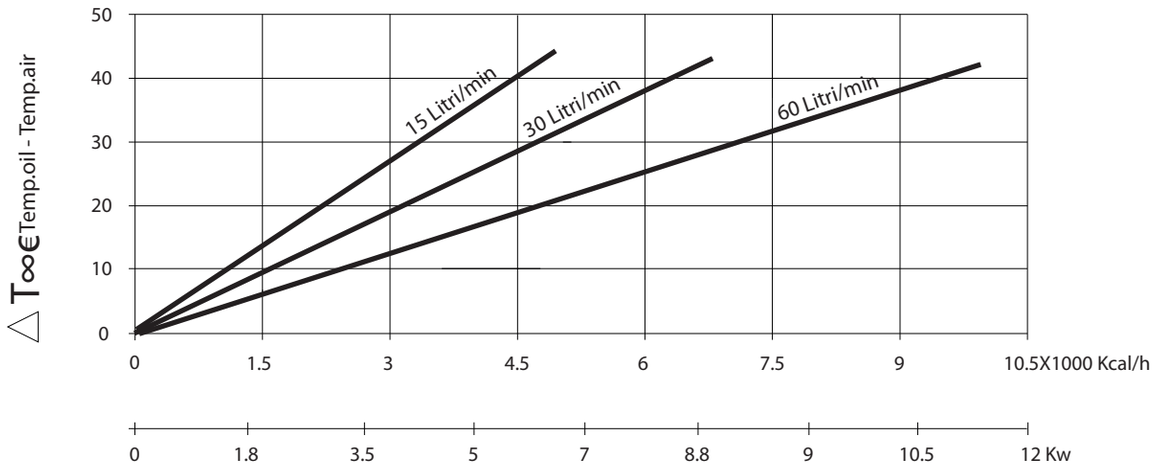
CSL2.2P and CSLV2.2P

THERMIC EFFICIENCY FOR 12-24 DC



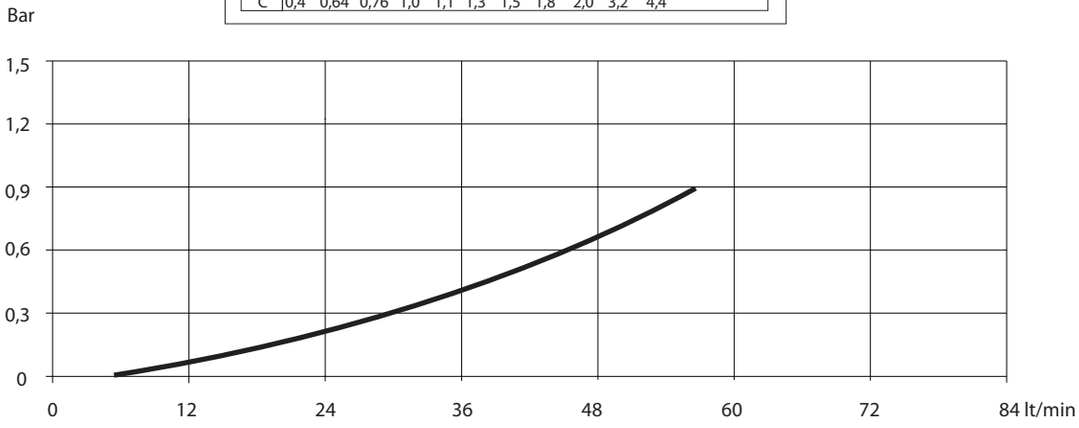
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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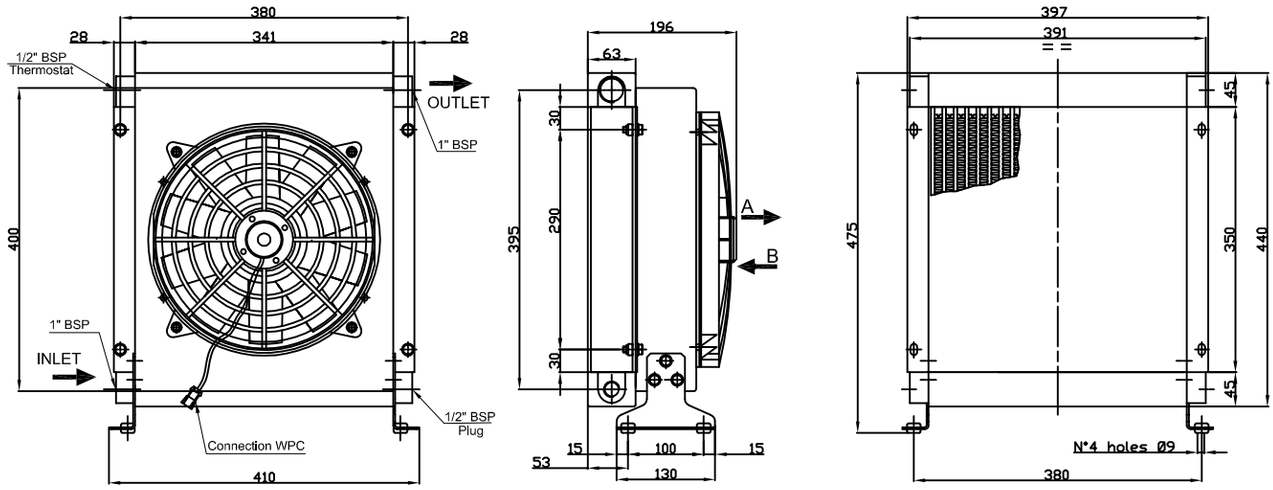
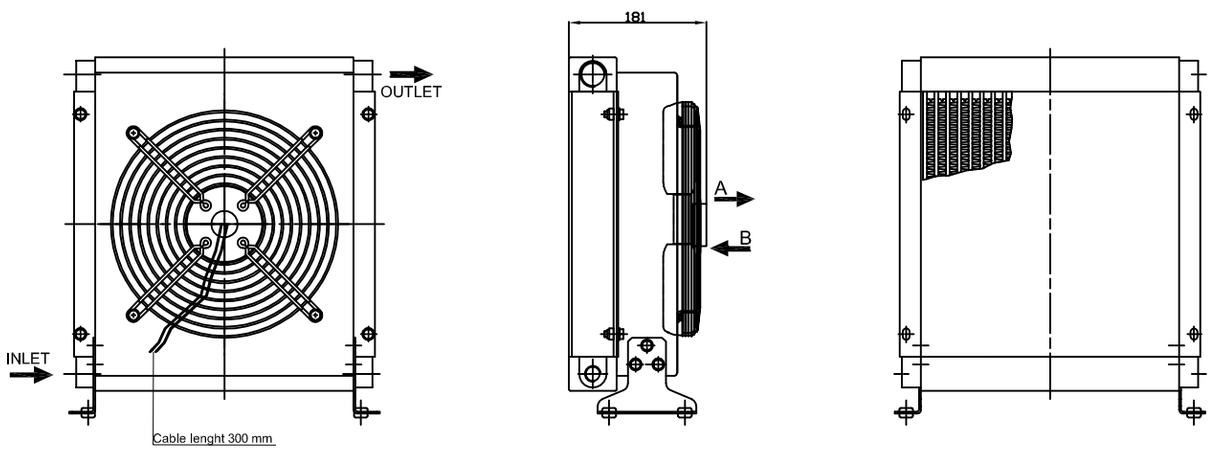
Air - Oil coolers series CSL3

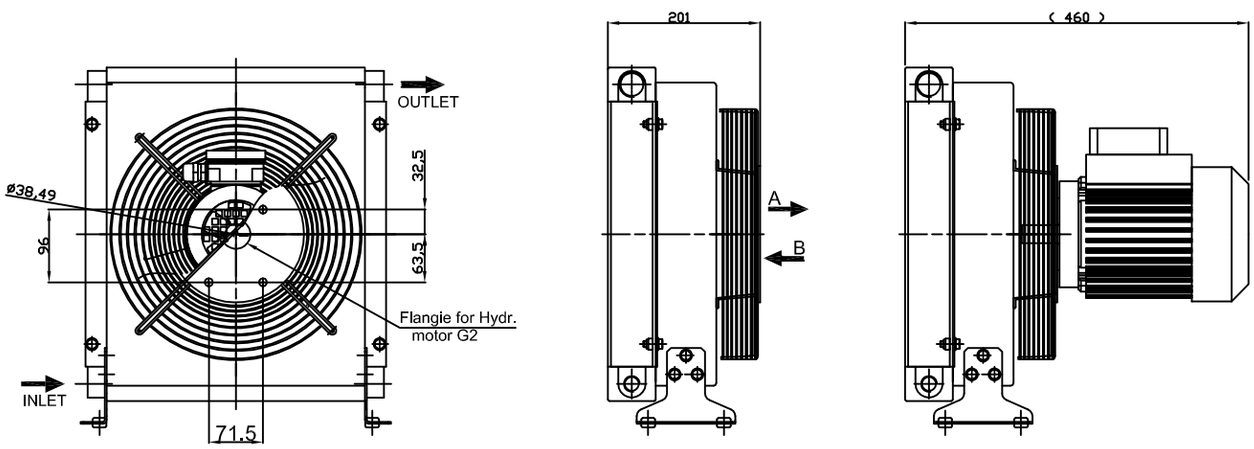
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3.12.0.00	12	DC	3150	2670	0.150	11	305	68	69	2	9	Black
CSL3.24.0.00	24	DC	3050	2670	0.150	5.5	305	68	69	2	9	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3.22.0.00	230	50/60	2600	2600	0.350	1.55	300	44	70	2	10	Black
CSL3.38.0.00	230/400	50/60	2600	2600	0.300	0.48	300	44	70	2	10	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3.G2.0.00	//	//	//	//	//	//	300	//	//	2	10	Black
CSL3.40.0.00	230/400	50/60	1450	1950	0.370	1.03	300	55	70	2	15	Black



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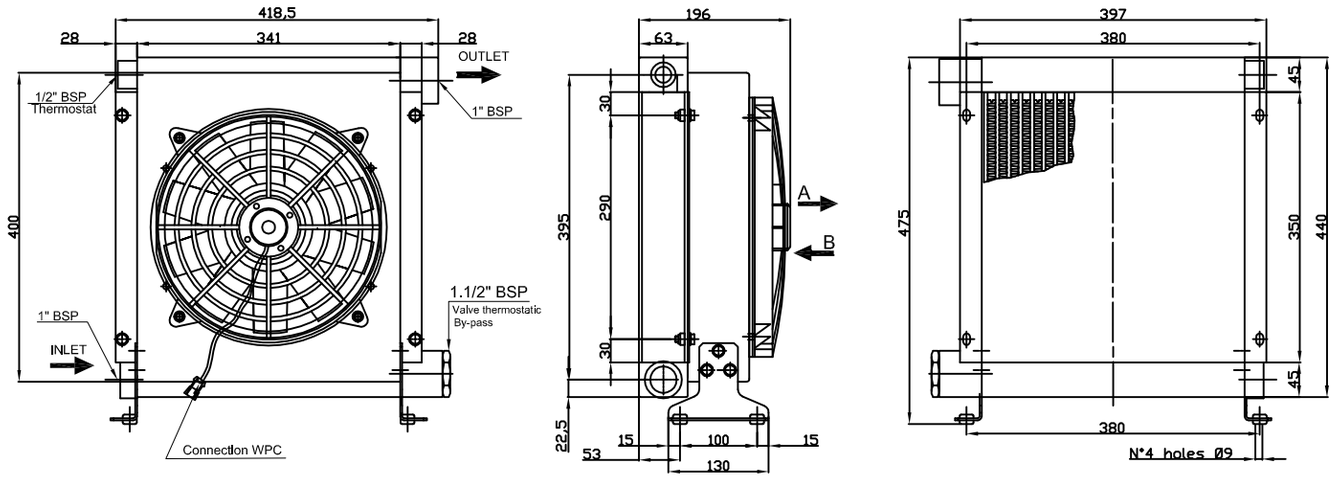
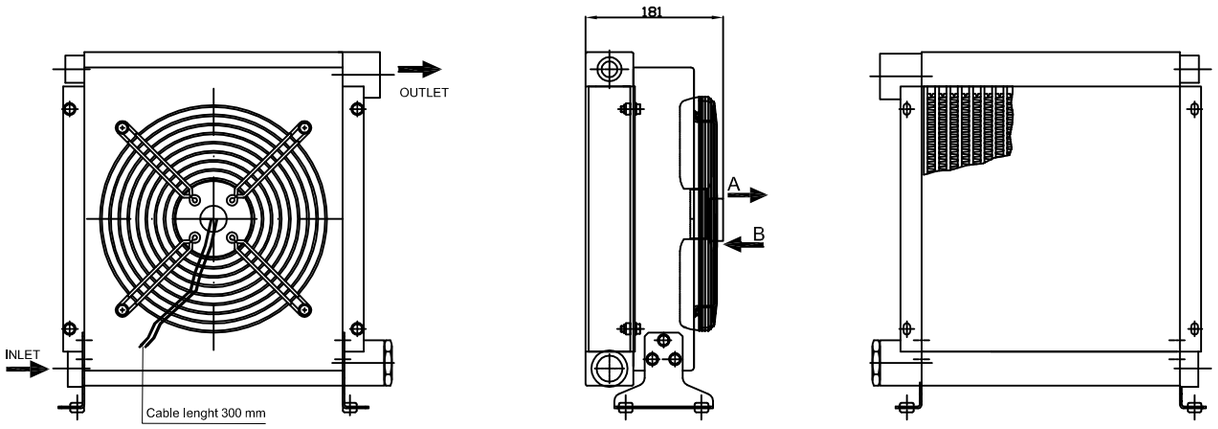
Air - Oil coolers series CSLV3

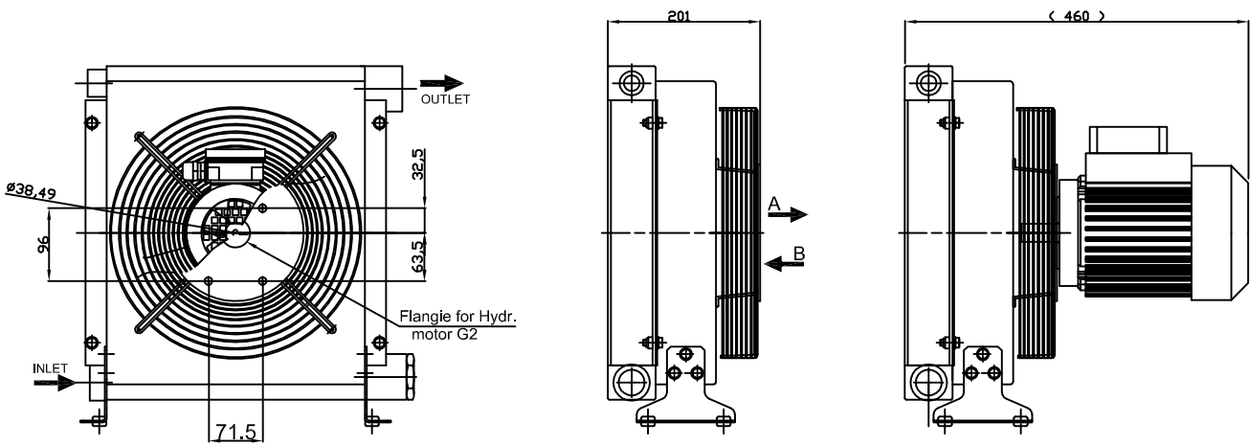
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3.12.0.00	12	DC	3150	2670	0.150	11	305	68	69	2	10	Black
CSLV3.24.0.00	24	DC	3050	2670	0.150	5.5	305	68	69	2	10	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3.22.0.00	230	50/60	2600	2600	0.350	1.55	300	44	70	2	11	Black
CSLV3.38.0.00	230/400	50/60	2600	2600	0.300	0.48	300	44	70	2	11	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3.G2.0.00	//	//	//	//	//	//	300	//	//	2	11	Black
CSLV3.40.0.00	230/400	50/60	1450	1950	0.370	1.03	300	55	70	2	16	Black



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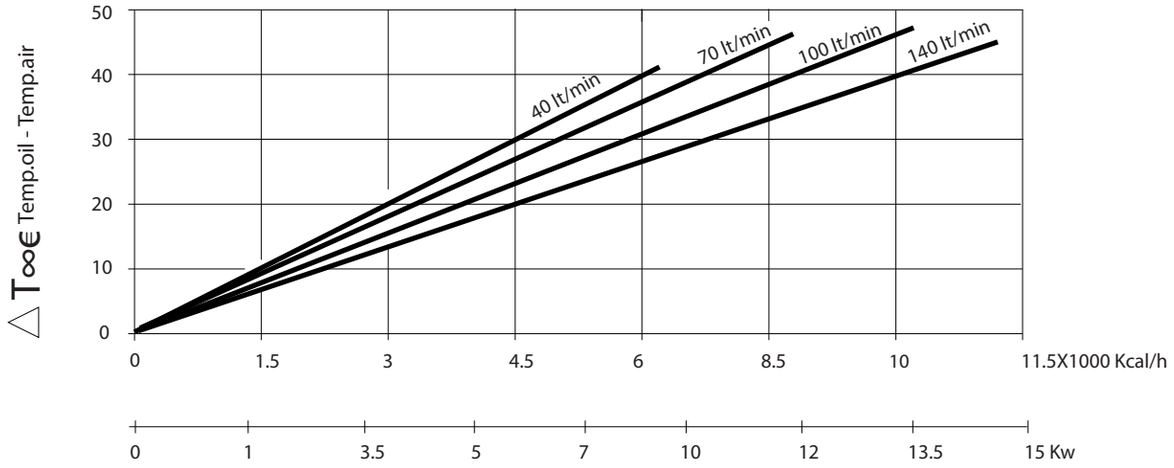
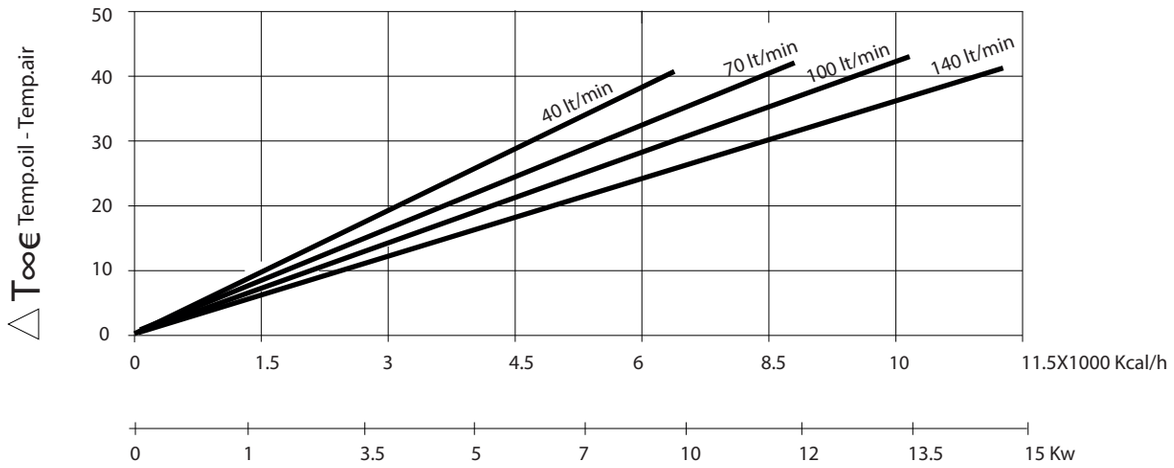
CSL3 and CSLV3

THERMIC EFFICIENCY FOR 12-24 DC



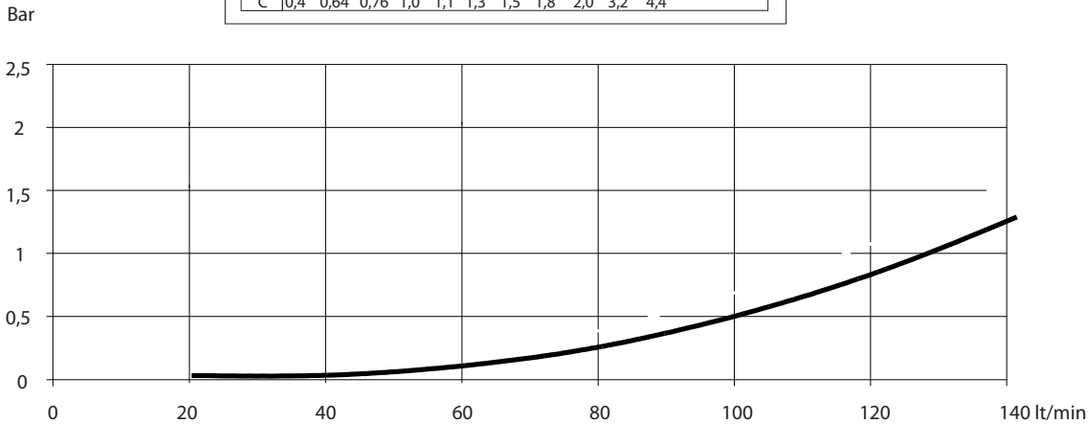
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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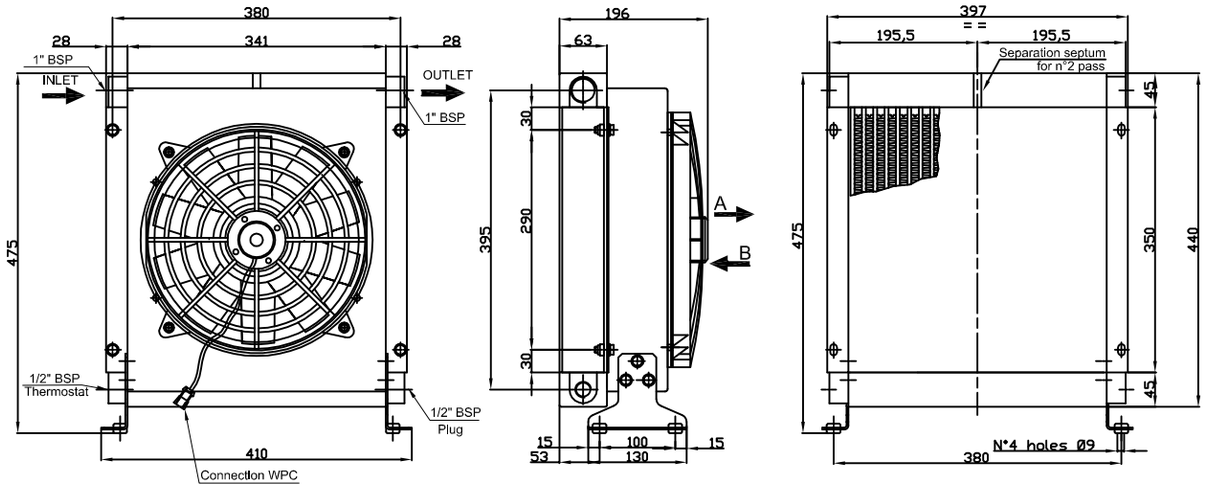
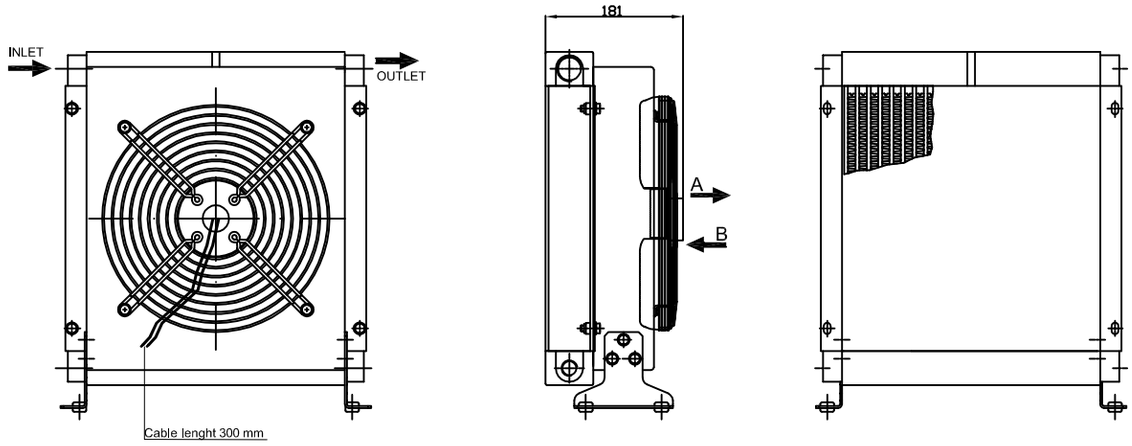
Air - Oil coolers series CSL3 - 2 Passages

