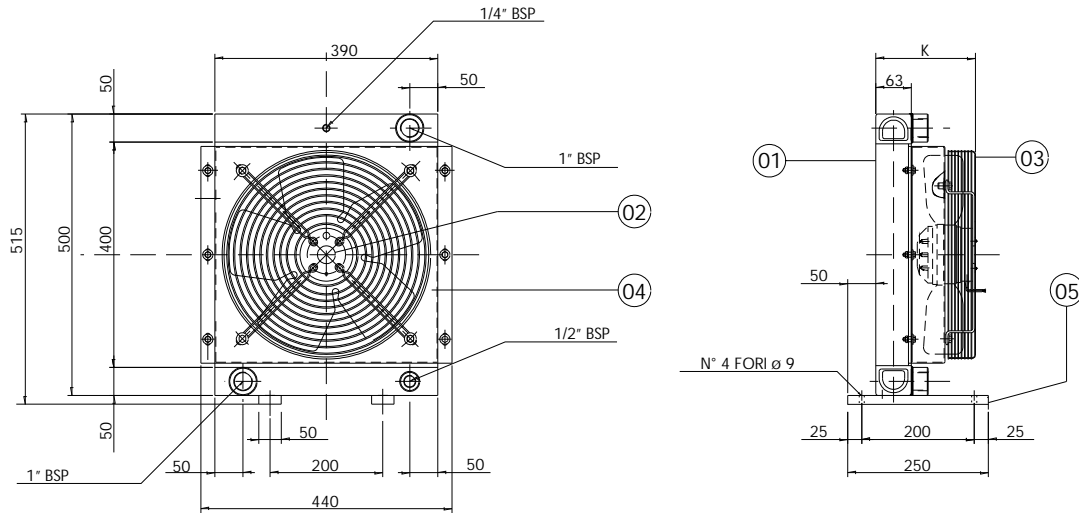


# Air/oil coolers series CSA 3



**LEHENGOMAK, S. A.**

Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSA 3.12.0.00	12	DC	2300	0.125	305	70	175
CSA 3.24.0.00	24	DC	2300	0.125	305	70	175
CSA 3.22.0.00	230	50/60	1380/1550	0.145/0.200	350	69	180/200
CSA 3.38.0.00	230/400	50/60	1410/1610	0.155/0.200	350	69	180/200



COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

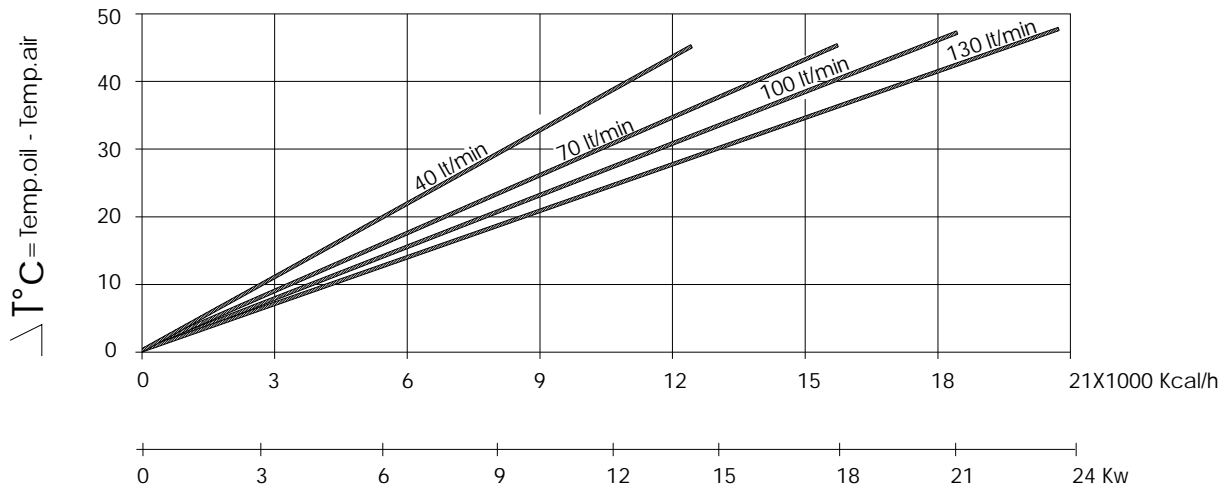
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSA 3.12.0.00</b>			<b>CSA 3.24.0.00</b>		
01	Cooler	CSA3.00.0.00	01	Cooler	CSA3.00.0.00
02	Fan Motor(Air Flow Suction)	10.70108.1	02	Fan Motor(Air Flow Suction)	10.70109 .1
02	Fan Motor(Air Flow Blowing)	10.70110.1	02	Fan Motor(Air Flow Blowing)	10.70111 .1
04	Cowl	15.65009.0	04	Cowl	15.65009 .0
05	Fixing Support	15.65016.0	05	Fixing Support	15.65016 .0
<b>CSA 3.22.0.00</b>			<b>CSA 3.38.0.00</b>		
01	Cooler	CSA3.00.0.00	01	Cooler	CSA3.00.0.00
02	Fan Motor(Air Flow Suction)	10.70010.1	02	Fan Motor(Air Flow Suction)	10.70009 .1
02	Fan Motor(Air Flow Blowing)	10.70012.1	02	Fan Motor(Air Flow Blowing)	10.70011 .1
03	Safety Guard	10.70052.1	03	Safety Guard	10.70052.1
04	Cowl	15.65019.0	04	Cowl	15.65019 .0
05	Fixing Support	15.65016.0	05	Fixing Support	15.65016 .0

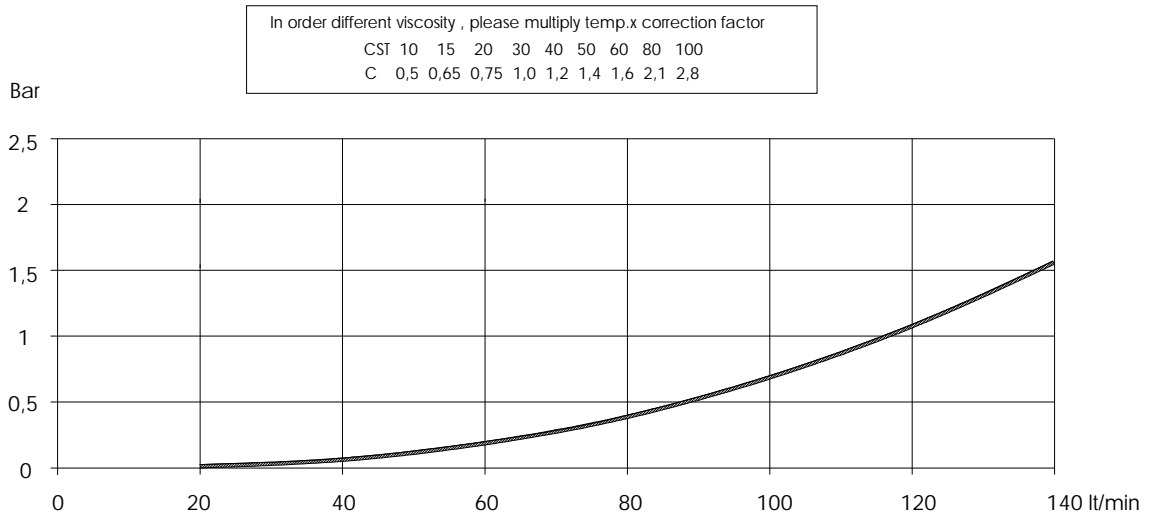


**LEHENGOMAK, S. A.**

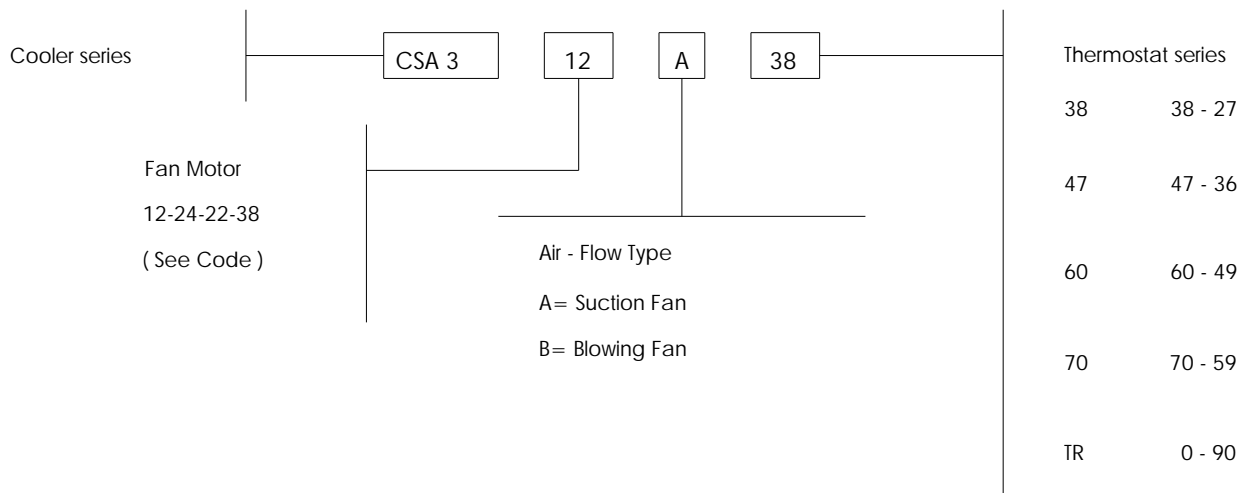
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION

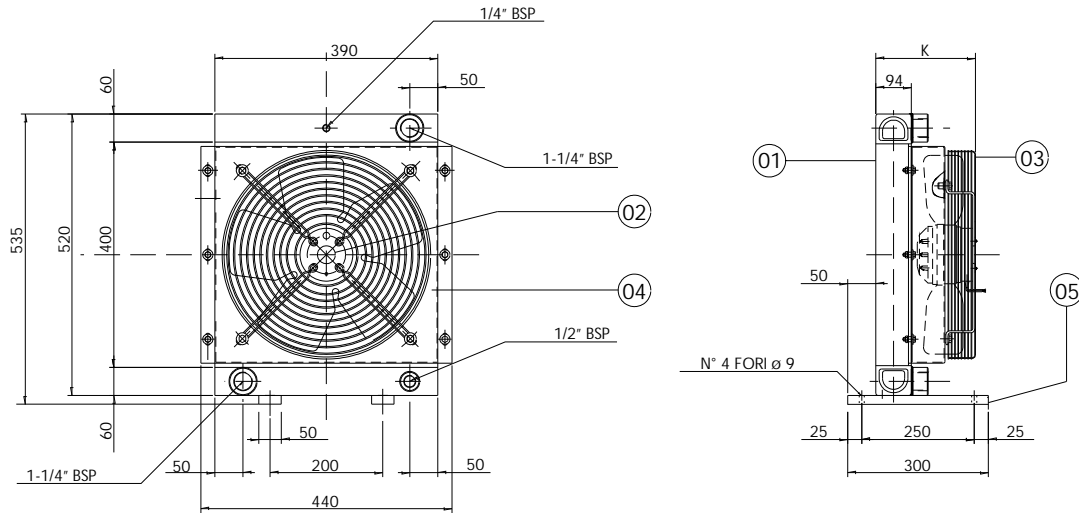


Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice

# Air/oil coolers series CSA 4



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSA 4.12.0.00	12	DC	2300	0.125	305	71	210
CSA 4.24.0.00	24	DC	2300	0.125	305	71	210
CSA 4.22.0.00	230	50/60	1380/1550	0.145/0.200	350	70	210/230
CSA 4.38.0.00	230/400	50/60	1410/1610	0.155/0.200	350	70	210/230



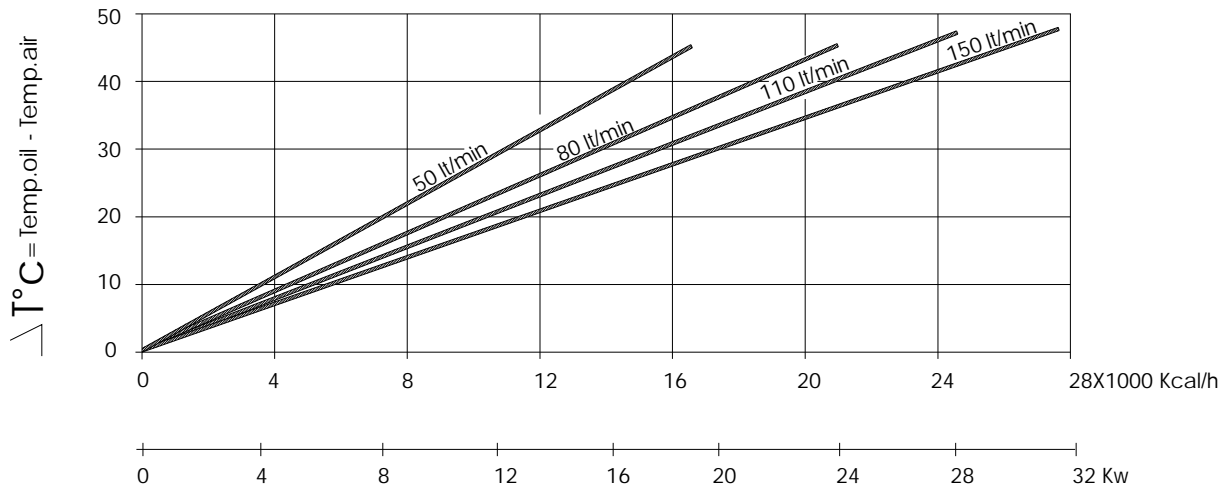
COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

