

# ZETA ECHOS

Chillers and heat pumps Air/water 41÷125 kW



## General

Air/Water chillers and heat pumps with axial fans and hermetic scroll compressors.

## Versions

A: Energy efficient class A

HP: Reversible heating

LE: Without evaporator, for connection to external

DS: Desuperheater

DC: Heat exchange condensor

FC: Free-cooling (see specific catalogue document)

LN: Low sound

SLN: Super low sound

## Quick facts

- ▶ Eco-friendly cooling
- ▶ A customized range
- ▶ High EER
- ▶ Patented innovation
- ▶ Efficient energy performance
- ▶ Advanced software
- ▶ Years of dependability
- ▶ Low discharge fluid temperature

## ZETA ECHOS SLN - TECHNICAL DATA

UNIT SIZE		3.2	4.2	5.2	6.2	7.2
<b>Cooling (Gross values)</b>						
Nominal cooling capacity	(1) kW	40,9	45,9	51,8	60,4	66,8
Total power input for cooling	(1),(2) kW	13,6	15,7	18,4	20,1	24,9
EER	(1)	3,01	2,92	2,82	3,00	2,69
ESEER		4,67	4,53	4,37	4,65	4,21
Efficiency class		B	B	C	B	D
<b>Cooling (EN 14511 values)</b>						
Nominal cooling capacity	(1),(8) kW	40,5	45,5	51,4	60,0	66,4
EER	(1),(8)	2,90	2,83	2,74	2,92	2,64
ESEER	(8)	4,24	4,14	4,00	4,26	4,01
Efficiency class		C	C	C	B	D
<b>Heating (Gross values)</b>						
Nominal heating capacity	(3) kW	41,6	47,4	55,5	63,4	71,0
Total power input for heating	(2),(3) kW	14,2	16,2	18,7	20,8	25,1
COP	(3)	2,93	2,93	2,97	3,05	2,83
Efficiency class		C	C	C	B	C
<b>Heating (EN 14511 values)</b>						
Nominal heating capacity	(3),(8) kW	42,0	47,8	55,9	63,8	71,3
COP	(3),(8)	2,88	2,88	2,93	3,01	2,81
Efficiency class		C	C	C	B	C
<b>Compressors</b>						
Type		Scroll				
Quantity/Cooling circuits	n°/n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Capacity steps	n°	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Total oil load	kg	6	6,6	6,6	6,6	6,6
Total refrigerant load (CH version)	kg	6,7	6,8	9	15,8	16
Total refrigerant load (/HP version)	kg	14,8	14,9	17	18,4	18,6
<b>Fans</b>						
Type		Axial				
Quantity	n°	2	2	2	3	3
Air flow	m <sup>3</sup> /h	17.000	17.000	15.000	19.000	19.000
<b>Evaporator</b>						
Type		With plates				
Quantity	n°	1	1	1	1	1
Water flow	l/h	7034	7893	8908	10387	11481
Pressure drop	kPa	65,0	55,7	54,8	51,1	35,5
Hydraulic module						
Head ratings	(6) kPa	127	108	105	108	104
Storage tank capacity	(6) l	165	165	165	200	200
Expansion vessel	l	5	5	5	18	18
<b>Noise levels</b>						
Noise power level	(4) dB(A)	76	77	78	78	79
Noise pressure level	(5) dB(A)	44	45	46	46	47
<b>Basic version dimensions and weights</b>						
Length	mm	1750	1750	2233	3234	3234
Depth	mm	1003	1003	1020	1144	1144
Height	mm	1400	1400	1738	1740	1740
Operating weight	kg	428	439	628	819	846

(1)External air temperature 35°C; evaporator ingoing-outgoing water temperature 12-7°C

(2)The total capacity is represented by the sum of the power absorbed by compressors and that absorbed by fans

(3)External air temperature 7°C BS, 6°C BU; condenser ingoing-outgoing water temperature 40-45 °C

(4)Noise power levels measured according to ISO 3744, under nominal operating conditions.

(5)Sound pressure levels measured at 10 metres from the unit in free field under nominal operating conditions, according to ISO 3744.

(6)For ST 2PS version

(8)Values in compliance with EN 14511-3:2011