

PERFORMANCE SPECIFICATIONS 23 °C/ 18 °C - 30 °C/ 35 °C

ANL - (H°) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

Size		021	026	031	041	051	071	081	091	103	153	203
Cooling performance 23 °C/ 18 °C (1)												
Cooling capacity	kW	6,9	7,5	9,0	11,6	16,1	19,7	24,2	26,0	30,8	38,3	48,5
Input power	kW	2,0	2,1	2,6	3,4	4,5	6,1	7,0	7,1	9,6	11,6	14,8
Cooling total input current - 400V	A	3,8	4,3	4,9	6,4	9,0	10,0	13,0	13,0	16,0	19,0	26,0
Cooling total input current - 230V	A	6,6	7,6	8,4	11,0	-	-	-	-	-	-	-
EER	W/W	3,50	3,50	3,45	3,36	3,54	3,21	3,47	3,68	3,21	3,31	3,27
Water flow rate system side	l/h	1189	1293	1564	2002	2784	3407	4189	4506	5338	6636	8410
Pressure drop system side	kPa	44	46	47	44	50	52	65	88	81	84	92
Heating performance 30 °C/ 35 °C (2)												
Heating capacity	kW	6,5	7,3	8,8	10,3	13,8	18,1	21,9	23,1	27,3	37,0	43,9
Input power	kW	1,7	1,9	2,3	2,7	3,5	4,7	5,4	5,7	7,8	9,9	11,3
Heating total input current - 400V	A	3,3	3,8	4,6	6,0	8,1	9,1	11,0	12,0	15,0	17,0	22,0
Heating total input current - 230V	A	5,6	6,5	8,0	10,0	-	-	-	-	-	-	-
COP	W/W	3,88	3,96	3,85	3,77	3,90	3,89	4,08	4,05	3,49	3,74	3,87
Water flow rate system side	l/h	1120	1265	1518	1767	2385	3126	3782	3979	4709	6381	7553
Pressure drop system side	kPa	39	43	44	40	41	42	57	78	76	76	84

(1) Data 14511:2018; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C

(2) Data 14511:2018; System side water heat exchanger 30 °C/ 35 °C; Outside air 7 °C d.b. / 6 °C w.b.

ANL - (HA/HP) - (400V 3N ~ 50Hz / 230V ~ 50Hz)

Size		021	026	031	041	051	071	081	091	103	153	203
Cooling performance 23 °C/ 18 °C (1)												
Cooling capacity	kW	6,9	7,5	9,1	11,7	16,2	19,8	24,4	26,2	31,1	38,8	49,1
Input power	kW	1,9	2,1	2,6	3,4	4,5	6,0	6,9	6,9	9,7	11,6	14,8
Cooling total input current - 400V	A	4,2	4,7	5,2	6,8	9,7	11,0	13,0	14,0	17,0	21,0	28,0
Cooling total input current - 230V	A	7,2	8,2	9,0	12,0	-	-	-	-	-	-	-
EER	W/W	3,63	3,63	3,58	3,46	3,62	3,28	3,55	3,81	3,21	3,36	3,32
Water flow rate system side	l/h	1189	1293	1564	2002	2784	3407	4189	4506	5338	6636	8410
Useful head system side	kPa	63,0	63,0	60,0	51,0	60,0	53,0	31,0	24,0	47,0	63,0	41,0
Heating performance 30 °C/ 35 °C (2)												
Heating capacity	kW	6,4	7,3	8,7	10,2	13,7	18,0	21,8	22,9	27,1	36,6	43,3
Input power	kW	1,6	1,8	2,2	2,7	3,5	4,6	5,3	5,6	8,0	10,0	11,4
Heating total input current - 400V	A	3,6	4,1	5,0	6,4	8,8	9,8	12,0	13,0	16,0	19,0	24,0
Heating total input current - 230V	A	6,2	7,1	8,6	11,0	-	-	-	-	-	-	-
COP	W/W	3,93	4,02	3,91	3,81	3,90	3,91	4,11	4,11	3,40	3,67	3,81
Water flow rate system side	l/h	1120	1265	1518	1767	2385	3126	3782	3979	4709	6381	7553
Useful head system side	kPa	67,0	64,0	62,0	55,0	69,0	61,0	41,0	34,0	55,0	81,0	53,0

(1) Data 14511:2018; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C

(2) Data 14511:2018; System side water heat exchanger 30 °C/ 35 °C; Outside air 7 °C d.b. / 6 °C w.b.