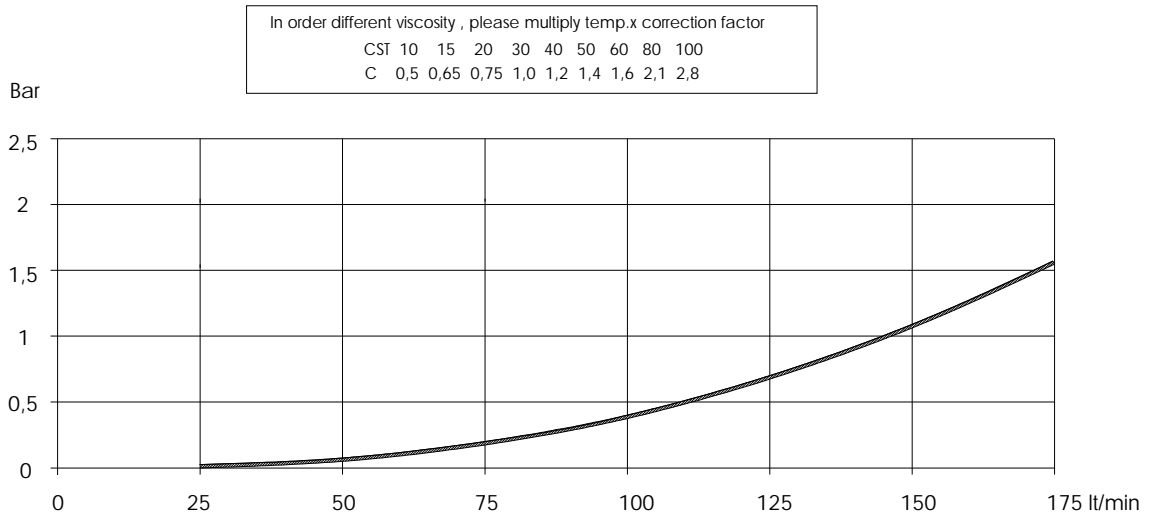
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSA 4.12.0.00</b>			<b>CSA 4.24.0.00</b>		
01	Cooler	CSA4.00.0.00	01	Cooler	CSA4.00.0.00
02	Fan Motor(Air Flow Suction)	10.70108.1	02	Fan Motor(Air Flow Suction)	10.70013.1
02	Fan Motor(Air Flow Blowing)	10.70110.1	02	Fan Motor(Air Flow Blowing)	10.70114.1
04	Cowl	15.65009.0	04	Cowl	15.65009.0
05	Fixing Support	15.65017.0	05	Fixing Support	15.65017.0
<b>CSA 4.22.0.00</b>			<b>CSA 4.38.0.00</b>		
01	Cooler	CSA4.00.0.00	01	Cooler	CSA4.00.0.00
02	Fan Motor(Air Flow Suction)	10.70040.1	02	Fan Motor(Air Flow Suction)	10.70013.1
02	Fan Motor(Air Flow Blowing)	10.70041.1	02	Fan Motor(Air Flow Blowing)	10.70014.1
03	Safety Guard	10.70053.1	03	Safety Guard	10.70053.1
04	Cowl	15.65019.0	04	Cowl	15.65019.0
05	Fixing Support	15.65017.0	05	Fixing Support	15.65017.0

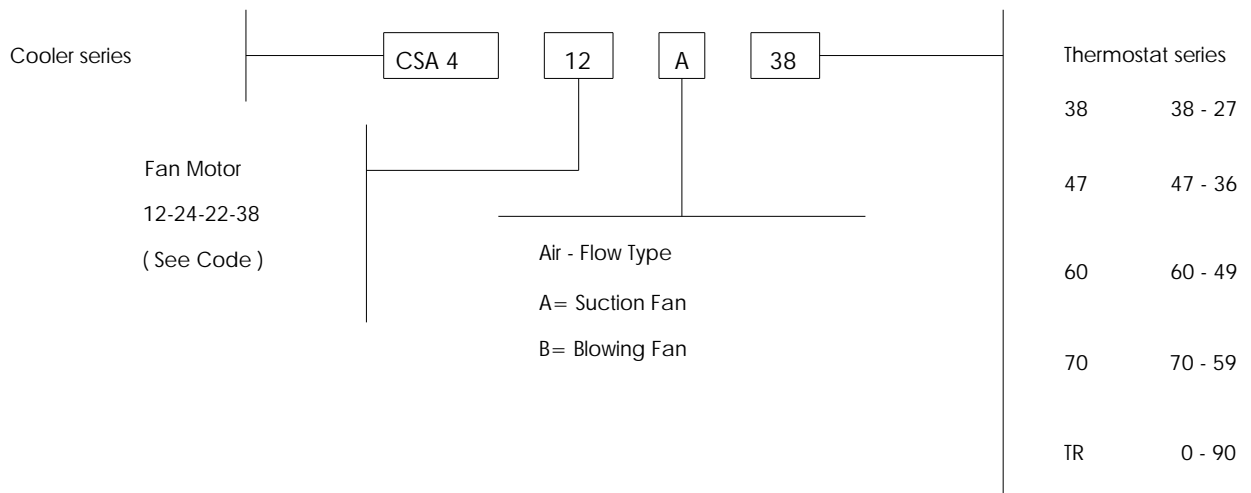
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION

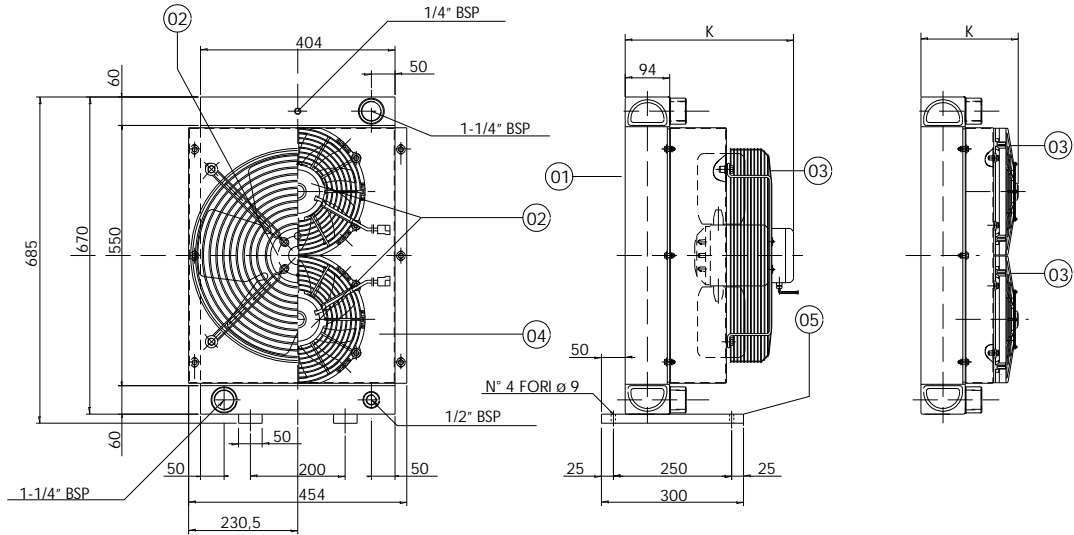


Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice

# Air/oil coolers series CSA 5



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSA 5.12.0.00	12	DC	3350	0.125+0.125	305	76	210
CSA 5.24.0.00	24	DC	3350	0.125+0.125	305	76	210
CSA 5.38.0.00	230/400	50/60	1340	0.45	450	75	360
CSA 5.G2.0.00	Prepared for Gr 2 Hydraulic Motor		800/2500	=	450	75	390



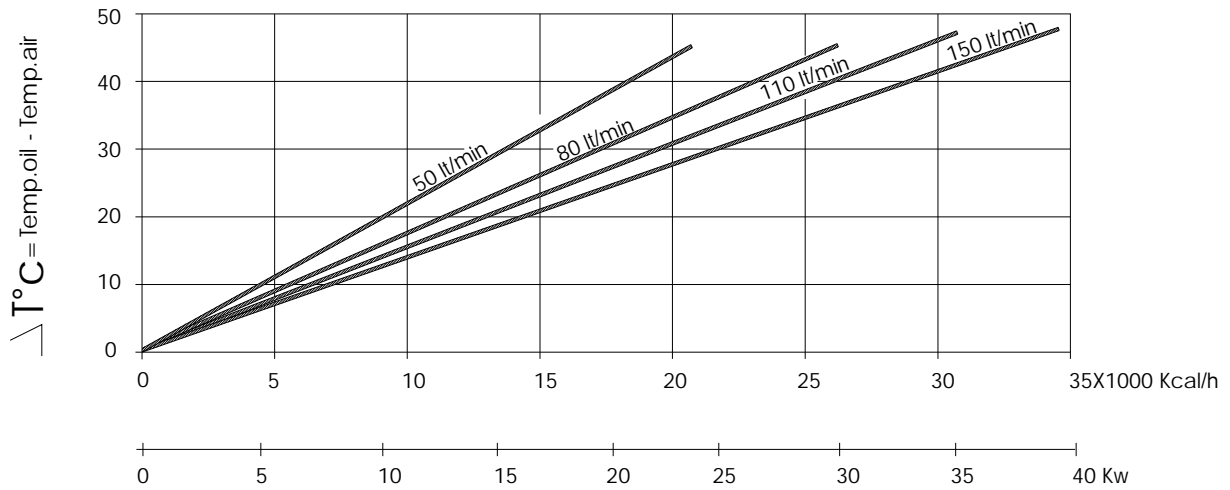
COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

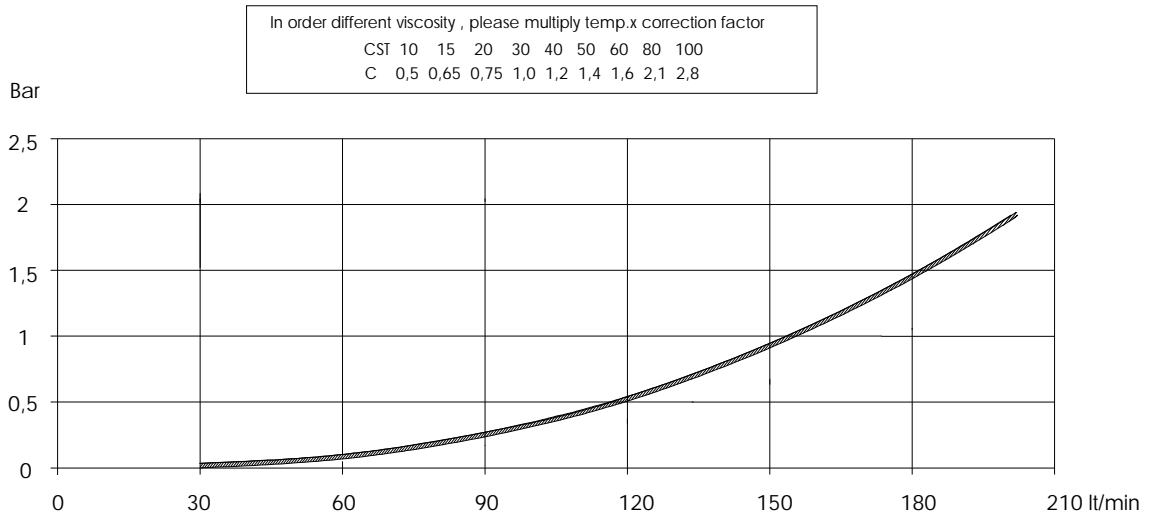
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSA 5.12.0.00</b>			<b>CSA 5.24.0.00</b>		
01	Cooler	CSA5.00.0.00	01	Cooler	CSA5.00.0.00
02	Fan Motor(Air Flow Suction)	10.70108 .1	02	Fan Motor(Fan Motor Suction)	10.70109 .1
02	Fan Motor(Air Flow Blowing)	10.70110 .1	02	Fan Motor(Fan Motor Blowing)	10.70111 .1
04	Cowl	15.65010 .0	04	Cowl	15.65010 .0
05	Fixing Support	15.65017 .0	05	Fixing Support	15.65017 .0
<b>CSA 5.38.0.00</b>			<b>CSA 5 .G2.0.00</b>		
01	Cooler	CSA5.00.0.00	01	Cooler	CSA5.00.0.00
02	Fan Motor(Air Flow Suction)	10.70017 .1	02	Fan Motor(Air Flow Suction)	10.70109 .1
02	Fan Motor(Air Flow Blowing)	10.70018 .1	02	Fan Motor(Air Flow Blowing)	10.70111 .1
03	Safety Guard	10.70058 .1	03	Safety Guard	10.70056 .1
04	Cowl	15.65011 .0	04	Cowl	15.65245 .0
05	Fixing Support	15.65017 .0	05	Fixing Support	15.65017 .0

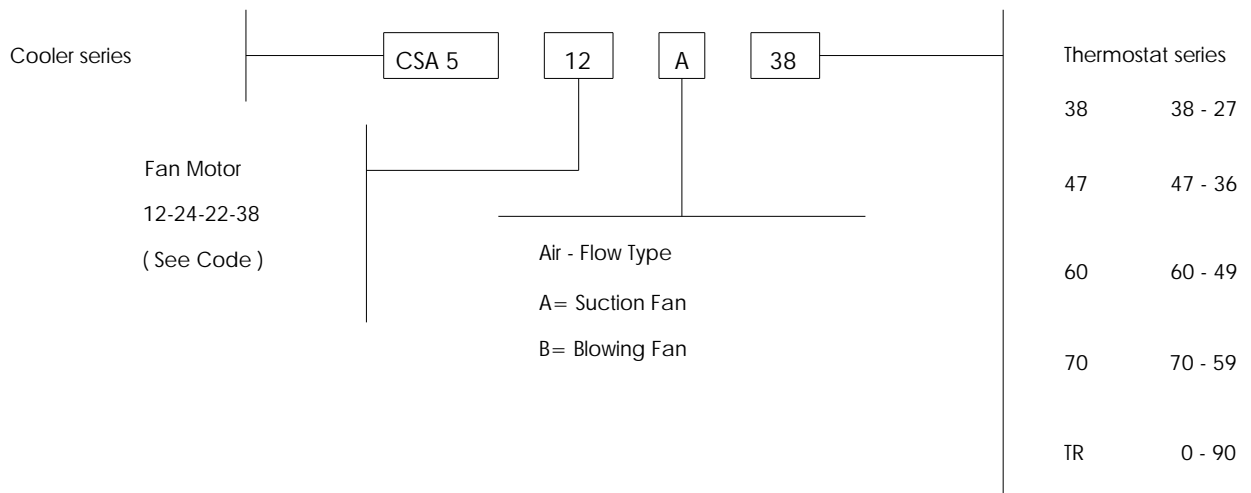
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION

