



Unit Heaters
AXIL EC



NOMENCLATURE

AXIL EC / AXILF EC

AXIL EC	Hot water
AXILF EC	Hot/chilled water

4

Cabinet size

4

5

6

9

0 2

AXIL EC AXILF EC	Number of Rows 2R, 3R, 4R
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MAIN COMPONENTS

Motor ventilator made up of 3 elements:

- fan
- motor
- finger proof guard also acts as the main support and fixing frame. This galvanized steel frame is mounted onto the main casing via residually anti-vibration rubber mountings.

Casing

The casing is manufactured from galvanized prepainted steel finished in a light grey colour (RAL 9002).

The adjustable louvres are held firm by spring loaded pivots.

Fourway distribution is achieved by the addition of a second of the unit generally for downward application.

Coil

Heating and cooling

- copper tubes
- aluminium fins

For Cooling only: the heat exchanger is not suitable for use in corrosive atmospheres or in environments where aluminium may be subject to corrosion.

Electronic motor

Single phase permanent magnet brushless electronic motor, IP 44 protection and class B insulation. It is controlled with reconstructed current according to a sinusoidal wave.

The inverter board that controls the motor operation is powered by 230 Volt, single-phase and, with a switching system, it generates a three-phase frequency modulated, wave form power supply.

The electric power supply required for the machine is therefore single-phase with voltage of **230 - 240 V** and frequency of **50 - 60 Hz**.

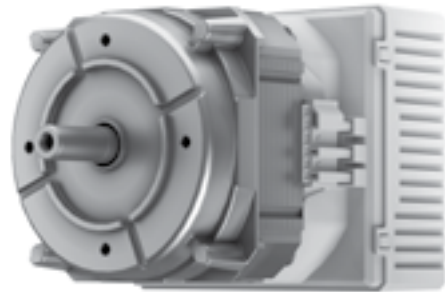
Helicoidal fan

The fan, made of plastic material with glass reinforced plastic for the sizes 2-4-6 and of aluminium for the size 9, has a high-capacity profile that provides the maximum air volume with the minimum energy consumption.

The finger proof guard is painted with electroplating treatment, that ensures more protection against corrosion.

The air flow is uniformly distributed through the whole coil and consequently the unit is very quiet.

Electronic motor



Helicoidal fan



MAIN PERFORMANCES AND TECHNICAL CHARACTERISTICS

Heating mode

Entering air temperature: 15 °C

MODEL		AXIL EC 402						AXIL EC 403						AXIL EC 404					
Inverter power		1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10
Speed	rpm	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300
Air flow	m ³ /h	740	915	1240	1570	1915	2070	700	865	1175	1485	1815	1960	635	785	1070	1350	1650	1780
WT=45/40°C Heating emission	kW	3,43	3,94	4,77	5,50	6,18	6,50	4,19	4,87	6,03	7,01	7,97	8,30	4,55	5,35	6,74	7,92	9,10	9,52
WT=45/40°C Leaving air temperature	°C	28,5	27,6	26,2	25,2	24,4	24,1	32,6	31,5	30,0	28,8	27,8	27,5	36,0	35,0	33,4	32,2	31,1	30,8
WT=65/55°C Heating emission	kW	5,62	6,46	7,81	9,01	10,11	10,59	6,88	7,99	9,88	11,49	13,05	13,60	7,49	8,80	11,06	13,02	14,93	15,60
WT=65/55°C Leaving air temperature	°C	37,2	35,6	33,4	31,8	30,4	29,9	43,9	42,1	39,6	37,7	36,1	35,5	49,6	47,9	45,3	43,3	41,5	40,9
WT=85/65°C Heating emission	kW	7,37	8,44	10,19	11,72	13,16	13,74	9,07	10,51	12,95	15,03	17,05	17,75	9,94	11,65	14,58	17,11	19,57	20,48
WT=85/65°C Leaving air temperature	°C	44,0	41,9	39,0	36,8	35,0	34,4	53,1	50,7	47,2	44,7	42,5	41,8	60,9	58,5	54,9	52,1	49,7	49,4
Fan	W	17,0	22,0	42,0	77,0	132,0	157,0	17,0	22,0	42,0	77,0	132,0	157,0	17,0	22,0	42,0	77,0	132,0	157,0
Sound power (Lw)	dB(A)	48,0	52,5	61,5	66,5	70,5	72,0	48,0	52,5	61,5	66,5	70,5	72,0	48,0	52,5	61,5	66,5	70,5	72,0
Sound pressure (Lp) ⁽¹⁾	dB(A)	26,0	30,5	39,5	44,5	48,5	50,0	26,0	30,5	39,5	44,5	48,5	50,0	26,0	30,5	39,5	44,5	48,5	50,0
Wall installation : Throw	m	5,0	5,5	6,5	7,0	8,0	8,5	5,0	5,5	6,5	7,0	8,0	8,5	4,5	5,0	6,0	6,5	7,5	8,0
Wall installation : Height	m	2,5 ÷ 4																	