ANL - (HN/HQ) - (400V 3N ~ 50Hz)

Size		021	026	031	041	051	071	081	091	103	153	203
Cooling performance 23 °C/ 18 °C (1)												
Cooling capacity	kW	-	-	-	-	16,3	19,9	24,5	26,3	31,1	38,7	49,0
Input power	kW	-	-	-	-	4,6	6,2	7,0	7,0	10,2	11,9	15,2
Cooling total input current - 400V	A	-	-	-	-	10,0	11,0	14,0	14,0	18,0	22,0	28,0
EER	W/W	-	-	-	-	3,54	3,23	3,51	3,76	3,07	3,25	3,23
Water flow rate system side	l/h	-	-	-	-	2784	3407	4189	4506	5338	6636	8410
Useful head system side - ver. "Q"	kPa	-	-	-	-	136	135	114	108	79	146	114
Useful head system side - ver. "N"	kPa	-	-	-	-	-	-	-	-	79	146	114
Heating performance 30 °C/ 35 °C (2)												
Heating capacity	kW	-	-	-	-	13,6	17,9	21,7	22,8	27,0	36,6	43,4
Input power	kW	-	-	-	-	3,6	4,7	5,4	5,7	8,4	10,2	11,7
Heating total input current - 400V	A	-	-	-	-	9,1	10,0	13,0	13,0	17,0	19,0	25,0
COP	W/W	-	-	-	-	3,75	3,79	4,00	4,01	3,22	3,57	3,71
Water flow rate system side	l/h	-	-	-	-	2385	3126	3782	3979	4709	6381	7553
Useful head system side - ver. "Q"	kPa	-	-	-	-	149	146	125	119	92	159	129
Useful head system side - ver. "N"	kPa	-	-	-	-	-	-	-	-	92	159	129

(1) Data 14511:2018; System side water heat exchanger 23 °C/ 18 °C; External air 35 °C

(2) Data 14511:2018; System side water heat exchanger 30 °C/ 35 °C; Outside air 7 °C d.b. / 6 °C w.b.

ENERGY DATA

Size			021	026	031	041	051	071	081	091	103	153	203
Power supply: °													
Cooling capacity with low leaving water temp (UE n° 2016/2281)													
SEER	°	W/W	3,13	3,19	3,28	3,34	3,76	3,49	3,80	3,91	3,58	3,74	3,73
	A,P	W/W	3,29	3,36	3,45	3,50	3,89	3,69	3,99	4,16	3,55	3,53	3,55
	N	W/W	-	-	-	-	-	-	-	-	3,14	3,48	3,53
	Q	W/W	-	-	-	-	3,30	3,24	3,53	3,75	3,14	3,48	3,53
ηsc	°	%	122,00	125,00	128,00	131,00	147,00	137,00	149,00	153,00	140,00	146,00	146,00
	A,P	%	129,00	131,00	135,00	137,00	153,00	145,00	157,00	163,00	139,00	138,00	139,00
	N	%	-	-	-	-	-	-	-	-	123,00	136,00	138,00
	Q	%	-	-	-	-	129,00	127,00	138,00	147,00	123,00	136,00	138,00
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (1)													
Pdesignh	°	kW	6,00	6,00	8,00	9,00	13,00	16,00	20,00	21,00	25,00	33,00	40,00
	A,P	kW	6,00	6,00	8,00	9,00	12,00	16,00	20,00	21,00	24,00	33,00	39,00
	N	kW	-	-	-	-	-	-	-	-	24,00	33,00	39,00
	Q	kW	-	-	-	-	12,00	16,00	19,00	21,00	24,00	33,00	39,00
SCOP	°		3,30	3,30	3,33	3,28	3,43	3,43	3,58	3,50	3,53	3,58	3,70
	A,P		3,40	3,40	3,40	3,35	3,48	3,48	3,60	3,53	3,45	3,45	3,60
	N		-	-	-	-	-	-	-	-	3,23	3,35	3,53
	Q		-	-	-	-	3,23	3,28	3,43	3,40	3,23	3,35	3,53
ηsh	°	%	129,00	129,00	130,00	128,00	134,00	134,00	140,00	137,00	138,00	140,00	145,00
	A,P	%	133,00	133,00	133,00	131,00	136,00	136,00	141,00	138,00	135,00	135,00	141,00
	N	%	-	-	-	-	-	-	-	-	126,00	131,00	138,00
	Q	%	-	-	-	-	126,00	128,00	134,00	133,00	126,00	131,00	138,00
Efficiency energy class	°		A+	A+	A+	A+	A+	A+	A+	A+	A+	A++	A++
	A,P		A+	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
	N		-	-	-	-	-	-	-	-	A+	A+	A+
	Q		-	-	-	-	A+	A+	A+	A+	A+	A+	A+

(1) Efficiencies for low temperature applications (35 °C)

ELECTRIC DATA

Size			021	026	031	041	051	071	081	091	103	153	203
Power supply: °													
Electric data													
Maximum current (FLA)	°	A	7,0	7,0	7,7	9,7	11,3	13,5	16,3	17,3	22,0	26,0	32,0
	A,P	A	7,7	7,7	8,4	10,4	13,3	15,5	18,3	19,3	23,9	29,1	35,1
	N	A	-	-	-	-	-	-	-	-	26,2	30,2	36,2
	Q	A	-	-	-	-	14,0	13,5	19,0	20,0	26,2	30,2	36,2
Peak current (LRA)	°	A	27,5	33,5	36,7	49,7	65,3	75,3	102,3	96,3	76,0	87,0	117,0
	A,P	A	28,2	34,2	37,4	50,4	67,3	75,3	104,3	98,3	77,9	90,1	120,1
	N	A	-	-	-	-	-	-	-	-	80,2	91,2	121,2
	Q	A	-	-	-	-	68,0	75,3	105,0	99,0	80,2	91,2	121,2
Power supply: M													
Electric data													
Maximum current (FLA)	°	A	17,5	17,5	20,7	24,7	-	-	-	-	-	-	-
	A,P	A	18,5	18,5	20,5	25,6	-	-	-	-	-	-	-
	N,Q	A	-	-	-	-	-	-	-	-	-	-	-
Peak current (LRA)	°	A	59,5	62,5	83,7	98,7	-	-	-	-	-	-	-
	A,P	A	60,5	63,5	84,5	99,6	-	-	-	-	-	-	-
	N,O	A	-	-	-	-	-	-	-	-	-	-	-