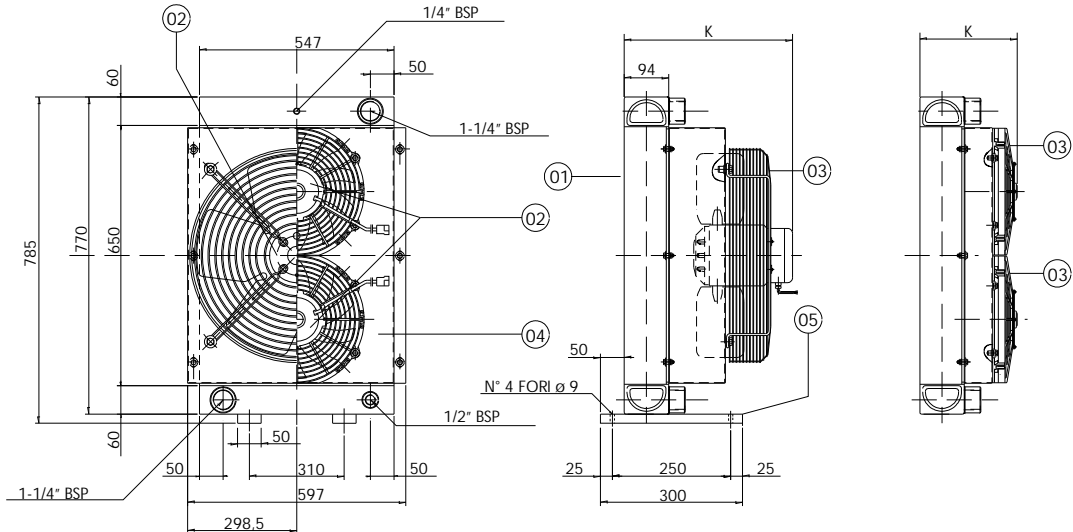


Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice

# Air/oil coolers series CSA 6



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSA 6.12.0.00	12	DC	2300	0.125+0.125	305+305	78	210
CSA 6.24.0.00	24	DC	2300	0.125+0.125	305+305	78	210
CSA 6.38.0.00	230/400	50/60	1390	0.75	500	77	360
CSA 6.G2.0.00			800/2500	=	500	=	390



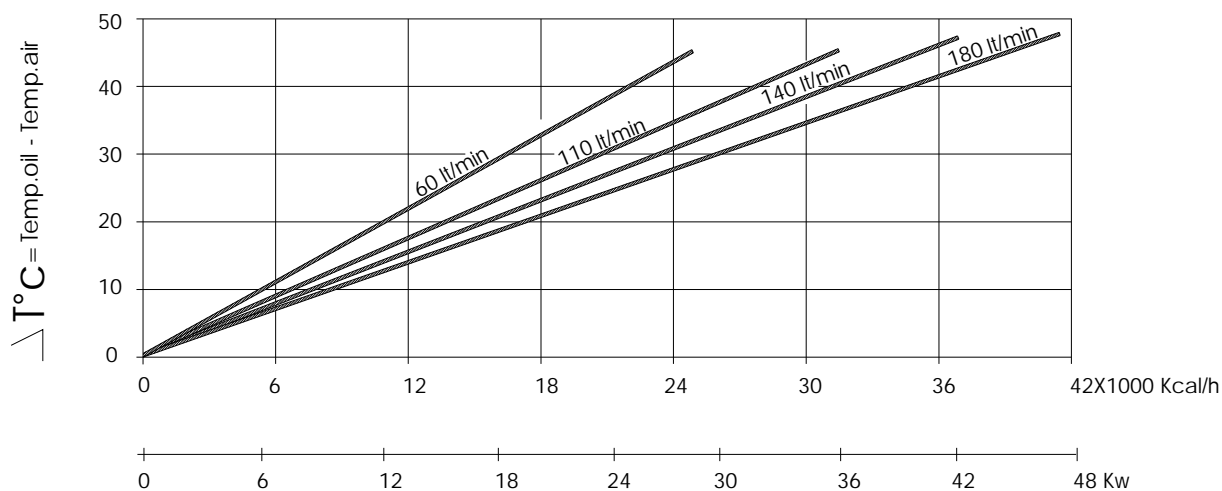
COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	: 20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

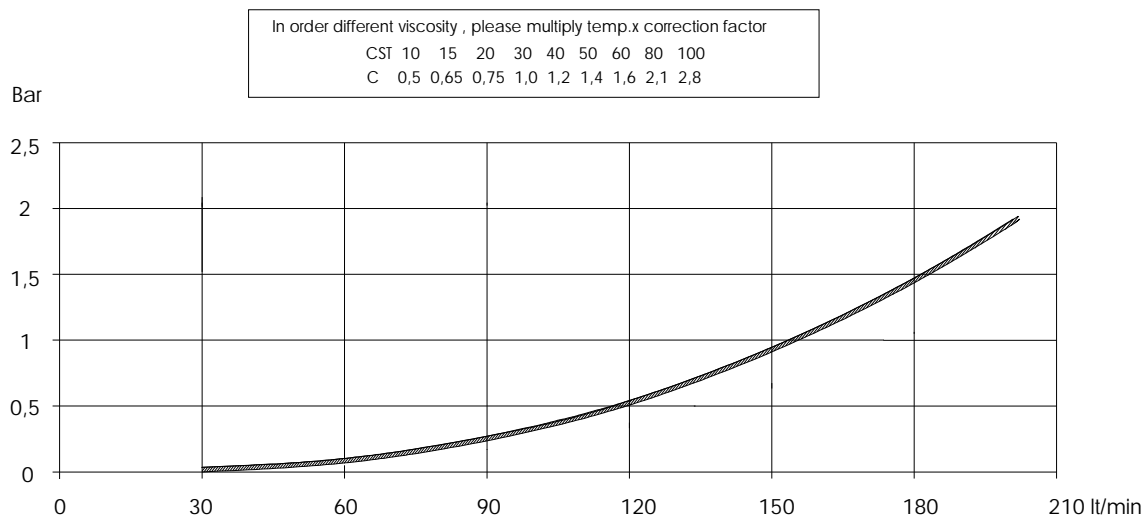
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSA 6.12.0.00</b>			<b>CSA 6.24.0.00</b>		
01	Cooler	CSA6.00.0.00	01	Cooler	CSA6.00.0.00
02	Fan Motor(Air Flow Suction)	10.70108 .1	02	Fan Motor(Fan Motor Suction)	10.70109 .1
02	Fan Motor(Air Flow Blowing)	10.70110 .1	02	Fan Motor(Fan Motor Blowing)	10.70111 .1
04	Cowl	15.65012 .0	04	Cowl	15.65012 .0
05	Fixing Support	15.65017 .0	05	Fixing Support	15.65017 .0
<b>CSA 6.38.0.00</b>			<b>CSA 6 .G2.0.00</b>		
01	Cooler	CSA6.00.0.00	01	Cooler	CSA6.00.0.00
02	Fan Motor(Air Flow Suction)	10.70019 .1	02	Fan Motor(Air Flow Suction)	10.70036 .1
02	Fan Motor(Air Flow Blowing)	10.70020 .1	02	Fan Motor(Air Flow Blowing)	10.70036 .1
04	Cowl	15.65013 .0	04	Cowl	15.65013 .0
05	Fixing Support	15.65017 .0	05	Fixing Support	15.65017 .0

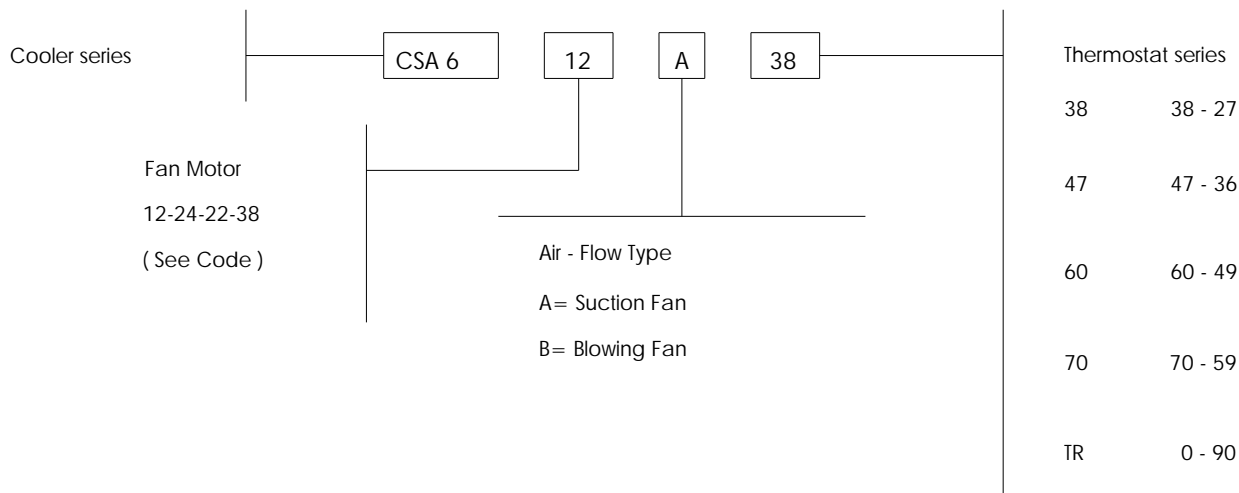
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION



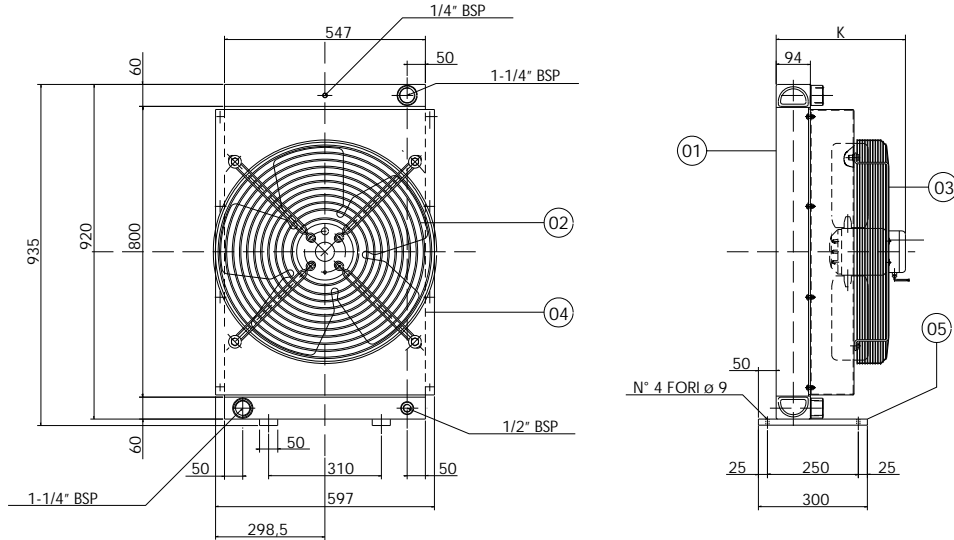
Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice



# Air/oil coolers series CSA 7



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSA 7.38.0.00	230/400	50	1400	0.90	560	78	400
CSA 7.G2.0.00	Prepared for Gr2 Hydraulic Motor		1340	=	560	=	390
CSA 7.GD.0.00	Prepared for Gr2 Hydraulic Motor		800/1700	=	560	=	390



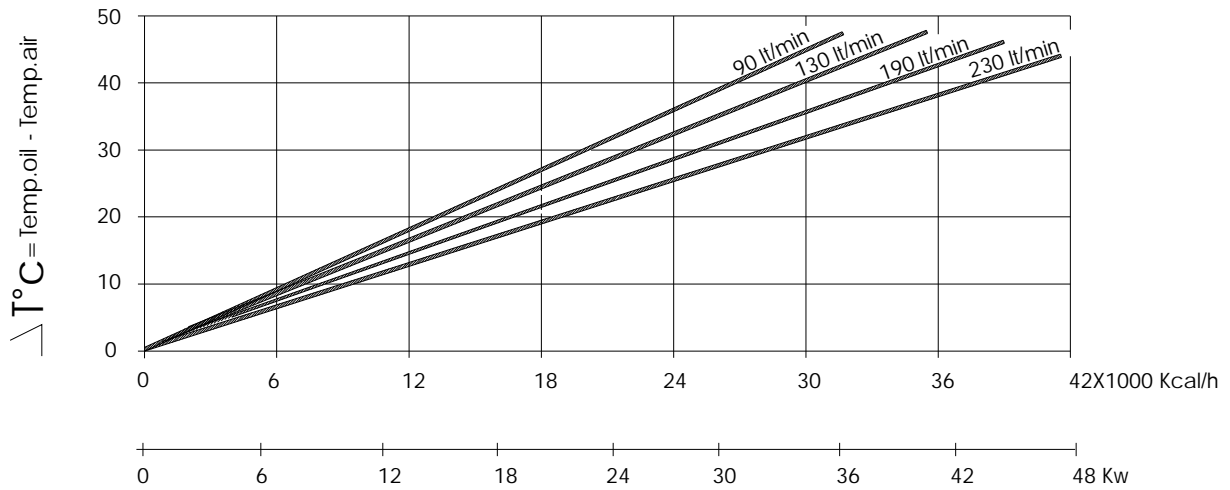
COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

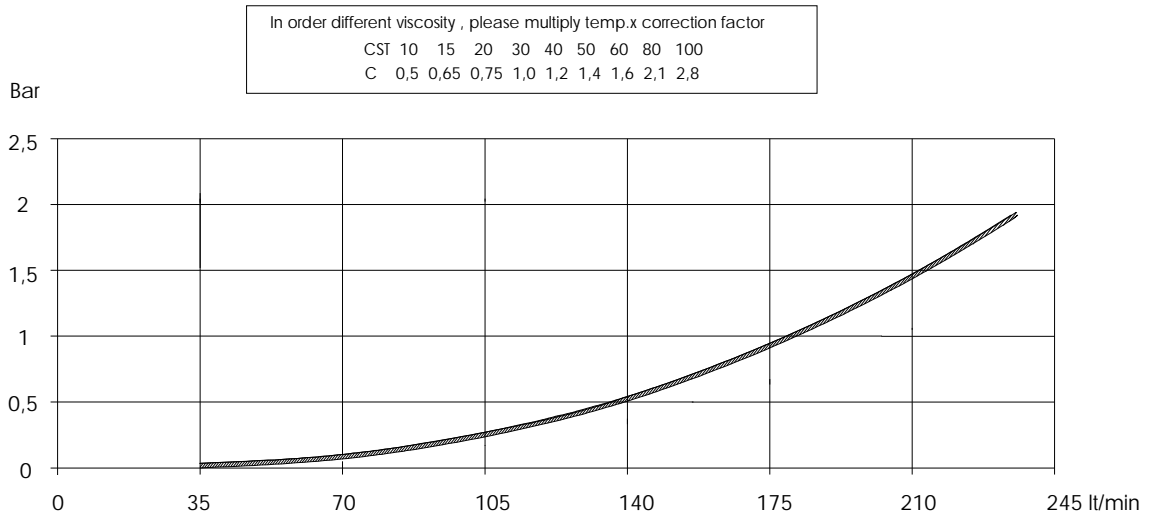
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSA 7.38.0.00</b>			<b>CSA 7.G2.0.00</b>		
01	Cooler	CSA7.00.0.00	01	Cooler	CSA7.00.0.00
02	Fan Motor(Air Flow Suction)	10.70021 .1	02	Fan Motor(Fan Motor Suction)	10.70037 .1
02	Fan Motor(Air Flow Blowing)	10.70022 .1	02	Fan Motor(Fan Motor Blowing)	10.70037 .1
03	Safety Guard	10.70060 .1	03	Safety Guard	10.70065 .1
04	Cowl	15.65014 .0	04	Cowl	15.65014 .0
05	Fixing Support	15.65017 .0	05	Fixing Support	15.65017 .0
<b>CSA 7.GD.0.00</b>					
01	Cooler	CSA7.00.0.00			
02	Fan Motor(Air Flow Suction)	10.70037 .1			
02	Fan Motor(Air Flow Blowing)	10.70037 .1			
03	Safety Guard	10.70070 .1			
04	Cowl	15.65013 .0			
05	Fixing Support	15.65017 .0			

