



















ANL 290-650

Air-water chiller

Cooling capacity 54,7 ÷ 133,5 kW



- Standard version
- Low noise version
- Option integrated hydronic kit user side





DESCRIPTION

Air-cooled outdoor chiller designed to meet air conditioning needs in commercial complexes or industrial applications.

VERSIONS

° Standard

L Silenced

FEATURES

Operating field

Operation at full load up to 46°C external air temperature. Unit can produce chilled water up to -10°C .

Integrated hydronic kit

Integrated hydronic kit containing the main hydraulic components; available with various configurations with one pumps or storage tank to obtain a solution that allows you to save money and to facilitate installation.

Components

Water filter, flow switch, low and high pressure transducers as standard supply on all units.

Hot water production

In the configuration with desuperheater, it is also possible to produce free-hot water.

Case

The base the structure and the panels are made of steel treated with polyester paintRAL 9002.

CONTROL

MODUCONTROL control type.

The command panel of the unit allows the rapid setting of the working parameters of the machine, and their visualisation. The display consists of 4 figures and various LEDs for indicating the type of operational mode, the visualisation of the parameters set and of any alarms triggered. The card stores all the default settings and any modifications.

ACCESSORIES

AERNET: The device allows the control, the management and the remote monitoring of a Chiller with a PC, smartphone or tablet using Cloud connection. AERNET works as Master while every unit connected is configured as Slave (max. 6 unit); also, with a simple click is possible to save a log file with all the connected unit datas in the personal terminal for post analysis.

AERSET: It makes it possible to automatically compensate for the operation setting of the unit to which it is connected, based on a 0-10V MODBUS input signal. Mandatory accessory MODU-485BL.

MODU-485BL: RS-485 interface for supervision systems with MODBUS protocol.

MULTICONTROL: Allows the simultaneous control of several units (up to 4), fitted with our MODUCONTROL controller, installed in the same hydraulic system.

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.

SPLW: System water temperature sensor. In most cases the loose supplied sensors for each chiller/heat pump are sufficient. In cases of a common flow/return header this sensor can be used to control the common system supply water temperature for the chillers connected to the header, or it can be used for temperature monitoring

DCPX: Device for condensation temperature control, with continuous speed modulation of fans by using a pressure transducer.

GP: Anti-intrusion grid.

VT: Antivibration supports

FACTORY FITTED ACCESSORIES

RIF: Power factor correction. Connected in parallel to the motor allowing about 10% reduction of input current.

COMPATIBILITY WITH VMF SYSTEM

For more information about VMF system, refer to the dedicated documentation.

ACCESSORIES COMPATIBILITY

Accessories

Model	Ver	290	300	340	400	580	620	650
AERNET	0					•	•	•
AEKNEI	L	•	•	•	•	•	•	•
AFRCET	0					•	•	•
AERSET	L	•	•	•	•	•	•	•
MODIL 40FDI	0					•	•	•
MODU-485BL	L	•	•	•	•	•	•	•
MULTICONTROL	٥					•	•	•
MULTICONTRUL	L	•	•	•	•	•	•	•
nna.	٥					•	•	•
PR3	L	•	•	•	•	•	•	
CDIW (1)	0					•	•	•
SPLW (1)	L	•	•	•	•	•	•	•

⁽¹⁾ MULTICONTROL mandatory probe to enable secondary circuit management.

DCPX: Condensation control temperature

Ver	290	300	340	400	580	620	650
Fans: °							
0	-	-	-	-	DCPX83	DCPX83	DCPX83
L	-	-	-	-	As standard	As standard	As standard
Fans: M							
٥	-	-	-	-	DCPX83	DCPX83	DCPX83
L	DCPX62	DCPX62	DCPX62	DCPX63	DCPX83	DCPX83	DCPX83

The accessory cannot be fitted on the configurations indicated with - In versions with desuperheater, the DCPX is included as standard.

GP: Anti-intrusion grid

Ver	290	300	340	400	580	620	650
0	-	-	-	-	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)
L	GP3	GP3	GP3	GP3	GP2 x 2 (1)	GP2 x 2 (1)	GP2 x 2 (1)

(1) x_indicates the quantity to buy.
The accessory cannot be fitted on the configurations indicated with -

VT: Antivibration

Ver	290	300	340	400	580	620	650
Integrated hydi	onic kit: 00						
0	-	-	-	-	VT11	VT11	VT11
L	VT17	VT17	VT17	VT17	VT11	VT11	VT11
ntegrated hydi	onic kit: 01, 02, 03, 04						
0	-	-	-	-	VT11	VT11	VT11
L	VT13	VT13	VT13	VT13	VT11	VT11	VT11
ntegrated hydi	onic kit: P1, P2, P3, P4						
0	-	-	-	-	VT11	VT11	VT11
L	VT13	VT13	VT13	VT17	VT11	VT11	VT11

