



VINCKE AIR-OIL COOLERS SERIES

NEW HEAT EXCHANGER SERIES EXLV

2

Cooler with the valve thermostatic by-pass incorporate

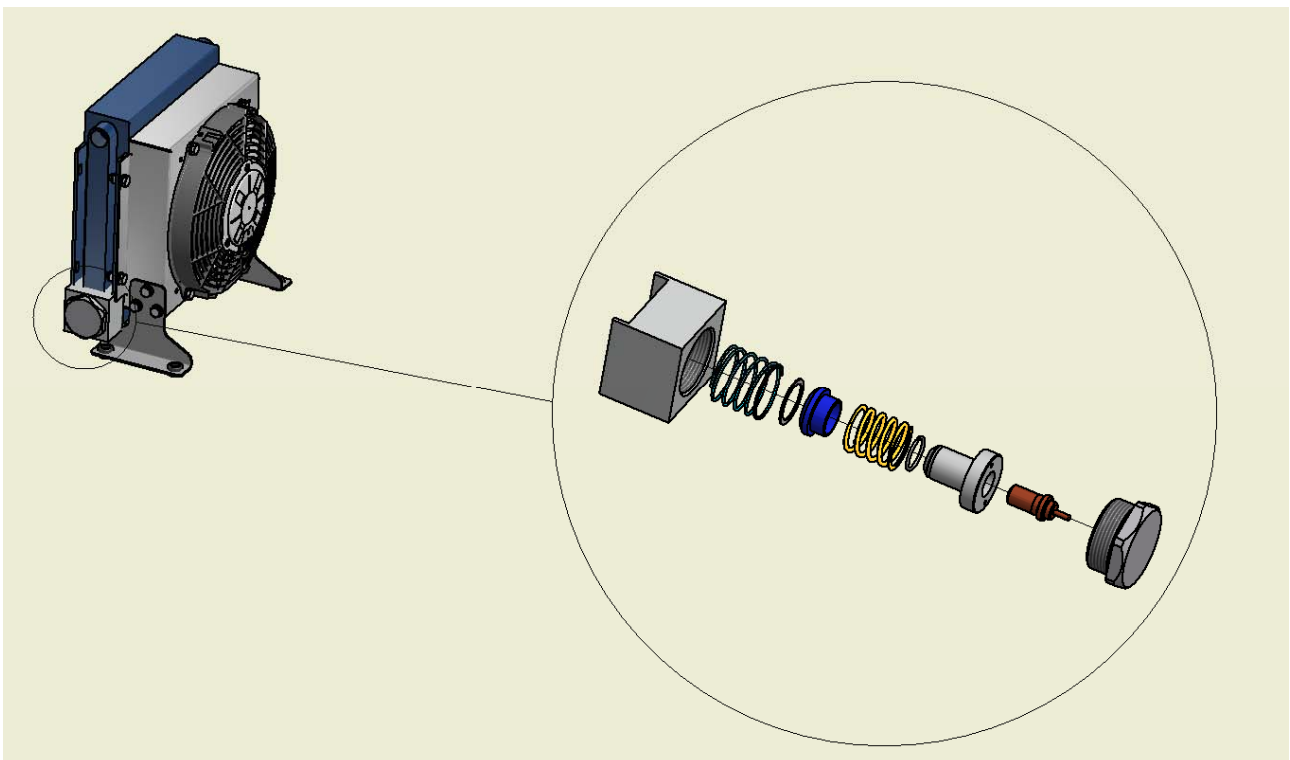
The EXLV heat exchangers series are the result of continuous research and technical development carried out, taking into account the needs expressed by the market.

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.

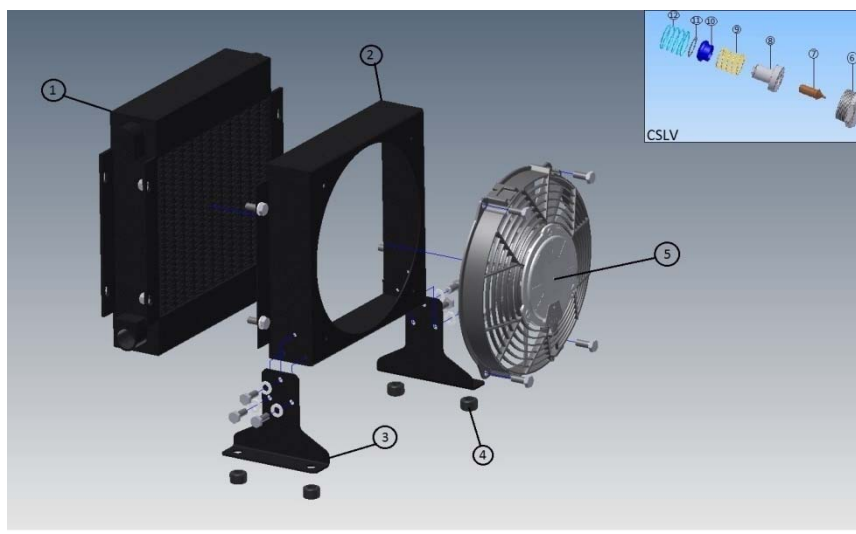
To simplify and make the assembly cheaper, the series EXLV integrates within the same block of the exchanger, the by-pass valve and the thermostatic valve, thereby ensuring the control of the peaks of pressure.

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.



Key for EXLV air-oil coolers



FOR EXAMPLE:

VNK EXLV 1 . 12 . A . 00 2 . 06 . 01

AIR – OIL COOLER TYPE:

EXLV (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

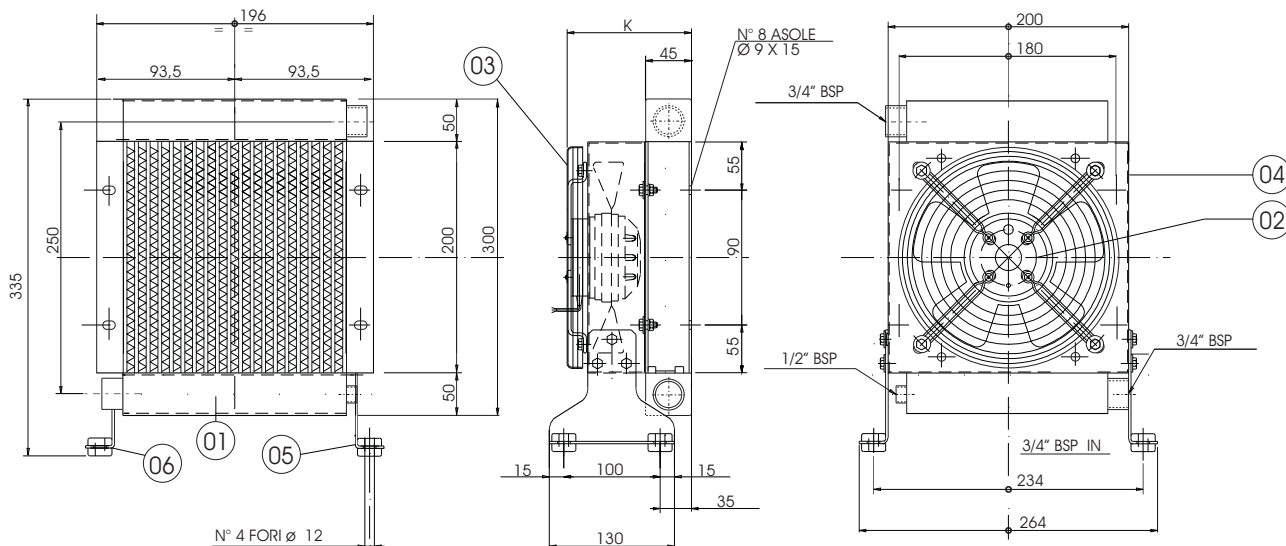
THERMOSTATIC VALVE:

00 = Without valve

01 = With thermostatic valve 40°C

Scambiatori di calore ARIA/OLIO serie CSL 07

Codice	Tensione V	Frequenza Hz	N° Giri/min.	Potenza Kw	Dia. Ventola mm.	dB (A)	K mm.
CSL 07.12.0.00	12	DC	4000	0.080	167	65	170
CSL 07.24.0.00	24	DC	4100	0.080	167	65	170
CSL 07.22.0.00	230	50/60	2650/2950	0.045/0.043	170	64	125
CSL 07.38.0.00	230/400	50/60	2650	0,040	170	64	125



SPECIFICA TECNICA SCAMBIATORE	SPECIFICHE TECNICHE ELETTROVENTILATORI
Massima Pressione di Esercizio :20 bar	Tensione CA: DIN IEC38 DC: 12/24V
Massima Temperatura di Esercizio : + 120° C	Massima Temperatura di Esercizio : + 75° C + 75° C
Massima Viscosità olio : 100 CST	Minima Temperatura di Esercizio : - 30° C
Materiale : Alluminio	Materiale : Acciaio : Fibra di vetro
Fluido di Raffreddamento : Compatibile Al	Grado di Protezione : IP 44 : IP 64
Colore : Nero	Colore : Nero