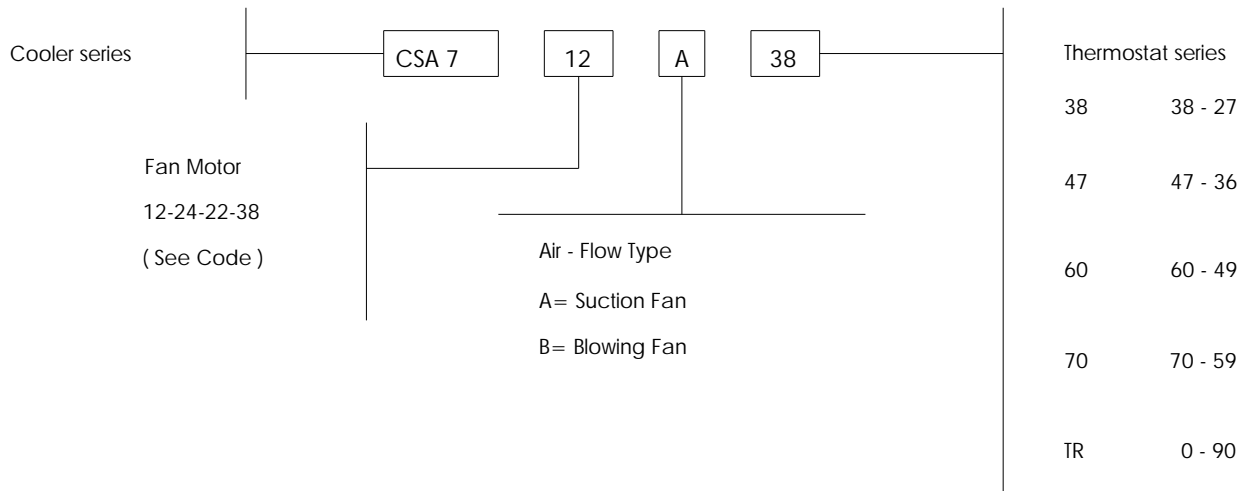
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION

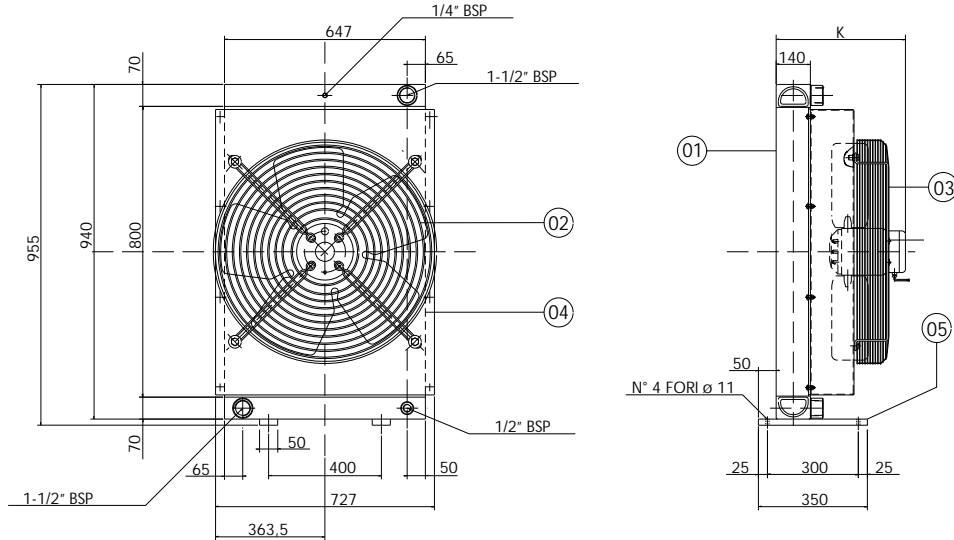


Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice

# Air/oil coolers series CSA 8



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSA 8.38.0.00	230/400	50	900	0.57	630	78	430
CSA 8.G2.0.00	Prepared for Gr2 Hydraulic Motor		900/2000	=	630	=	470
CSA 8.GD.0.00	Prepared for Gr2 Hydraulic Motor		800/1500	=	630	=	470



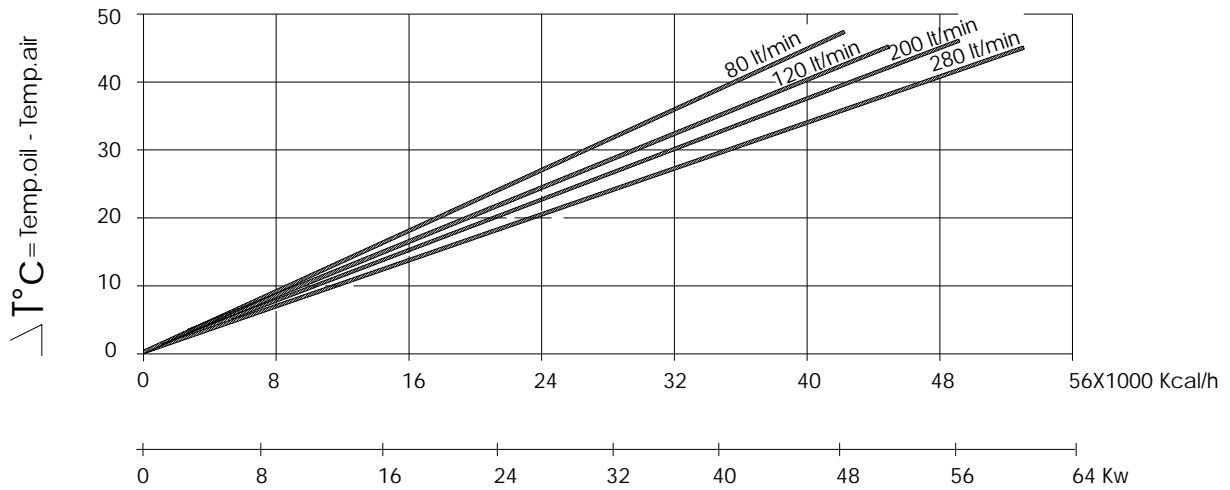
COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

### SPARE PARTS

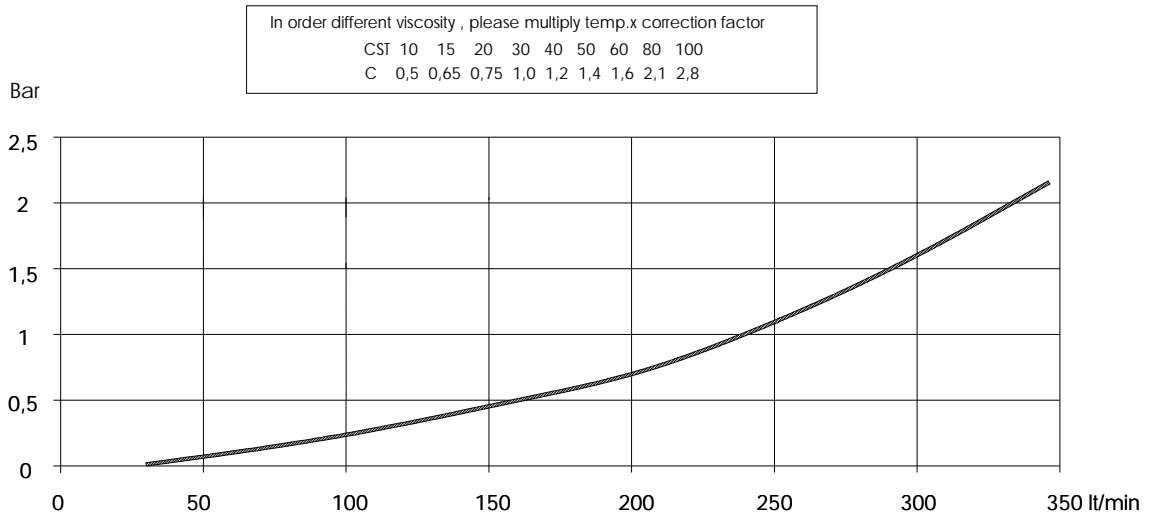
### SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSA 8.38.0.00</b>			<b>CSA 8.G2.0.00</b>		
01	Cooler	CSA8.00.0.00	01	Cooler	CSA8.00.0.00
02	Fan Motor(Air Flow Suction)	10.70023.1	02	Fan Motor(Fan Motor Suction)	10.70038.1
02	Fan Motor(Air Flow Blowing)	10.70024.1	02	Fan Motor(Fan Motor Blowing)	10.70038.1
03	Safety Guard	10.70061.1	03	Safety Guard	10.70066.1
04	Cowl	15.65015.0	04	Cowl	15.65015.0
05	Fixing Support	15.65018.0	05	Fixing Support	15.65018.0
<b>CSA 8.GD.0.00</b>					
01	Cooler	CSA8.00.0.00			
02	Fan Motor(Air Flow Suction)	10.70038.1			
02	Fan Motor(Air Flow Blowing)	10.70038.1			
03	Safety Guard	10.70071.1			
04	Cowl	15.65015.0			
05	Fixing Support	15.65018.0			

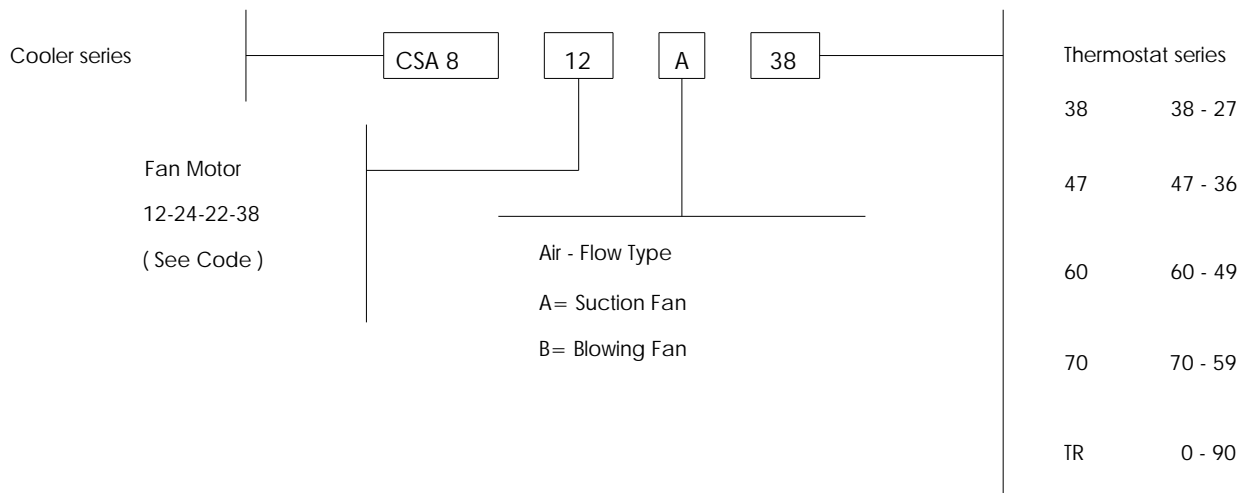
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION



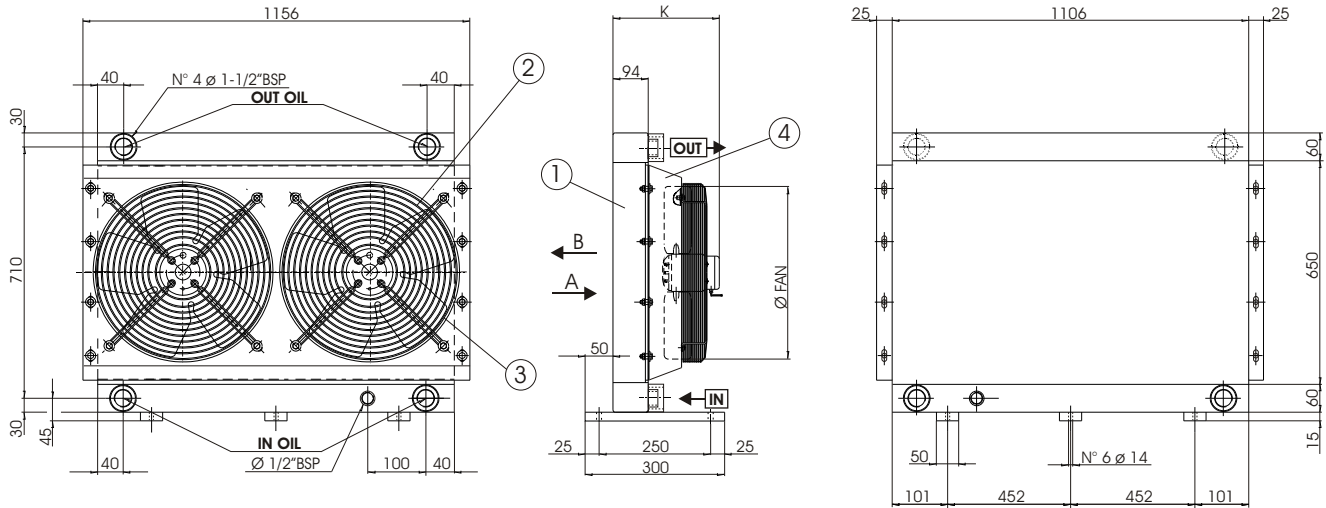
Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice



# Air/oil coolers series CSA 12

Code	Tension V	Frequency Hz	Rpm	Power kW	Dia.Fan Weel.	dB (A)	K mm.
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CSA 12.38.0.00	230/400	50/60	1390	0.75 x 2	500	77	360
CSA 12.G2.0.00	Prep. For Gr2 Hydraulic motor		800/2500	= x 2	500	=	390



COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

### SPARE PARTS

Pos.	Description	Code
------	-------------	------

CSA 12.38.0.00		
01	Cooler	CSA12.00.0.00
02	Fan Motor (Air Flow Suction) + Safety Guard	10.70019 .1
02	Fan Motor (Air Flow Blowing) + Safety Guard	10.70020 .1
04	Cowl	15.65003 .0