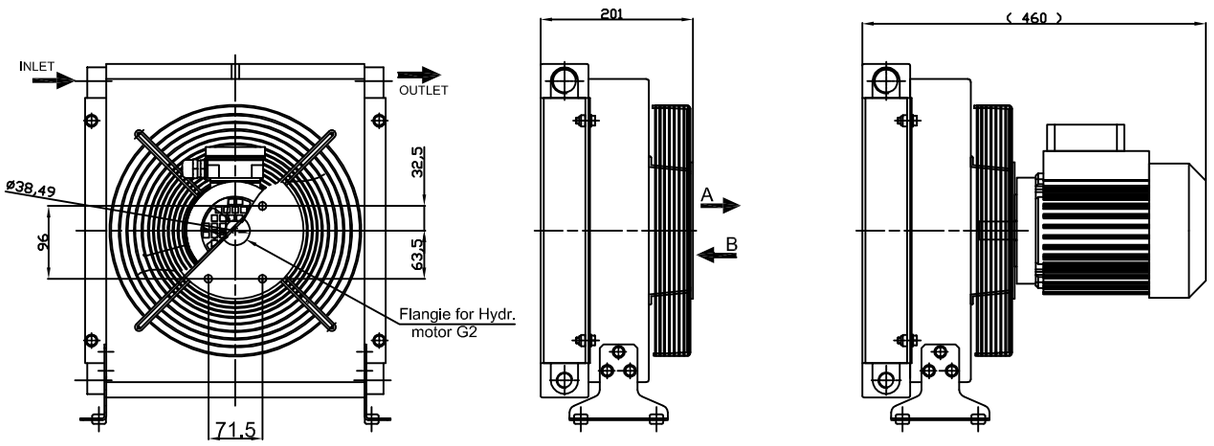
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3.12.0.002	12	DC	3150	2670	0.150	11	305	68	69	2	9.2	Black
CSL3.24.0.002	24	DC	3050	2670	0.150	5.5	305	68	69	2	9.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3.22.0.002	230	50/60	2600	2600	0.350	1.55	300	44	70	2	10.2	Black
CSL3.38.0.002	230/400	50/60	2600	2600	0.300	0.48	300	44	70	2	10.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3.G2.0.002	//	//	//	//	//	//	300	//	//	2	10.2	Black
CSL3.40.0.002	230/400	50/60	1450	1950	0.370	1.03	300	55	70	2	15.2	Black



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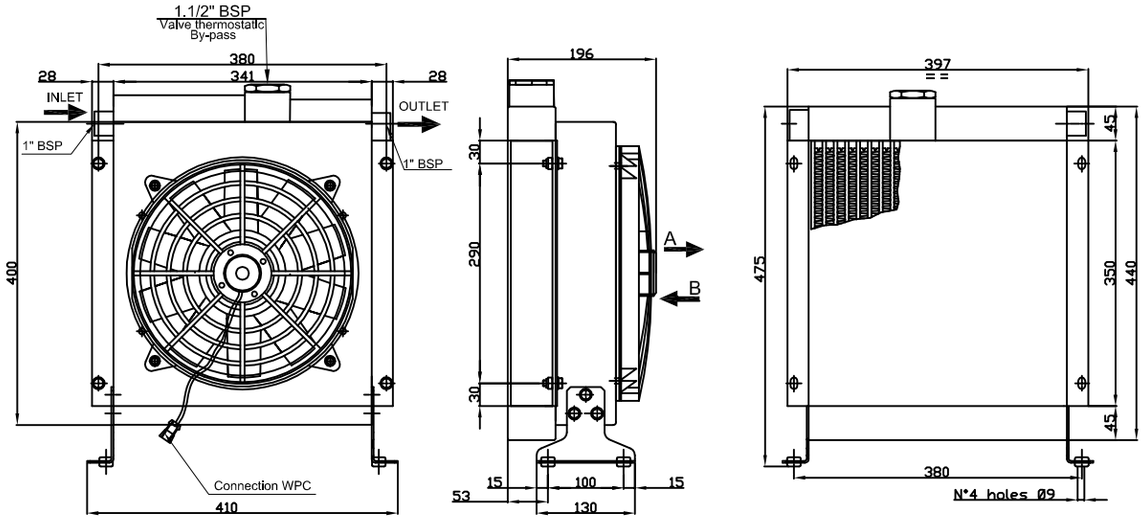
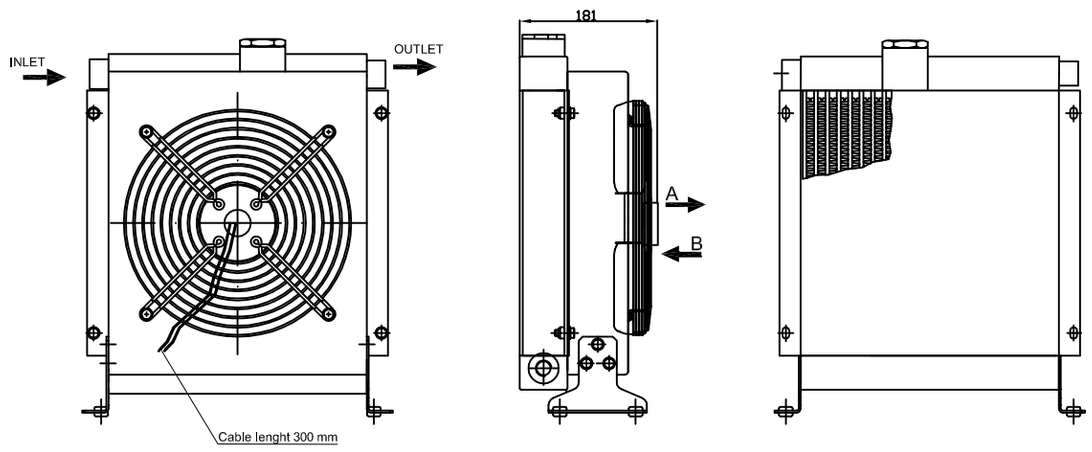
Air - Oil coolers series CSLV3 - 2 Passages

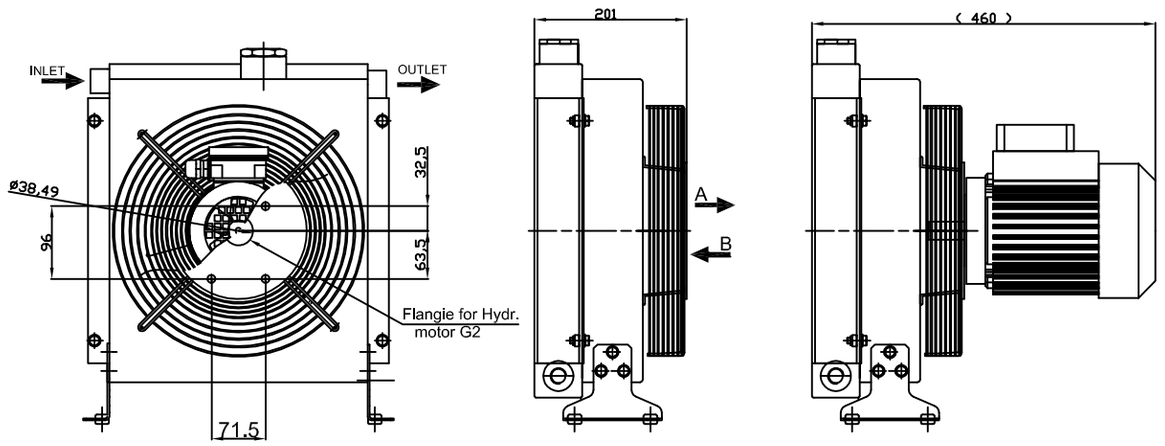
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3.12.0.002	12	DC	3150	2670	0.150	11	305	68	69	2	10	Black
CSLV3.24.0.002	24	DC	3050	2670	0.150	5.5	305	68	69	2	10	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3.22.0.002	230	50/60	2600	2600	0.350	1.55	300	44	70	2	12	Black
CSLV3.38.0.002	230/400	50/60	2600	2600	0.300	0.48	300	44	70	2	11	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3.G2.0.002	//	//	//	//	//	//	300	//	//	2	11	Black
CSLV3.40.0.002	230/400	50/60	1450	1950	0.370	1.03	300	55	70	2	16	Black



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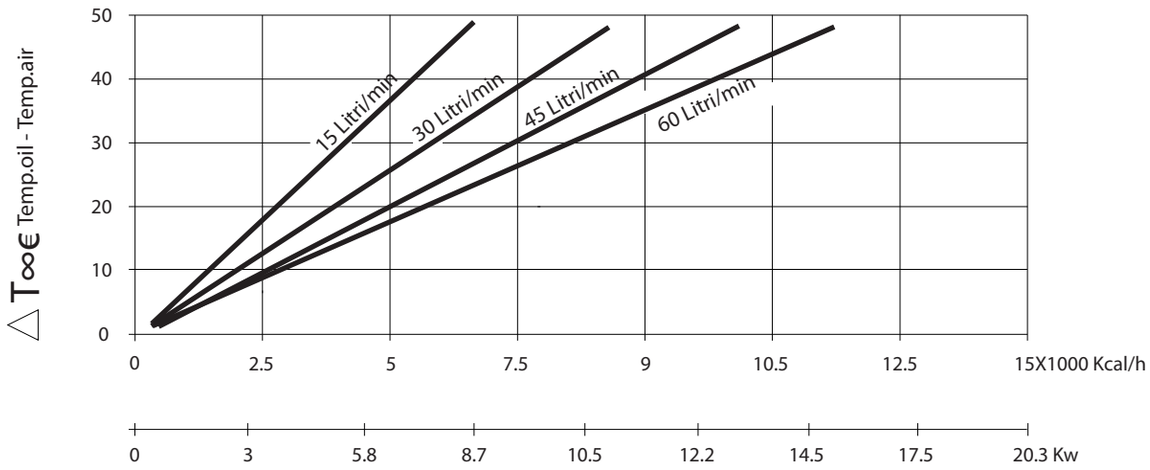
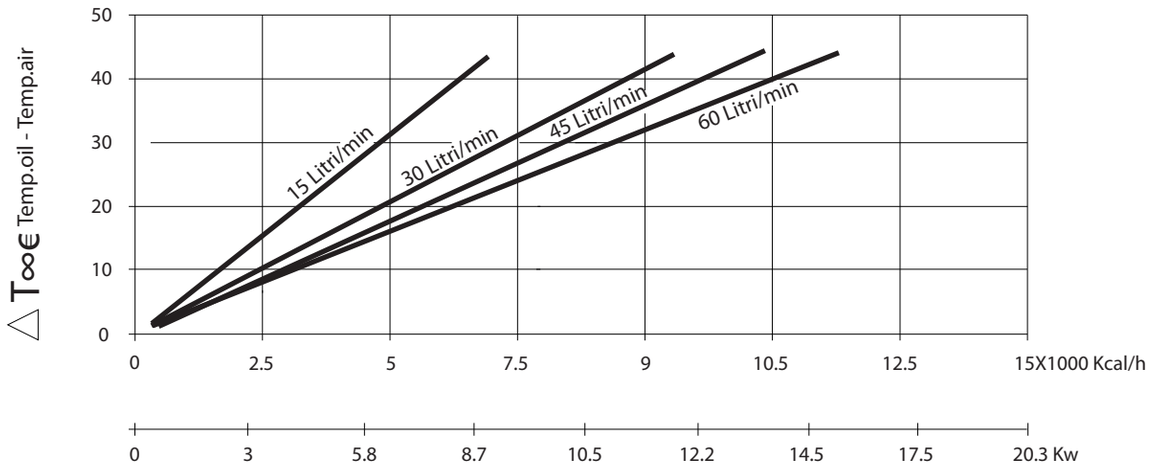
CSL3.2P and CSLV3.2P

THERMIC EFFICIENCY FOR 12-24 DC



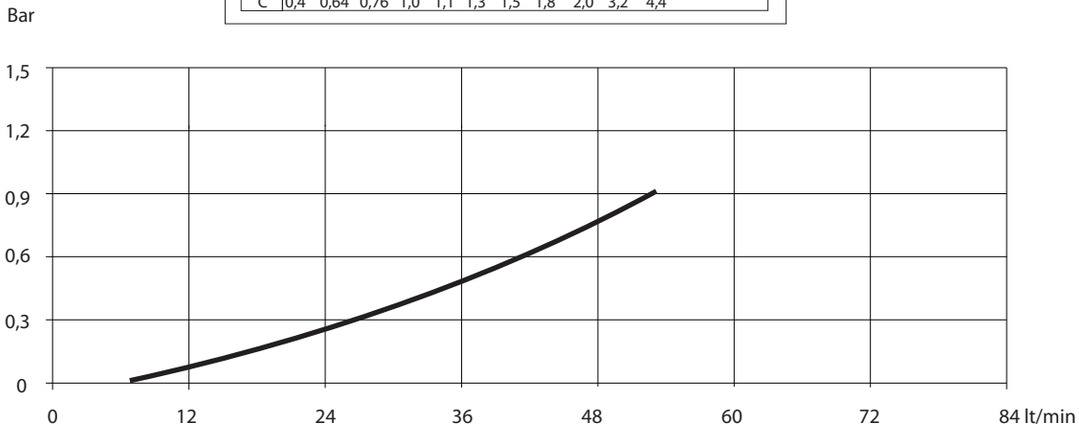
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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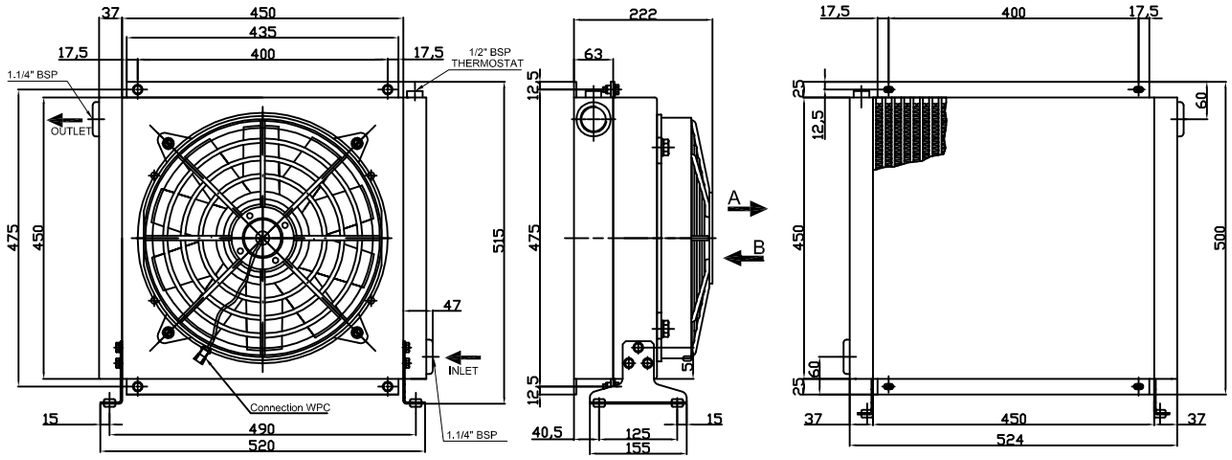
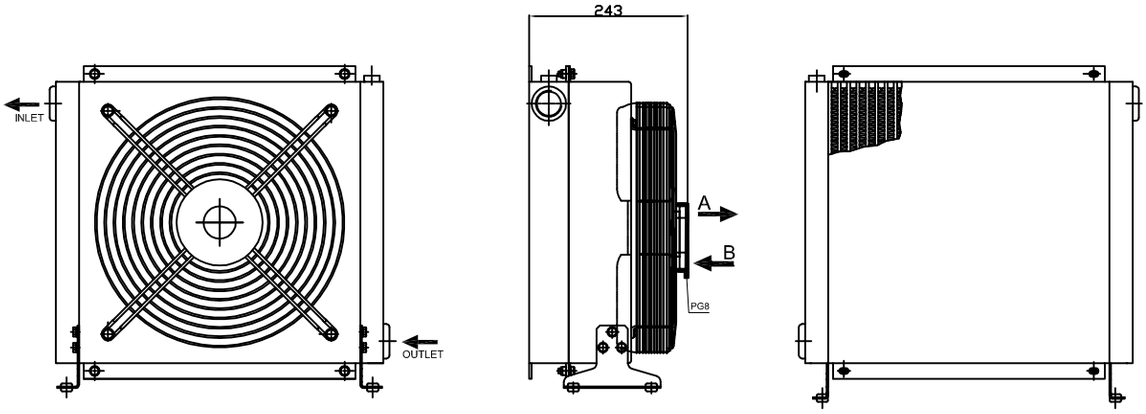
Air - Oil coolers series CSL4

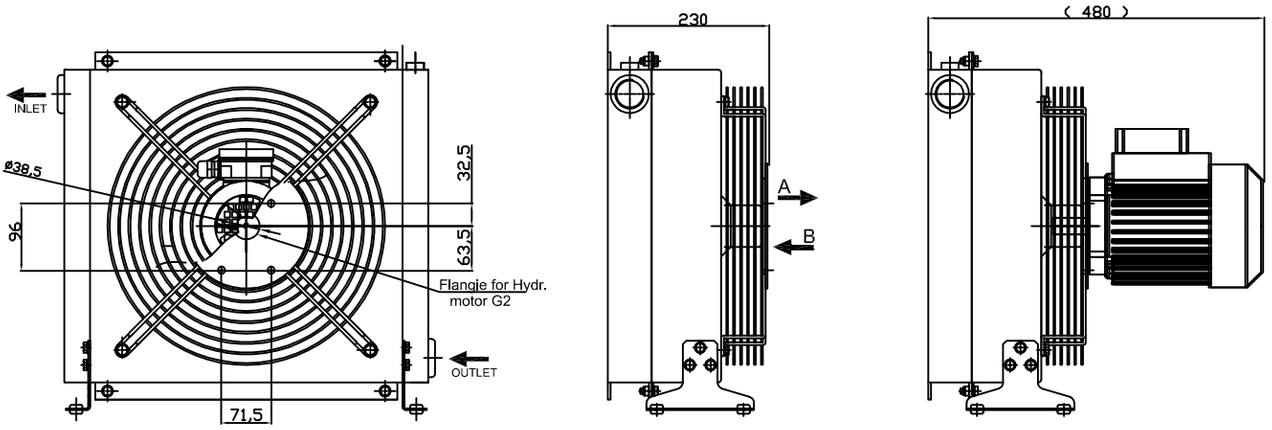
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4.12.0.00	12	DC	2650	3300	0.210	13	385	68	75	3	13	Black
CSL4.24.0.00	24	DC	2650	3300	0.210	8.1	385	68	75	3	13	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4.22.0.00	230	50/60	2350	3200	0.170	0.74	400	44	68	3	14	Black
CSL4.38.0.00	230/400	50/60	2450	3200	0.185	0.52	400	44	68	3	14	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4.G2.0.00	//	//	//	//	//	//	400	//	//	3	14	Black
CSL4.40.0.00	230/400	50/60	1450	3200	0.55	1.52	400	55	72	3	19	Black