MODEL		AXIL EC 502						AXIL EC 503						AXIL EC 504					
Inverter power		1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10
Speed	rpm	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300
Air flow	m ³ /h	1170	1420	1925	2440	2920	3145	1110	1345	1825	2310	2765	2980	1010	1225	1660	2100	2515	2710
WT=45/40°C Heating emission	kW	5,61	6,39	7,75	8,97	9,97	10,43	6,77	7,75	9,56	11,16	12,56	13,16	7,37	8,53	10,69	12,65	14,35	15,09
WT=45/40°C Leaving air temperature	°C	29,0	28,1	26,7	25,7	24,9	24,7	32,8	31,9	30,4	29,2	28,3	27,9	36,3	34,4	33,9	32,7	31,7	31,3
WT=65/55°C Heating emission	kW	9,21	10,46	12,69	14,68	16,33	17,06	11,12	12,73	15,67	18,32	20,60	21,56	12,13	14,03	17,55	20,79	23,58	24,76
WT=65/55°C Leaving air temperature	°C	38,0	36,5	34,2	32,6	31,3	30,8	44,3	42,7	40,2	38,3	36,8	36,2	50,1	48,6	46,1	44,1	42,4	41,8
WT=85/65°C Heating emission	kW	12,17	13,81	16,71	19,27	21,43	22,38	14,72	16,81	20,65	24,06	27,00	28,24	16,19	18,67	23,29	27,47	31,08	32,65
WT=85/65°C Leaving air temperature	°C	45,4	43,4	40,4	38,1	36,4	35,8	53,7	51,6	48,2	45,6	43,6	42,8	61,8	59,7	56,2	53,4	51,2	50,3
Fan	W	19,0	29,0	63,0	119,0	192,0	232,0	19,0	29,0	63,0	119,0	192,0	232,0	19,0	29,0	63,0	119,0	192,0	232,0
Sound power (Lw)	dB(A)	53,5	58,5	66,5	72,5	77,0	79,0	53,5	58,5	66,5	72,5	77,0	79,0	53,5	58,5	66,5	72,5	77,0	79,0
Sound pressure (Lp) ⁽¹⁾	dB(A)	31,5	36,5	44,5	50,5	55,0	57,0	31,5	36,5	44,5	50,5	55,0	57,0	31,5	36,5	44,5	50,5	55,0	57,0
Wall installation : Throw	m	6,5	7,5	9,0	11,0	12,5	13,0	6,5	7,5	9,0	11,0	12,5	13,0	6,0	7,0	8,5	10,0	11,5	12,0
Wall installation : Height	m	3 ÷ 4,5																	

(1) The sound pressure levels dB(A) are measured at a distance of 5 m, directional factor Q = 2, compliant with the EN 3744 standard.