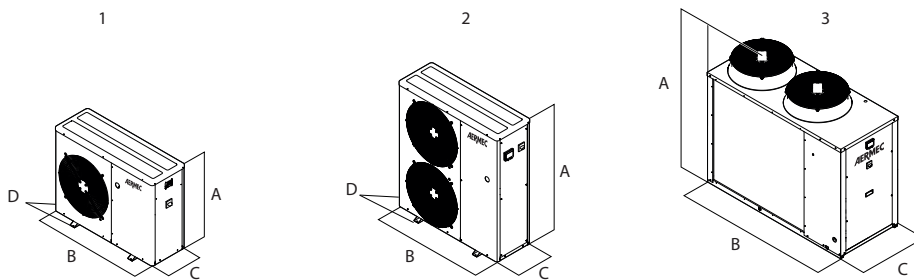
GENERAL TECHNICAL DATA

Size		021	026	031	041	051	071	081	091	103	153	203	
Compressor													
Type	type							Scroll					
Compressor regulation	Type							On-Off					
Number	no.	1	1	1	1	1	1	1	1	2	2	2	
Circuits	no.	1	1	1	1	1	1	1	1	1	1	1	
Refrigerant	type							R410A					
Refrigerant charge (1)	kg	1,8	1,8	2,0	2,0	2,9	2,9	3,1	3,9	4,6	5,4	5,7	
System side heat exchanger													
Type	type							Braze plate					
Number	no.	1	1	1	1	1	1	1	1	1	1	1	
Hydraulic connections													
Connections (in/out)	Type							Gas - F					
Sizes (in/out)	Ø							1" 1/4					
Fan													
Type	type							Axial					
Fan motor	type	Asynchronous	Asynchronous	Asynchronous	Inverter	Inverter	Inverter	Inverter	Inverter	Asynchronous	Asynchronous	Asynchronous	
Number	no.	1	1	1	1	1	2	2	2	2	2	2	
Air flow rate	m³/h	2500	2500	3500	3500	7200	7200	7300	7200	14000	13500	13500	
Sound data calculated in cooling mode (2)													
Sound power level	dB(A)	61,0	61,0	68,0	68,0	69,0	69,0	69,0	68,0	76,0	77,0	78,0	
Sound pressure level (10 m)	dB(A)	29,8	29,8	36,8	36,8	37,6	37,6	37,6	36,6	44,5	45,5	46,5	

(1) The load indicated in the table is an estimated and preliminary value. The final value of the refrigerant load is indicated on the unit's technical label. For further information contact the office.

(2) 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



- 1 ANL 021 - 041
- 2 ANL 051 - 091
- 3 ANL 103 - 203

Size		021	026	031	041	051	071	081	091	103	153	203
Dimensions and weights												
A	°P	mm	1000	1000	1000	1000	1252	1252	1252	1252	1450	1450
	A	mm	1015	1015	1015	1015	1281	1281	1281	1281	1450	1450
	N	mm	-	-	-	-	-	-	-	-	1450	1450
	Q	mm	-	-	-	-	1281	1281	1281	1281	1450	1450
B	°P	mm	900	900	900	900	1124	1124	1124	1124	1750	1750
	A	mm	1124	1124	1124	1124	1165	1165	1165	1165	1750	1750
	N	mm	-	-	-	-	-	-	-	-	1750	1750
	Q	mm	-	-	-	-	1165	1165	1165	1165	1750	1750
C	°P	mm	310	310	310	310	384	384	384	384	750	750
	A	mm	384	384	384	384	550	550	550	550	750	750
	N	mm	-	-	-	-	-	-	-	-	750	750
	Q	mm	-	-	-	-	550	550	550	550	750	750
D	°P	mm	354	354	354	354	428	428	428	428	-	-
	A	mm	428	428	428	428	-	-	-	-	-	-
	N	mm	-	-	-	-	-	-	-	-	-	-
	Q	mm	-	-	-	-	-	-	-	-	-	-
Empty weight	°	kg	86	86	86	86	120	120	120	156	270	329
	A	kg	103	103	103	103	147	147	183	183	338	400
	N	kg	-	-	-	-	-	-	-	-	338	400
	P	kg	91	91	91	91	127	127	163	163	288	350
	Q	kg	-	-	-	-	147	147	183	183	338	400

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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