The accessory cannot be fitted on the configurations indicated with -

RIF: Power factor correction

Ver	290	300	340	400	580	620	650
0	-	-	-	-	RIF50	RIF72	RIF51
L	RIF32	RIF32	RIF42	RIF42	RIF50	RIF72	RIF51

The accessory cannot be fitted on the configurations indicated with - A grey background indicates the accessory must be assembled in the factory

CONFIGURATOR

1,2,3 ANL 4,5,6 Size (1) 290, 300, 340, 400, 580, 620, 650 7 Operating field 8 Standard mechanic thermostatic valve (2) Y Low temperature mechanic thermostatic valve (4) 8 Model C Motocondensing unit 9 Heat recovery ° Without heat recovery D Without heat recovery 10 Version ° Standard L Silenced 11 Coils ° Alluminium R Copper-copper S Tinned copper V Copper-painted aluminium 12 Fas ° Standard (6) J Inverter (7) M Oversized (8) 13 Power supply ° 400 V 3N ~ 50Hz 14 Soft-start ° Without Soft-Start S Without Soft-Start	Field	Description
Standard mechanic thermostatic valve (2) X Electronic thermostatic valve (3) Y Low temperature mechanic thermostatic valve (4) 8 Model Cooling only C Motocondensing unit 9 Heat recovery Without heat recovery Without heat recovery Standard U Silenced Il Silenced Il Coils Alluminium R Copper-copper S Tinned copper V Copper-painted aluminium Iz Fans Standard (6) J Inverter (7) M Oversized (8) 13 Power supply ADV Soft-start Without Soft-Start Without Soft-Start Soft-Start Without Soft-Start Storage tank with low head pump 15 Storage tank with low head pump 20 Storage tank with low head pump P1 Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head P2 Pump low head + stand-by pump Single pump low head	4,5,6	
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Y Low temperature mechanic thermostatic valve (4) 8 Model	0	Standard mechanic thermostatic valve (2)
8 Model ° Cooling only C Motocondensing unit 9 Heat recovery ° Without heat recovery D With despreheater (5) 10 Version ° Standard L Sleinced 11 Coils ° Alluminum R Copper-copper S Tinned copper V Copper-painted aluminium 12 Fans ° Standard (6) J Inverter (7) M Oversized (8) 13 Power supply ° 400V 3N ~ 50Hz 14 Soft-start ° Without Soft-Start S Wirth Soft-Start 15,16 Integrated hydronic kit 00 Without Hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump p 03 Storage tank with high head pump 04 Storage tank with high head pump P1 Single pump low h	X	Electronic thermostatic valve (3)
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9 Heat recovery D Without heat recovery D With desuperheater (5) 10 Version Slandard L Silenced 11 Coils Slandard Coper-coper S Alluminium R Copper-copper S Tinned copper V Copper-painted aluminium 12 Fans Standard (6) J Inverter (7) M Oversized (8) 13 Power supply AUOV 3N ~ 50Hz 14 Soft-start S With Soft-Start S Storage tank with low head pump O Single pump low head P P Single pump low head + stand-by pump	0	Cooling only
© Without heat recovery D With desuperheater (5) 10 Version © Standard L Silenced 11 Coils © Alluminium R Copper-copper S Inned copper V Copper-painted aluminium 12 Fans © Standard (6) J Inverter (7) M Oversized (8) 13 Power supply 0 400V 3N ~ 50Hz 14 Soft-start © Without Soft-Start S With Soft-Start S Storage tank with low head pump 02 Storage tank with low head pump 04 Storage tank with low head pump 05 Storage tank with low head pump 06 Storage tank with low head pump 07 Single pump low head P2 Pump low head + stand-by pump P3 Single pump low head P2 Pump low head + stand-by pump P3 Single pump low head P2 Pump low head + stand-by pump P3 Single pump low head	C	Motocondensing unit
Without desuperheater (5) 10 Version Standard L Silenced 11 Coils Alluminium R Copper-copper S Tinned copper V Copper-painted aluminium 12 Fans Standard (6) J Inverter (7) M Oversized (8) 13 Power supply 400 V 3N ~ 50Hz 14 Soft-start With Soft-Start S With Soft-Start S With Soft-Start O With out hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump 04 Storage tank with low head pump 05 Single pump low head P2 Pump low head + stand-by pump P3 Single pump loiw head P2 Pump low head + stand-by pump P3 Single pump low head P2 Pump low head + stand-by pump P3 Single pump loiw head P2 Pump low head + stand-by pump P3 Single pump loiw head	9	Heat recovery
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° Alluminium R Copper-copper S Tinned copper V Copper-painted alumimium 12 Fans ° Standard (6) J Inverter (7) M Oversized (8) 13 Power supply ° 400V 3N ~ 50Hz 14 Soft-start ° Without Soft-Start S With Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump 03 Storage tank with ligh head pump 04 Storage tank with high head pump 05 Single pump low head P2 Pump low head + stand-by pump	L	Silenced
R Copper-copper S Tinned copper V Copper-painted alumimium 12 Fans Standard (6) J Inverter (7) M Oversized (8) 13 Power supply 400V 3N ~ 50Hz 14 Soft-start S Without Soft-Start S Without Soft-Start Integrated hydronic kit O Without hydronic kit O1 Storage tank with low head pump O2 Storage tank with low head pump O3 Storage tank with ligh head pump O4 Storage tank with high head pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump ligh head	11	Coils
S Tinned copper V Copper-painted alumimium 12 Fans Standard (6) J Inverter (7) M Oversized (8) 13 Power supply 400V 3N ~ 50Hz 14 Soft-start Without Soft-Start S With Soft-Start S With Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump 03 Storage tank with high head pump 04 Storage tank with high head pump 05 Storage tank with high head pump 06 Storage tank with high head pump 07 Single pump low head 08 Pump low head 09 Pump low head + stand-by pump 09 Single pump low head	0	Alluminium
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J Inverter (7) M Oversized (8) 13 Power supply	12	Fans
M Oversized (8) 13 Power supply	0	Standard (6)
13 Power supply 400V 3N ~ 50Hz 14 Soft-start Without Soft-Start S With Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump 05 Storage tank with high head pump 06 Storage tank with high head pump 07 Storage tank with high head pump 08 Storage tank with high head pump 19 Single pump low head 10 P2 Pump low head + stand-by pump 11 Single pump high head	J	Inverter (7)
° 400V 3N ~ 50Hz 14 Soft-start ° Without Soft-Start 5 With Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head	M	Oversized (8)
14 Soft-start Soft-start S Without Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump Single pump high head	13	Power supply
° Without Soft-Start S With Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump Single pump high head	0	400V 3N ~ 50Hz
S With Soft-Start 15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head	14	Soft-start
15,16 Integrated hydronic kit 00 Without hydronic kit 01 Storage tank with low head pump 02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head	0	Without Soft-Start
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01 Storage tank with low head pump 02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head	15,16	Integrated hydronic kit
02 Storage tank with low head pump + stand-by pump 03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head		
03 Storage tank with high head pump 04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head		
04 Storage tank with high head pump + stand-by pump P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head	02	
P1 Single pump low head P2 Pump low head + stand-by pump P3 Single pump high head		
P2 Pump low head + stand-by pump P3 Single pump high head		
P3 Single pump high head		
P4 Pump high head + stand-by pump		
	P4	Pump high head + stand-by pump