PARTI DI RICAMBIO

Pos.	Descrizione	Codice	Pos.	Descrizione	Codice
CSL 07.12.0.00			CSL 07.24.0.00		
01	Scambiatore di calore	CSL07.00.0.00	01	Scambiatore di calore	CSL07.00.0.00
02	Elettroventilatore Asp..	10.70112 .1	02	Elettroventilatore Asp..	10.70113 .1
02	Elettroventilatore Soff.	10.70114 .1	02	Elettroventilatore Soff.	10.70115 .1
04	Convogliatore	15.65004 .0	04	Convogliatore	15.65004 .0
05	Staffa di Fissaggio	15.65008 .0	05	Staffa di Fissaggio	15.65008 .0
06	Antivibrante	20.80000 .1	06	Antivibrante	20.80000 .1
CSL 07.22.0.00			CSL 07.38.0.00		
01	Scambiatore di calore	CSL07.00.0.00	01	Scambiatore di calore	CSL07.00.0.00
02	Elettroventilatore Asp.	10.70026.1	02	Elettroventilatore Asp.	10.70025 .1
02	Elettroventilatore Soff.	10.70028.1	02	Elettroventilatore Soff.	10.70027 .1
03	Griglia di Protezione	09.70117.1	03	Griglia di Protezione	09.70117 .1
04	Convogliatore	15.65004.0	04	Convogliatore	15.65004 .0
05	Staffa di Fissaggio	15.65008.0	05	Staffa di Fissaggio	15.65008 .0
06	Antivibra Nte	20.80000.1	06	Antivibrante	20.80000 .1

DIAGRAMMA DI RENDIMENTO TERMICO

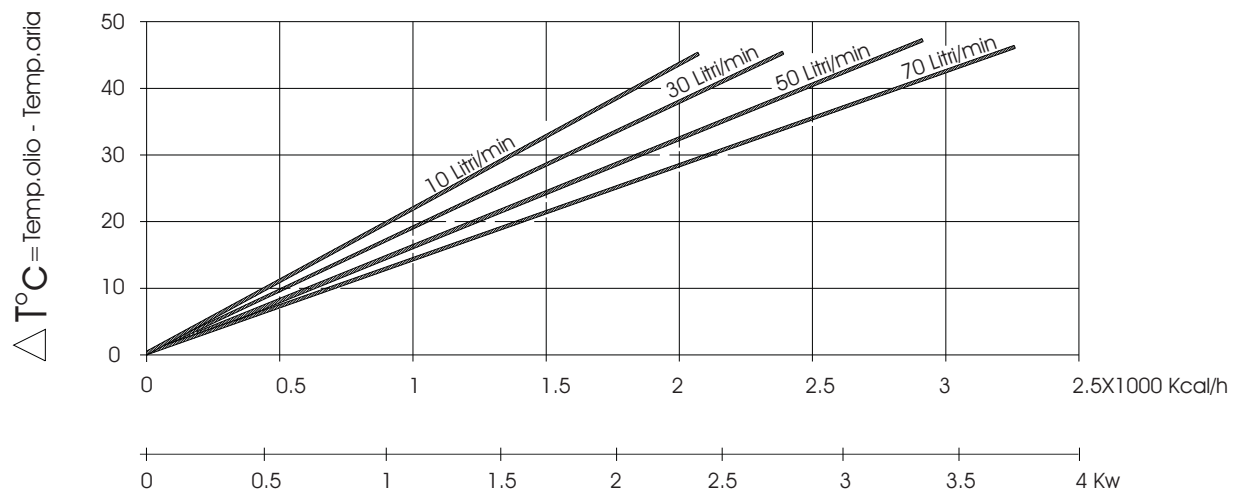
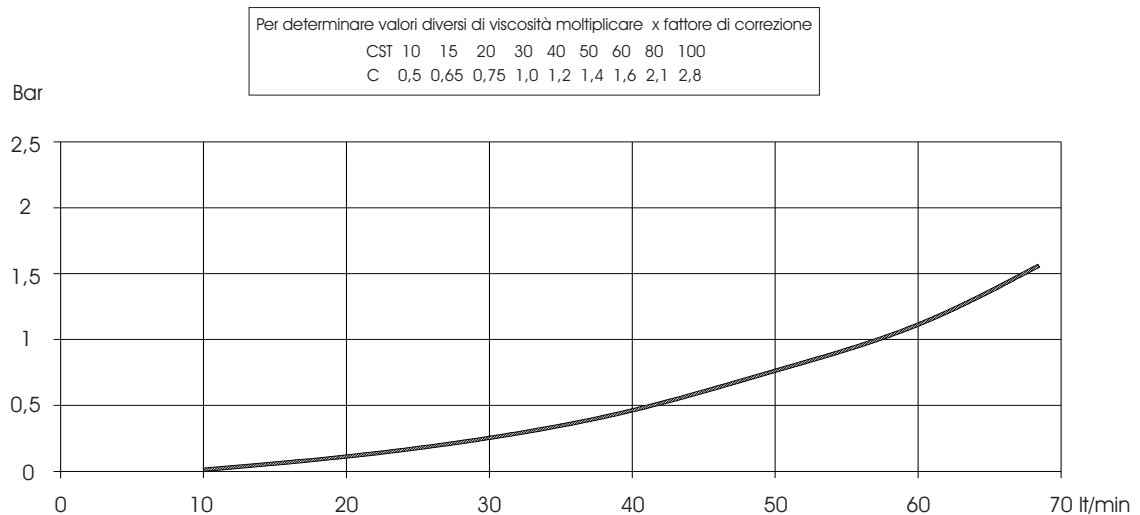
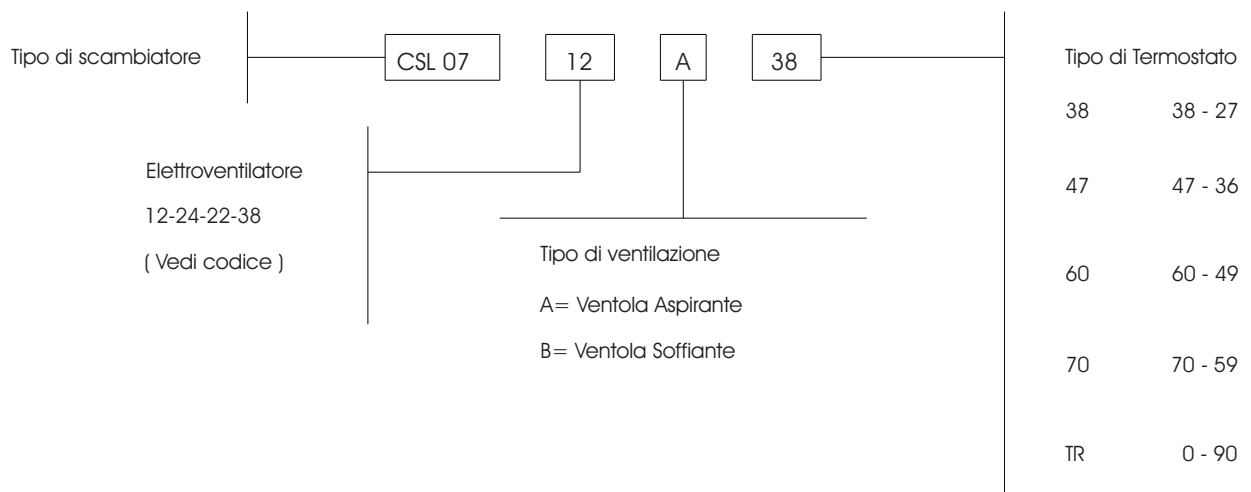