### SPARE PARTS

Pos.	Description	Code
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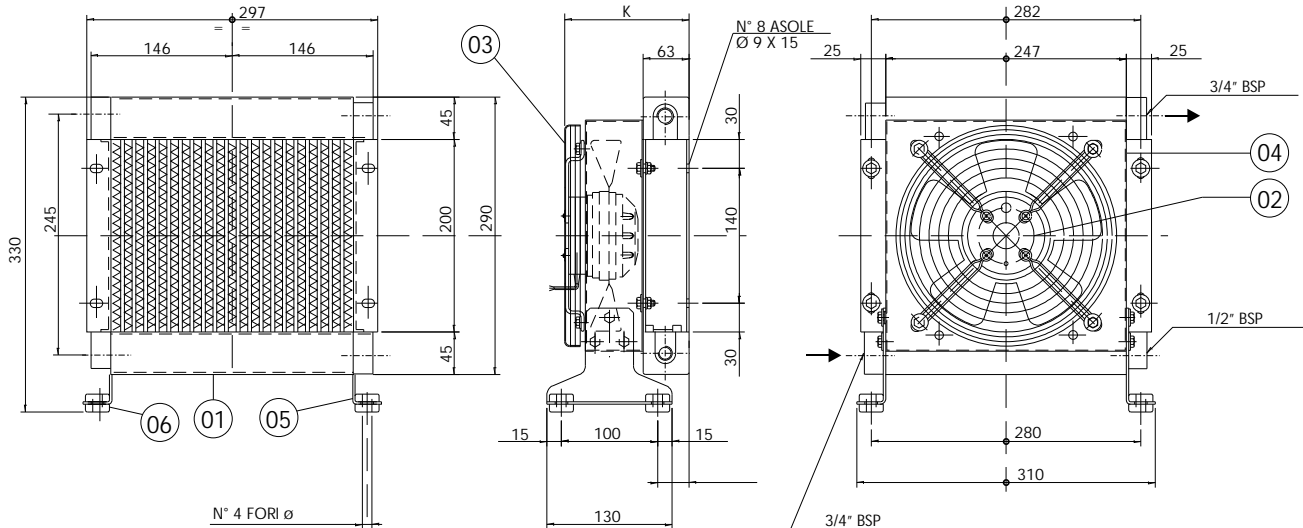
CSA 12 .G2.0.00		
01	Cooler	CSA12.00.0.00
02	Fan Motor (Air Flow Suction).	11.70140 .1
02	Fan Motor (air Flow Blowing).	11.70184 .1
03	Safety Guard	09.70059 .1
04	Cowl	15.65003 .0



# Air/oil coolers series CSL1



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSL 1.12.0.00	12	DC	3100	0.100	225	67	145
CSL 1.24.0.00	24	DC	3100	0.100	225	67	145
CSL 1.22.0.00	230	50/60	2740/3120	0.050/0.061	200	68	155
CSL 1.38.0.00	230/400	50/60	2800/3150	0.053/0.056	200	68	155



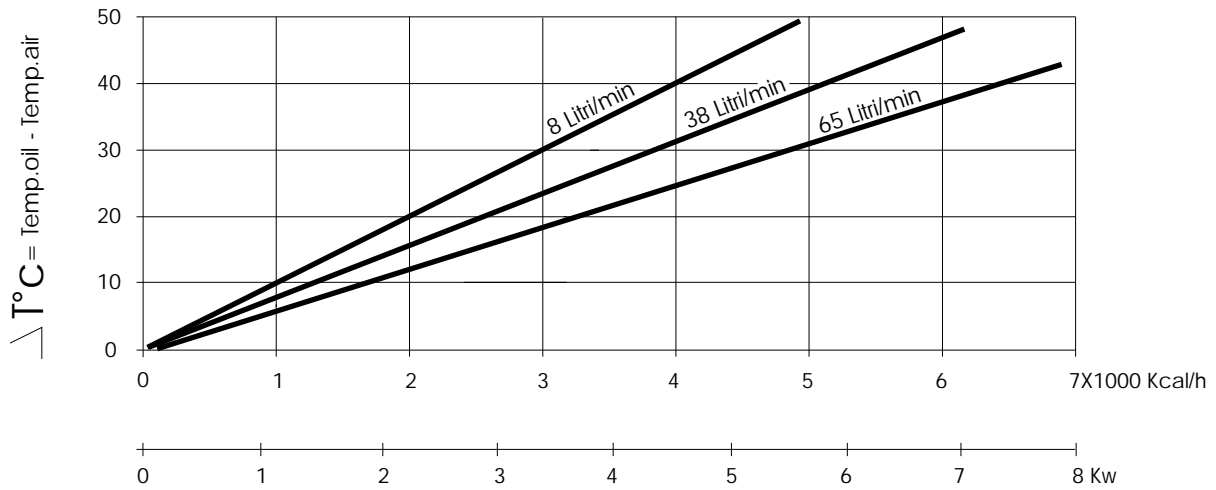
COOLER TECHNICAL DATA	FAN MOTORS TECHNICAL DATA
Max working Pressure : 20 bar	Tension CA: DIN IEC38 DC: 12/24V
Max working Temperature : + 120° C	Max Working Temperature : + 75° C + 75° C
Max oil Viscosity : 100 CST	Min Working Temperature : - 30° C
Main Material : Alluminium	Main Material : Steel : Fiber Glass
Cooling Fluid : Compatible Al	Motor Protection : IP 44 : IP 64
Colour : Black	Colour : Black

## SPARE PARTS

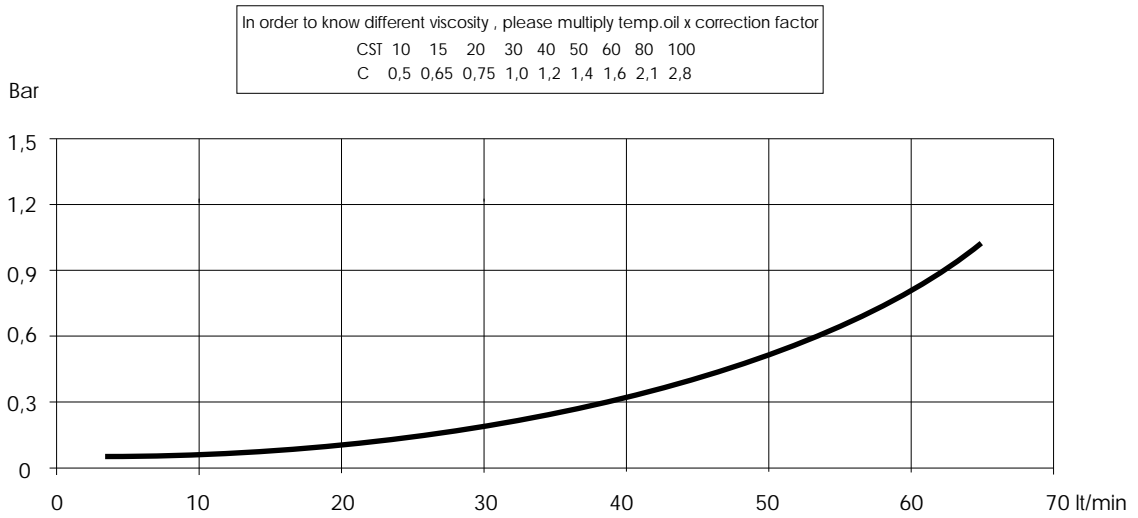
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSL 1.12.0.00</b>			<b>CSL 1.24.0.00</b>		
01	Cooler	CSL05.00.0.00	01	Cooler	CSL05.00.0.00
02	Fan Motor(Air Flow Suction)	10.70110.1	02	Fan Motor(Air Flow Suction)	10.70100.1
02	Fan Motor(Air Flow Blowing)	10.70102.1	02	Fan Motor(Air Flow Blowing)	10.70103.1
04	Cowl	15.65005.0	04	Cowl	15.65005.0
05	Fixing Support	15.65008.0	05	Fixing Support	15.65008.0
06	Shock Adsorber	20.80000.1	06	Shock Adsorber	20.80000.1
<b>CSL 1.22.0.00</b>			<b>CSL 1.38.0.00</b>		
01	Cooler	CSL05.00.0.00	01	Cooler	CSL05.00.0.00
02	Fan Motor(Air Flow Suction)	10.70002.1	02	Fan Motor(Air Flow Suction)	10.70001.1
02	Fan Motor(Air Flow Blowing)	10.70004.1	02	Fan Motor(Air Flow Blowing)	10.70003.1
03	Safety Guard	10.70050.1	03	Safety Guard	10.70050.1
04	Cowl	15.65005.0	04	Cowl	15.65005.0
05	Fixing Support	15.65008.0	05	Fixing Support	15.65008.0
06	Shock Adsorber	20.80000.1	06	Shock Adsorber	20.80000.1

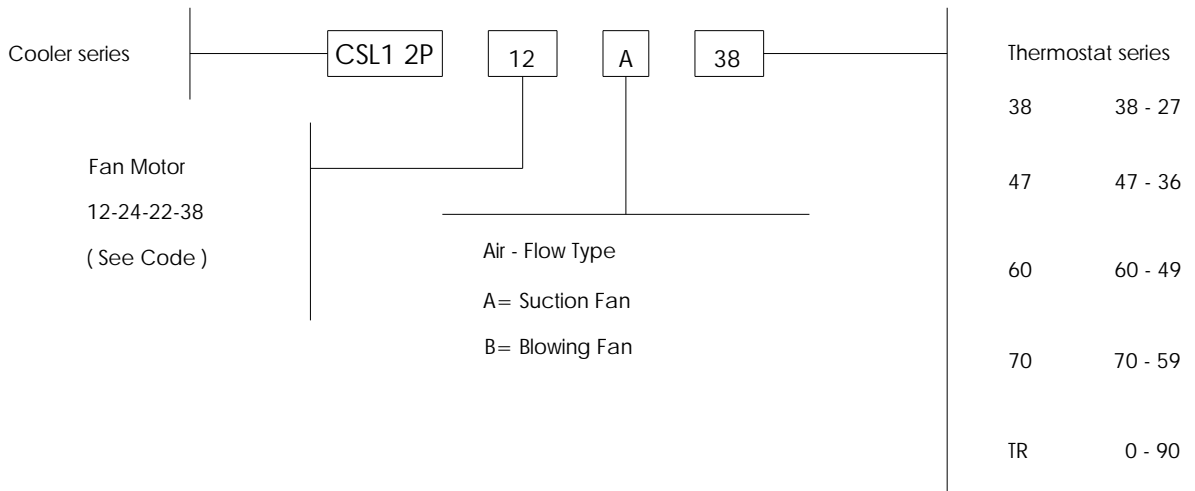
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM

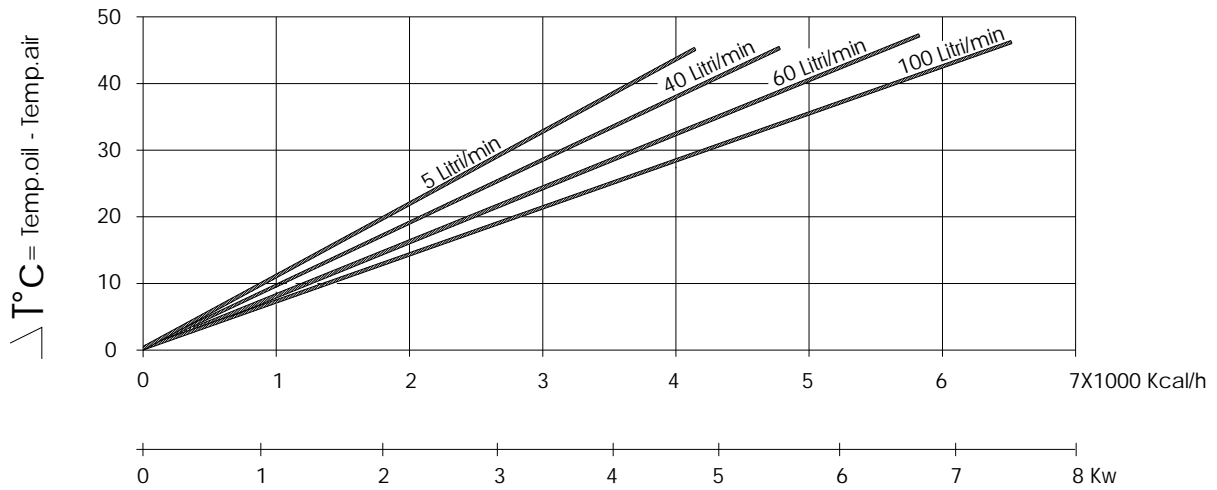


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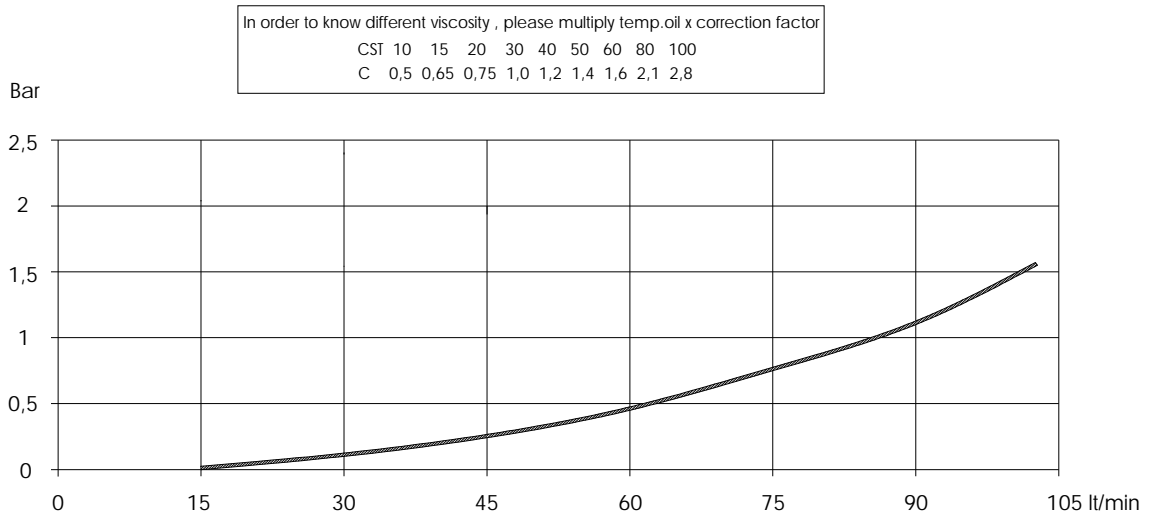