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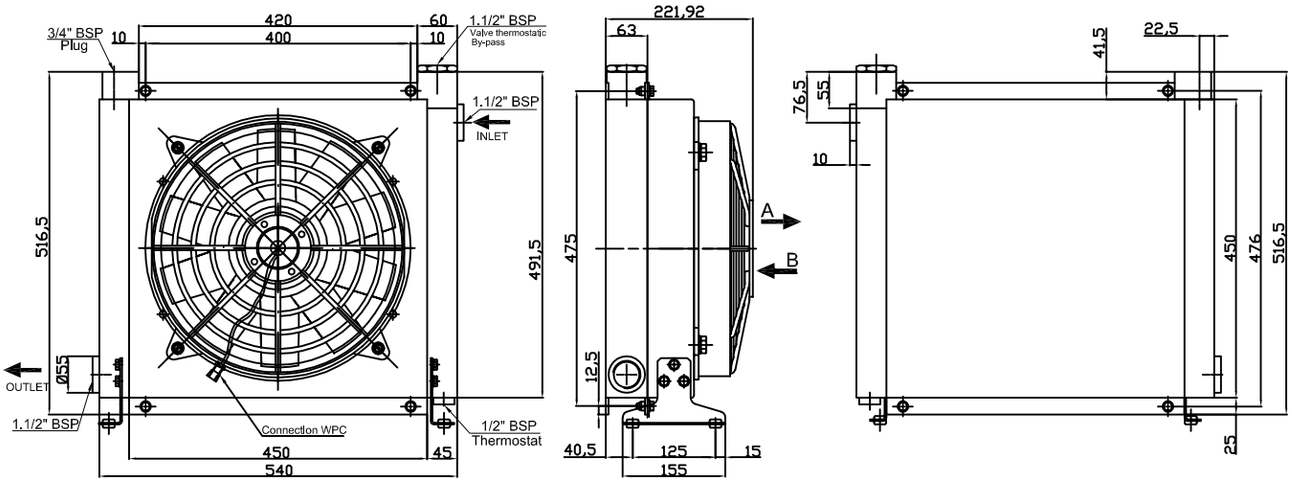
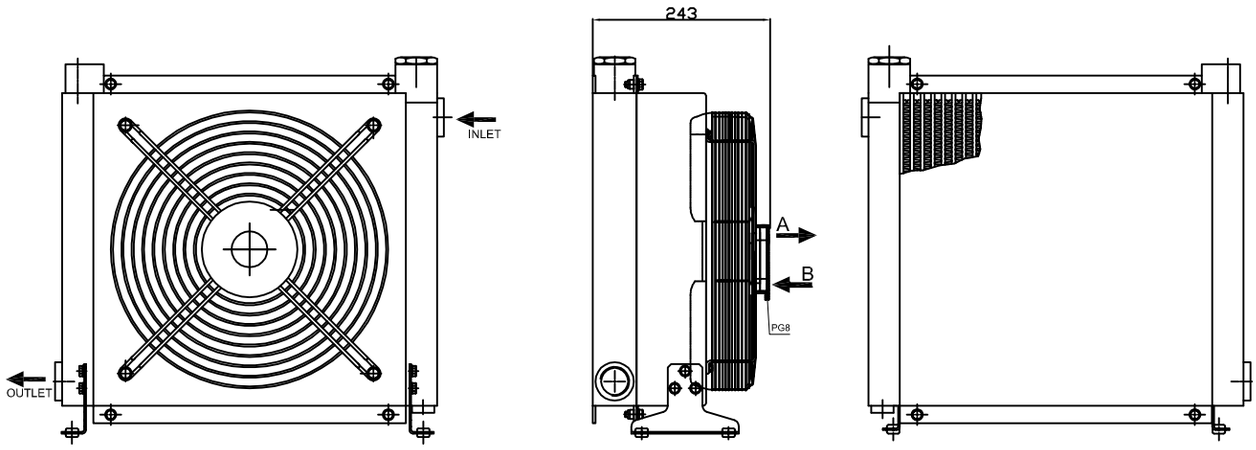
Air - Oil coolers series CSL4V

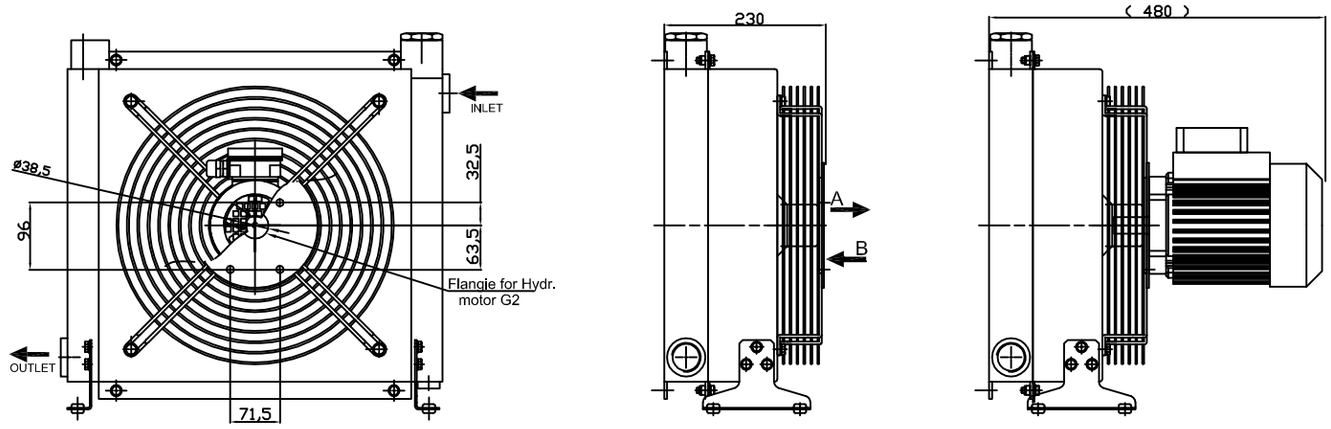
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4V.12.0.00	12	DC	2650	3300	0.210	13	385	68	75	3	14	Black
CSL4V.24.0.00	24	DC	2650	3300	0.210	8.1	385	68	75	3	14	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4V.22.0.00	230	50/60	2350	3200	0.170	0.74	400	44	68	3	15	Black
CSL4V.38.0.00	230/400	50/60	2450	3200	0.185	0.52	400	44	68	3	15	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4V.G2.0.00	//	//	//	//	//	//	400	//	//	3	15	Black
CSL4V.40.0.00	230/400	50/60	1450	3200	0.55	1.52	400	55	72	3	20	Black



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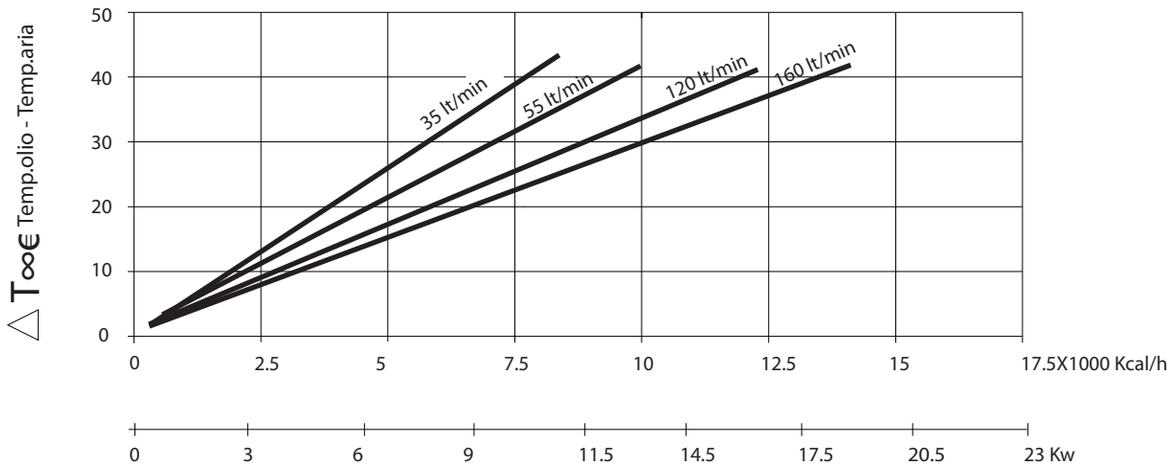
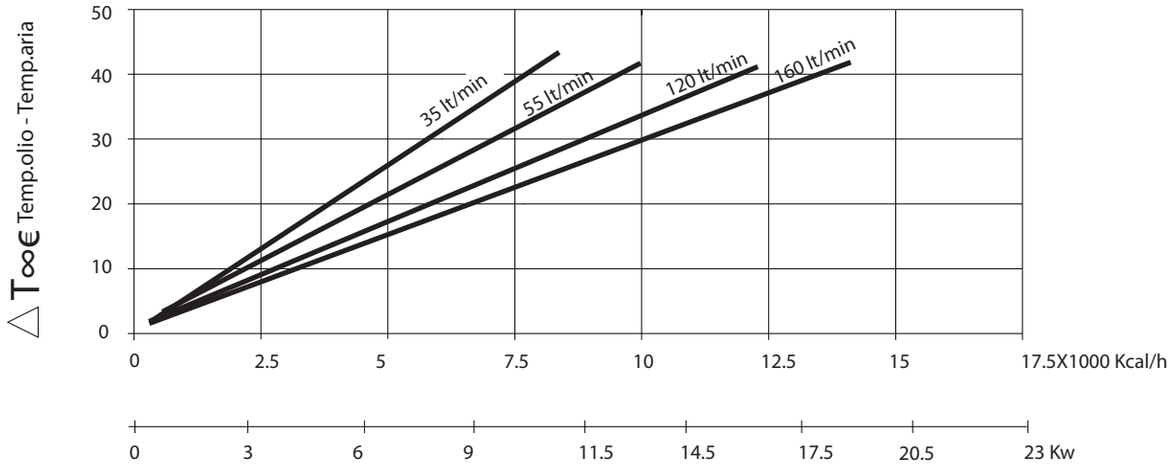
CSL4 and CSLV4

THERMIC EFFICIENCY FOR 12-24 DC



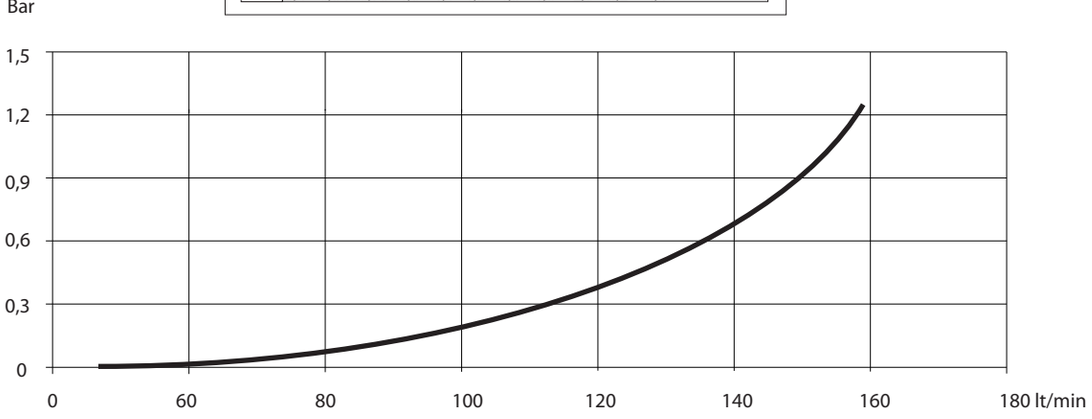
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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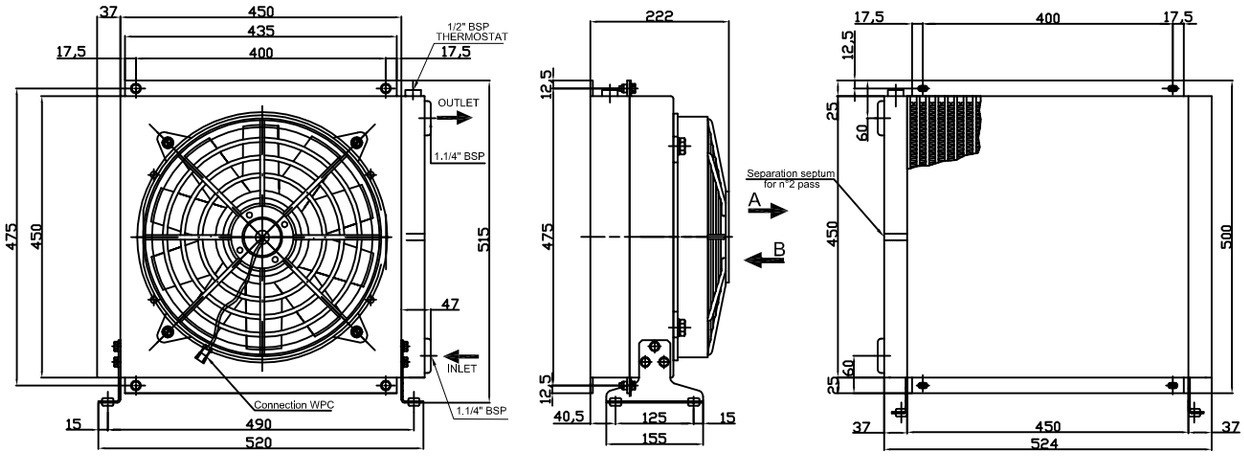
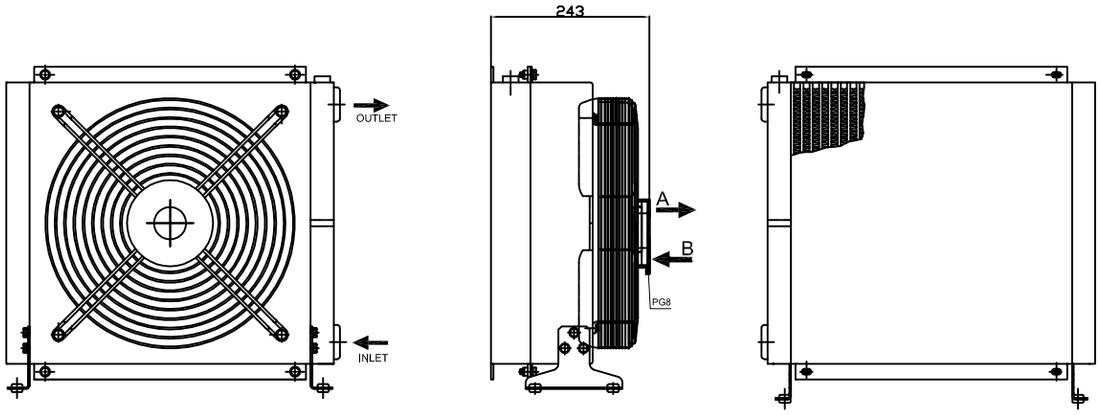
Air - Oil coolers series CSL4 - 2 Passages

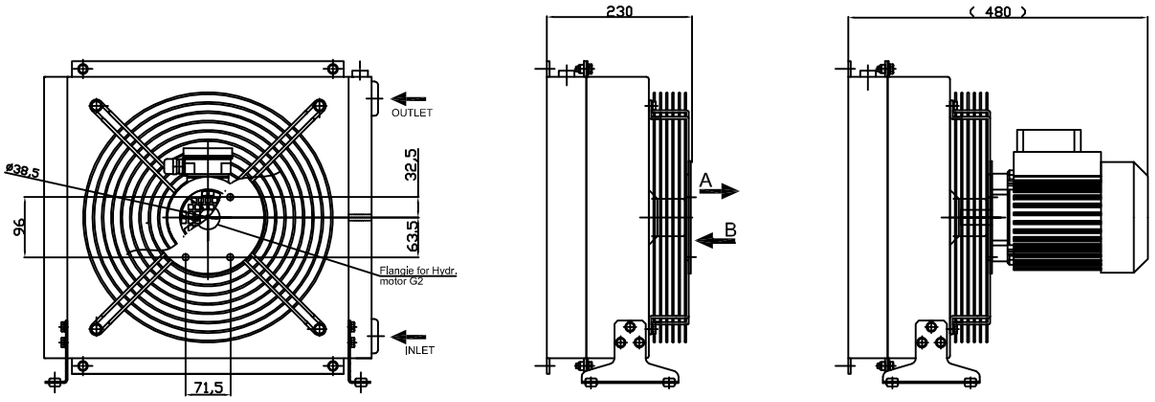
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4.12.0.002	12	DC	2650	3300	0.210	13	385	68	75	3	13.2	Black
CSL4.24.0.002	24	DC	2650	3300	0.210	8.1	385	68	75	3	13.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4.22.0.002	230	50/60	2350	3200	0.170	0.74	400	44	68	3	14.2	Black
CSL4.38.0.002	230/400	50/60	2450	3200	0.185	0.52	400	44	68	3	14.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4.G2.0.002	//	//	//	//	//	//	400	//	//	3	14.2	Black
CSL4.40.0.002	230/400	50/60	1450	3200	0.55	1.52	400	55	72	3	19.2	Black



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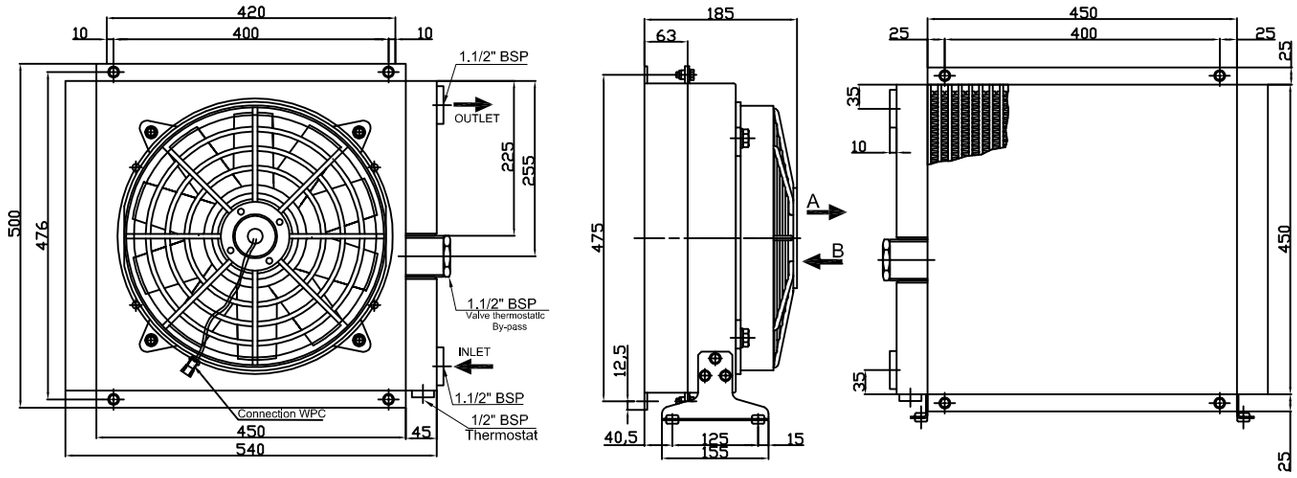
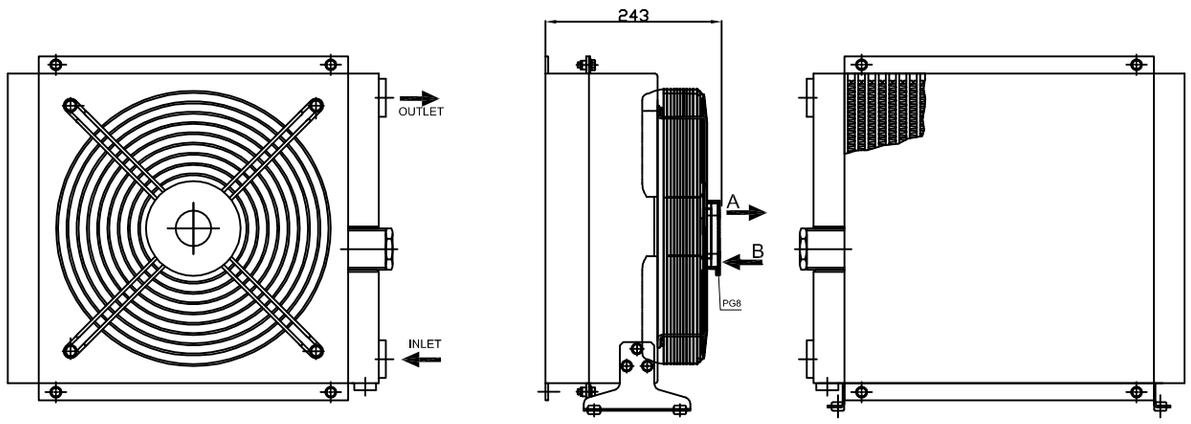
Air - Oil coolers series CSLV4 - 2 Passages

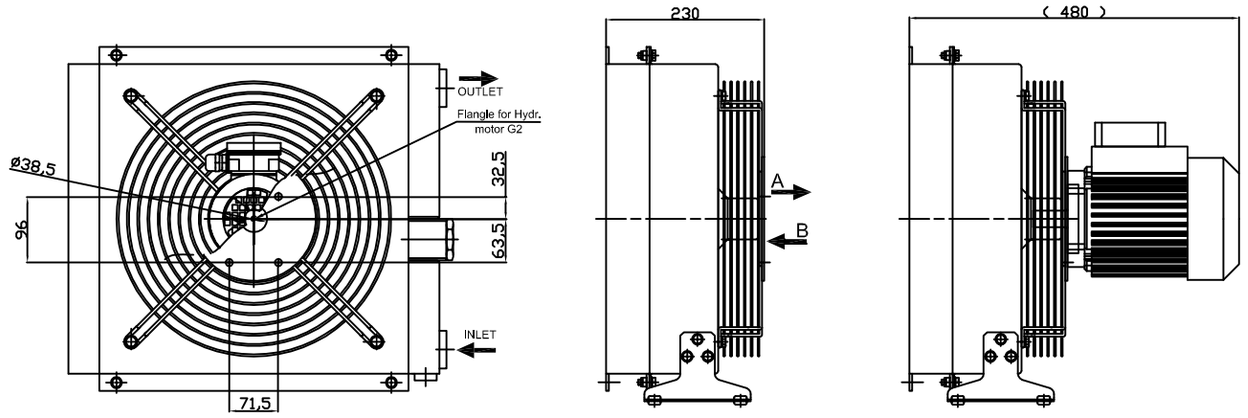
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4V.12.0.002	12	DC	2650	3300	0.210	13	385	68	75	3	14	Black
CSL4V.24.0.002	24	DC	2650	3300	0.210	8.1	385	68	75	3	14	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4V.22.0.002	230	50/60	2350	3200	0.170	0.74	400	44	68	3	15	Black
CSL4V.38.0.002	230/400	50/60	2450	3200	0.185	0.52	400	44	68	3	15	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4V.G2.0.002	//	//	//	//	//	//	400	//	//	3	15	Black
CSL4V.40.0.002	230/400	50/60	1450	3200	0.55	1.52	400	55	72	3	20	Black