- (1) The size up 290÷400 are only available in the silenced versions "L".

 (2) Water produced up to +4 °C.

 (3) Water produced up to +4 °C. For different temperature please contact the factory.

 (4) Water produced up to -6 °C

 (5) With this option the "X" and "Y" valvs are not compatible.

 (6) As standard in sizes from 580÷650.

 (7) Standard for size 290÷400, without useful static pressure. Option for size 580÷650 with useful static pressure.

 (8) Option available for all size.

PERFORMANCE SPECIFICATIONS

ANL - °

Size		290	300	340	400	580	620	650
Cooling performance 12 °C/7 °C (1)								
Cooling capacity	kW	-	-	-	-	111,4	124,5	133,5
Input power	kW	-	-	-	-	40,4	47,2	54,5
Cooling total input current	A	-	-	-	-	70,0	82,0	94,0
EER	W/W	-	-	-	-	2,76	2,64	2,45
Water flow rate system side	l/h	-	-	-	-	19191	21442	22988
Pressure drop system side	kPa	-	-	-	-	81	61	70

(1) Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

ANL - L

Size		290	300	340	400	580	620	650
Cooling performance 12 °C/7 °C(1)								
Cooling capacity	kW	54,7	60,0	66,0	76,3	104,5	114,6	121,4
Input power	kW	20,9	22,9	25,1	29,9	43,7	51,3	59,4
Cooling total input current	A	38,0	41,0	46,0	55,0	74,0	87,0	101,0
EER	W/W	2,62	2,61	2,63	2,56	2,39	2,24	2,04
Water flow rate system side	l/h	9415	10326	11374	13144	18006	19758	20909
Pressure drop system side	kPa	28	33	40	41	71	52	58