DIAGRAMMA DELLE PERDITE DI CARICO

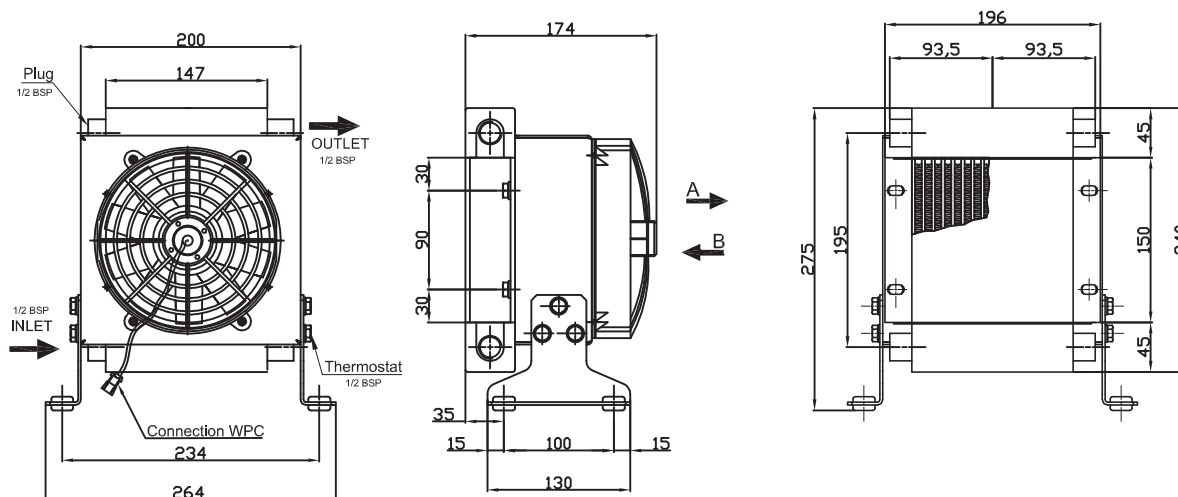


CODIFICA

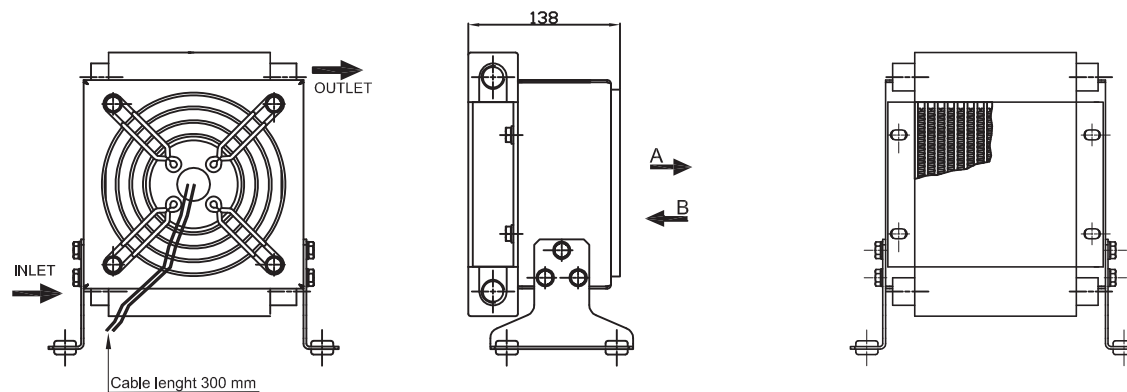


Air - Oil coolers series CSL05

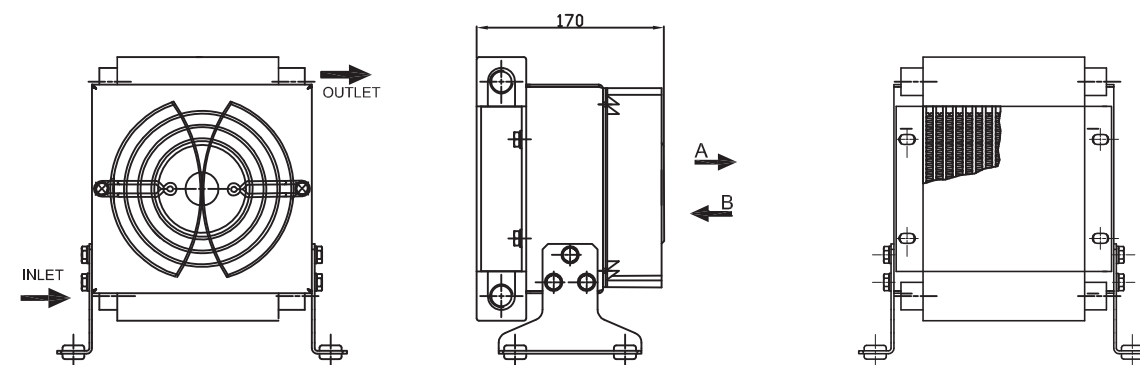
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
CSL05.12.0.00	12	DC	4200	430	0.080	4.5	167	68	68	1.3	4	Black
CSL05.24.0.00	24	DC	4300	440	0.080	2.3	167	68	68	1.3	4	Black



Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
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 (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
CSL05.22.0.00ECO	230	50	2650	260	0.045	0.56	170	54	67	1.3	4.5	Black



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Air-oil coolers

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EXL2 series

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► EXL and EXLV2 curves	10

EXL3 series

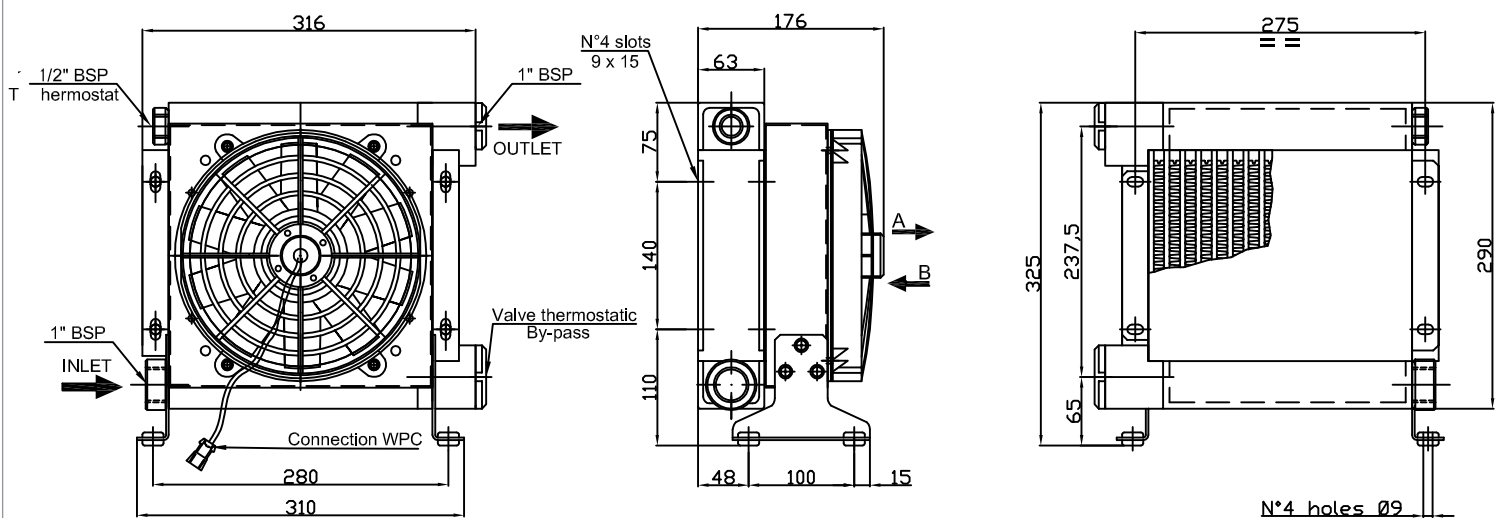
► EXL model	11
► EXLV model	12
► EXL and EXLV3 curves	13

Technical characteristic herein mentioned are not binding and it can be modified from Vincke without any notice.