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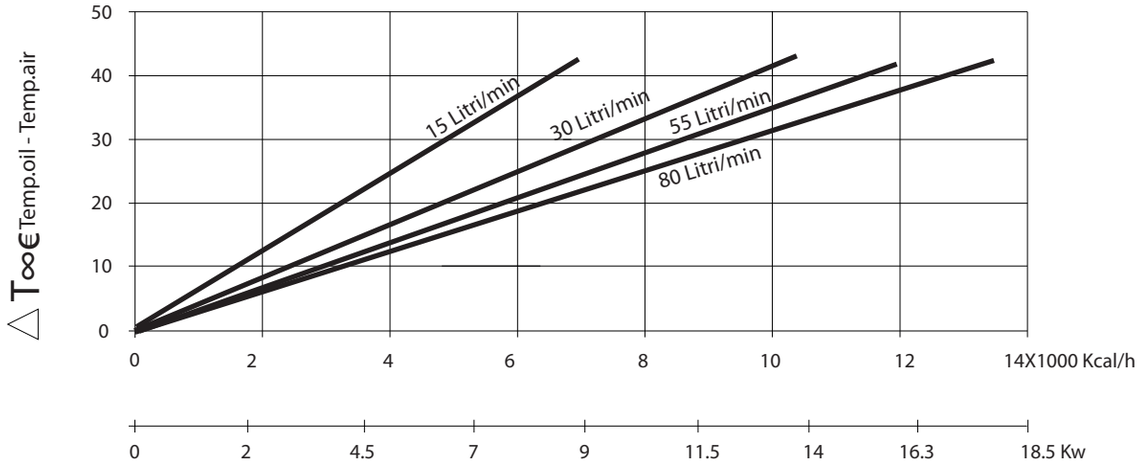
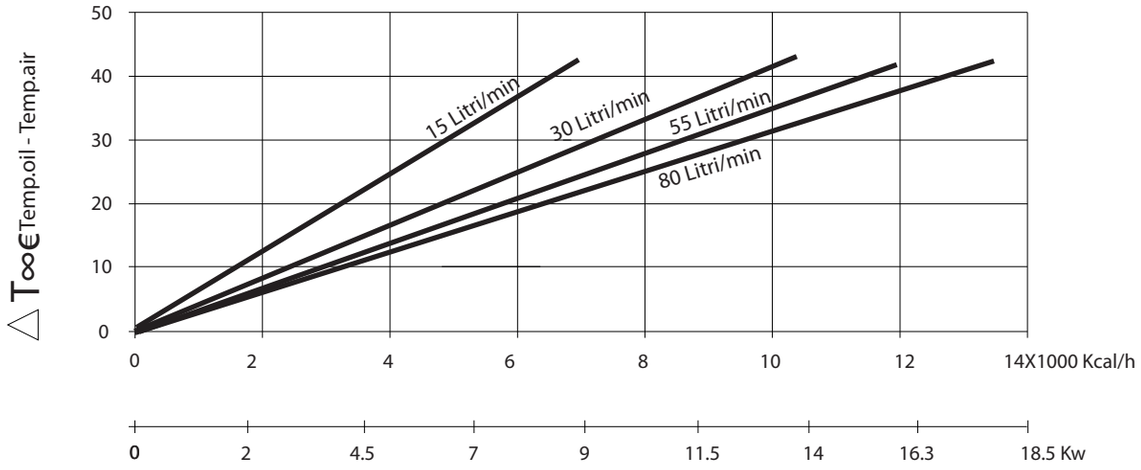
CSL4.2P and CSLV4.2P

THERMIC EFFICIENCY FOR 12-24 DC



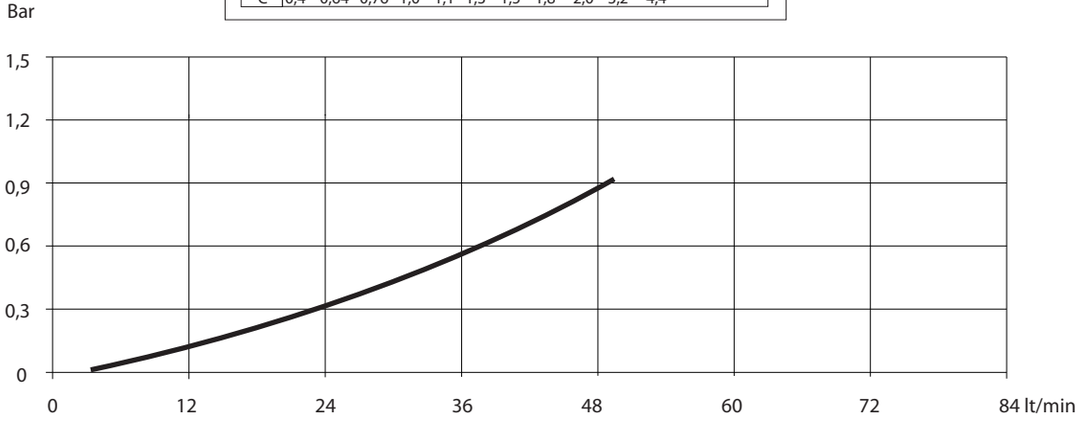
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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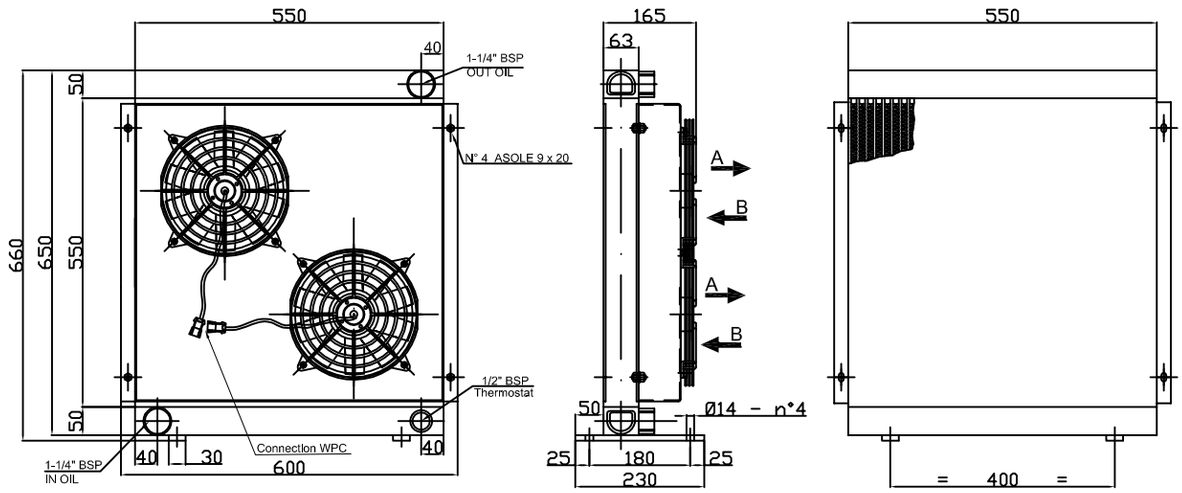
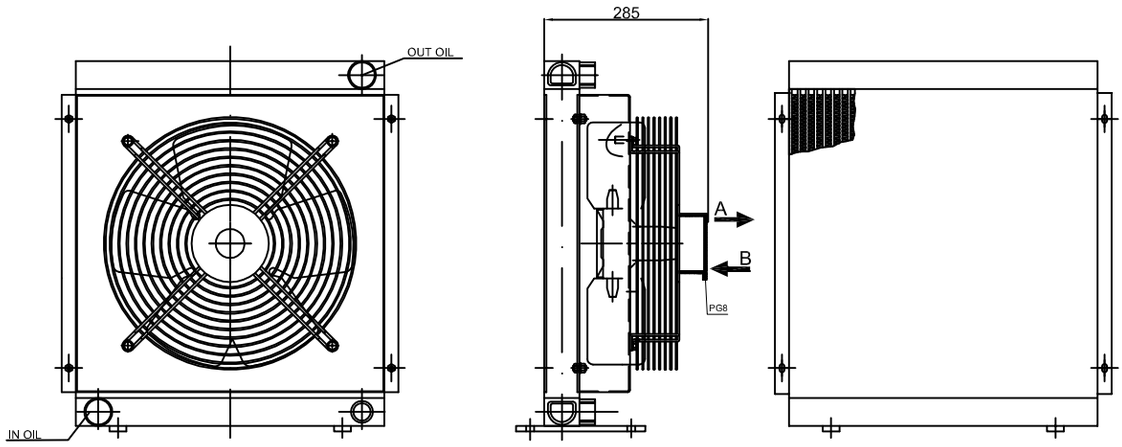
Air - Oil coolers series CSL5

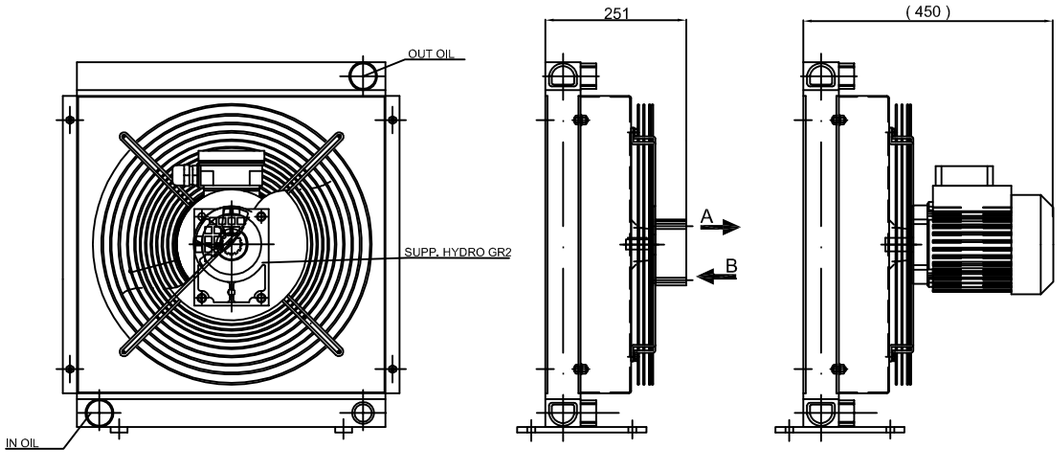
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL5.12.0.00	12	DC	3150 (x2)	950 (x2)	0.09 (x2)	5.8 (x2)	255 (x2)	68	70	3.9	18	Black
CSL5.24.0.00	24	DC	3050 (x2)	950 (x2)	0.10 (x2)	3 (x2)	255 (x2)	68	70	3.9	18	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL5.22.0.00	230	50/60	1600	6400	0.66	1.35	450	54	73	3.9	20	Black
CSL5.38.0.00	230/400	50/60	1600	6500	0.66	1.20	450	54	73	3.9	20	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL5.G2.0.00	//	//	//	//	//	//	450	//	//	3.9	18	Black
CSL5.40.0.00	230/400	50/60	1600	5000	0.55	1.88	450	55	76	3.9	24	Black



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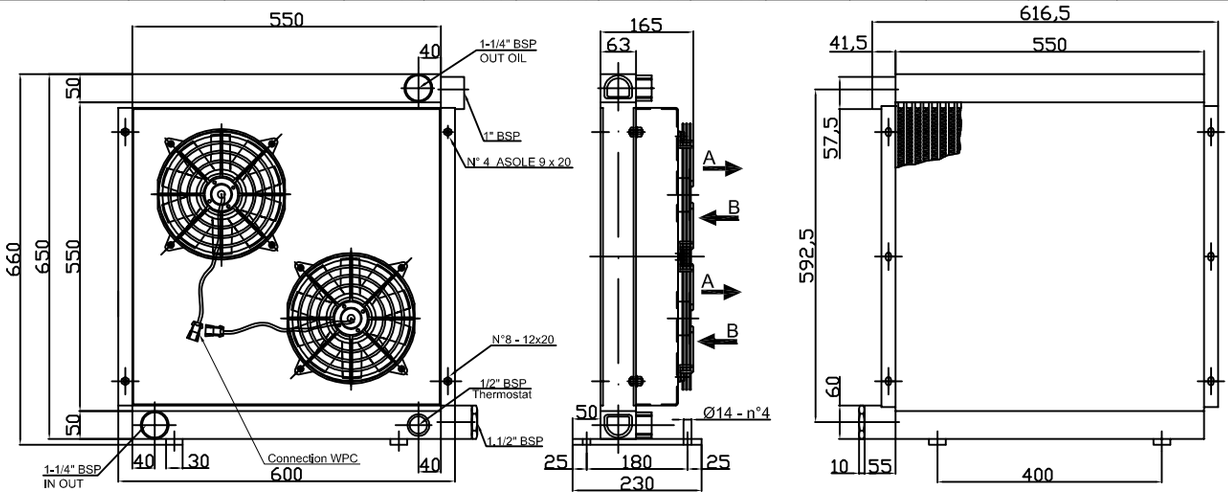
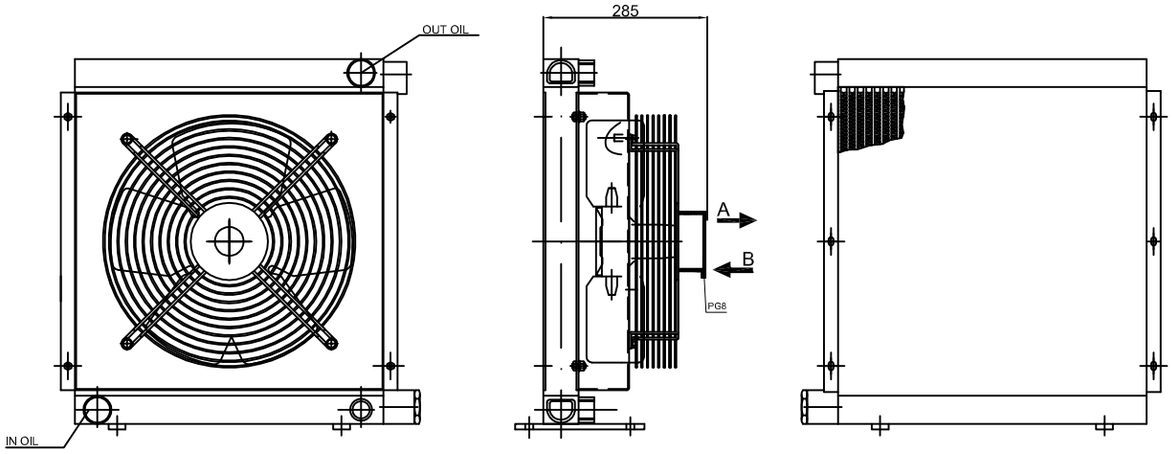
Air - Oil coolers series CSLV5

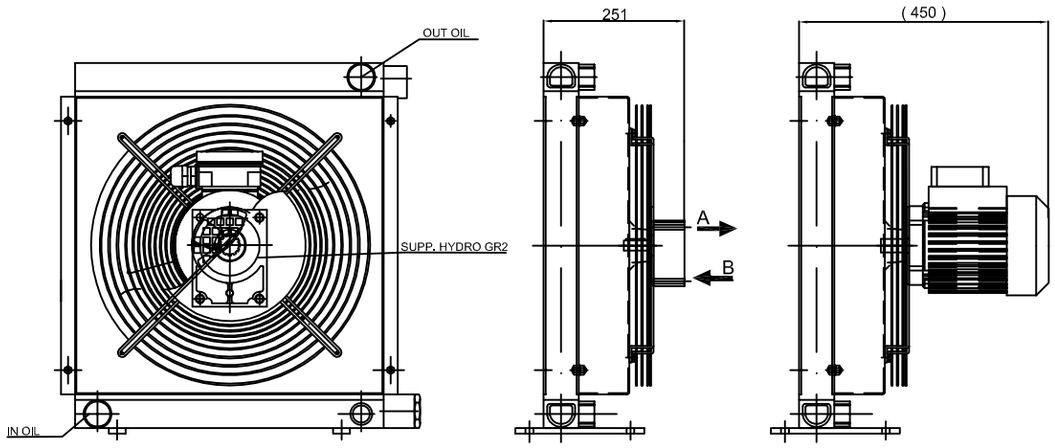
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV5.12.0.00	12	DC	3150 (x2)	950 (x2)	0.09 (x2)	5.8 (x2)	255 (x2)	68	70	3.9	19	Black
CSLV5.24.0.00	24	DC	3050 (x2)	950 (x2)	0.10 (x2)	3 (x2)	255 (x2)	68	70	3.9	19	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV5.22.0.00	230	50/60	1600	6400	0.66	1.35	450	54	73	3.9	21	Black
CSLV5.38.0.00	230/400	50/60	1600	6500	0.66	1.20	450	54	73	3.9	21	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m³/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV5.G2.0.00	//	//	//	//	//	//	450	//	//	3.9	19	Black
CSLV5.40.0.00	230/400	50/60	1600	5000	0.55	1.88	450	55	76	3.9	25	Black



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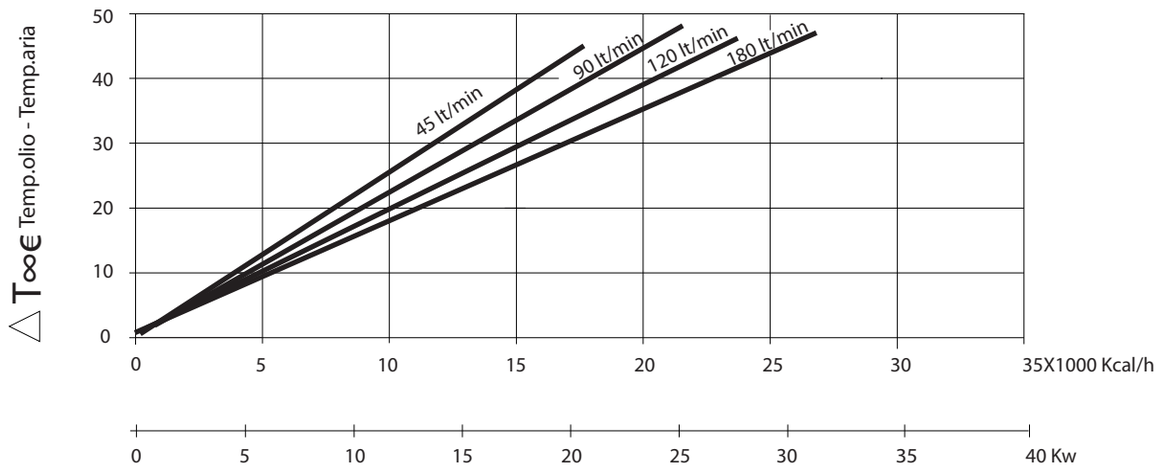
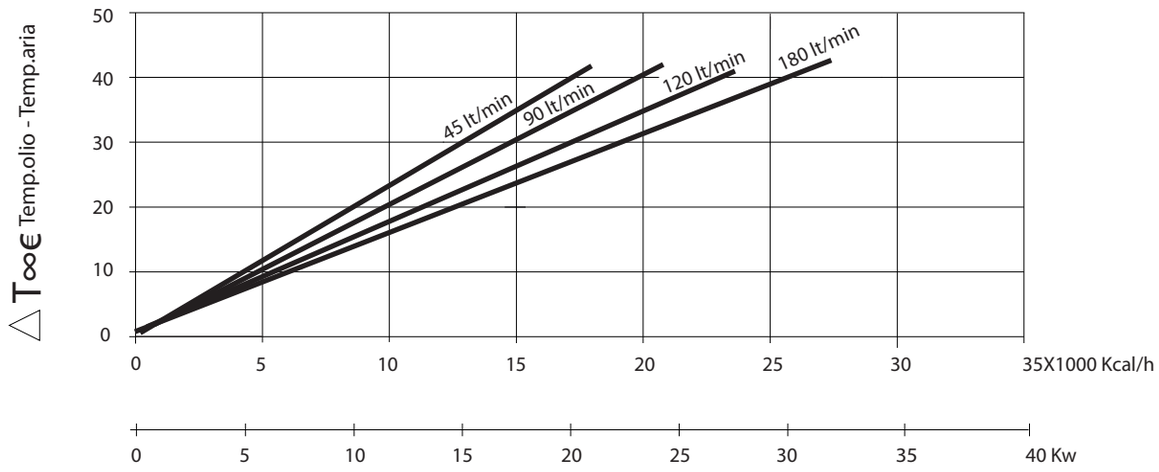
CSL5 and CSLV5