⁽¹⁾ Data 14511:2018; System side water heat exchanger 12 °C/7 °C; External air 35 °C

ENERGY DATA

Size			290	300	340	400	580	620	650
Cooling capacity with low leaving water	er temp (UE n	° 2016/2281)							
CLLD	0	W/W	-	-	-	-	3,96	3,92	3,90
SEER	L	W/W	3,83	3,84	3,87	3,86	3,86	3,81	3,81
	0	%	-	-	-	-	155,50	153,70	152,80
ηςς		%	150.00	150.60	151.70	151.20	151.20	149.30	149.40

ELECTRIC DATA

Size			290	300	340	400	580	620	650
400V 3N ~ 50Hz									
Electric data									
Mariana (FLA)	0	A	-	-	-	-	85,0	99,0	112,0
Maximum current (FLA)	L	А	49,0	53,0	58,0	69,0	85,0	99,0	112,0
DI	0	А	-	-	-	-	262,0	308,0	320,0
Peak current (LRA)		A	130.0	131.0	162.0	183.0	262.0	308.0	320.0

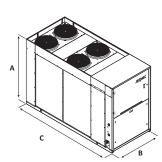
GENERAL TECHNICAL DATA

Size			290	300	340	400	580	620	650
Compressor									
Tuno	0	type	-	-	-	-	Scroll	Scroll	Scroll
Туре	L	type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Number	0	no.	-	-	-	-	2	2	2
Number	L	no.	2	2	2	2	2	2	2
Circuits	0	no.	-	-	-	-	1	1	1
CIFCUILS	L	no.	1	1	1	1	1	1	1
Defriesment	0	type	-	-	-	-	R410A	R410A	R410A
Refrigerant	L	type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Potential global heating	°,L	GWP	2088kgCO₂eq	2088kgCO ₂ eq	2088kgCO₂eq	2088kgCO₂eq	2088kgCO ₂ eq	2088kgCO ₂ eq	2088kgCO₂eq
	0	kg	-	-	-	-	19,1	18,5	19,0
Refrigerant charge	L	kg	9,0	10,7	10,7	10,4	19,1	18,5	19,0
System side heat exchanger						,	•		,
-	0	type	-	-	-	-	Brazed plate	Brazed plate	Brazed plate
Туре	L	type	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
	0	no.	-	-	-	-	1	1	1
Number		no.	1	1	1	1	1	1	1
Hydraulic connections								-	-
•	0	Туре	-	-	-	-	Grooved joints	Grooved joints	Grooved joints
Connections (in/out)	L	Type	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints	Grooved joints
	0	Ø	-	-	-	-	2 1/2"	2 1/2"	2 ½"
Sizes (in/out)		Ø	2 ½"	2 ½"	2 1/2"	2 1/2"	2 1/2"	2 ½"	2 ½"
Fan									
	0	type	-	-	_	_	axials	axials	axials
Туре	L	type	axials	axials	axials	axials	axials	axials	axials
_	0	type	-	-	-		On-Off	On-Off	On-Off
Fan motor		type	Inverter	Inverter	Inverter	Inverter	On-Off	On-Off	On-Off
	0	no.	-	-	-	-	2	2	2
Number		no.	4	4	4	6	2	2	2
	0	m³/h	-	-	-	-	35900	35900	35900
Air flow rate		m³/h	15600	15600	15600	20700	35900	35900	35900
Sound data calculated in cooling mo	de (1)		15000	15000	15000	20700	33700	33700	33700
-	0	dB(A)	-	-	_	_	82,4	82,8	83,2
Sound power level		dB(A)	73,4	73,5	74,2	75,1	77,2	77,6	78,0
			73,1	, 5,5	, ı, <u>-</u>	, ,, ,			
Sound pressure level (10 m)	0	dB(A)	-	_	-	-	50,5	50,9	51,3

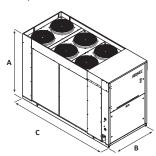
⁽¹⁾ Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS

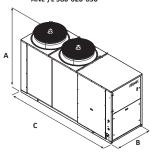
ANL°/L 290-300-340











Size			290	300	340	400	580	620	650
Dimensions and weights									
Λ.	0	mm	-	-	-	-	1875	1875	1875
A .	L	mm	1605	1605	1605	1875	1875	1875	1875
D	0	mm	-	-	-	-	1100	1100	1100
	L	mm	1100	1100	1100	1100	1100	1100	1100
•	0	mm	-	-	-	-	3200	3200	3200
	L	mm	2450	2450	2450	2950	3200	3200	3200
Wainlet annuts	0	kg	-	-	-	-	854	925	970
Weight empty	L	kg	628	636	648	666	854	925	970

All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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