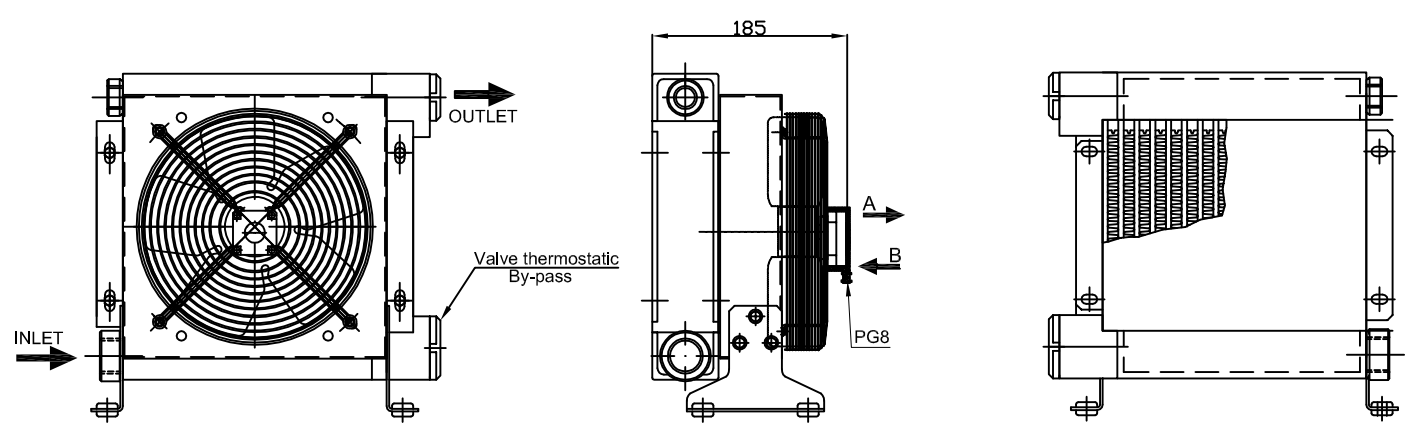
Air-oil coolers

EXLV1 SERIES

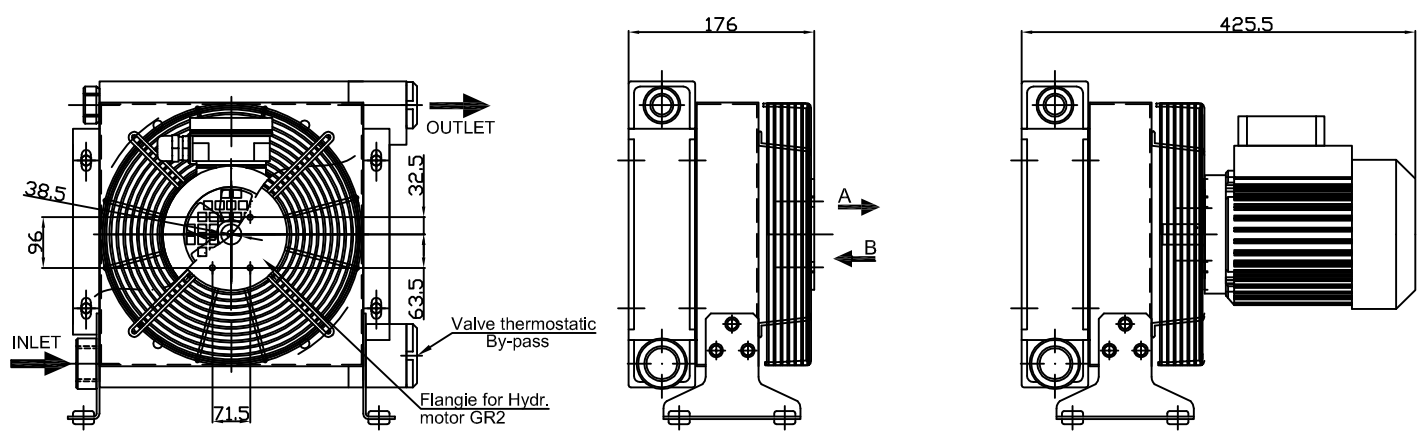
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV1.12.0.00	12	DC	3100	900	0.090	5.9	225	68	72	1.9	6.5	Black
EXLV1.24.0.00	24	DC	3050	885	0.100	2.7	225	68	72	1.9	6.5	Black



Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV1.22.0.00	230	50/60	3200	810	0.085	0.55	200	44	66	1.9	7	Black
EXLV1.38.0.00	230/400	50/60	2800	810	0.068	0.31	200	44	66	1.9	7	Black



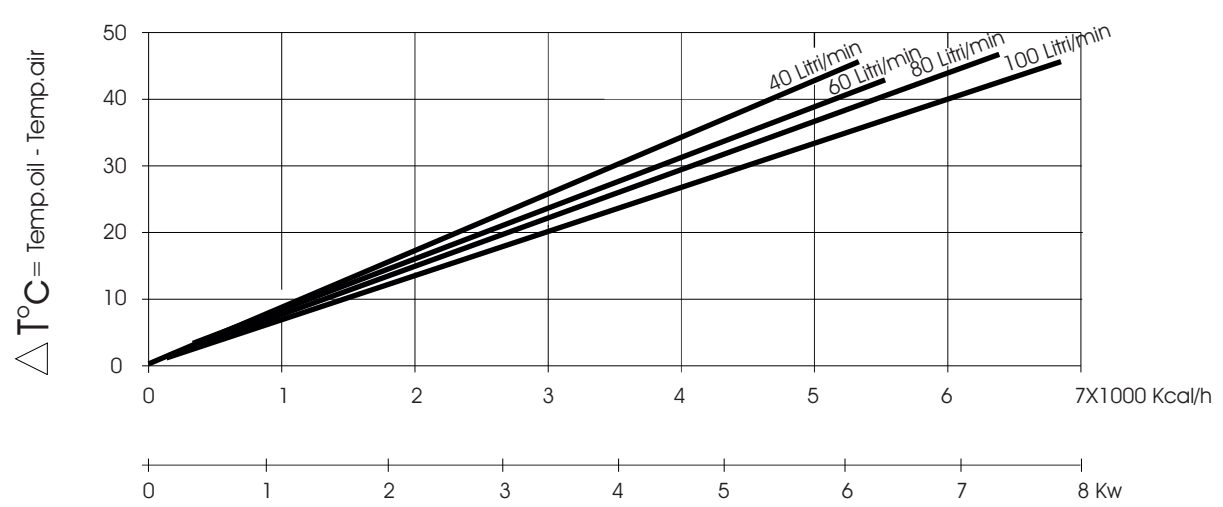
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV1.G2.0.00	//	//	//	//	//	//	200	//	//	1.9	7.5	Black
EXLV1.40.0.00	230/400	50/60	1350	400	0.250	0.72	200	55	67	1.9	11	Black



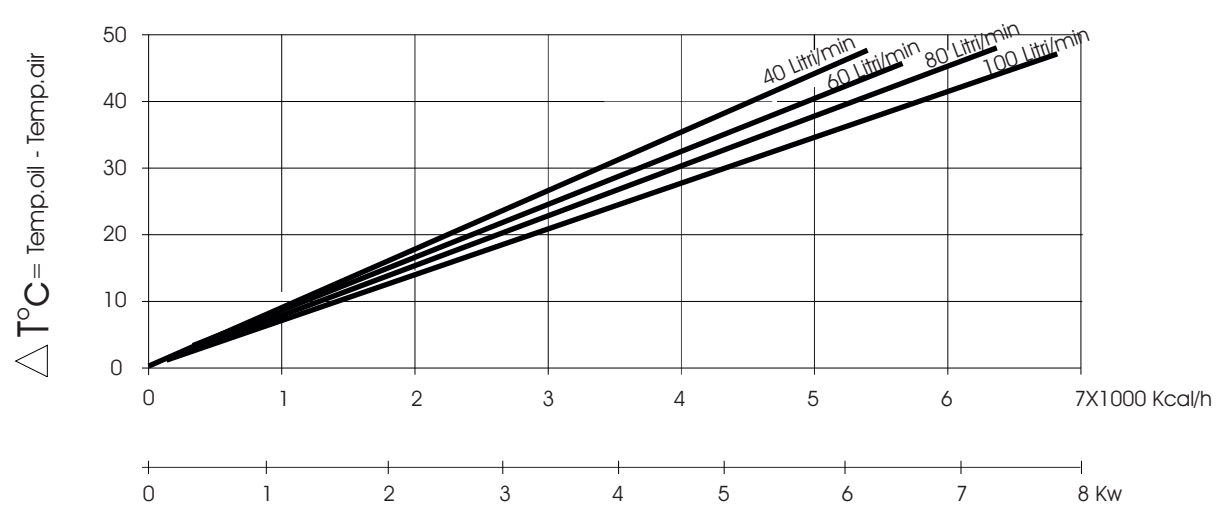
Technical characteristic herein mentioned are not binding and it can be modified from Vincke without any notice.