THERMIC EFFICIENCY FOR 12-24 DC



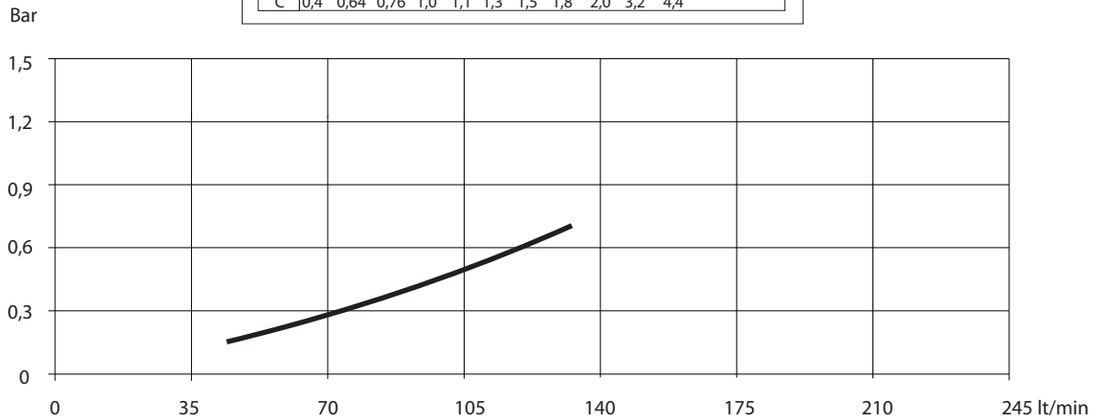
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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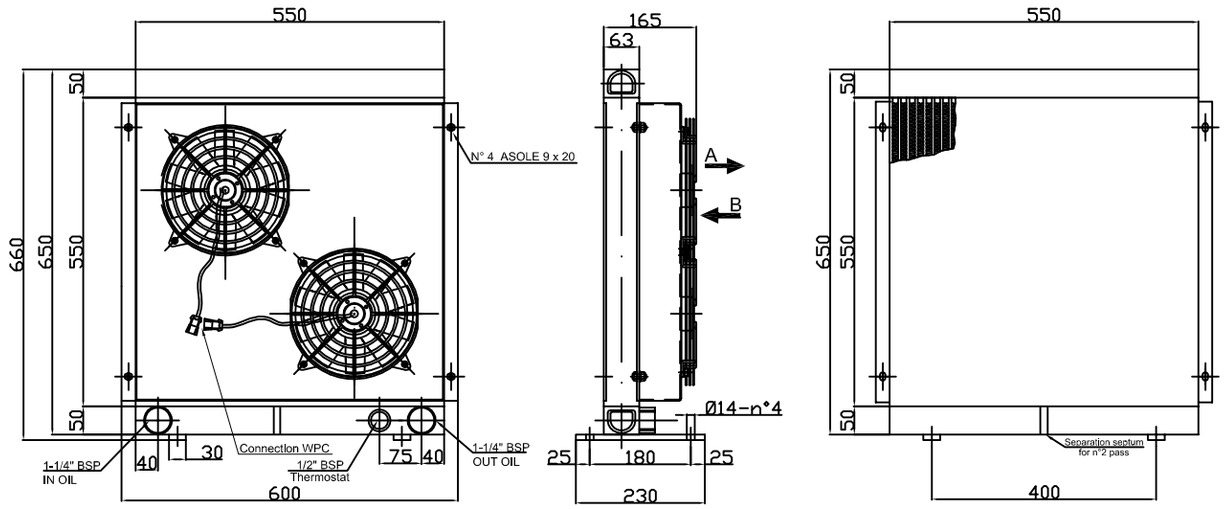
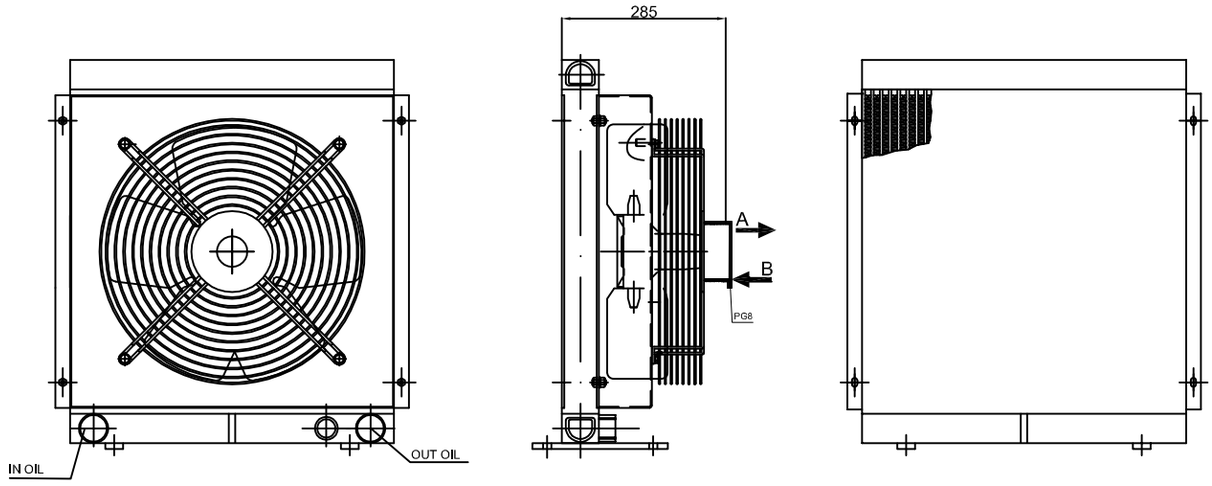
Air - Oil coolers series CSL5 - 2 Passages

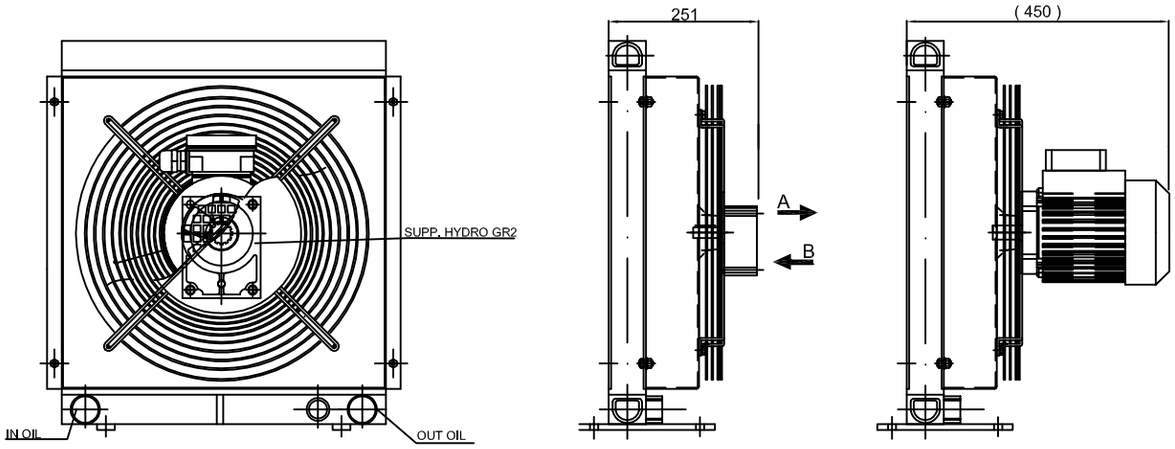
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL5.12.0.002	12	DC	3150 (x2)	950 (x2)	0.09 (x2)	5.8 (x2)	255 (x2)	68	70	3.9	18.2	Black
CSL5.24.0.002	24	DC	3050 (x2)	950 (x2)	0.10 (x2)	3 (x2)	255 (x2)	68	70	3.9	18.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL5.22.0.002	230	50/60	1600	6400	0.66	1.35	450	54	73	3.9	20.2	Black
CSL5.38.0.002	230/400	50/60	1600	6500	0.66	1.20	450	54	73	3.9	20.2	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL5.G2.0.002	//	//	//	//	//	//	450	//	//	3.9	18.2	Black
CSL5.40.0.002	230/400	50/60	1600	5000	0.55	1.88	450	55	76	3.9	24.2	Black



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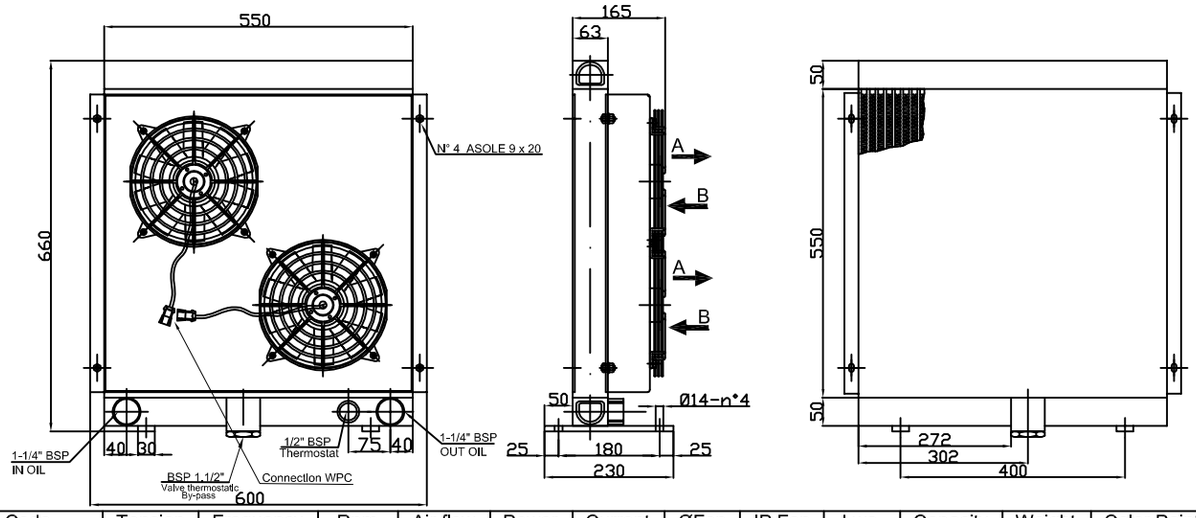
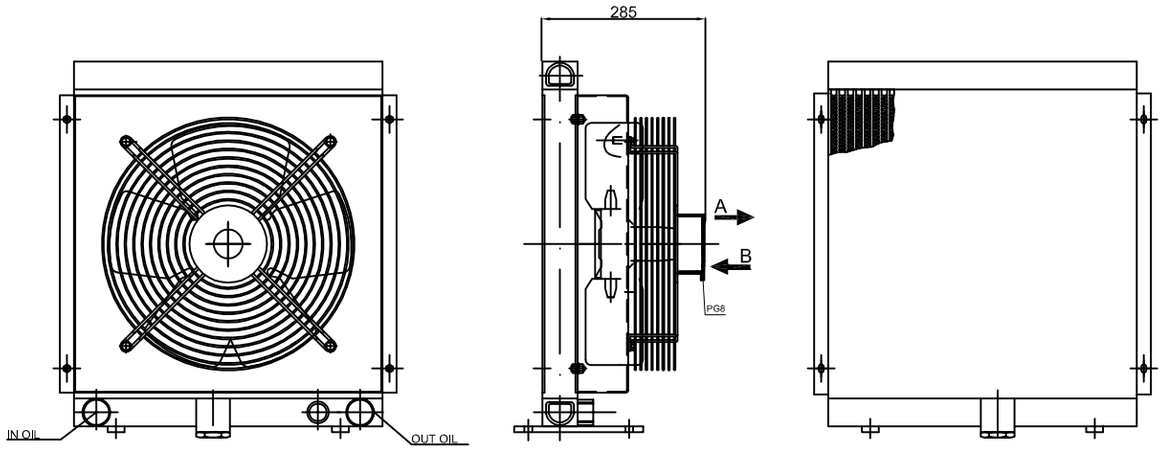
Air - Oil coolers series CSLV5 - 2 Passages

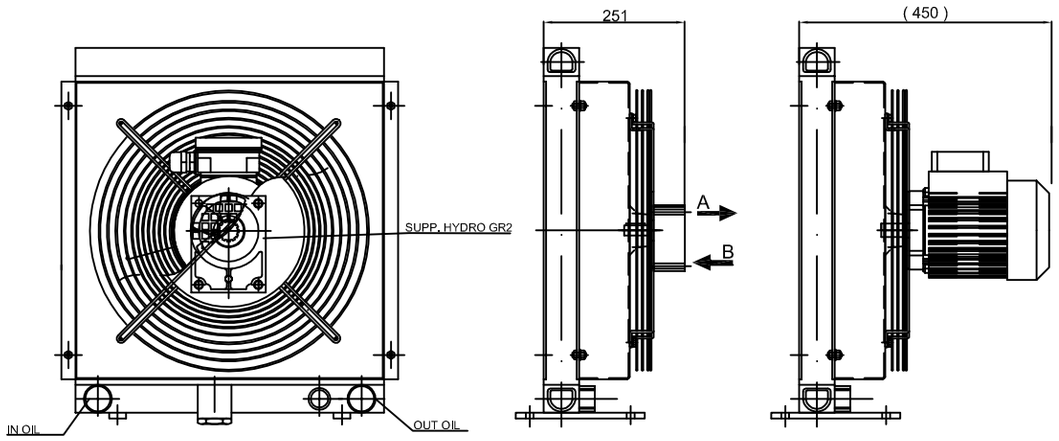
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV5.12.0.002	12	DC	3150 (x2)	950 (x2)	0.09 (x2)	5.8 (x2)	255 (x2)	68	70	3.9	19	Black
CSLV5.24.0.002	24	DC	3050 (x2)	950 (x2)	0.10 (x2)	3 (x2)	255 (x2)	68	70	3.9	19	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV5.22.0.002	230	50/60	1600	6400	0.66	1.35	450	54	73	3.9	21	Black
CSLV5.38.0.002	230/400	50/60	1600	6500	0.66	1.20	450	54	73	3.9	21	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV5.G2.0.002	//	//	//	//	//	//	450	//	//	3.9	19	Black
CSLV5.40.0.002	230/400	50/60	1600	5000	0.55	1.88	450	55	76	3.9	25	Black



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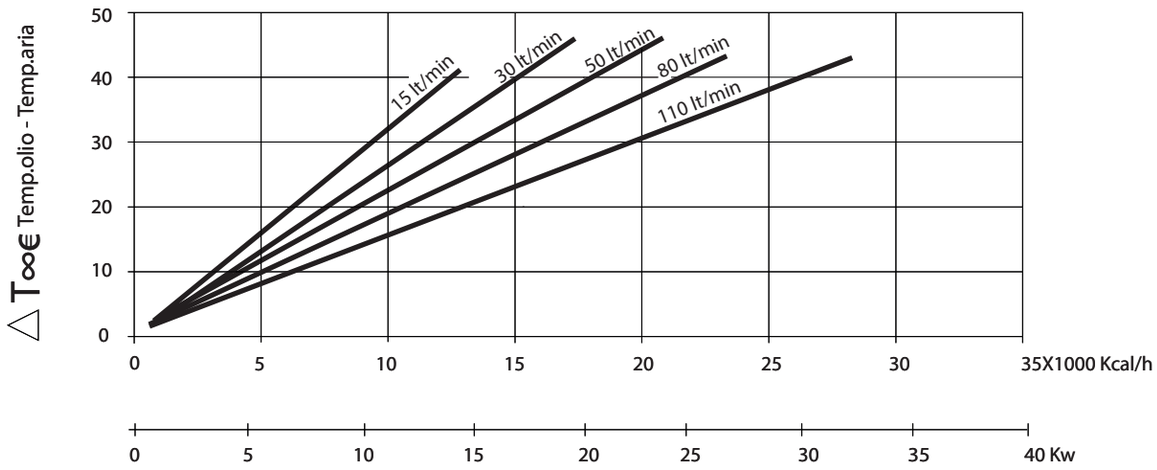
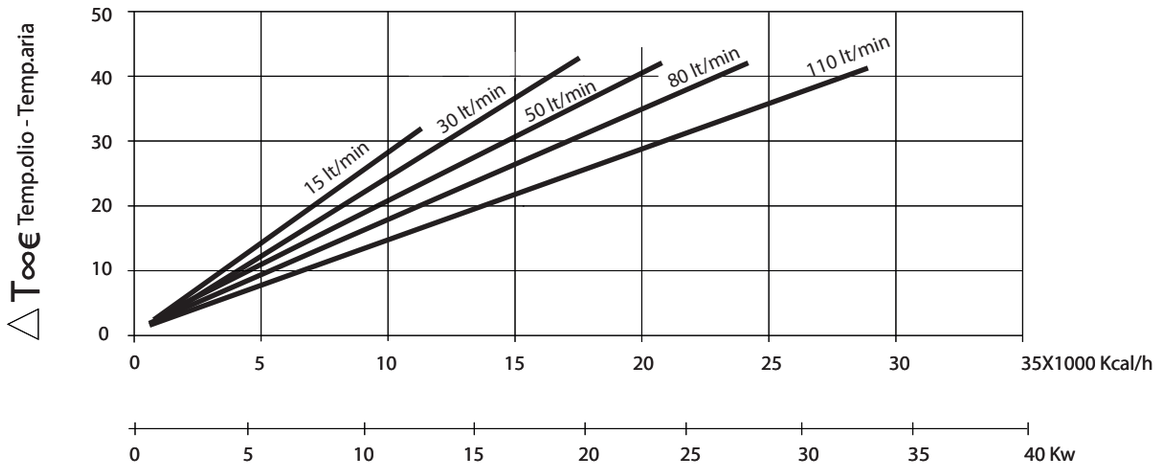
CSL5.2P and CSLV5.2P

THERMIC EFFICIENCY FOR 12-24 DC



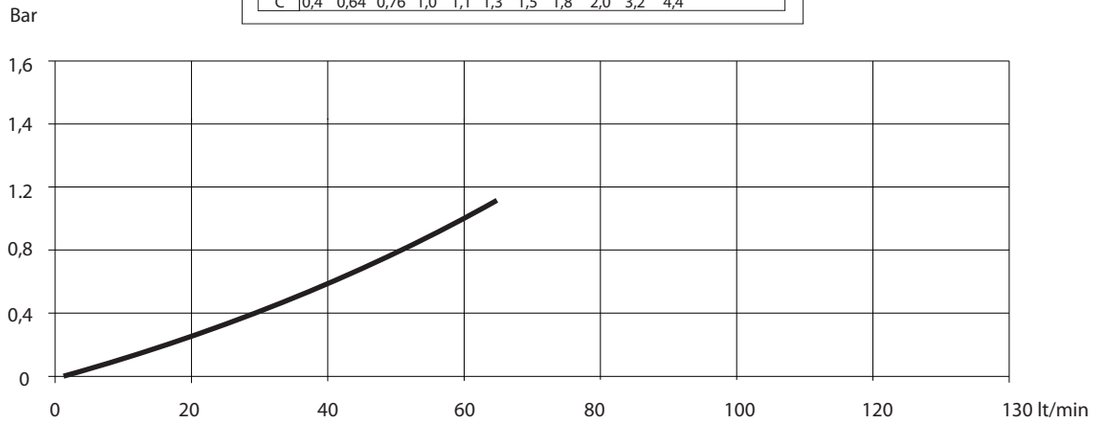
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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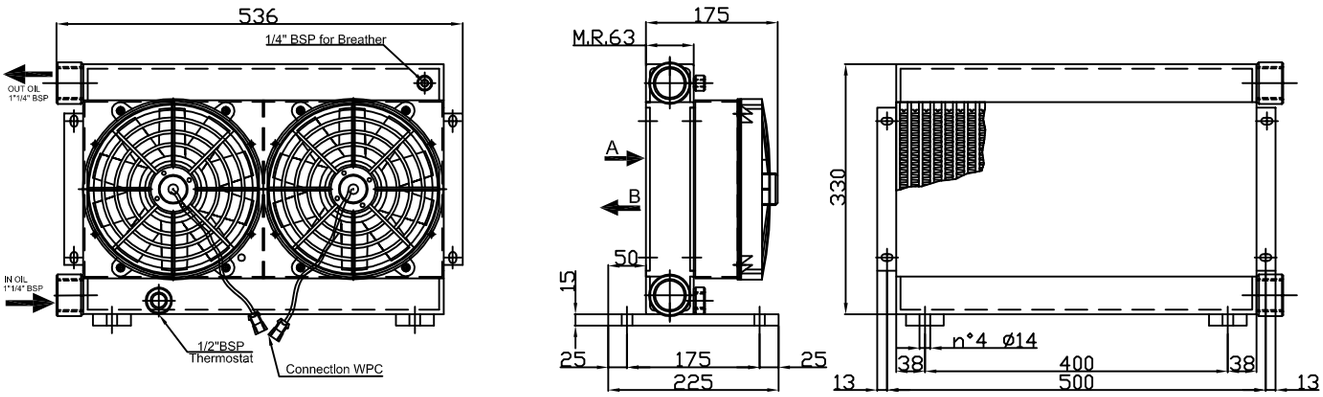
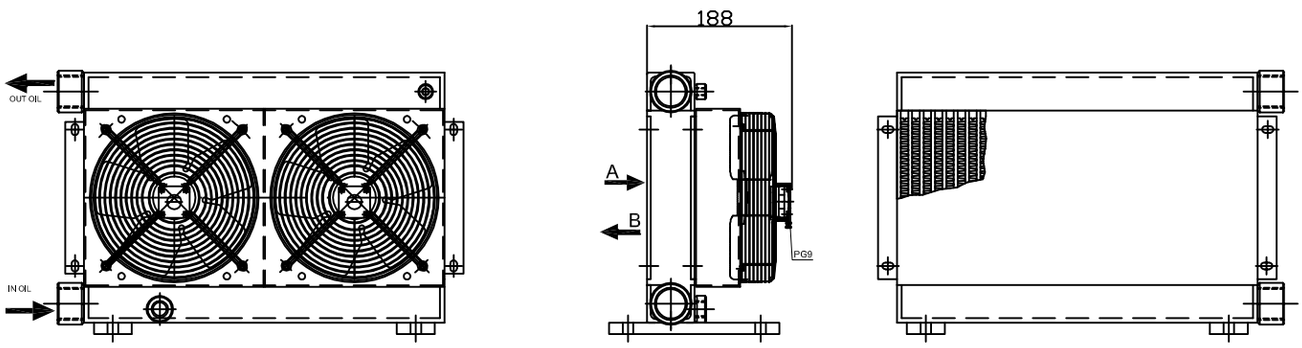
Air - Oil coolers series CSL1/2

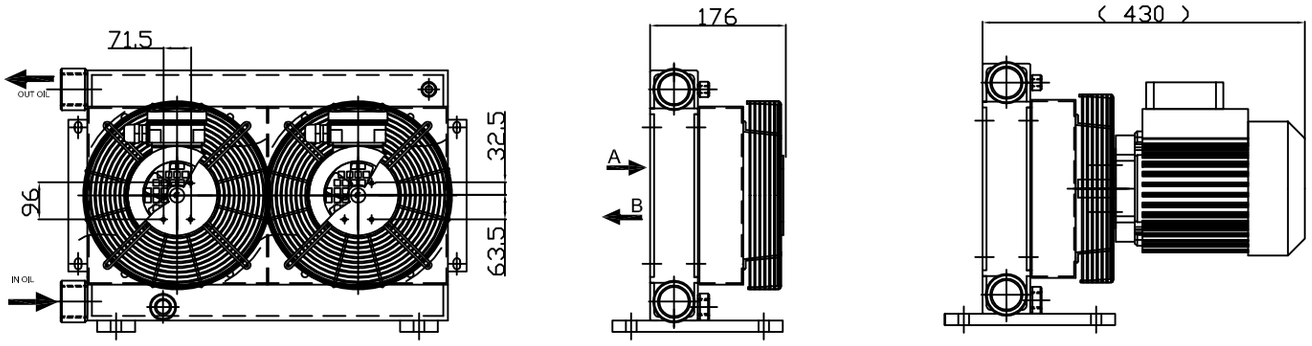
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1/2.12.0.00	12	DC	3100 (x2)	900 (x2)	0.09 (x2)	5.9 (x2)	225 (x2)	68	72	2.5	9.5	Black
CSL1/2.24.0.00	24	DC	3050 (x2)	885 (x2)	0.10 (x2)	2.7 (x2)	225 (x2)	68	72	2.5	9.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1/2.22.0.00	230	50/60	3200 (x2)	810 (x2)	0.08 (x2)	0.5 (x2)	200 (x2)	44	66	2.5	11	Black
CSL1/2.38.0.00	230/400	50/60	2800 (x2)	810 (x2)	0.06 (x2)	0.3 (x2)	200 (x2)	44	66	2.5	11	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL1/2.G2.0.00	//	//	//	//	//	//	200 (x2)	//	//	2.5	11	Black
CSL1/2.40.0.00	230/400	50/60	1350 (x2)	400 (x2)	0.25 (x2)	0.72 (x2)	200 (x2)	55	67	2.5	18	Black