WT Water temperature

Heating mode

MODEL		AXIL EC 602						AXIL EC 603						AXIL EC 604					
Inverter power		1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10
Speed	rpm	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300
Air flow	m ³ /h	1760	2150	2915	3695	4430	4780	1670	2035	2760	3500	4200	4530	1520	1850	2510	3180	3820	4120
WT=45/40°C Heating emission	kW	8,60	9,81	11,90	13,75	15,31	15,99	10,26	11,80	14,58	17,08	19,22	20,15	11,12	12,95	16,25	19,28	21,87	23,03
WT=45/40°C Leaving air temperature	°C	29,3	28,3	26,9	25,8	25,1	24,7	33,0	32,0	30,5	29,3	28,3	28,0	36,4	35,5	34,0	32,7	31,7	31,3
WT=65/55°C Heating emission	kW	14,10	16,08	19,46	22,51	25,07	26,17	16,85	19,41	23,91	28,01	31,48	33,01	18,32	21,31	26,07	31,67	35,95	37,77
WT=65/55°C Leaving air temperature	°C	38,4	36,8	34,5	32,8	31,5	31,0	44,5	43,0	40,4	38,4	36,9	36,3	50,3	48,7	46,2	44,1	42,5	41,8
WT=85/65°C Heating emission	kW	18,53	21,10	25,48	29,40	32,66	34,13	22,39	25,70	31,61	36,09	41,47	43,47	24,50	28,41	35,49	41,96	47,56	50,00
WT=85/65°C Leaving air temperature	°C	45,8	43,7	40,5	38,2	36,5	35,8	54,3	52,0	48,6	45,9	43,8	43,0	62,3	60,0	56,5	53,6	51,4	50,5
Fan	W	29,0	43,0	99,0	195,0	322,0	393,0	29,0	43,0	99,0	195,0	322,0	393,0	29,0	43,0	99,0	195,0	322,0	393,0
Sound power (Lw)	dB(A)	57,5	62,5	70,5	76,5	81,0	83,0	57,5	62,5	70,5	76,5	81,0	83,0	57,5	62,5	70,5	76,5	81,0	83,0
Sound pressure (Lp) ⁽¹⁾	dB(A)	35,5	40,5	48,5	54,5	59,0	61,0	35,5	40,5	48,5	54,5	59,0	61,0	35,5	40,5	48,5	54,5	59,0	61,0
Wall installation : Throw	m	6,5	8,0	10,5	13,0	15,5	16,5	6,5	8,0	10,5	13,0	15,5	16,5	6,0	7,5	9,5	12,0	14,5	15,5
Wall installation : Height	m	3 ÷ 5																	

MODEL		AXIL EC 902						AXIL EC 903						AXIL EC 904					
Inverter power		1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10
Speed	rpm	600	635	710	785	860	950	600	635	710	785	860	950	600	635	710	785	860	950
Air flow	m ³ /h	5020	5310	5930	6550	7165	7850	4760	5030	5620	6210	6790	7440	4430	4700	5275	5855	6430	7085
WT=45/40°C Heating emission	kW	22,98	23,80	25,51	27,13	28,67	30,27	27,98	29,07	31,35	33,52	35,57	37,78	31,01	32,43	35,29	38,06	40,67	43,53
WT=45/40°C Leaving air temperature	°C	28,3	28,1	27,5	27,1	26,7	26,2	32,2	31,9	31,3	30,8	30,3	29,8	35,5	35,2	34,6	34,0	33,5	33,0
WT=65/55°C Heating emission	kW	37,62	39,00	41,77	44,44	46,95	49,60	15,96	47,73	51,50	55,04	58,37	61,97	51,02	53,31	58,03	62,55	66,81	71,49
WT=65/55°C Leaving air temperature	°C	36,9	36,4	35,6	34,8	34,1	33,4	43,2	42,8	41,8	40,9	40,1	39,4	48,7	48,2	47,1	46,2	45,4	44,5
WT=85/65°C Heating emission	kW	49,33	51,13	54,74	58,17	61,37	64,76	60,62	62,89	67,77	72,34	76,64	81,28	67,71	70,62	76,80	82,64	88,20	94,21
WT=85/65°C Leaving air temperature	°C	43,7	43,1	42,0	40,9	40,0	39,1	52,2	51,6	50,3	49,1	48,0	47,0	59,7	58,9	57,6	56,3	55,1	53,9
Fan	W	135,0	155,0	207,0	271,0	345,0	450,0	135,0	155,0	207,0	271,0	345,0	450,0	135,0	155,0	207,0	271,0	345,0	450,0
Sound power (Lw)	dB(A)	65,0	70,0	75,0	79,0	81,0	84,0	65,0	70,0	75,0	79,0	81,0	84,0	65,0	70,0	75,0	79,0	81,0	84,0
Sound pressure (Lp) ⁽¹⁾	dB(A)	43,0	48,0	53,0	57,0	59,0	62,0	43,0	48,0	53,0	57,0	59,0	62,0	43,0	48,0	53,0	57,0	59,0	62,0
Wall installation : Throw	m	13,0	14,0	16,5	18,5	21,0	23,0	13,0	14,0	16,5	18,5	21,0	23,0	11,0	12,5	15,0	17,5	19,5	22,0
Wall installation : Height	m	3,5 ÷ 5,5																	