EXL 1 and EXLV 1

THERMIC EFFICIENCY FOR 12-24 DC



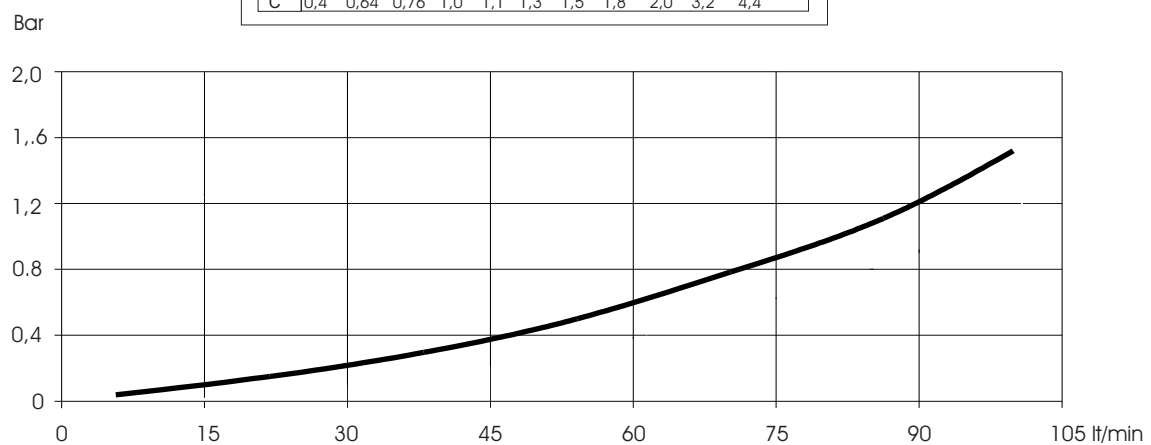
THERMIC EFFICIENCY FOR 22-38 AC



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

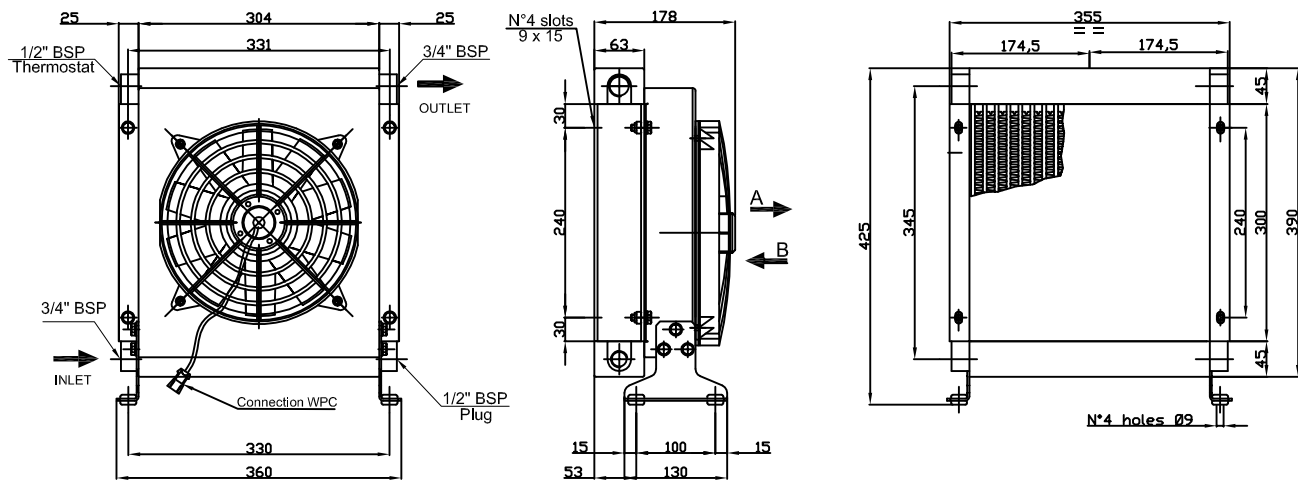


Air-oil coolers

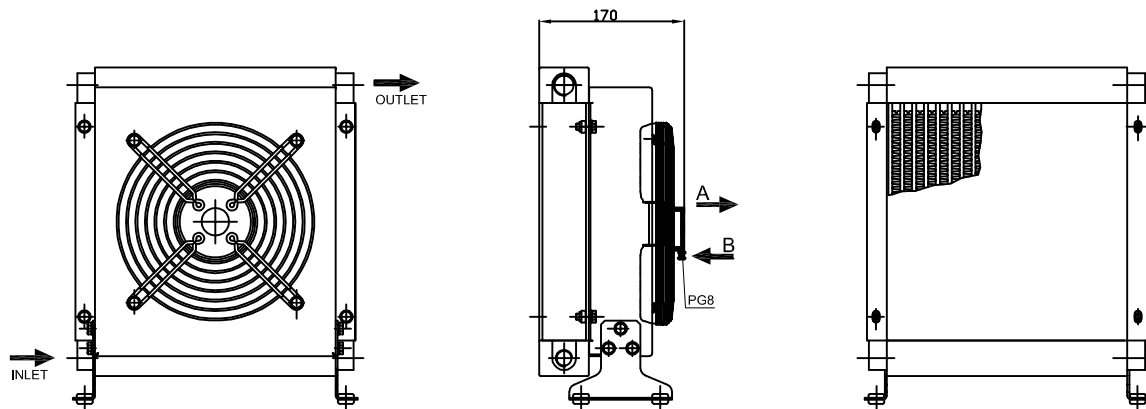
EXL2 SERIES

8

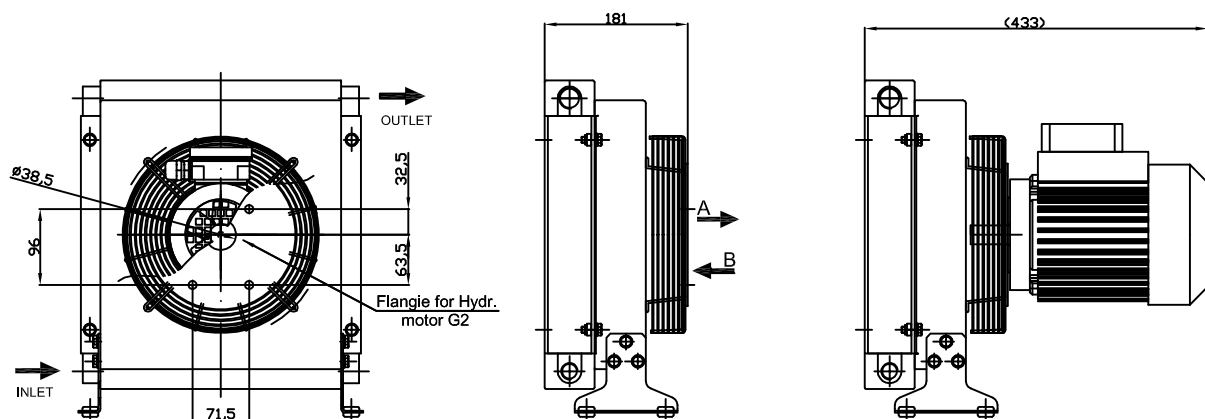
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL 2.12.0.00	12	DC	3150	950	0.095	5.8	255	68	70	1.65	6	Black
EXL 2.24.0.00	24	DC	3050	950	0.105	3	255	68	70	1.65	6	Black



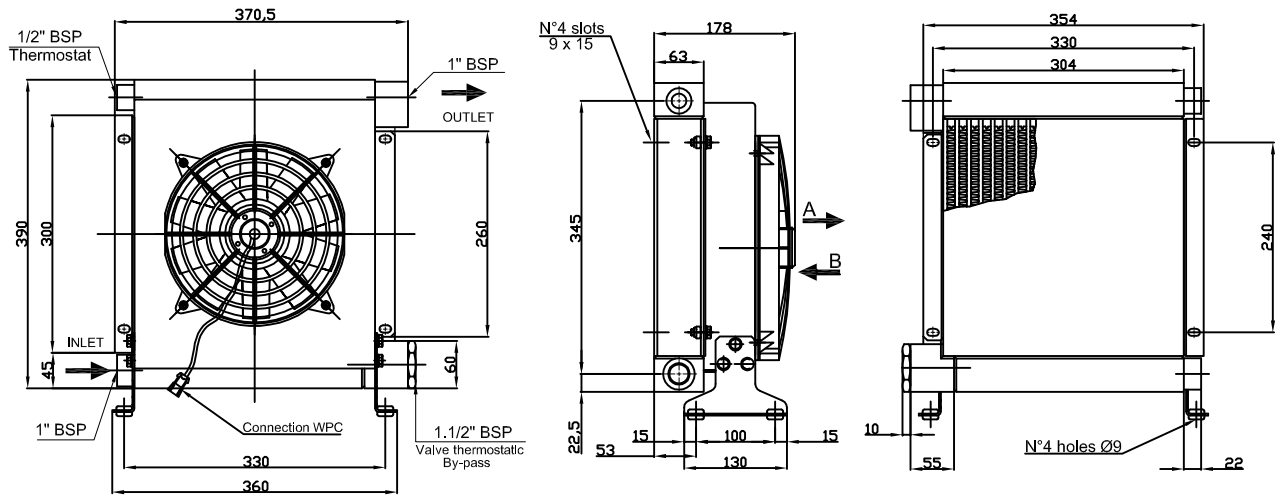
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL 2.22.0.00	230	50/60	2850	1960	0.128	0.55	250	44	71	1.65	7	Black
EXL 2.38.0.00	230/400	50/60	2700	1830	0.110	0.40	250	44	71	1.65	7	Black



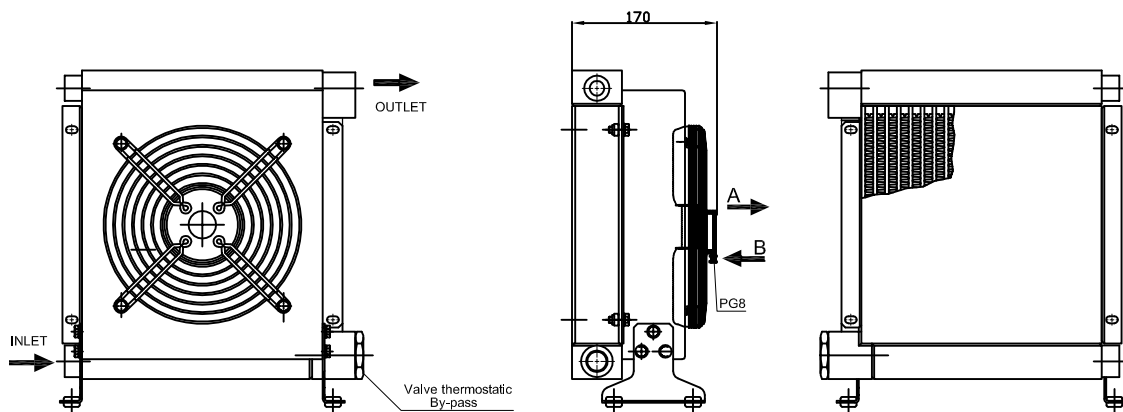
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL2.G2.0.00	//	//	//	//	//	//	250	//	//	1.65	6	Black
EXL2.40.0.00	230/400	50/60	1450	1100	0.250	0.68	250	55	64	1.65	10	Black