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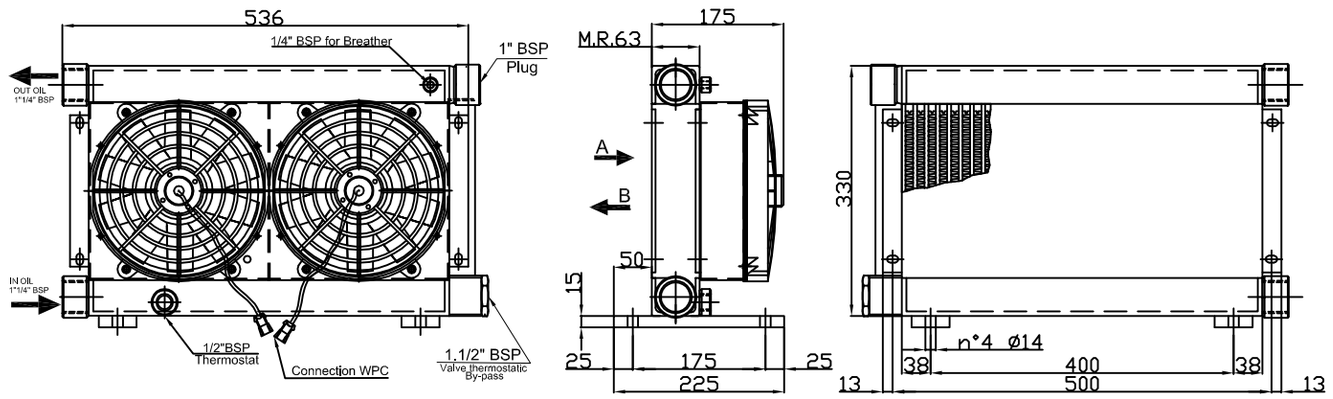
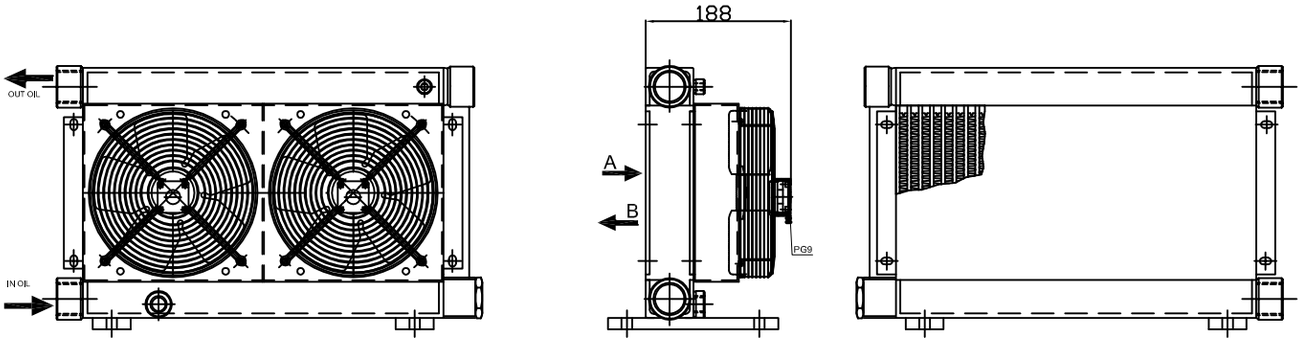
Air - Oil coolers series CSLV1/2

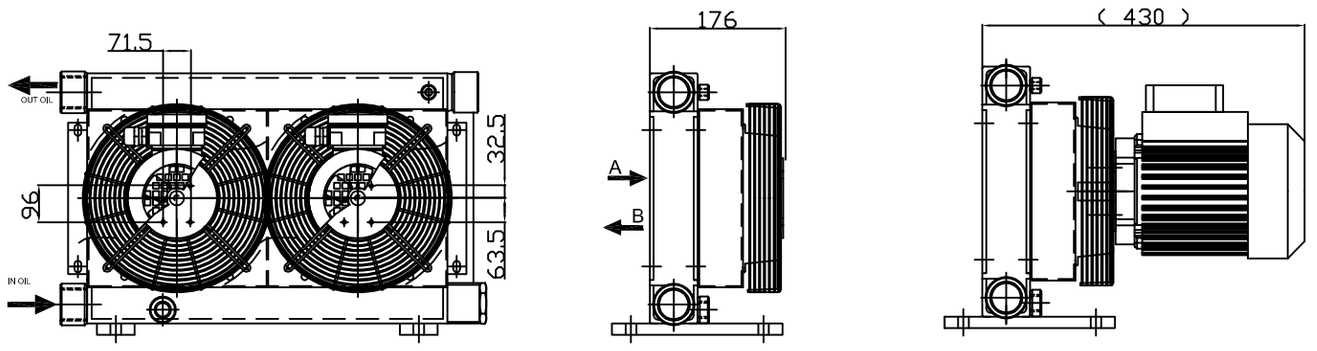
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1/2.12.0.00	12	DC	3100 (x2)	900 (x2)	0.09 (x2)	5.9 (x2)	225 (x2)	68	72	2.5	10	Black
CSLV1/2.24.0.00	24	DC	3050 (x2)	885 (x2)	0.10 (x2)	2.7 (x2)	225 (x2)	68	72	2.5	10	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1/2.22.0.00	230	50/60	3200 (x2)	810 (x2)	0.08 (x2)	0.5 (x2)	200 (x2)	44	66	2.5	11.5	Black
CSLV1/2.38.0.00	230/400	50/60	2800 (x2)	810 (x2)	0.06 (x2)	0.3 (x2)	200 (x2)	44	66	2.5	11.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV1/2.G2.0.00	//	//	//	//	//	//	200 (x2)	//	//	2.5	11.5	Black
CSLV1/2.40.0.00	230/400	50/60	1350 (x2)	400 (x2)	0.25 (x2)	0.72 (x2)	200 (x2)	55	67	2.5	18.5	Black



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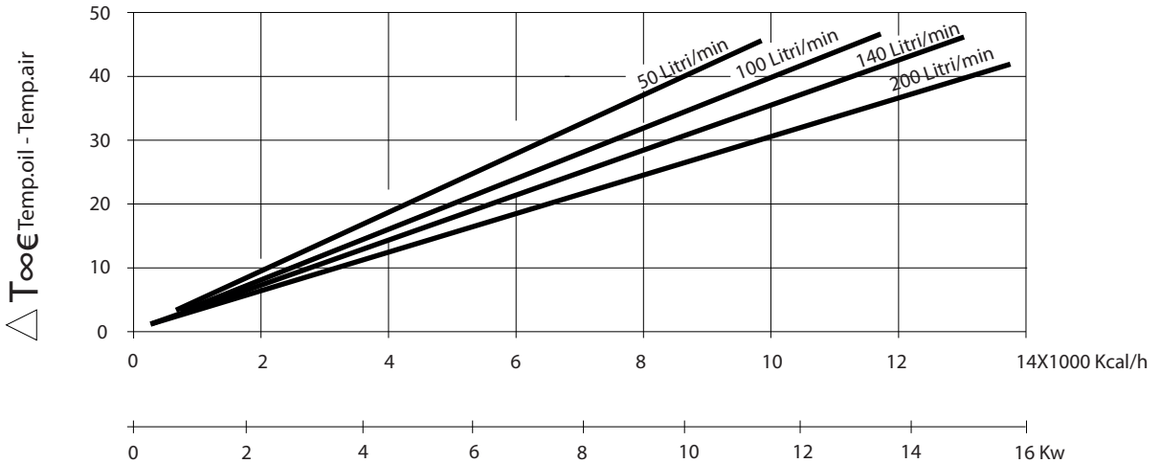
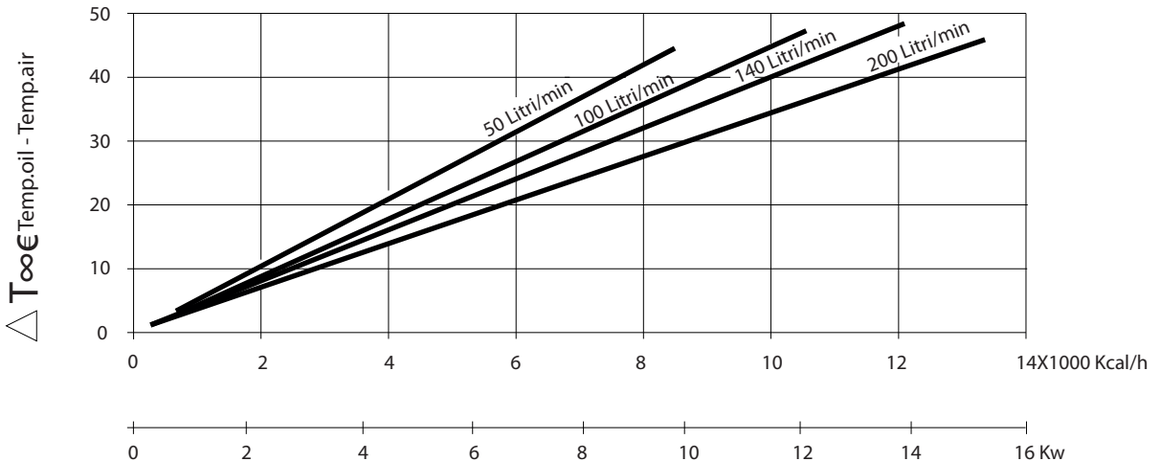
CSL1/2 and CSLV1/2

THERMIC EFFICIENCY FOR 12-24 DC



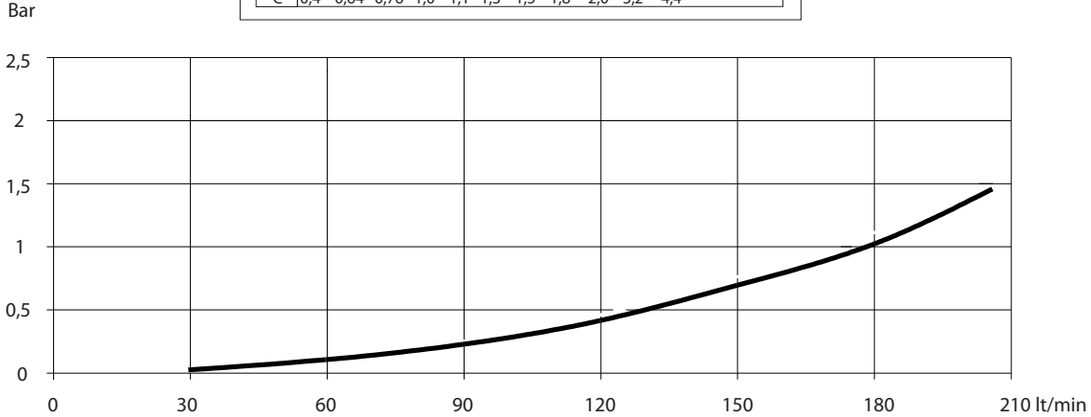
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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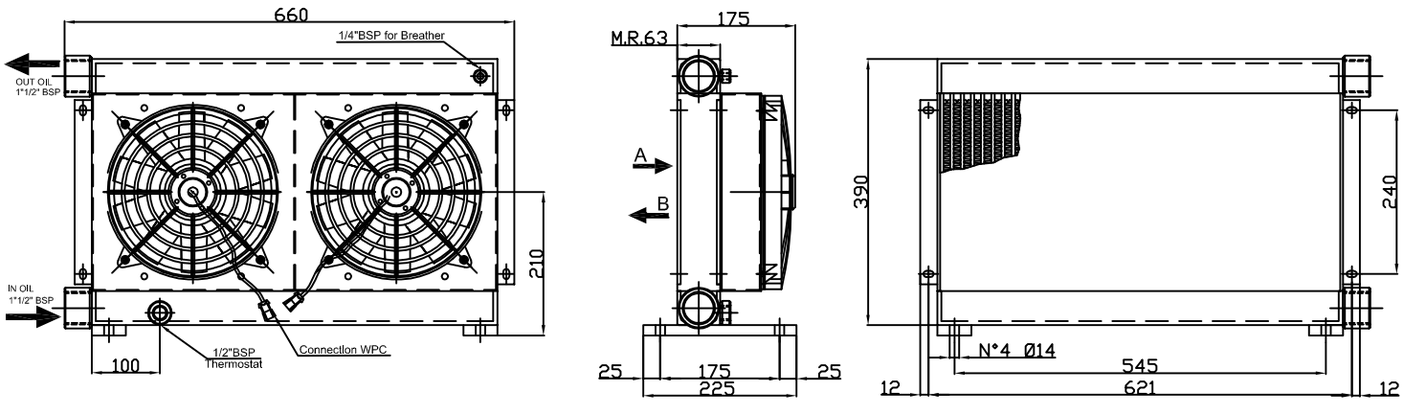
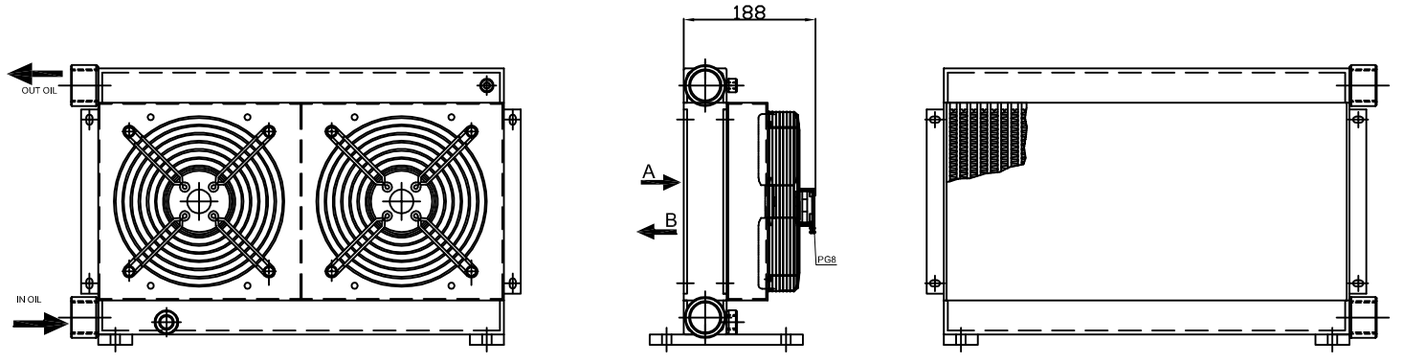
Air - Oil coolers series CSL2/2

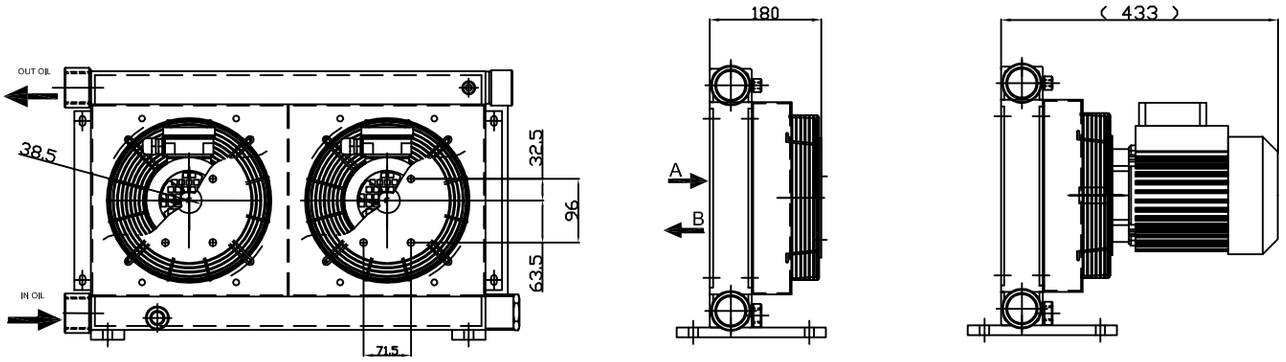
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2/2.12.0.00	12	DC	3150 (x2)	950 (x2)	0.09 (x2)	5.8 (x2)	255 (x2)	68	70	3.3	11	Black
CSL2/2.24.0.00	24	DC	3050 (x2)	950 (x2)	0.10 (x2)	3 (x2)	255 (x2)	68	70	3.3	11	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2/2.22.0.00	230	50/60	2850 (x2)	1960 (x2)	0.13 (x2)	0.55 (x2)	250 (x2)	44	71	3.3	13	Black
CSL2/2.38.0.00	230/400	50/60	2700 (x2)	1830 (x2)	0.11 (x2)	0.4 (x2)	250 (x2)	44	71	3.3	13	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL2/2.G2.0.00	//	//	//	//	//	//	250 (x2)	//	//	3.3	11	Black
CSL2/2.40.0.00	230/400	50/60	1450 (x2)	1100 (x2)	0.25 (x2)	0.68 (x2)	250 (x2)	55	64	3.3	20	Black



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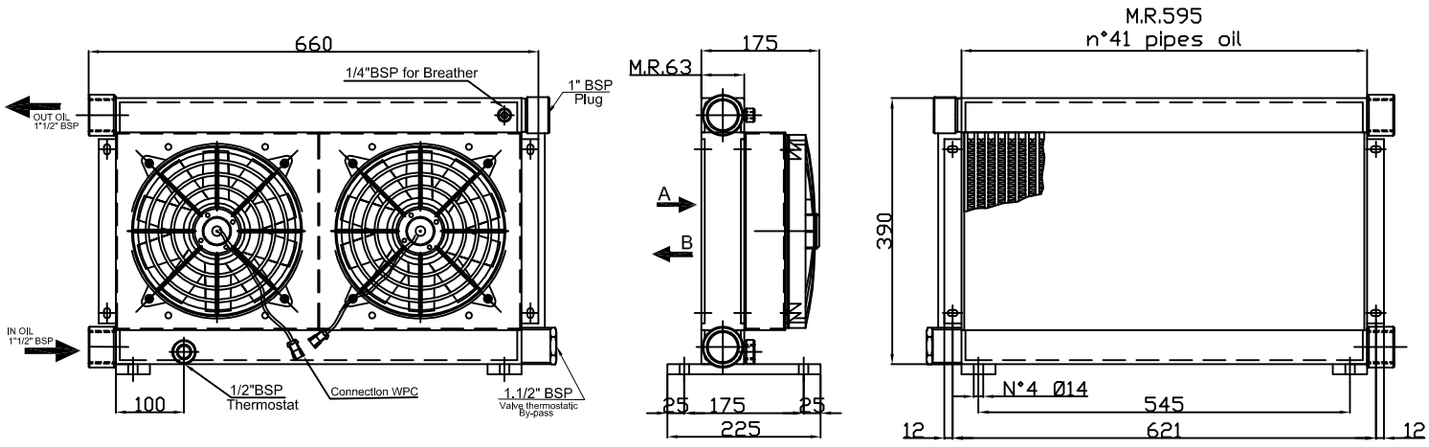
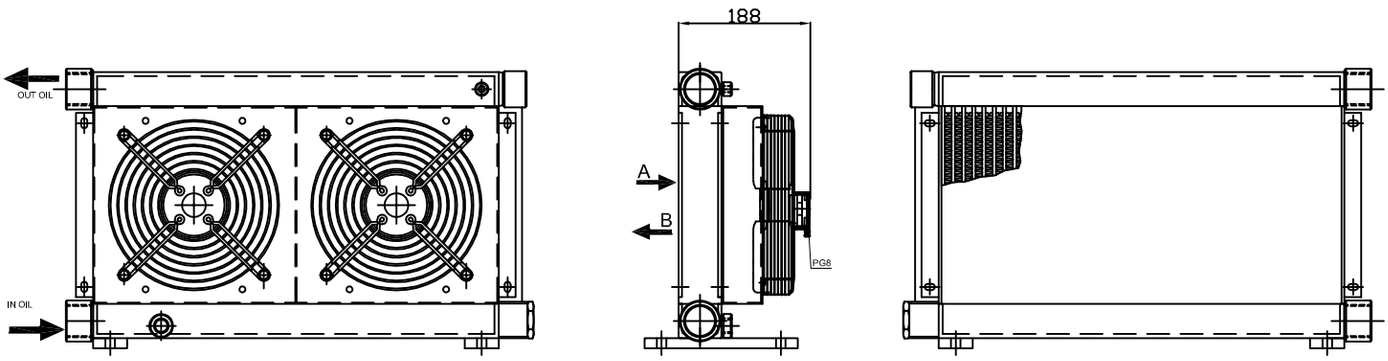
Air - Oil coolers series CSLV2/2