(1) The sound pressure levels dB(A) are measured at a distance of 5 m, directional factor Q = 2, compliant with the EN 3744 standard.
WT Water temperature

Cooling mode

Entering air temperature: 28 °C - R.H.: 55 %

MODEL		AXILF EC 403			AXILF EC 404		
Inverter power		1	2	4	1	2	4
Speed	rpm	500	600	800	500	600	800
Air flow	m ³ /h	700	865	1175	635	785	1070
WT 7/12°C - ΔT=5°C Total emission	kW	3,53	3,96	4,65	4,08	4,64	5,59
WT 7/12°C - ΔT=5°C Sensible emission	kW	2,31	2,66	3,25	2,57	2,98	3,71
WT 7/12°C - ΔT=5°C Leaving air temperature	°C	17,90	18,60	19,60	15,60	16,40	17,40
WT 11/15°C - ΔT=4°C Total emission	kW	2,50	2,82	3,29	2,89	3,29	3,93
WT 11/15°C - ΔT=4°C Sensible emission	kW	1,99	2,33	2,90	2,16	2,54	3,21
WT 11/15°C - ΔT=4°C Leaving air temperature	°C	19,30	19,80	20,50	17,60	18,10	18,80
WT 9/14°C - ΔT=5°C Total emission	kW	2,83	3,19	3,74	3,31	3,75	4,48
WT 9/14°C - ΔT=5°C Sensible emission	kW	2,07	2,40	2,99	2,29	2,68	3,35
WT 9/14°C - ΔT=5°C Leaving air temperature	°C	18,90	19,50	20,20	17,00	17,60	18,40
Fan	W	17,0	22,0	42,0	17,0	22,0	42,0
Sound power (Lw)	dB(A)	48,0	52,5	61,5	48,0	52,5	61,5
Sound pressure (Lp) ⁽¹⁾	dB(A)	26,0	30,5	39,5	26,0	30,5	39,5
Wall installation : Throw	m	5,0	5,5	6,5	4,5	5,0	6,0
Wall installation : Height	m	2,5 ÷ 4					

MODEL		AXILF EC 503			AXILF EC 504		
Inverter power		1	2	4	1	2	4
Speed	rpm	500	600	800	500	600	800
Air flow	m ³ /h	1110	1345	1825	1010	1225	1660
WT 7/12°C - ΔT=5°C Total emission	kW	6,21	6,90	8,11	7,19	8,11	9,71
WT 7/12°C - ΔT=5°C Sensible emission	kW	3,99	4,53	5,52	4,41	5,06	6,25
WT 7/12°C - ΔT=5°C Leaving air temperature	°C	17,00	17,70	18,70	14,70	15,40	16,40
WT 11/15°C - ΔT=4°C Total emission	kW	4,42	4,90	5,77	11,12	12,73	15,67
WT 11/15°C - ΔT=4°C Sensible emission	kW	3,39	3,89	4,85	5,14	5,78	6,90
WT 11/15°C - ΔT=4°C Leaving air temperature	°C	18,70	19,20	19,90	3,68	4,25	5,33
WT 9/14°C - ΔT=5°C Total emission	kW	5,05	5,64	6,45	5,91	6,63	7,90
WT 9/14°C - ΔT=5°C Sensible emission	kW	3,56	4,08	5,01	3,92	4,51	5,62
WT 9/14°C - ΔT=5°C Leaving air temperature	°C	18,20	18,70	19,60	16,20	16,70	17,60
Fan	W	19,0	29,0	63,0	19,0	29,0	63,0
Sound power (Lw)	dB(A)	53,5	58,5	66,5	53,5	58,5	66,5
Sound pressure (Lp) ⁽¹⁾	dB(A)	31,5	36,5	44,5	31,5	36,5	44,5
Wall installation : Throw	m	6,5	7,5	9,0	6,0	7,0	8,5
Wall installation : Height	m	3 ÷ 4,5					

(1) The sound pressure levels dB(A) are measured at a distance of 5 m, directional factor Q = 2, compliant with the EN 3744 standard.