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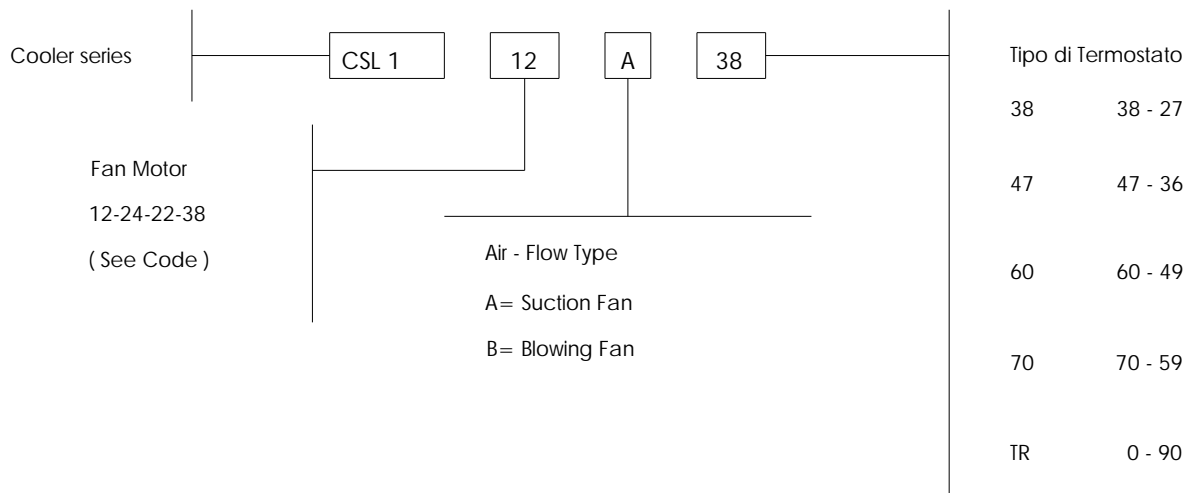
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



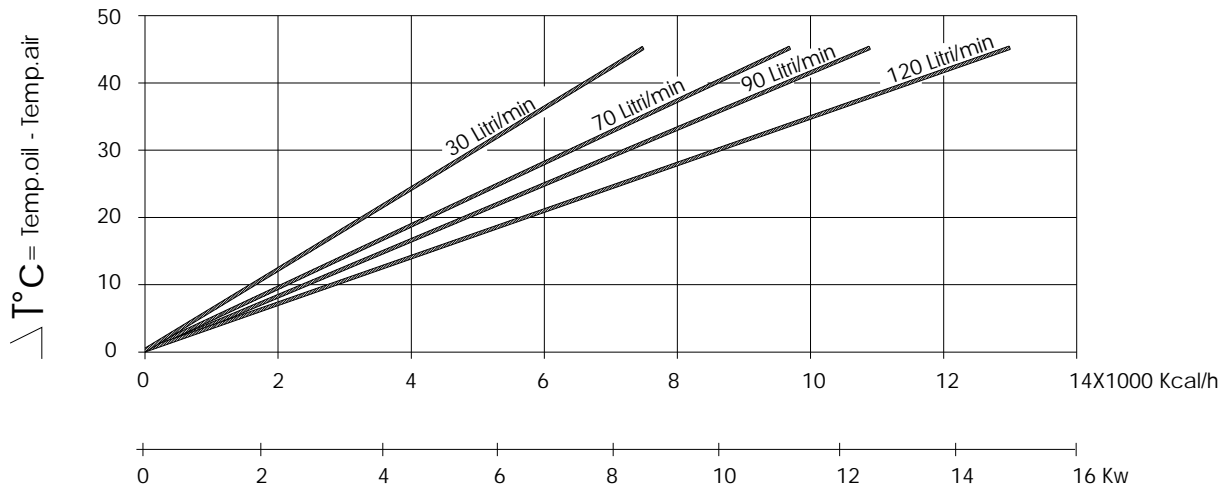
### CODIFICATION



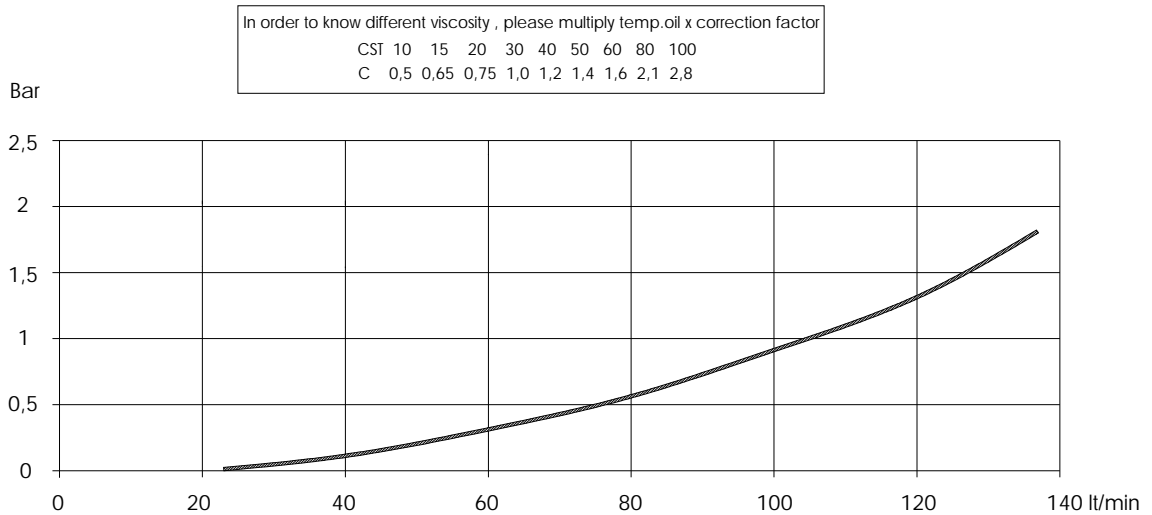
Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice.



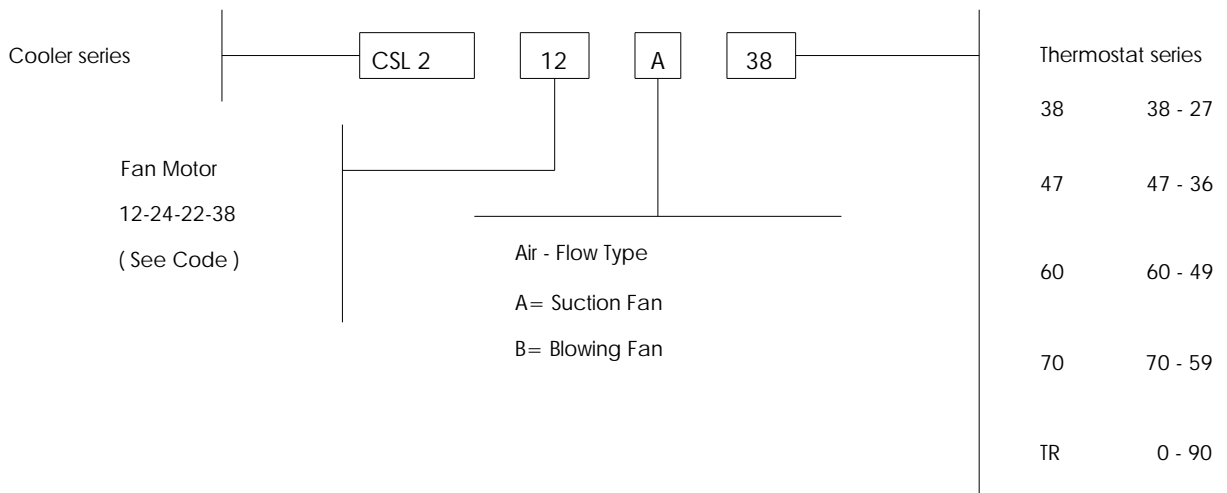
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM

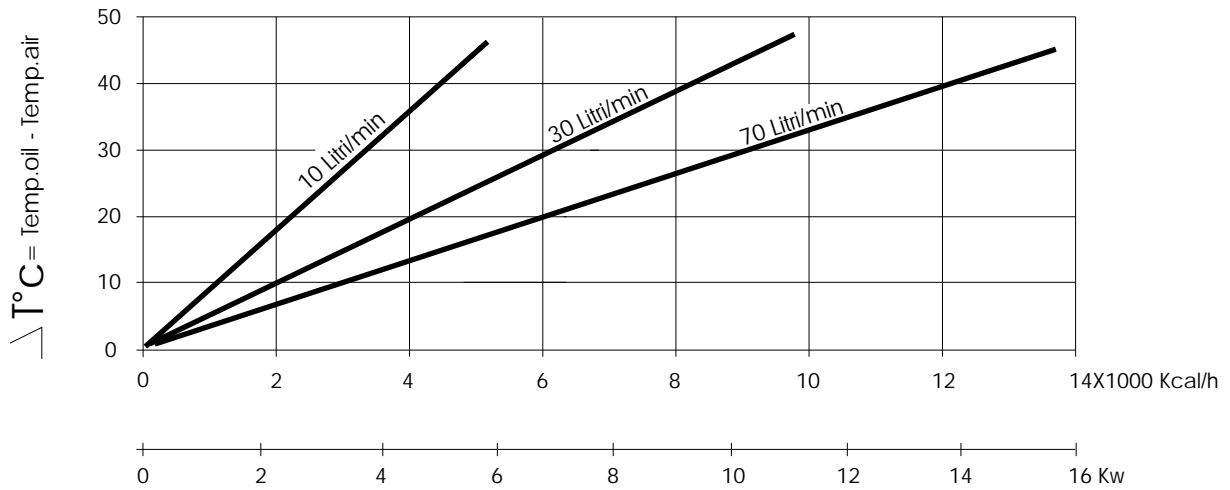


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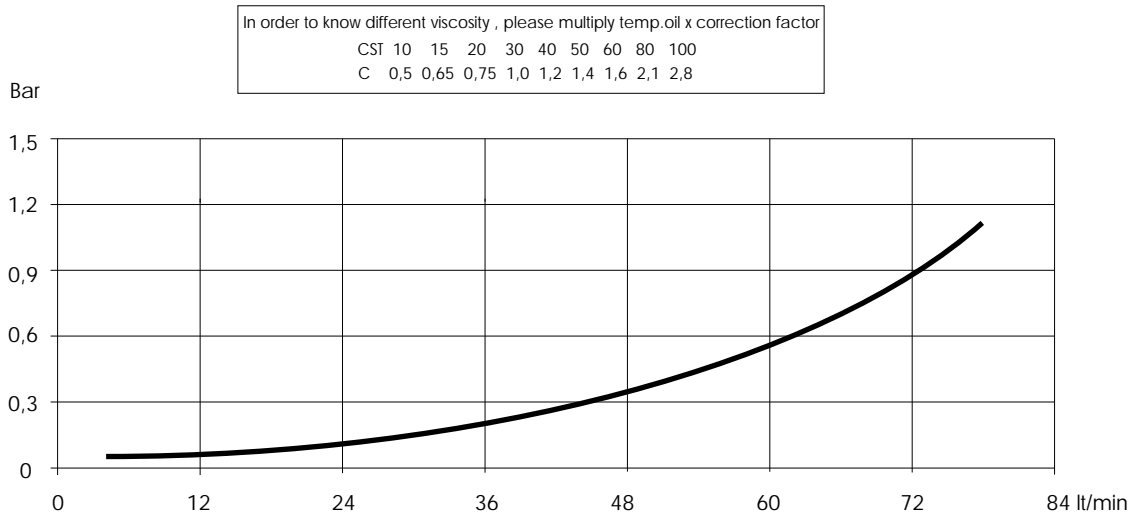


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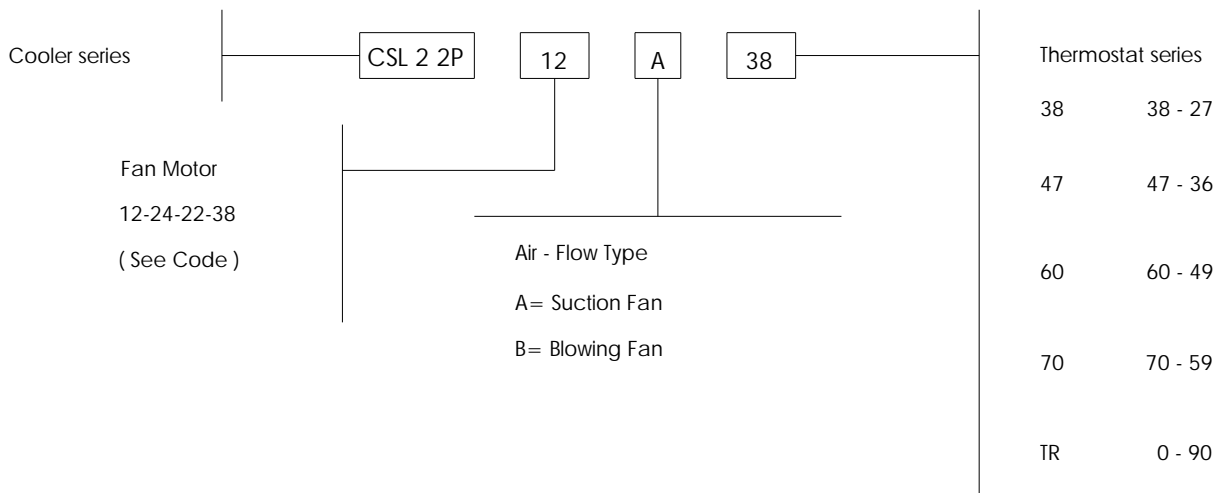
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION

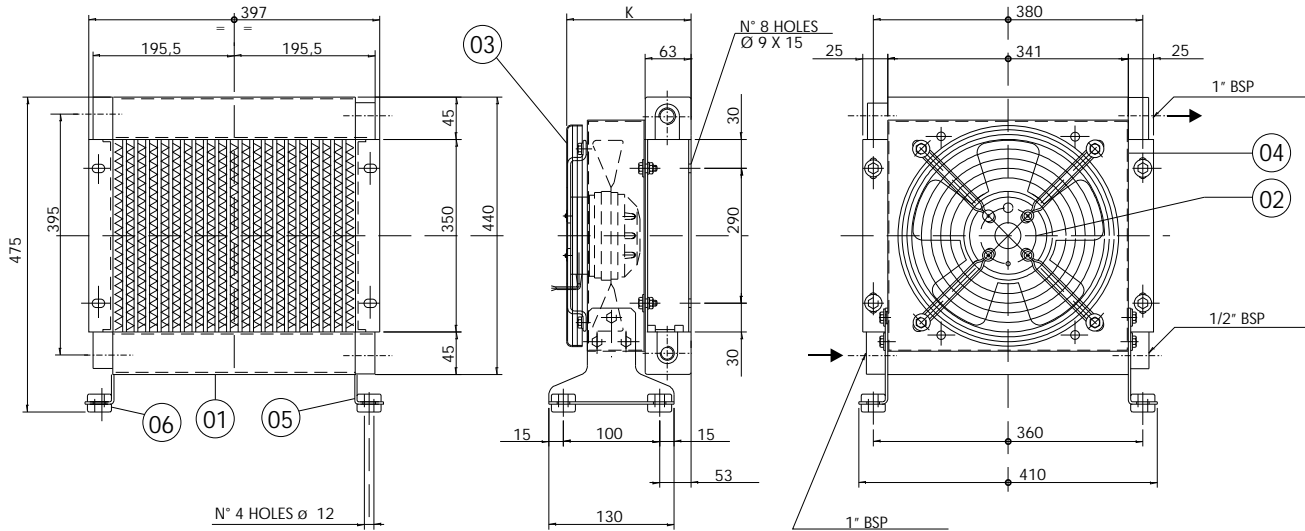


Technical characteristic herein mentioned are not binding and it can be modified from CIESSE without any notice