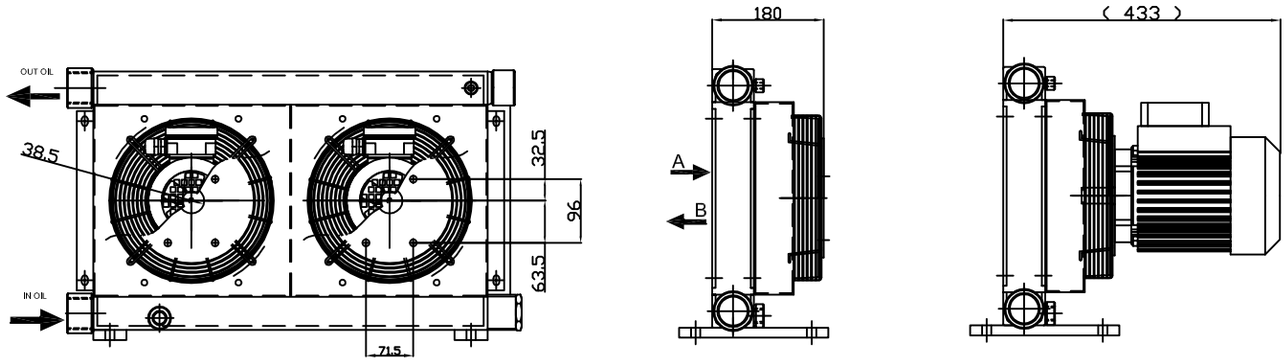
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2/2.12.0.00	12	DC	3150 (x2)	950 (x2)	0.09 (x2)	5.8 (x2)	255 (x2)	68	70	3.3	11	Black
CSLV2/2.24.0.00	24	DC	3050 (x2)	950 (x2)	0.10 (x2)	3 (x2)	255 (x2)	68	70	3.3	11	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2/2.22.0.00	230	50/60	2850 (x2)	1960 (x2)	0.13 (x2)	0.55 (x2)	250 (x2)	44	71	3.3	18	Black
CSLV2/2.38.0.00	230/400	50/60	2700 (x2)	1830 (x2)	0.11 (x2)	0.4 (x2)	250 (x2)	44	71	3.3	18	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV2/2.G2.0.00	//	//	//	//	//	//	250 (x2)	//	//	3.3	11	Black
CSLV2/2.40.0.00	230/400	50/60	1450 (x2)	1100 (x2)	0.25 (x2)	0.68 (x2)	250 (x2)	55	64	3.3	20	Black



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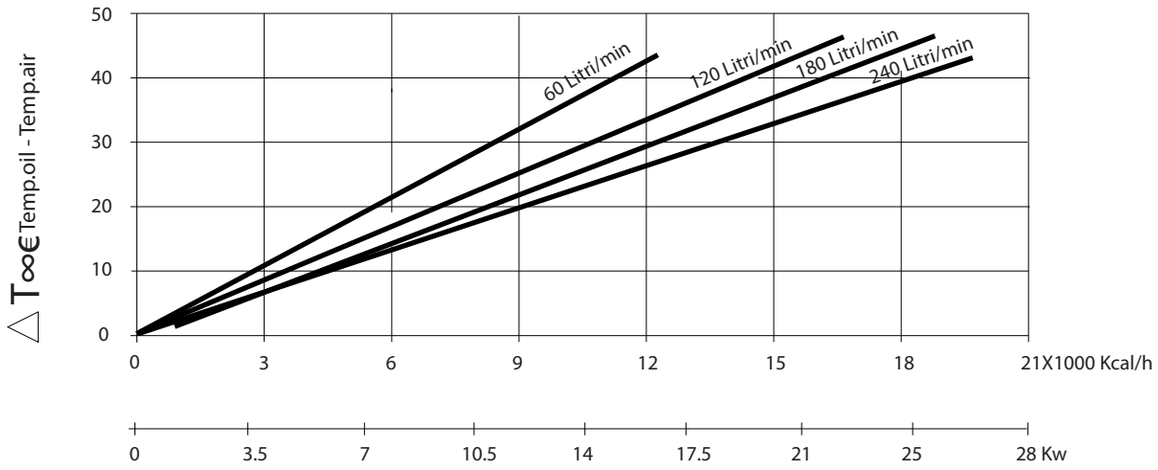
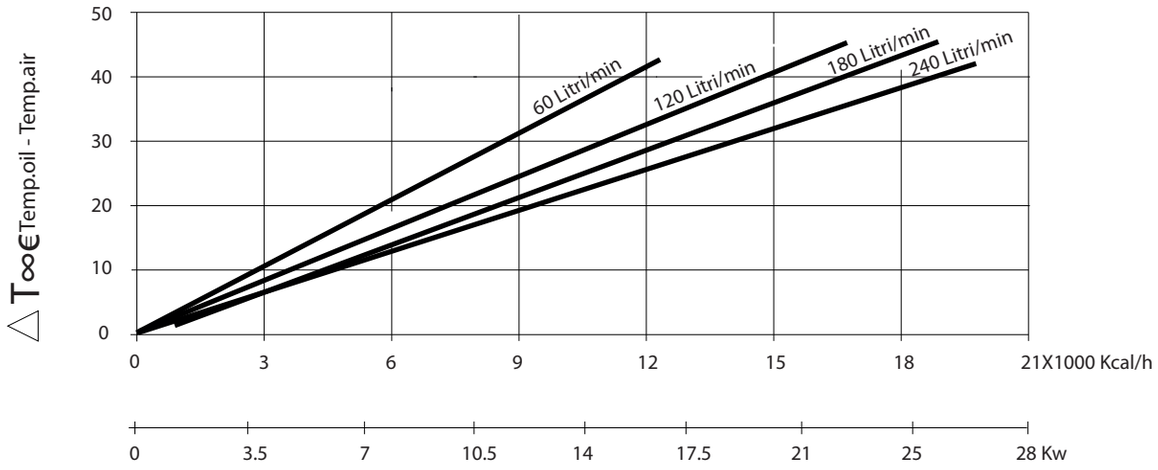
CSL2/2 and CSLV2/2

THERMIC EFFICIENCY FOR 12-24 DC



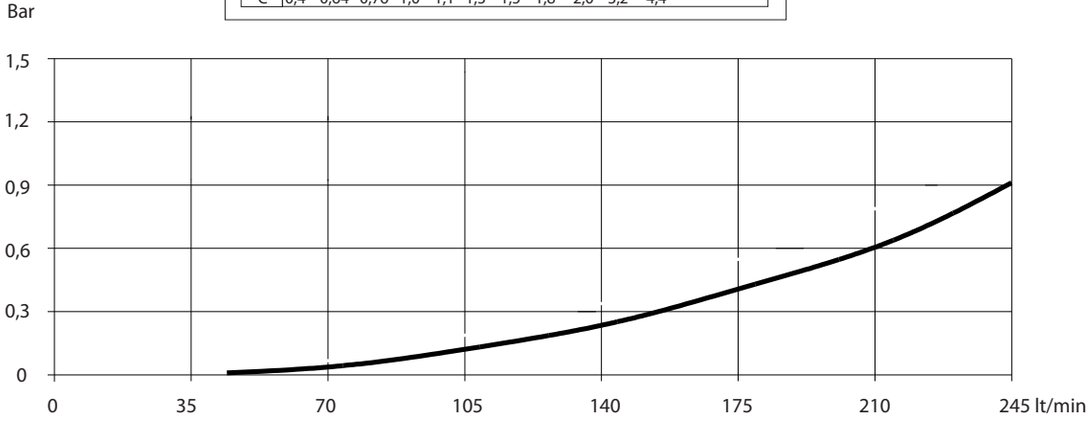
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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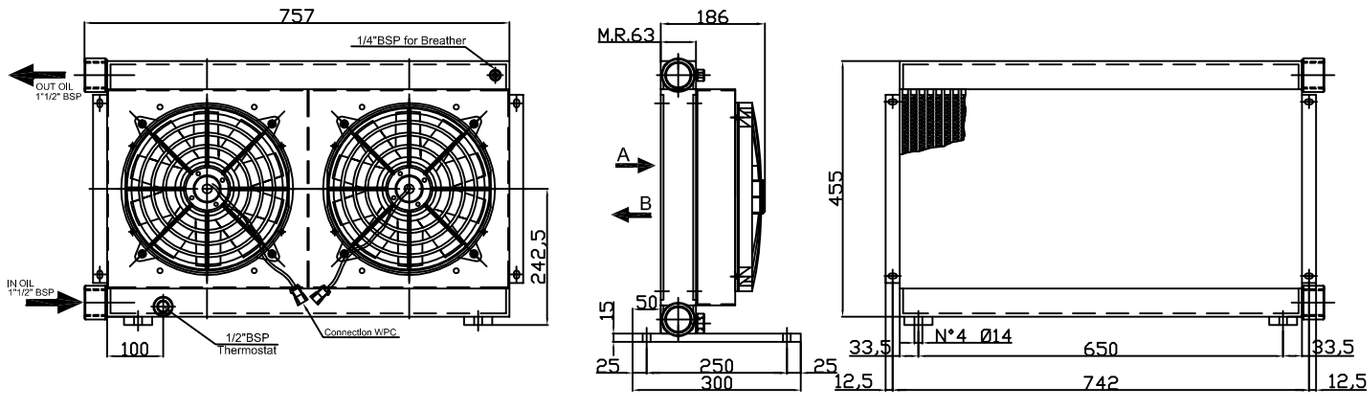
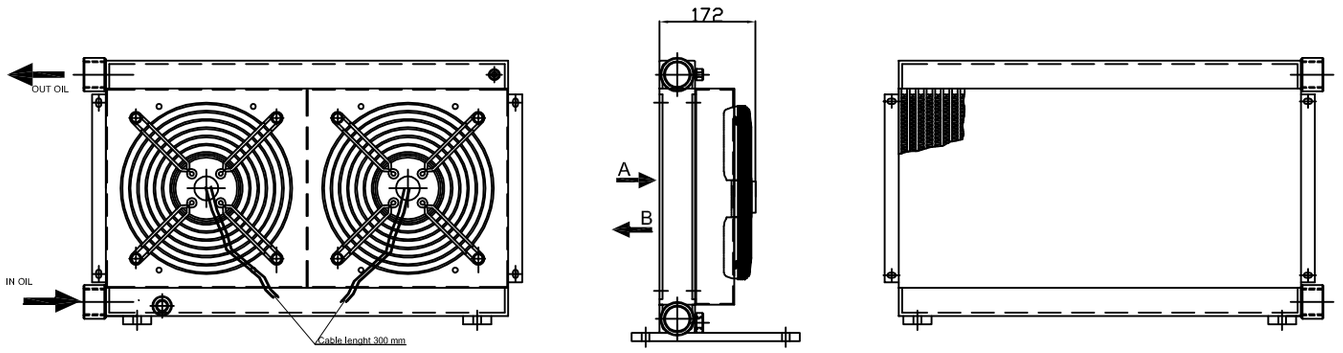
Air - Oil coolers series CSL3/2

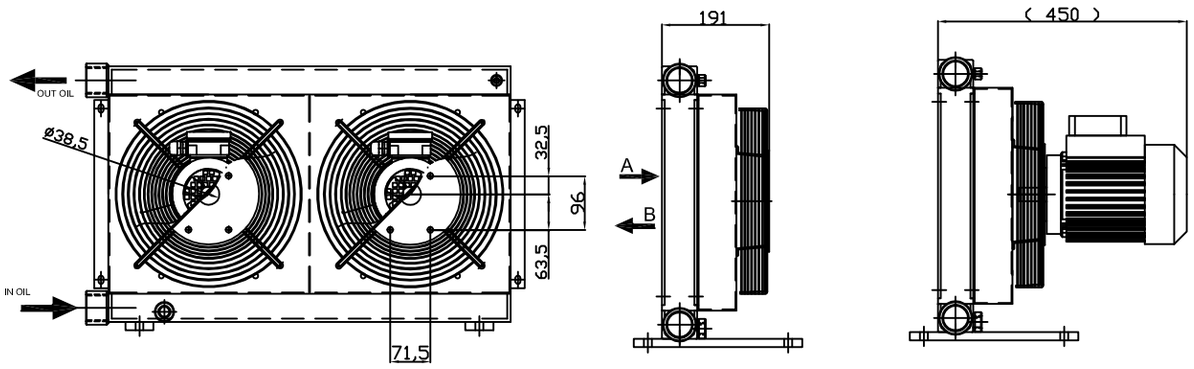
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3/2.12.0.00	12	DC	3150 (x2)	2670 (x2)	0.15 (x2)	11 (x2)	305 (x2)	68	69	4	18	Black
CSL3/2.24.0.00	24	DC	3050 (x2)	2670 (x2)	0.15 (x2)	5.5 (x2)	305 (x2)	68	69	4	18	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3/2.22.0.00	230	50/60	2600 (x2)	2600 (x2)	0.35 (x2)	1.55 (x2)	300 (x2)	44	70	4	20	Black
CSL3/2.38.0.00	230/400	50/60	2600 (x2)	2600 (x2)	0.30 (x2)	0.48 (x2)	300 (x2)	44	70	4	20	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL3/2.G2.0.00	//	//	//	//	//	//	300 (x2)	//	//	4	20	Black
CSL3/2.40.0.00	230/400	50/60	1450 (x2)	1950 (x2)	0.37 (x2)	1.03 (x2)	300 (x2)	55	70	4	28	Black



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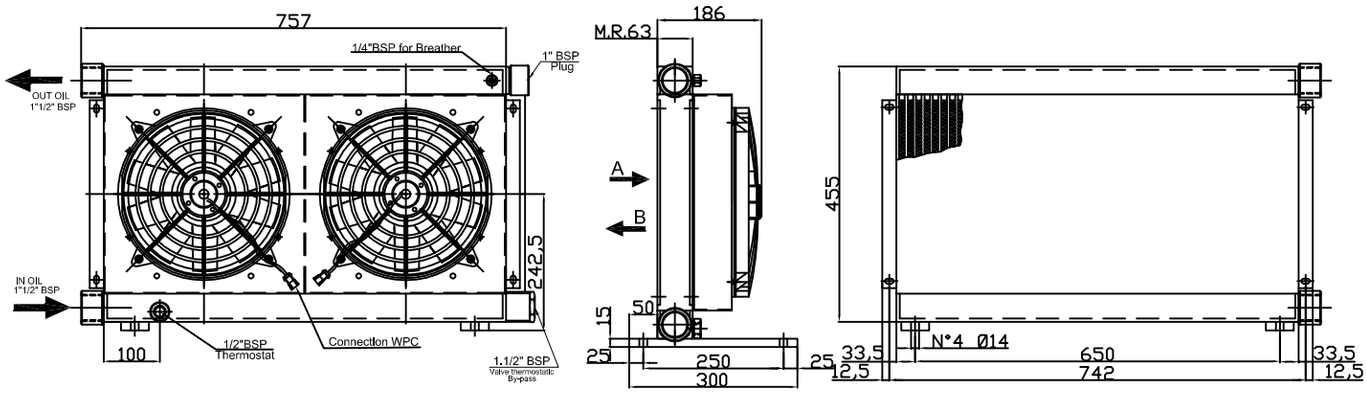
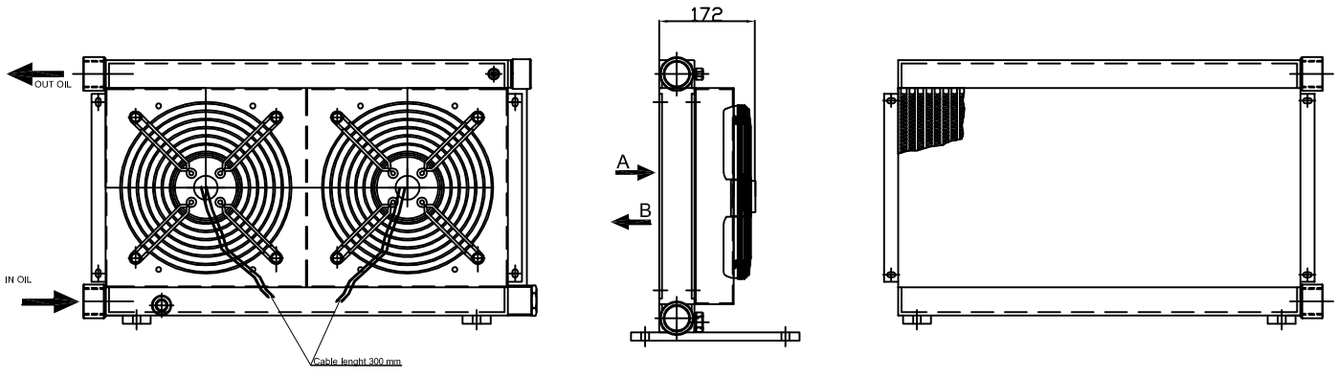
Air - Oil coolers series CSLV3/2

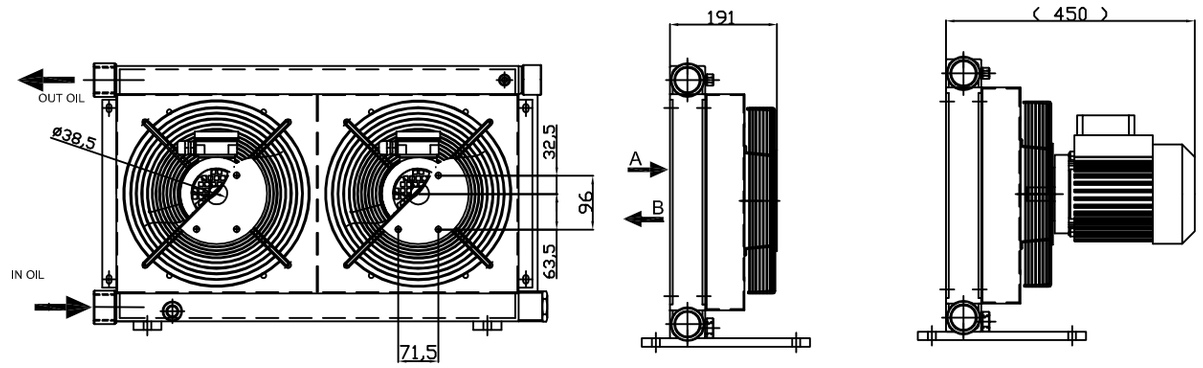
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3/2.12.0.00	12	DC	3150 (x2)	2670 (x2)	0.15 (x2)	11 (x2)	305 (x2)	68	69	4	18.5	Black
CSLV3/2.24.0.00	24	DC	3050 (x2)	2670 (x2)	0.15 (x2)	5.5 (x2)	305 (x2)	68	69	4	18.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3/2.22.0.00	230	50/60	2600 (x2)	2600 (x2)	0.35 (x2)	1.55 (x2)	300 (x2)	44	70	4	20.5	Black
CSLV3/2.38.0.00	230/400	50/60	2600 (x2)	2600 (x2)	0.30 (x2)	0.48 (x2)	300 (x2)	44	70	4	20.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV3/2.G2.0.00	//	//	//	//	//	//	300 (x2)	//	//	4	20.5	Black
CSLV3/2.40.0.00	230/400	50/60	1450 (x2)	1950 (x2)	0.37 (x2)	1.03 (x2)	300 (x2)	55	70	4	29	Black



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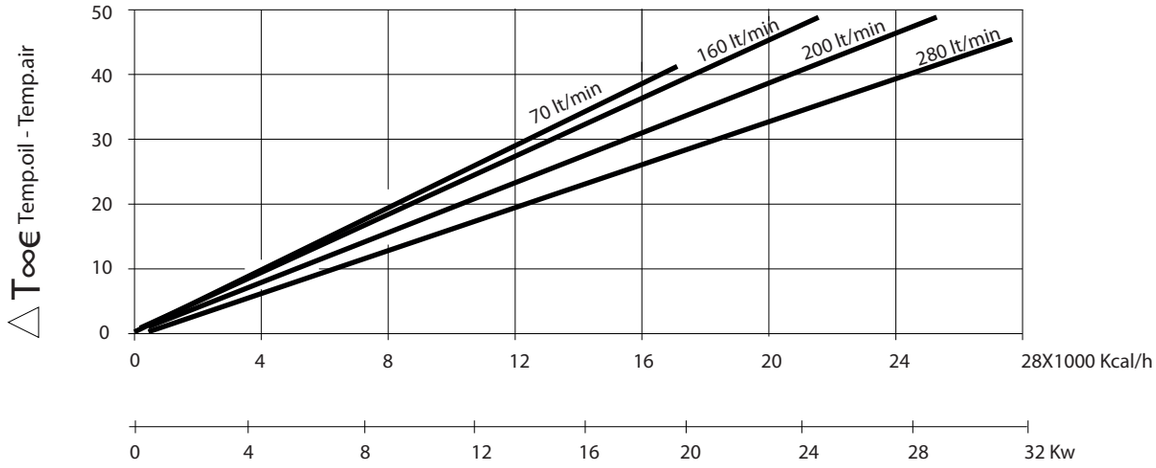
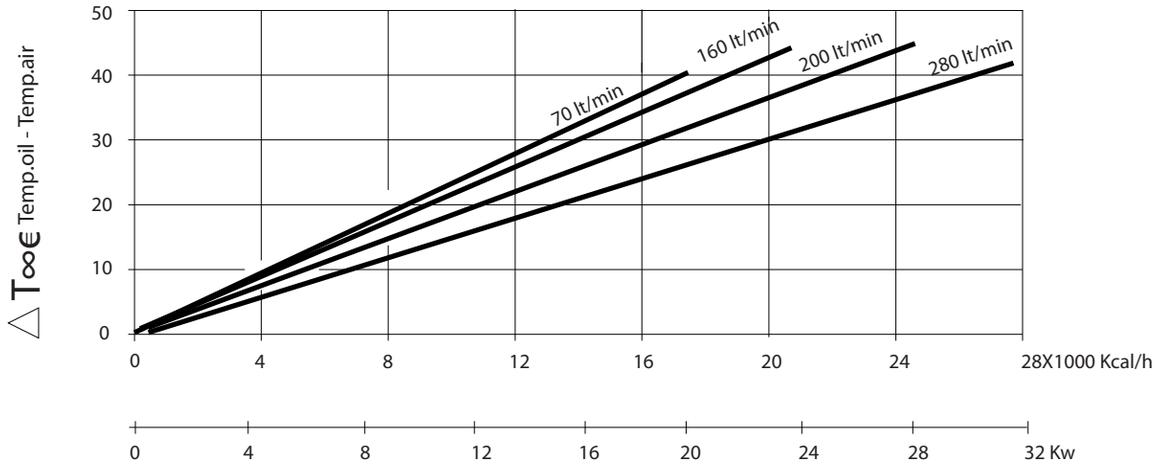
CSL3/2 and CSLV3/2