WT Water temperature

Cooling mode

Entering air temperature: 28 °C - R.H.: 55 %

MODEL		AXILF EC 603			AXILF EC 604		
Inverter power		1	2	4	1	2	4
Speed	rpm	500	600	800	500	600	800
Air flow	m ³ /h	1670	2035	2760	1520	1850	2510
WT 7/12°C - ΔT=5°C Total emission	kW	9,74	10,90	12,84	11,10	12,60	15,12
WT 7/12°C - ΔT=5°C Sensible emission	kW	6,14	7,01	8,54	6,74	7,77	9,61
WT 7/12°C - ΔT=5°C Leaving air temperature	°C	16,70	17,50	18,50	14,40	15,10	16,30
WT 11/15°C - ΔT=4°C Total emission	kW	6,97	7,78	9,14	7,99	9,04	10,80
WT 11/15°C - ΔT=4°C Sensible emission	kW	5,14	5,92	7,35	5,58	6,48	8,13
WT 11/15°C - ΔT=4°C Leaving air temperature	°C	18,60	19,10	19,80	16,80	17,30	18,10
WT 9/14°C - ΔT=5°C Total emission	kW	8,00	8,92	10,45	9,19	10,39	12,38
WT 9/14°C - ΔT=5°C Sensible emission	kW	5,49	6,28	7,68	6,00	6,93	8,58
WT 9/14°C - ΔT=5°C Leaving air temperature	°C	18,00	18,60	19,50	15,90	16,60	17,50
Fan	W	29,0	43,0	99,0	29,0	43,0	99,0
Sound power (Lw)	dB(A)	57,5	62,5	70,5	57,5	62,5	70,5
Sound pressure (Lp) ⁽¹⁾	dB(A)	35,5	40,5	48,5	35,5	40,5	48,5
Wall installation : Throw	m	6,5	8,0	10,5	6,0	7,5	9,5
Wall installation : Height	m	3 ÷ 5					

MODEL		AXILF EC 903			AXILF EC 904		
Inverter power		1	2	4	1	2	4
Speed	rpm	600	635	710	600	635	710
Air flow	m ³ /h	4760	5030	5620	4430	4700	5275
WT 7/12°C - ΔT=5°C Total emission	kW	21,06	21,70	22,90	24,93	25,72	27,42
WT 7/12°C - ΔT=5°C Sensible emission	kW	14,20	14,74	15,79	16,17	16,81	18,17
WT 7/12°C - ΔT=5°C Leaving air temperature	°C	18,90	19,10	19,50	16,90	17,10	17,50
WT 11/15°C - ΔT=4°C Total emission	kW	15,05	16,07	16,27	17,67	18,27	19,39
WT 11/15°C - ΔT=4°C Sensible emission	kW	12,44	13,25	13,94	13,87	14,49	15,75
WT 11/15°C - ΔT=4°C Leaving air temperature	°C	21,00	20,00	20,50	18,50	18,60	18,90
WT 9/14°C - ΔT=5°C Total emission	kW	17,09	17,55	18,43	20,20	20,82	22,35
WT 9/14°C - ΔT=5°C Sensible emission	kW	12,85	13,33	14,33	14,57	15,18	16,57
WT 9/14°C - ΔT=5°C Leaving air temperature	°C	19,80	19,90	20,30	18,00	18,20	18,50
Fan	W	135,0	155,0	207,0	135,0	155,0	207,0
Sound power (Lw)	dB(A)	65,0	70,0	75,0	65,0	70,0	75,0
Sound pressure (Lp) ⁽¹⁾	dB(A)	43,0	48,0	53,0	43,0	48,0	53,0
Wall installation : Throw	m	13,0	14,0	16,5	11,0	12,5	15,0
Wall installation : Height	m	3,5 ÷ 5,5					

(1) The sound pressure levels dB(A) are measured at a distance of 5 m, directional factor Q = 2, compliant with the EN 3744 standard.

