

# NECS-FC /B 0352

Versione Software: NewELCA - Ver. 2.23.0.0  
 Versione report : 2.1.0.0  
 Versione DB : 2.53.0.0  
 Utente : Liivakant Elvis



## PERFORMANCES

COOLING MODE (GROSS VALUE)		
Cooling capacity	[kW]	<b>90,3</b>
Total power input	[kW]	32,7
EER	-	2,76

COOLING MODE (EN14511 VALUE)		
Cooling capacity	[kW]	<b>89,4</b>
Total power input	[kW]	33,6
EER	-	2,66
ESEER	-	0,00

FREE COOLING		
Cooling capacity	[kW]	<b>81,3</b>
Cooling capacity	[%]	90
Air InT	[°C]	0,0
<b>Air Tin (100%)</b>	<b>[°C]</b>	<b>-1,3</b>
Pressure drop FC	[kPa]	0,4

CONDITIONS REFERRED TO				
	TA	Evap. Tin	Evap. Tout	Glycol
	[°C]	[°C]	[°C]	[%]
COOLING	35	12,0	7,0	30

COOLING PART LOAD					
% to Peak Load	[%]	100	75	50	25
Air Temp. °C	[°C]	35,0	30,0	25,0	20,0
Cooling capacity	[kW]	90,3	67,7	45,2	22,6
Total power input	[kW]	32,7	20,3	11,6	5,94
<b>EER</b>	-	<b>2,76</b>	<b>3,34</b>	<b>3,88</b>	<b>3,81</b>

COOLING PART LOAD (EN14511)					
% to Peak Load	[%]	100	75	50	25
Air Temp. °C	[°C]	35,0	30,0	25,0	20,0
Cooling capacity	[kW]	89,4	67,1	44,7	22,4
Total power input	[kW]	33,6	20,8	11,9	6,06
<b>EER</b>	-	<b>2,66</b>	<b>3,22</b>	<b>3,77</b>	<b>3,69</b>



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## HEAT EXCHANGER USER SIDE

Type	Nr.	Connection-Type	Connect. diameter
PLATE	0	GAS	2" 1/2
			COOLING MODE (GROSS VALUE)
Evap. Tin	[°C]		12,0
Evap. Tout	[°C]		7,0
			ETHYLENE GLYCOL
Glycol	[%]		30
Fouling factor	[m <sup>2</sup> °C/W]		0,000000
Flow rate	[m <sup>3</sup> /h]		17,3
Pressure drop	[kPa]		97,7

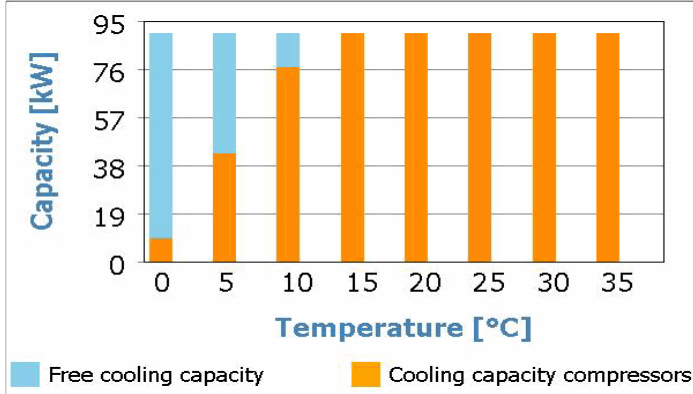
## COMPRESSORS

Type	SCROLL
Nr.	2
Nr. of capacity steps	2
Min. cap. step	50
Nr. of refrigerant circuits	1
Type of regulation	STEPS
Refrigerant	R410A

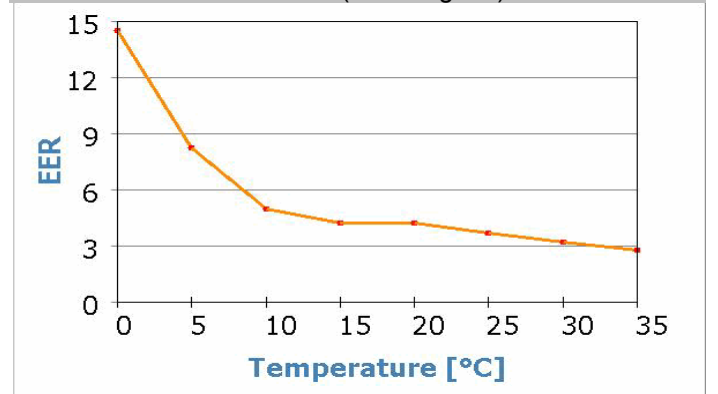
## FREE COOLING

Air temperature	[°C]	0,0	5,0	10,0	15,0	20,0	25,0	30,0	35,0
Requested capacity	[kW]	90,3	90,3	90,3	90,3	90,3	90,3	90,3	90,3
Free cooling capacity	[kW]	81,3	47,4	13,5	0,00	0,00	0,00	0,00	0,00
Cooling capacity compresso	[kW]	9,00	42,9	76,8	90,3	90,3	90,3	90,3	90,3
Absorbed Power	[kW]	6,23	10,9	18,2	21,4	21,4	24,3	28,0	32,7
EER	-	14,49	8,25	4,96	4,21	4,21	3,72	3,23	2,76

COOLING LOAD



EER UNIT (including FC)



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## COIL SECTION

Fan Type		AXIAL
Number of Fans		2
Flow rate	[m³/s]	10,79
ESP	[Pa]	0
Consumption	[kW]	2,1

## NOISE LEVELS

### SOUND POWER LEVEL

63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	TOT
[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
95	92	90	86	87	83	75	67	<b>91</b>

### SOUND PRESSURE CALCULATION IN FREE FIELD CONDITIONS

63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	TOT
[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB(A)]
63	60	58	54	55	51	43	35	<b>59</b>

Distance 10

## ELECTRICAL DATA

Power supply	[V/ ph /Hz]	400/3/50
Starting current SA	[A]	260,5
Max. running current FLA	[A]	71,6
Max. power input FLI	[kW]	43,4

## DIMENSIONS AND WEIGHTS

A - Length	[mm]	3602
B - Width	[mm]	1104
H - Height	[mm]	2175
Weight	[kg]	1310

## FREE SPACE

Electrical panel side	[mm]	1000
Opposite side of el. panel	[mm]	1000
Condensing coil side	[mm]	2000
Opposite side of cond. coil	[mm]	1000