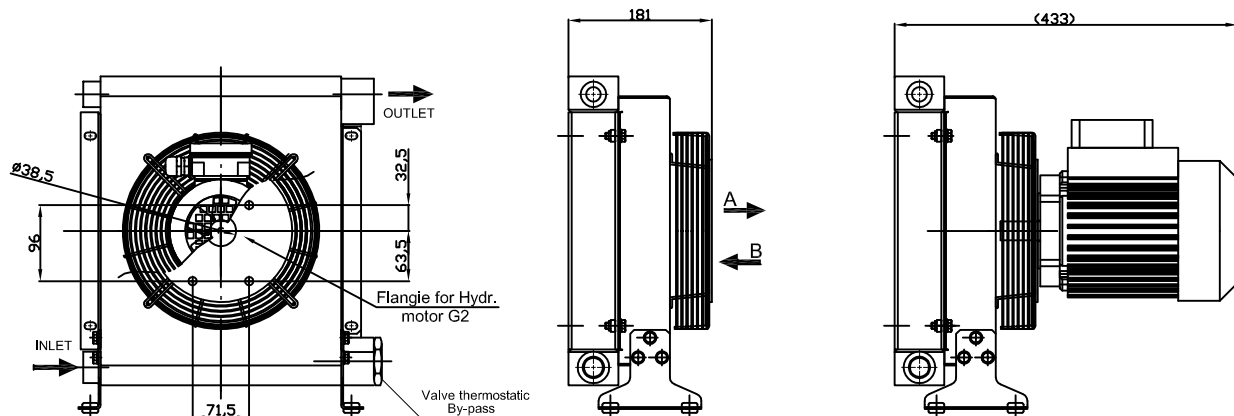
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV2.12.0.00	12	DC	3150	950	0.095	5.8	255	68	70	1.65	7	Black
EXLV2.24.0.00	24	DC	3050	950	0.105	3	255	68	70	1.65	7	Black



Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL V2.22.0.00	230	50/60	2850	1960	0.128	0.55	250	44	71	1.65	8	Black
EXL V2.38.0.00	230/400	50/60	2700	1830	0.110	0.40	250	44	71	1.65	8	Black

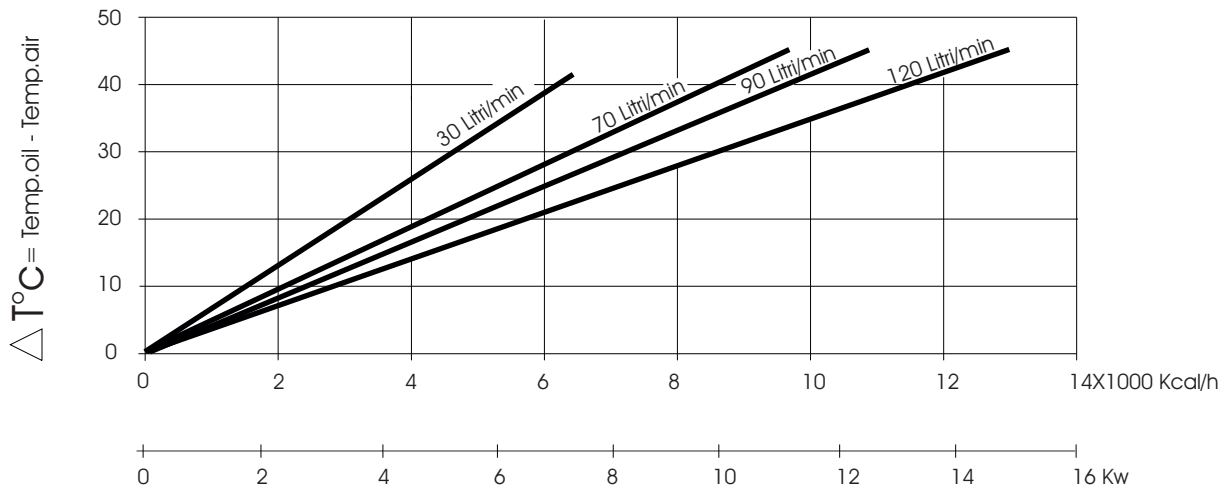


Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV2.G2.0.00	//	//	//	//	//	//	250	//	//	1.65	7	Black
EXLV2.40.0.00	230/400	50/60	1450	1100	0.250	0.68	250	55	64	1.65	11	Black