THERMIC EFFICIENCY FOR 12-24 DC



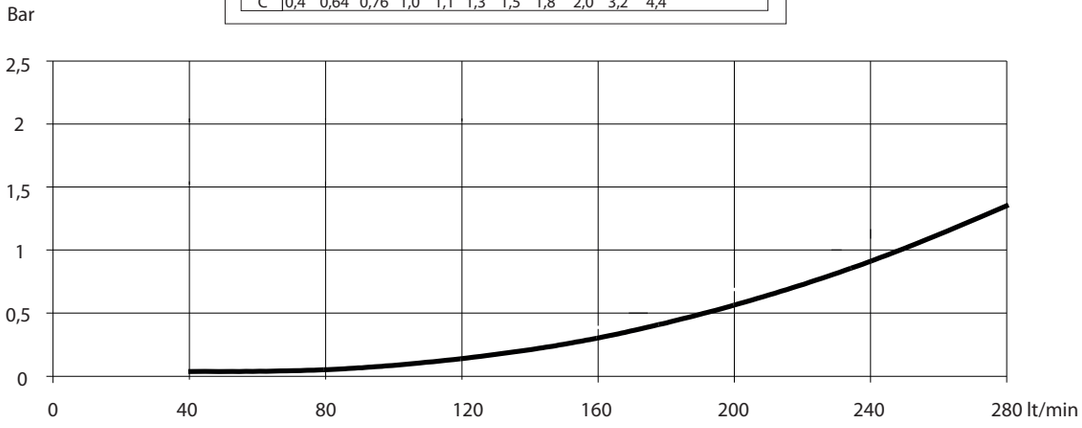
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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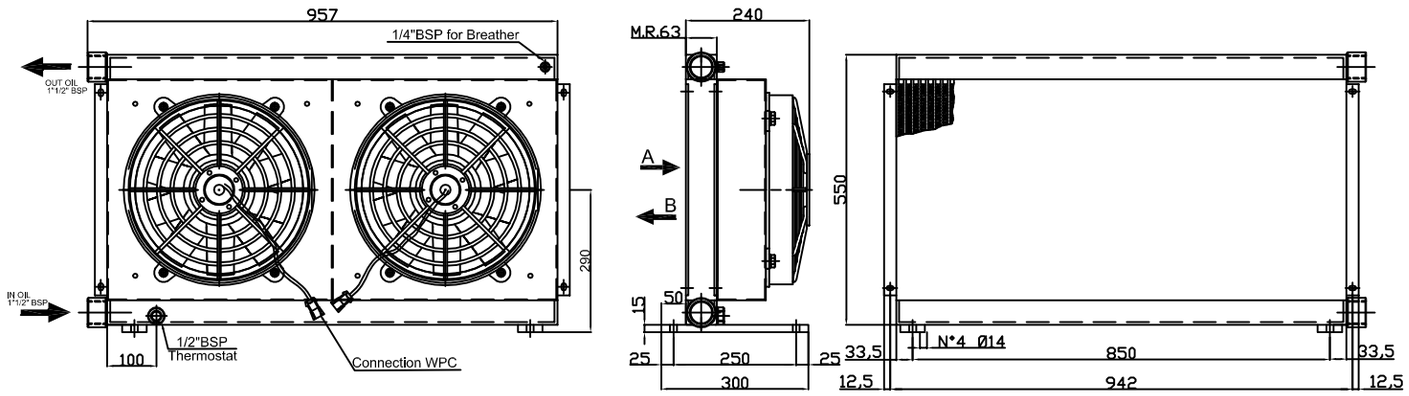
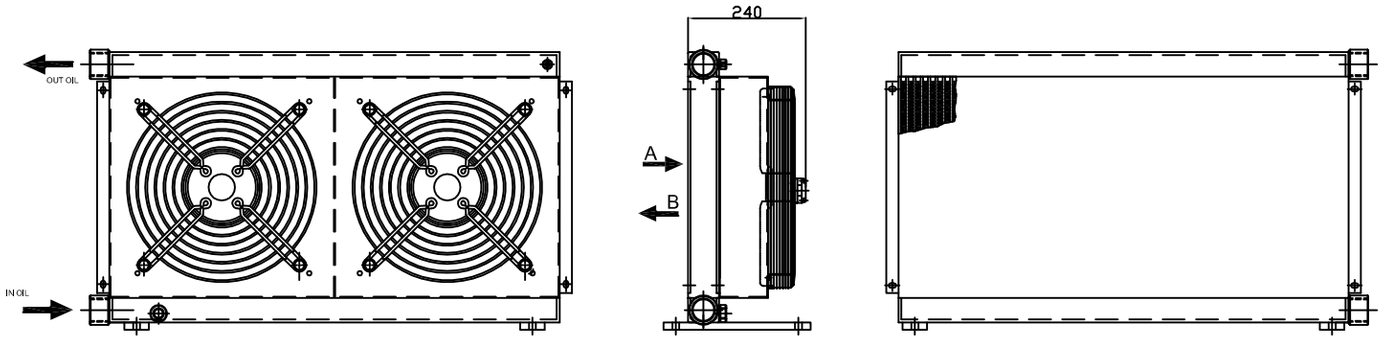
Air - Oil coolers series CSL4/2

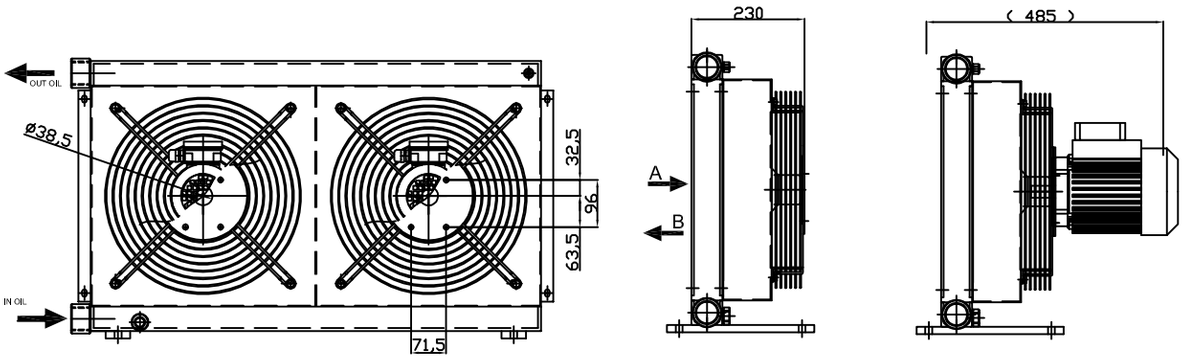
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4/2.12.0.00	12	DC	2650 (x2)	3300 (x2)	0.21 (x2)	13 (x2)	385 (x2)	68	75	6	25	Black
CSL4/2.24.0.00	24	DC	2650 (x2)	3300 (x2)	0.21 (x2)	8.1 (x2)	385 (x2)	68	75	6	25	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4/2.22.0.00	230	50/60	2350 (x2)	3200 (x2)	0.17 (x2)	0.74 (x2)	400 (x2)	44	68	6	28	Black
CSL4/2.38.0.00	230/400	50/60	2450 (x2)	3200 (x2)	0.19 (x2)	0.52 (x2)	400 (x2)	44	68	6	28	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSL4/2.G2.0.00	//	//	//	//	//	//		//	//	6	28	Black
CSL4/2.40.0.00	230/400	50/60	1450 (x2)	3200 (x2)	0.55 (x2)	1.52 (x2)	400 (x2)	55	72	6	38	Black



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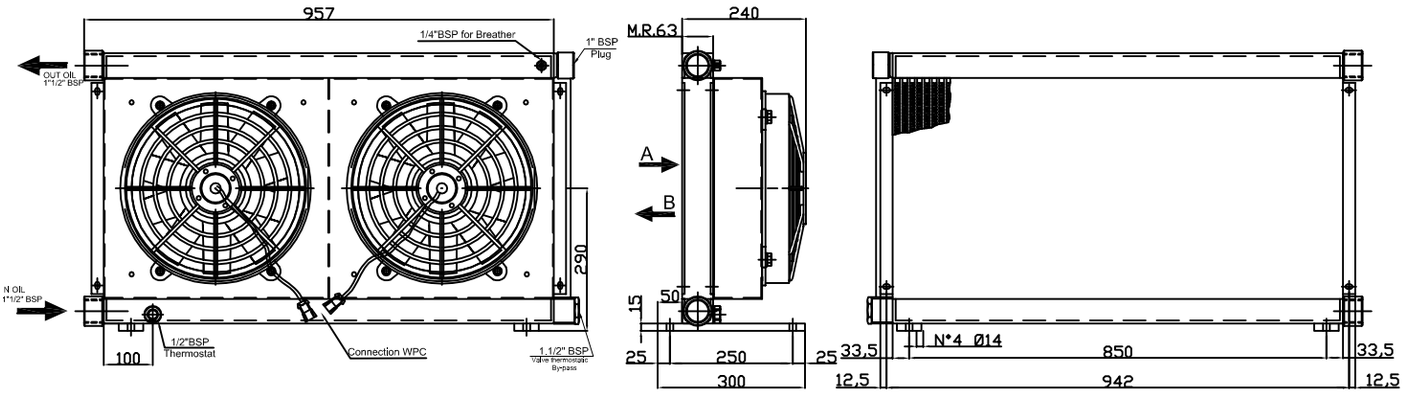
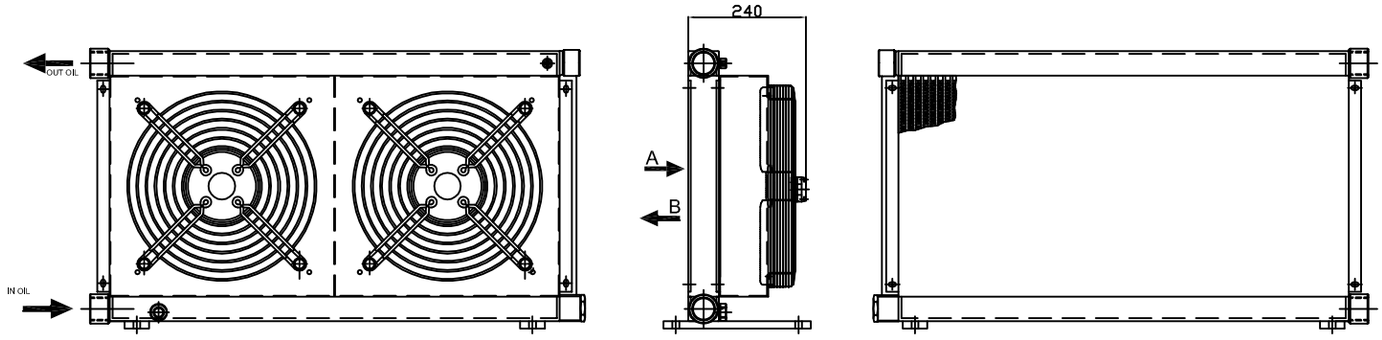
Air - Oil coolers series CSLV4/2

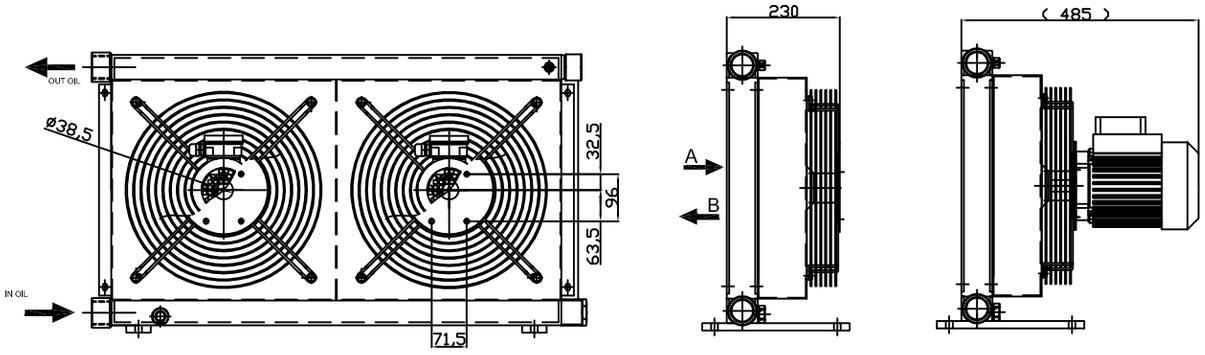
Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV4/2.12.0.00	12	DC	2650 (x2)	3300 (x2)	0.21 (x2)	13 (x2)	385 (x2)	68	75	6	25.5	Black
CSLV4/2.24.0.00	24	DC	2650 (x2)	3300 (x2)	0.21 (x2)	8.1 (x2)	385 (x2)	68	75	6	25.5	Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV4/2.22.0.00	230	50/60	2350 (x2)	3200 (x2)	0.17 (x2)	0.74 (x2)	400 (x2)	44	68	6	28.5	Black
CSLV4/2.38.0.00	230/400	50/60	2450 (x2)	3200 (x2)	0.19 (x2)	0.52 (x2)	400 (x2)	44	68	6		Black



Code	Tension	Frequency	Rpm	Air flow	Power	Current	ØFan	IP Fan	Lwa	Capacity	Weight	Color Painting
	(V)	(Hz)	(N°)	(m^3/h)	(Kw)	(A)	(mm)		dB (A)	(lt)	(Kg)	
CSLV4/2.G2.0.00	//	//	//	//	//	//		//	//	6	28.5	Black
CSLV4/2.40.0.00	230/400	50/60	1450 (x2)	3200 (x2)	0.55 (x2)	1.52 (x2)	400 (x2)	55	72	6	39	Black



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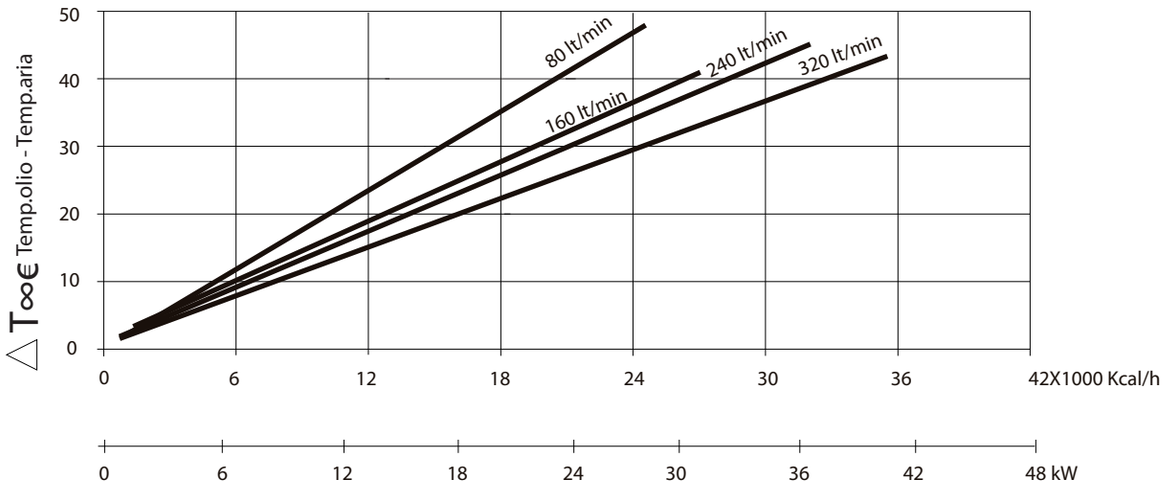
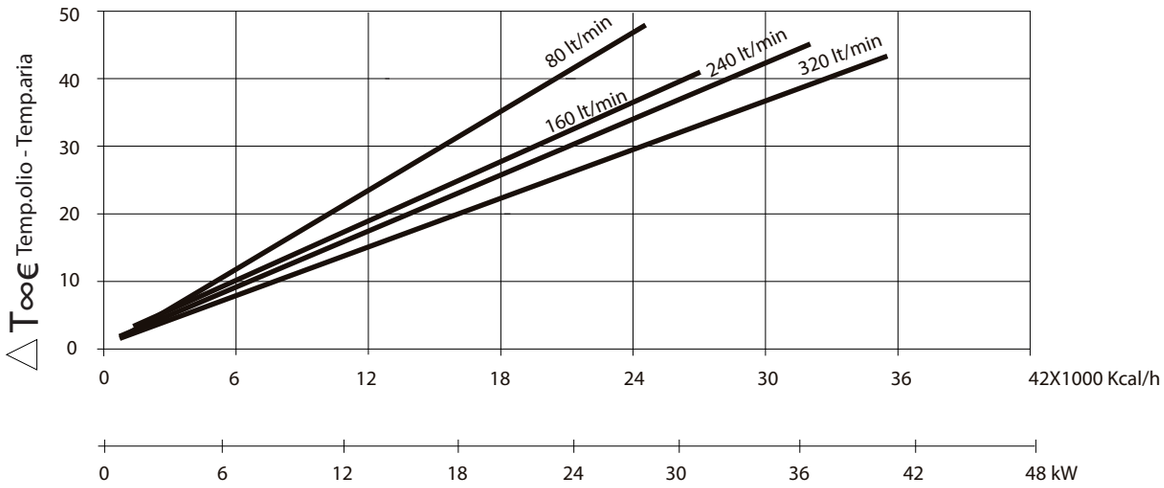
CSL4/2 and CSLV4/2

THERMIC EFFICIENCY FOR 12-24 DC



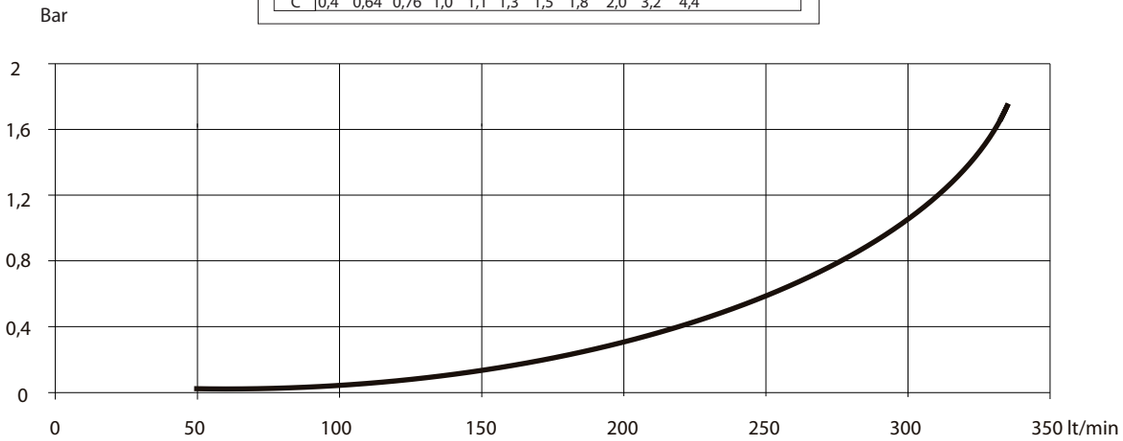
THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

In order to know different viscosity , please multiply cst x C correction factor

cst	10	15	20	30	40	50	60	80	100	200	300
C	0,4	0,64	0,76	1,0	1,1	1,3	1,5	1,8	2,0	3,2	4,4



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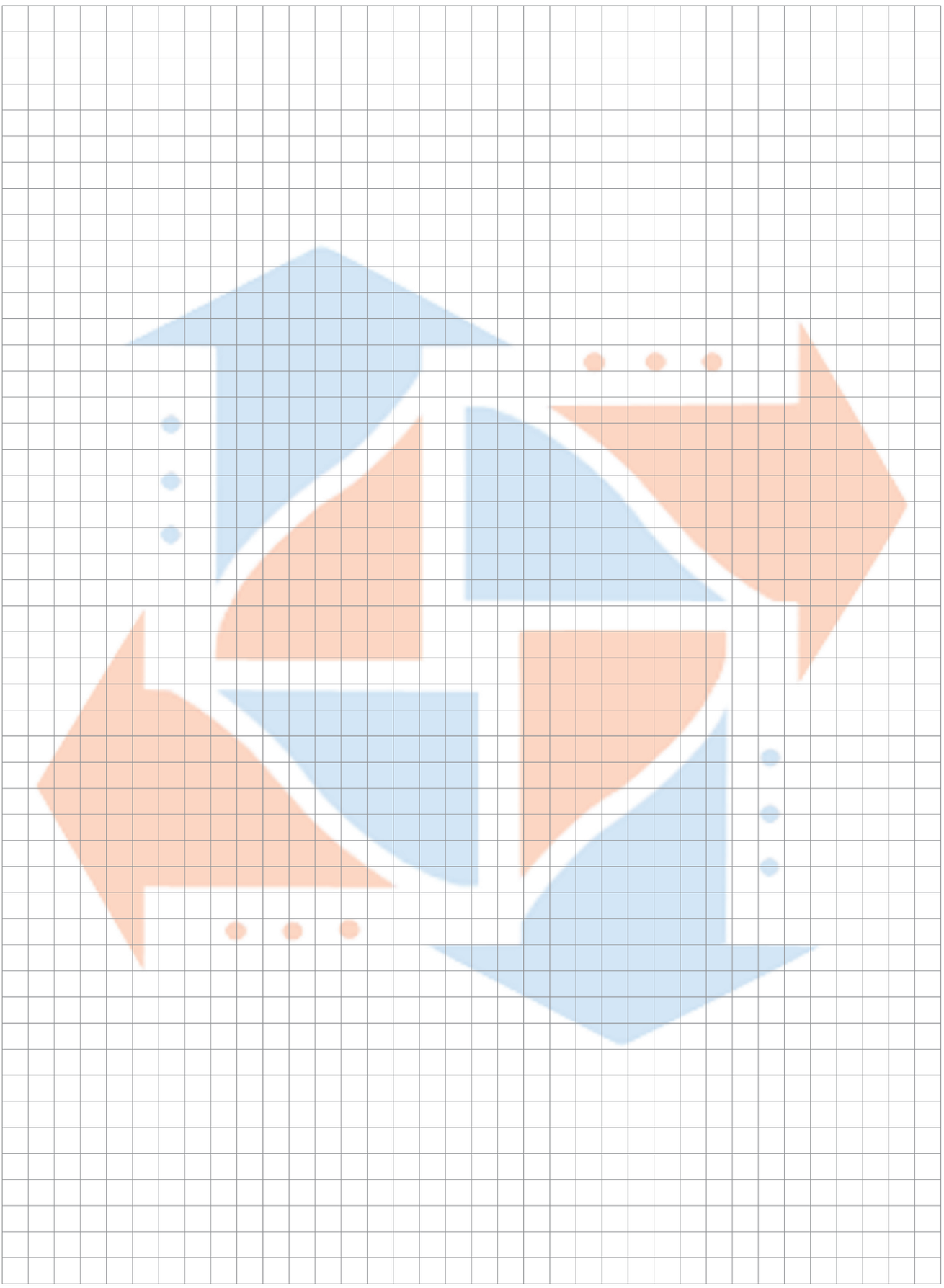

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