# Air/oil coolers series CSL 3



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Well mm.	dB (A)	K mm.
CSL 3.12.0.00	12	DC	2300	0.125	305	69	170
CSL 3.24.0.00	24	DC	2300	0.125	305	69	170
CSL 3.22.0.00	230	50/60	2650/2950	0.160/0.205	300	70	155/170
CSL 3.38.0.00	230/400	50/60	2650/2800	0.180/0.270	300	70	155/170



COOLER TECHNICAL		FAN MOTORS TECHNICAL DATA	
Max Working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max Working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

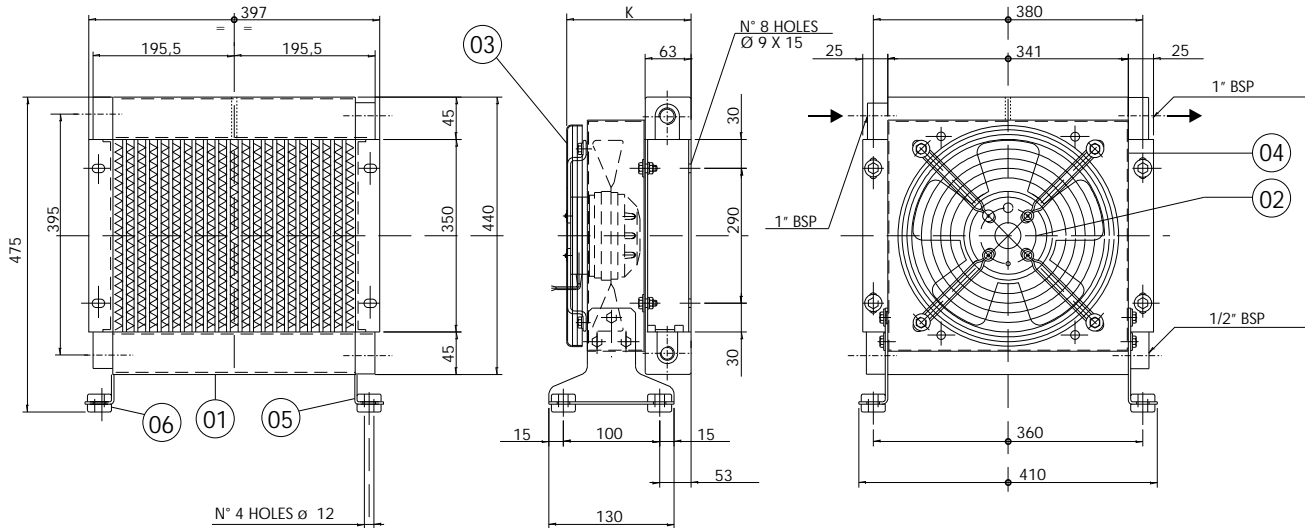
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSL 3.12.0.00</b>			<b>CSL 3.24.0.00</b>		
01	Cooler	CSL3.00.0.00	01	Cooler	CSL3.00.0.00
02	Fan Motor(Air Flow Suction)	10.70108.1	02	Fan Motor(Air Flow Suction)	10.70109.1
02	Fan Motor(Air Flow Blowing)	10.70110.1	02	Fan Motor(Air Flow Blowing)	10.70111.1
04	Cowl	15.65007.0	04	Cowl	15.65007.0
05	Fixing Support	15.65008.0	05	Fixing Support	15.65008.0
06	Shock Adsorber	20.80000.1	06	Shock Adsorber	20.80000.1
<b>CSL 3.22.0.00</b>			<b>CSL 3.38.0.00</b>		
01	Cowl	CSL3.00.0.00	01	Cooler	CSL3.00.0.00
02	Fan Motor(Fan Motor Suction)	10.70010.1	02	Fan Motor(Air Flow Suction)	10.70009.1
02	Fan Motor(Fan Motor Blowing)	10.70012.1	02	Fan Motor(Air Flow Blowing)	10.70011.1
03	Safety Guard(Fan Motor Suction)	10.70052.1	03	Safety Guard(Air Flow Suction)	10.70052.1
04	Cowl	15.65007.0	04	Cowl	15.65007.0
05	Fixing Support	15.65008.0	05	Fixing Support	15.65008.0
06	Shock Adsorber	20.80000.1	06	Shock Adsorber	20.80000.1

# Air/oil coolers series CSL 3 2P



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Well mm.	dB (A)	K mm.
CSL 3.12.0.00 2P	12	DC	2300	0.125	305	69	170
CSL 3.24.0.00 2P	24	DC	2300	0.125	305	69	170
CSL 3.22.0.00 2P	230	50/60	2650/2950	0.160/0.205	300	70	155/170
CSL 3.38.0.00 2P	230/400	50/60	2650/2800	0.180/0.270	300	70	155/170



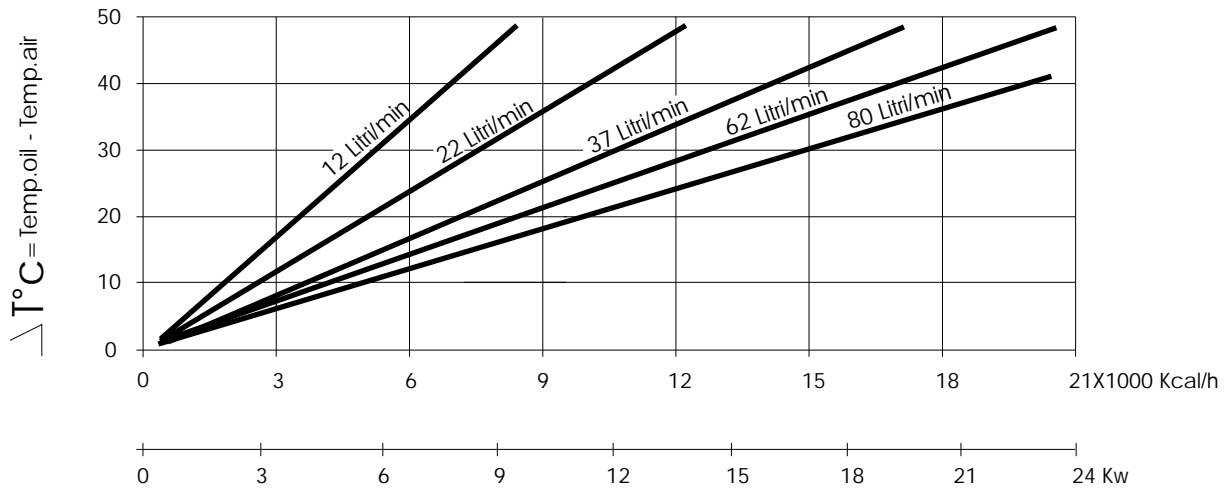
COOLER TECHNICAL		FAN MOTORS TECHNICAL DATA	
Max Working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max Working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Alluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

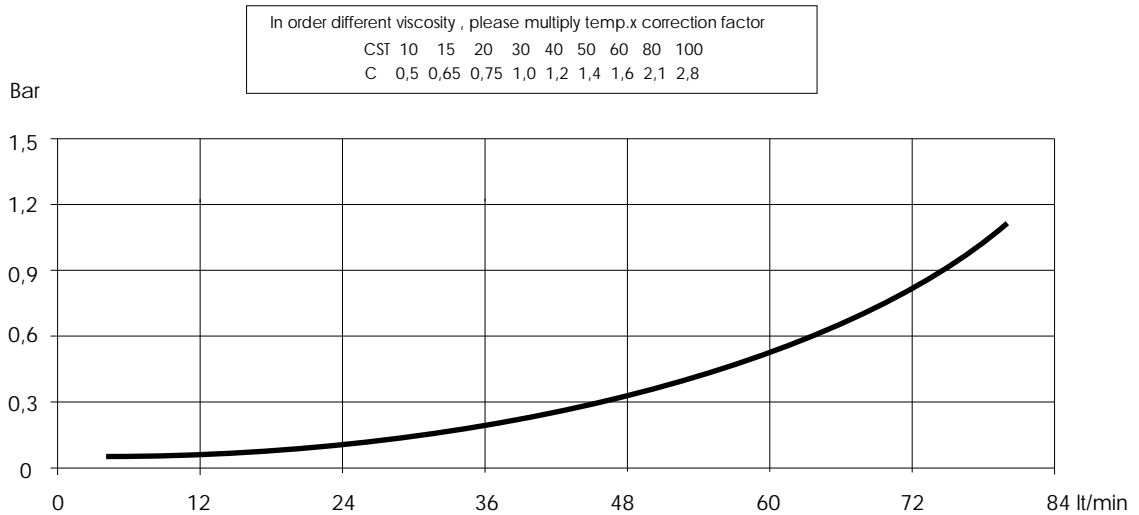
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
<b>CSL 3.12.0.00 2P</b>			<b>CSL 3.24.0.00 2P</b>		
01	Cooler	CSL3.00.0.00 2P	01	Cooler	CSL3.00.0.00 2P
02	Fan Motor(Air Flow Suction)	10.70108.1	02	Fan Motor(Air Flow Suction)	10.70109.1
02	Fan Motor(Air Flow Blowing)	10.70110.1	02	Fan Motor(Air Flow Blowing)	10.70111.1
04	Cowl	15.65007.0	04	Cowl	15.65007.0
05	Fixing Support	15.65008.0	05	Fixing Support	15.65008.0
06	Shock Adsorber	20.80000.1	06	Shock Adsorber	20.80000.1
<b>CSL 3.22.0.00 2P</b>			<b>CSL 3.38.0.00 2P</b>		
01	Cowl	CSL3.00.0.00 2P	01	Cooler	CSL3.00.0.00 2P
02	Fan Motor(Fan Motor Suction)	10.70010.1	02	Fan Motor(Air Flow Suction)	10.70009.1
02	Fan Motor(Fan Motor Blowing)	10.70012.1	02	Fan Motor(Air Flow Blowing)	10.70011.1
03	Safety Guard(Fan Motor Suction)	10.70052.1	03	Safety Guard(Air Flow Suction)	10.70052.1
04	Cowl	15.65007.0	04	Cowl	15.65007.0
05	Fixing Support	15.65008.0	05	Fixing Support	15.65008.0
06	Shock Adsorber	20.80000.1	06	Shock Adsorber	20.80000.1

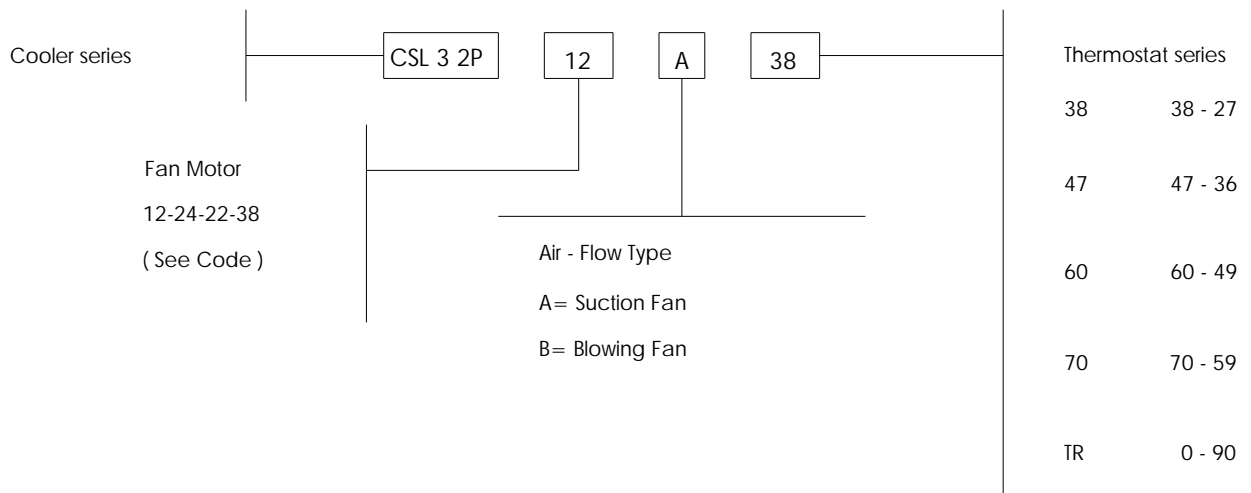
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM