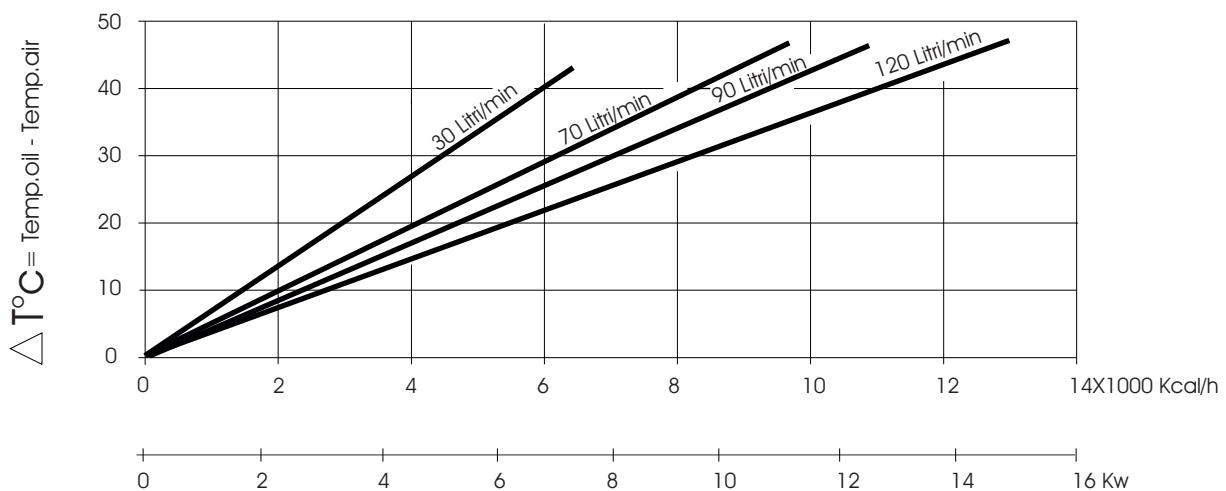


EXL2 and EXLV2

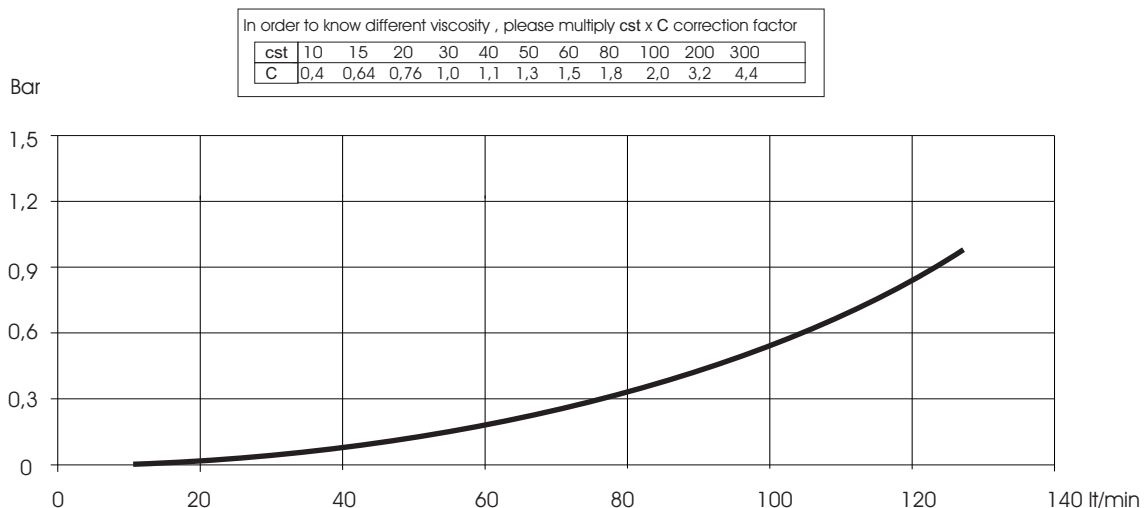
THERMIC EFFICIENCY FOR 12-24 DC



THERMIC EFFICIENCY FOR 22-38 AC



PRESSURE DROP

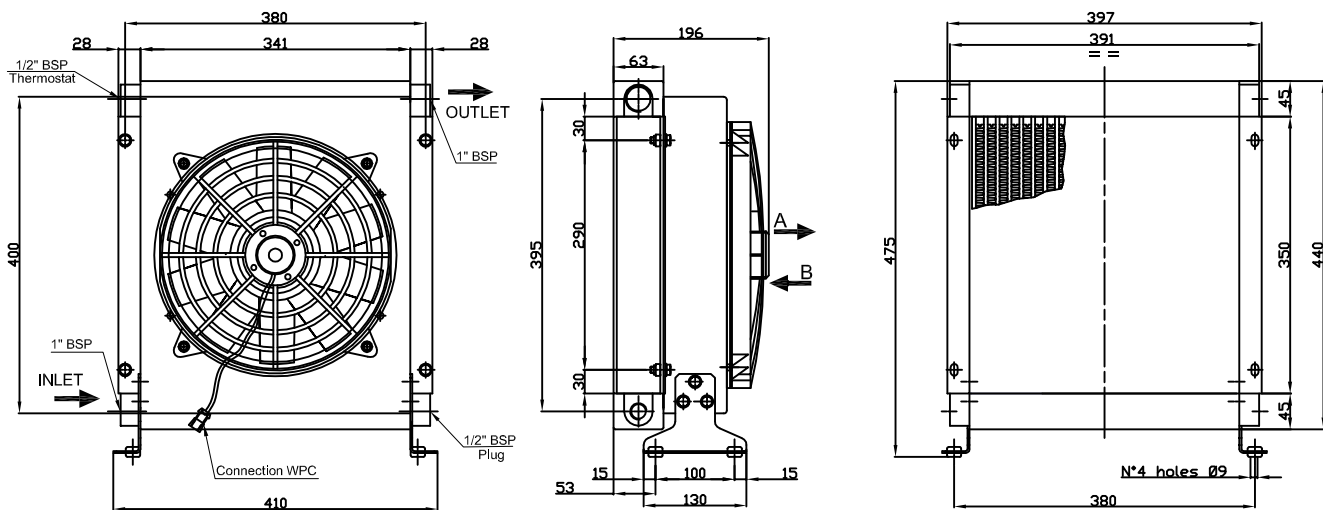


Air-oil coolers

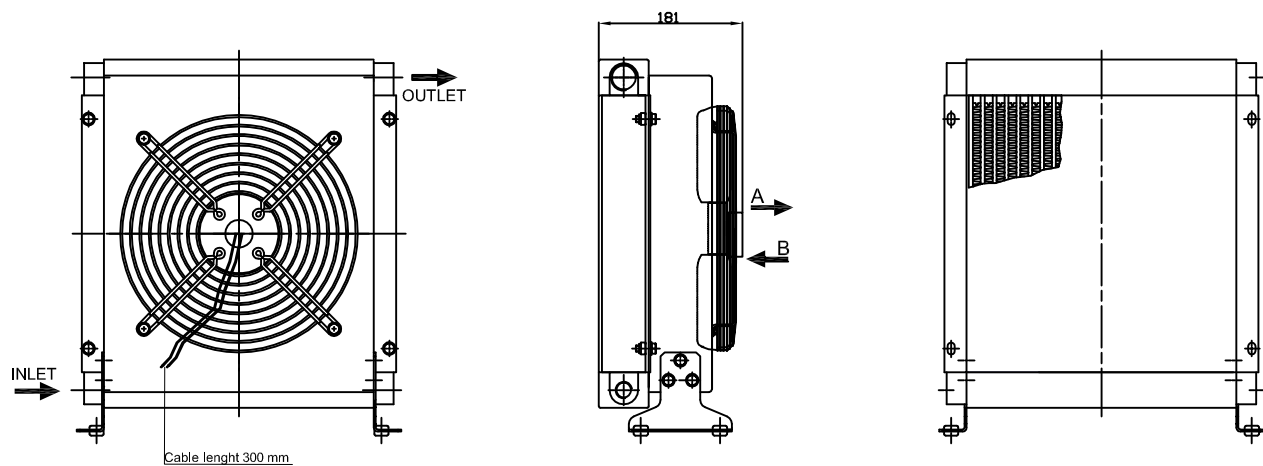
EXL3 SERIES

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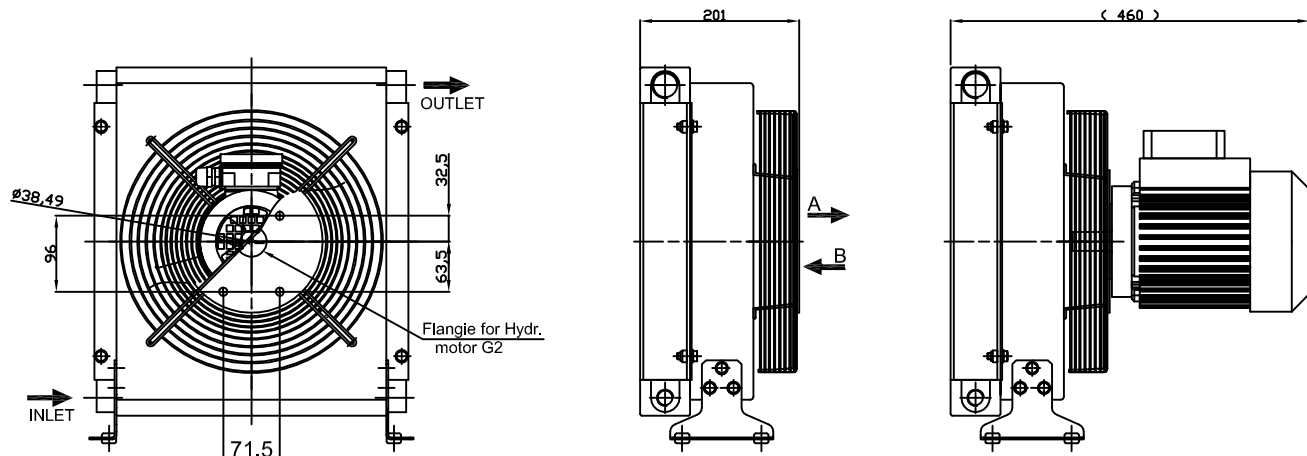
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL3.12.0.00	12	DC	3150	2670	0.150	11	305	68	69	2	9	Black
EXL3.24.0.00	24	DC	3050	2670	0.150	5.5	305	68	69	2	9	Black



Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL3.22.0.00	230	50/60	2600	2600	0.350	1.55	300	44	70	2	10	Black
EXL3.38.0.00	230/400	50/60	2600	2600	0.300	0.48	300	44	70	2	10	Black



Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXL3.G2.0.00	//	//	//	//	//	//	300	//	//	2	10	Black
EXL3.40.0.00	230/400	50/60	1450	1950	0.370	1.03	300	55	70	2	15	Black

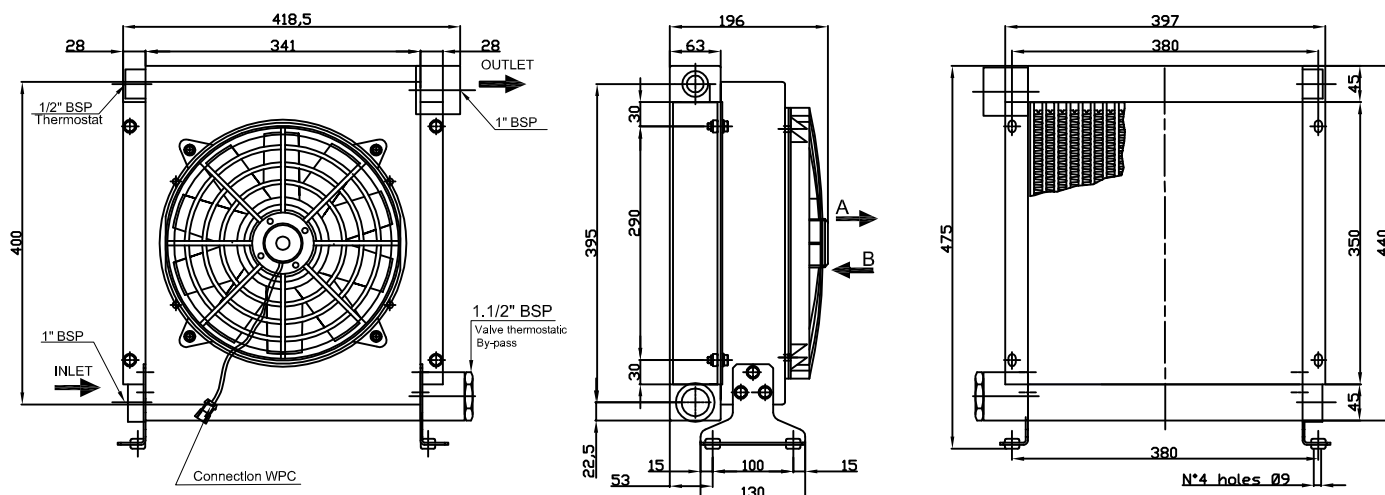


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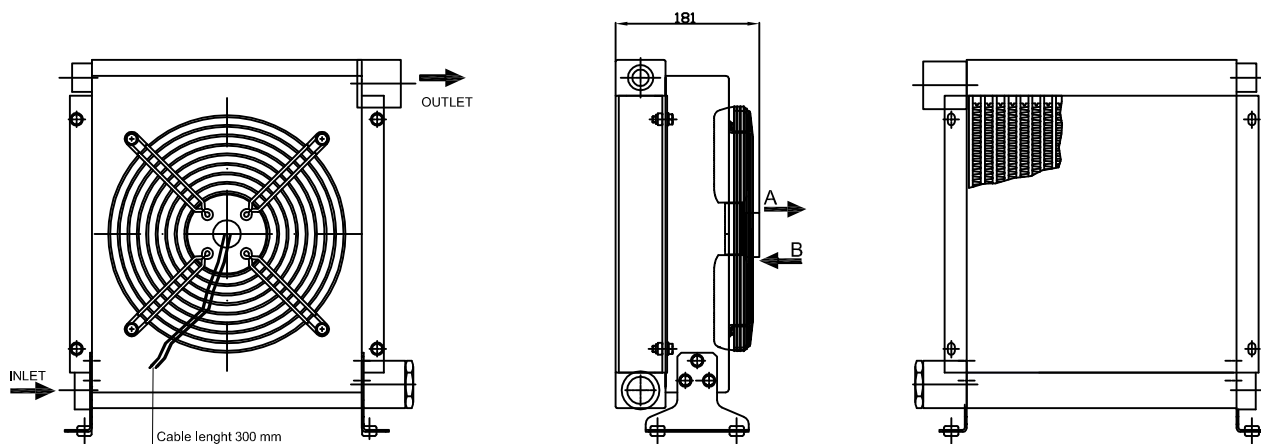
Air-oil coolers

EXLV3 SERIES

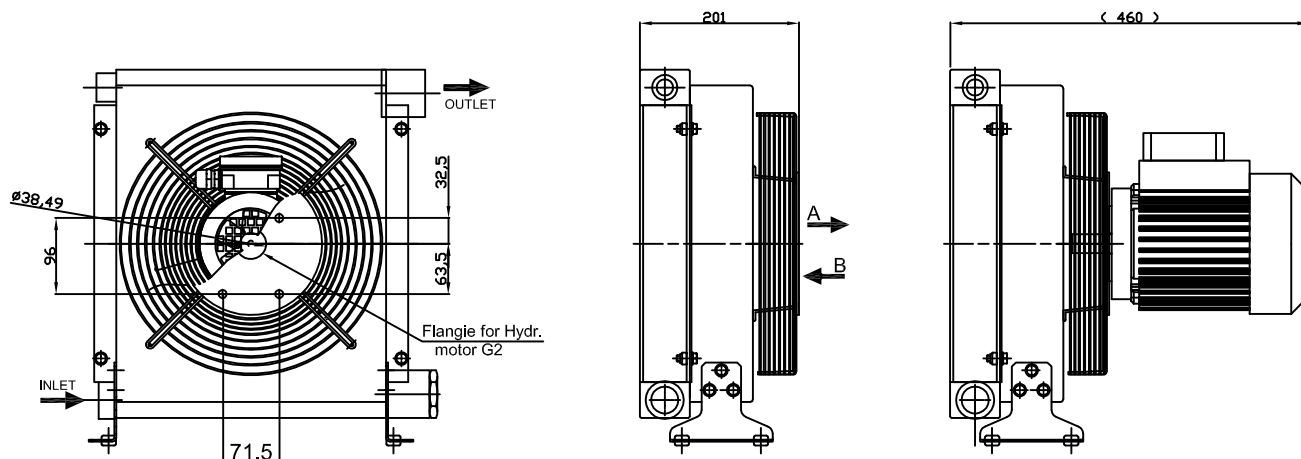
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV3.12.0.00	12	DC	3150	2670	0.150	11	305	68	69	2	10	Black
EXLV3.24.0.00	24	DC	3050	2670	0.150	5.5	305	68	69	2	10	Black



Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV3.22.0.00	230	50/60	2600	2600	0.350	1.55	300	44	70	2	11	Black
EXLV3.38.0.00	230/400	50/60	2600	2600	0.300	0.48	300	44	70	2	11	Black



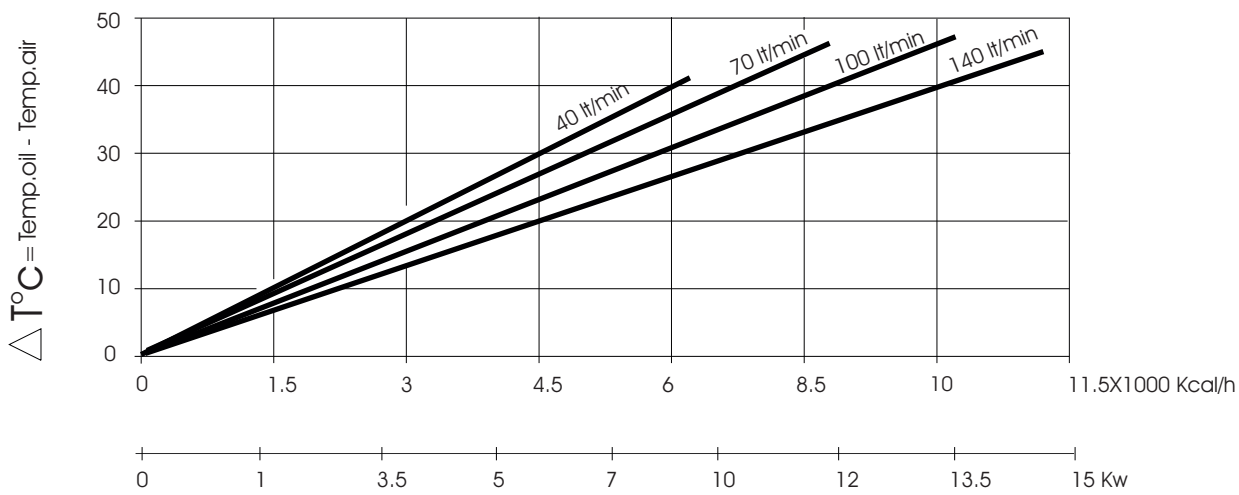
Code	Tension (V)	Frequency (Hz)	Rpm (N°)	Air flow (m³/h)	Power (Kw)	Current (A)	ØFan (mm)	IP Fan	Lwa dB (A)	Capacity (lt)	Weight (Kg)	Color Painting
EXLV3.G2.0.00	//	//	//	//	//	//	300	//	//	2	11	Black
EXLV3.40.0.00	230/400	50/60	1450	1950	0.370	1.03	300	55	70	2	16	Black



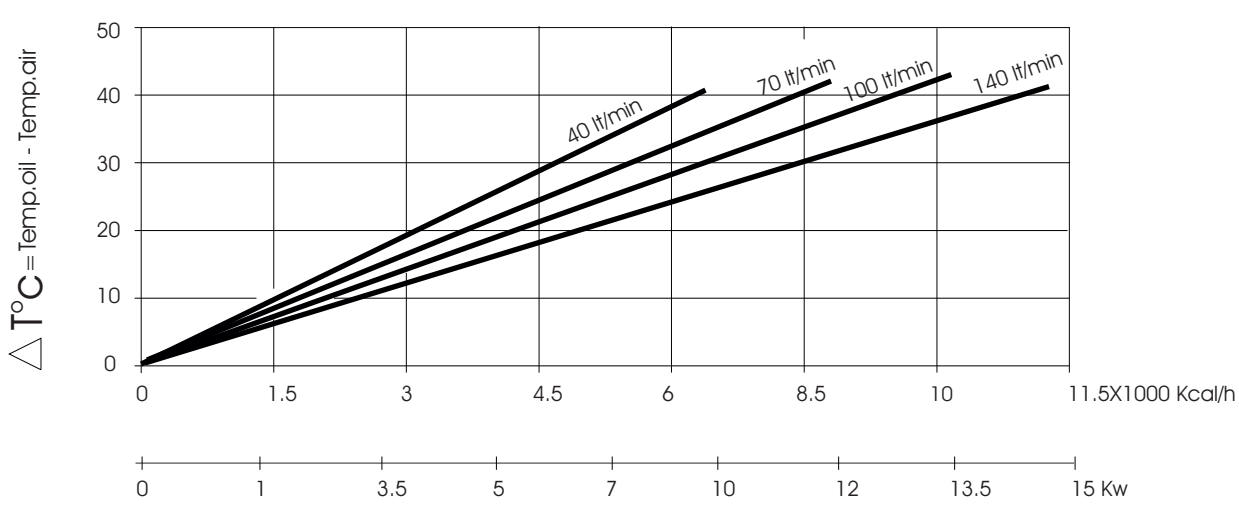
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EXL3 and EXLV3

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