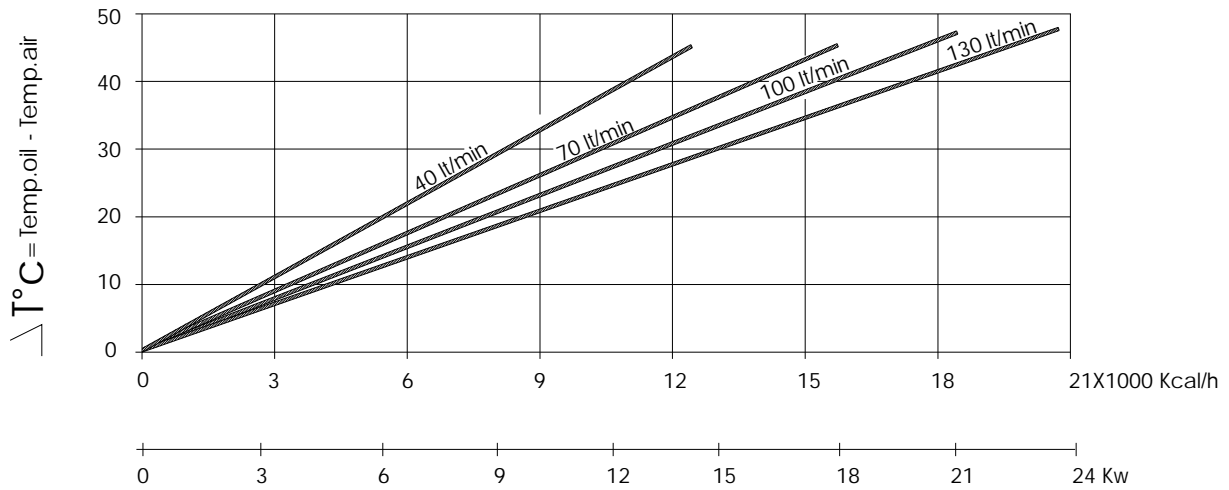


### CODIFICATION

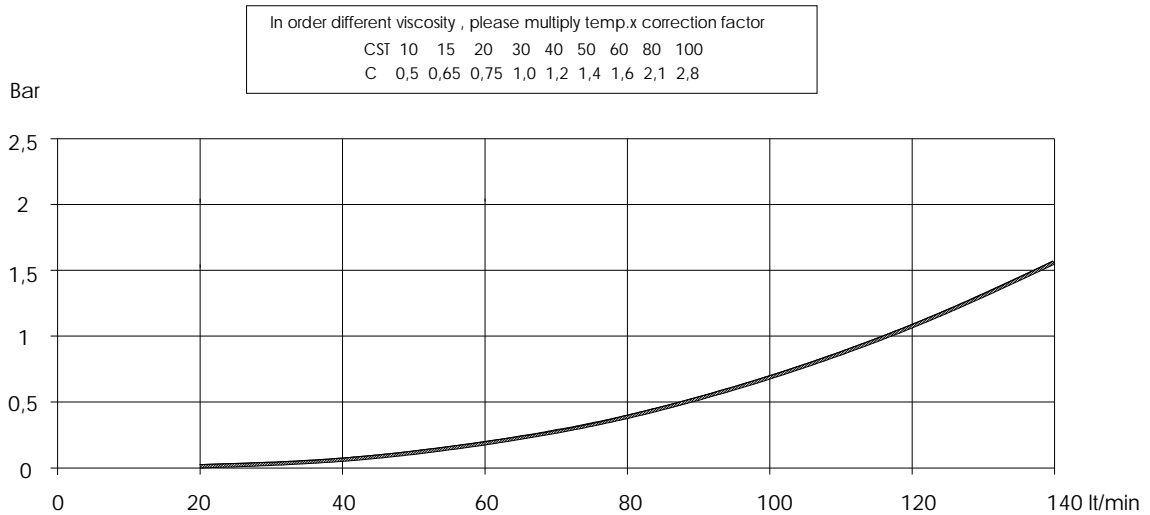


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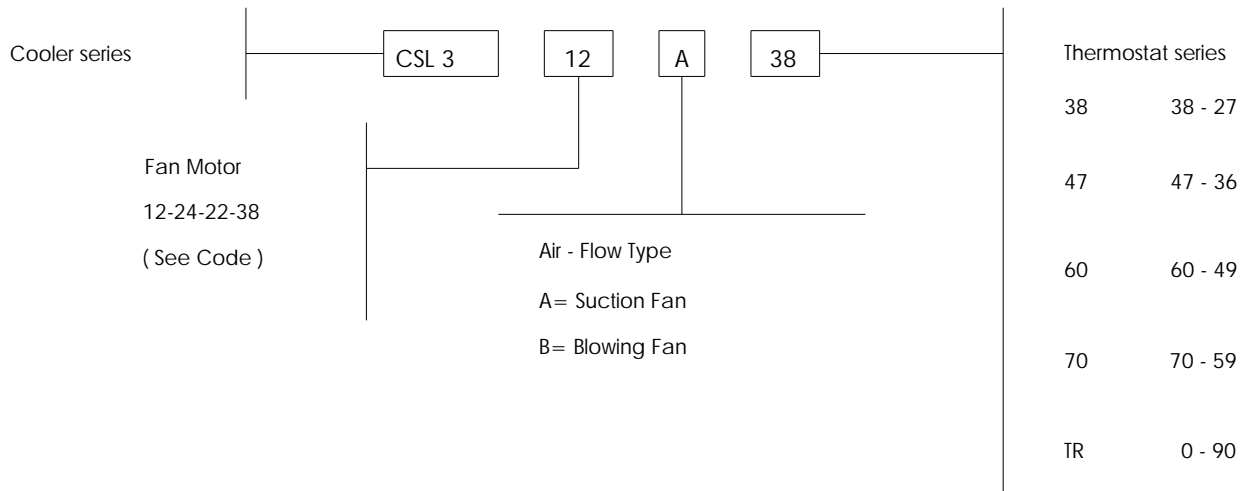
### THERMIC EFFICIENCY DIAGRAM



### PRESSURE DROP DIAGRAM



### CODIFICATION

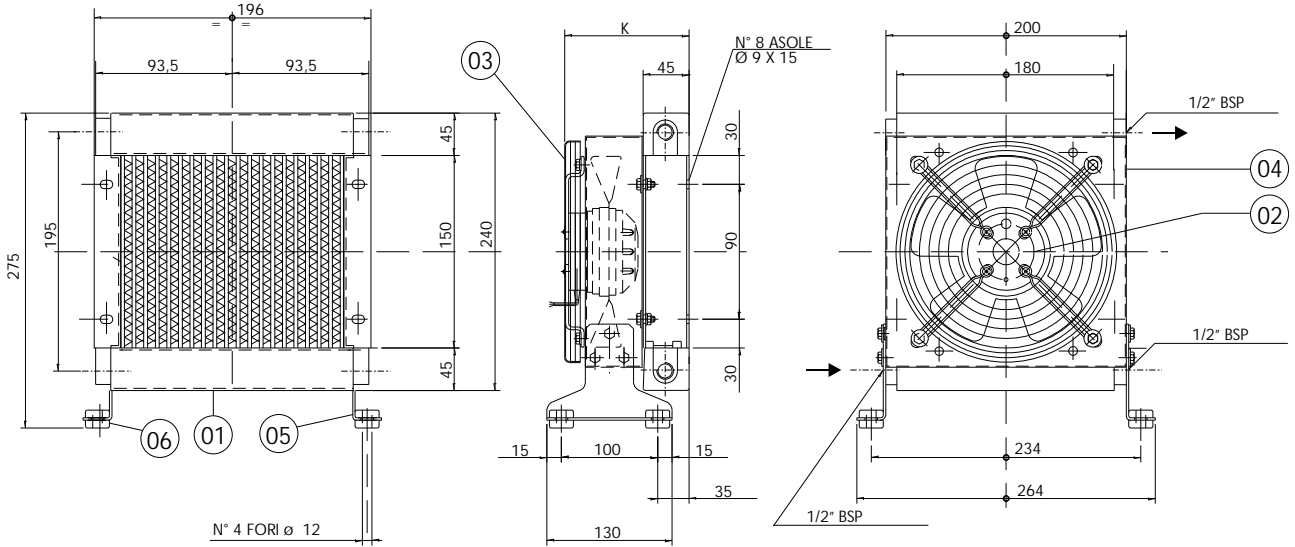


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# Air/oil coolers series CSL 05



Code	Tension V	Frequency Hz	Rpm	Power Kw	Dia.Fan Weel.	dB (A)	K mm.
CSL 05.12.0.00	12	DC	4000	0.080	167	65	170
CSL 05.24.0.00	24	DC	4100	0.080	167	65	170
CSL 05.22.0.00	230	50/60	2650/2950	0.045/0.043	170	64	125
CSL 05.38.0.00	230/400	50/60	2650	0,040	170	64	125



COOLER TECHNICAL DATA		FAN MOTORS TECHNICAL DATA	
Max working Pressure	:20 bar	Tension	CA: DIN IEC38 DC: 12/24V
Max working Temperature	: + 120° C	Max Working Temperature	: + 75° C + 75° C
Max oil Viscosity	: 100 CST	Min Working Temperature	: - 30° C
Main Material	: Aluminium	Main Material	: Steel : Fiber Glass
Cooling Fluid	: Compatible Al	Motor Protection	: IP 44 : IP 64
Colour	: Black	Colour	: Black

## SPARE PARTS

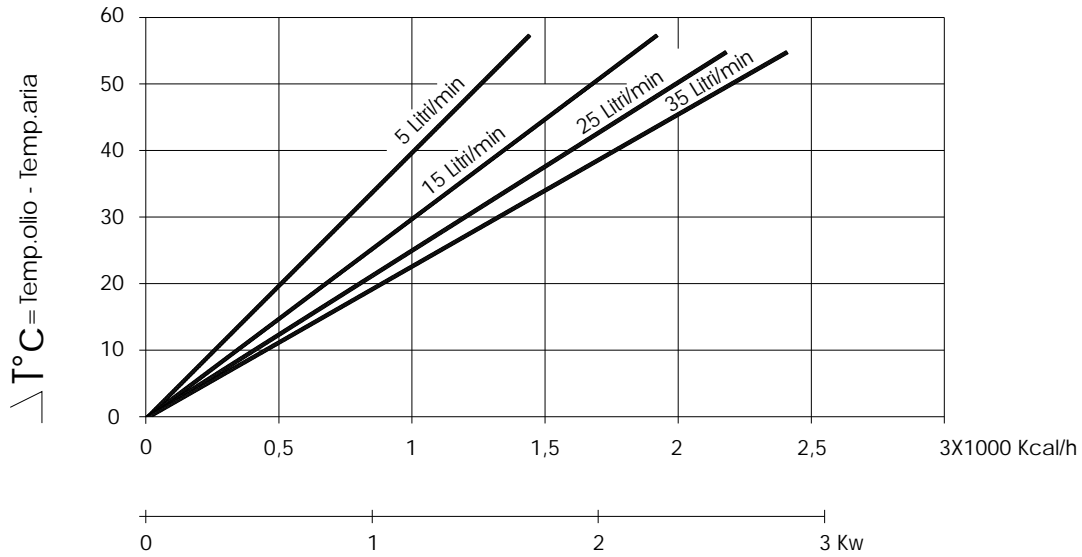
## SPARE PARTS

Pos.	Description	Code	Pos.	Description	Code
------	-------------	------	------	-------------	------

CSL 05.12.0.00			CSL 05.24.0.00		
01	Cooler	CSL05.00.0.00	01	Cooler	CSL05.00.0.00
02	Fan Motor(Air Flow Suction)	10.70112 .1	02	Fan Motor(Air Flow Suction)	10.70113 .1
02	Fan Motor(Air Flow Blowing)	10.70114 .1	02	Fan Motor(Air Flow Blowing)	10.70115 .1
04	Cowl	15.65004 .0	04	Cowl	15.65004 .0
05	Fixing Support	15.65008 .0	05	Fixing Support	15.65008 .0
06	Shock Adsorber	20.80000 .1	06	Shock Adsorber	20.80000 .1

CSL 05.22.0.00			CSL 05.38.0.00		
01	Cooler	CSL05.00.0.00	01	Cooler	CSL05.00.0.00
02	Fan Motor(Air Flow Suction)	10.70026 .1	02	Fan Motor(Air Flow Suction)	10.70025 .1
02	Fan Motor(Air Flow Blowing)	10.70028 .1	02	Fan Motor(Air Flow Blowing)	10.70027 .1
03	Safety Guard	10.70117 .1	03	Safety Guard	10.70117 .1
04	Cowl	15.65004 .0	04	Cowl	15.65004 .0
05	Fixing Support	15.65008 .0	05	Fixing Support	15.65008 .0
06	Shock Adsorber	20.80000 .1	06	Shock Adsorber	20.80000 .1

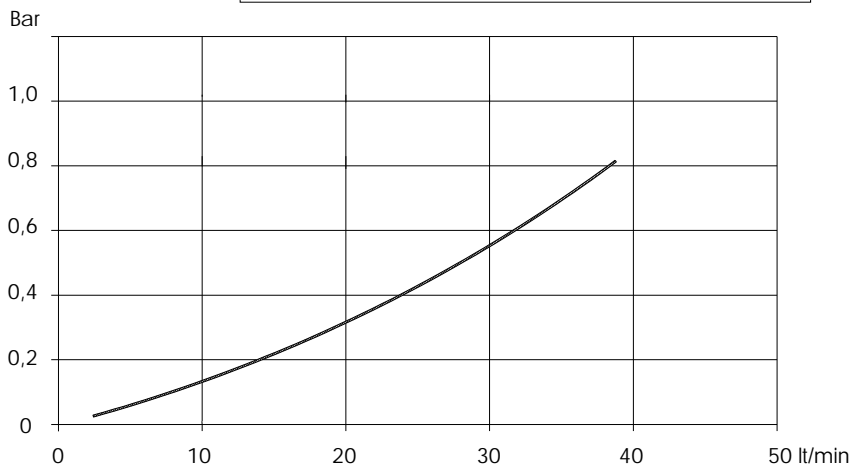
### THERMIC EFFICIENCY



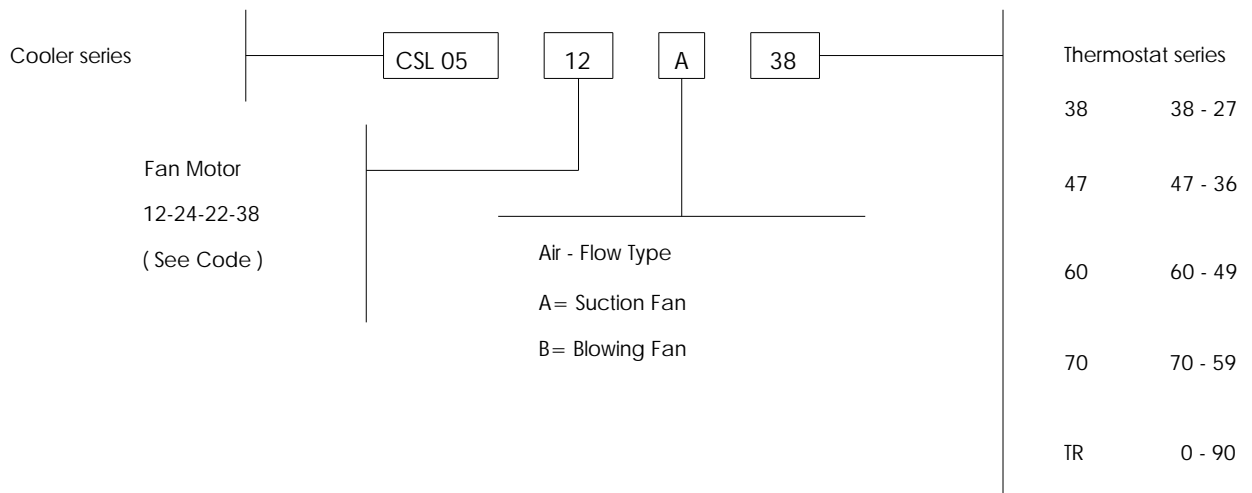
### PRESSURE DROP

In order know different viscosity , please multiply temp.oil x correction factor

CST	10	15	20	30	40	50	60	80	100
C	0,5	0,65	0,75	1,0	1,2	1,4	1,6	2,1	2,8



### CODIFICATION



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