WT Water temperature

HEATING EMISSION

Entering air temperature: 15 °C

Model	Vdc	Qv m ³ /h	WT: 70 / 55 °C			WT: 65 / 55 °C			WT: 50 / 40 °C			WT: 45 / 40 °C		
			Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C
AXIL EC 402	10	2070	10,79	619	30,3	10,59	911	30,0	6,62	569	24,3	6,47	1113	24,1
	8	1915	10,34	593	30,8	10,12	870	30,5	6,33	545	24,7	6,19	1064	24,4
	6	1570	9,21	528	32,2	9,02	775	31,8	5,65	486	25,5	5,50	947	25,3
	4	1240	8,01	459	33,9	7,81	672	33,4	4,91	422	26,6	4,78	821	26,3
	2	915	6,64	380	36,2	6,46	556	35,7	4,07	350	28,0	3,94	678	27,6
	1	740	5,79	332	37,9	5,62	483	37,2	3,56	306	29,1	3,43	590	28,6
AXIL EC 403	10	1960	13,95	800	36,1	13,61	1170	35,6	8,55	735	27,9	8,31	1429	27,6
	8	1815	13,40	768	36,6	13,06	1123	36,1	8,21	706	28,3	7,97	1371	27,9
	6	1485	11,81	677	38,3	11,49	988	37,7	7,25	623	29,3	7,01	1206	28,9
	4	1175	10,18	584	40,4	9,88	850	39,6	6,26	538	30,6	6,03	1037	30,0
	2	865	8,27	474	43,1	7,99	687	42,1	5,09	438	32,3	4,87	838	31,6
	1	700	7,13	409	45,0	6,88	592	43,9	4,39	378	33,5	4,19	721	32,6
AXIL EC 404	10	1780	16,09	923	41,7	15,61	1343	41,0	9,88	850	31,4	9,52	1637	30,8
	8	1650	15,38	882	42,3	14,93	1284	41,5	9,46	814	31,8	9,10	1565	31,2
	6	1350	13,44	771	44,2	13,02	1120	43,3	8,27	711	33,0	7,93	1363	32,2
	4	1070	11,47	658	46,4	11,06	951	45,3	7,06	607	34,3	6,74	1159	33,5
	2	785	9,16	525	49,2	8,80	757	47,9	5,65	486	36,1	5,36	921	35,0
	1	635	7,81	448	51,1	7,49	644	49,6	4,83	415	37,3	4,55	783	36,0

WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Ph: Heating emission
Qw: Water flow rate
LAT: Leaving air temperature

Correction factors (for working conditions different from those shown in the table)

T _{air}	70/55 ΔT _{acqua} 15° C					65/55 ΔT _{acqua} 10° C					45/40 ΔT _{acqua} 5° C				
	65/50	70/55	75/60	80/65	85/70	55/45	60/50	65/55	70/60	75/65	35/30	40/35	45/40	50/45	55/50
-5	1,32	1,42	1,53	1,63	1,74	1,22	1,33	1,44	1,56	1,67	1,36	1,55	1,73	1,91	2,09
0	1,21	1,32	1,42	1,53	1,63	1,11	1,22	1,33	1,44	1,56	1,18	1,36	1,55	1,73	1,91
5	1,11	1,21	1,32	1,42	1,53	1,00	1,11	1,22	1,33	1,44	1,00	1,18	1,36	1,55	1,73
10	1,00	1,11	1,21	1,32	1,42	0,89	1,00	1,11	1,22	1,33	0,82	1,00	1,18	1,36	1,55
15	0,89	1,00	1,11	1,21	1,32	0,78	0,89	1,00	1,11	1,22	0,64	0,82	1,00	1,18	1,36
20	0,79	0,89	1,00	1,11	1,21	0,67	0,78	0,89	1,00	1,11	0,45	0,64	0,82	1,00	1,18
25	0,68	0,79	0,89	1,00	1,11	0,56	0,67	0,78	0,89	1,00	0,27	0,45	0,64	0,82	1,00

Entering air temperature: 15 °C

Model	Vdc	WT: 70 / 55 °C				WT: 65 / 55 °C			WT: 50 / 40 °C			WT: 45 / 40 °C		
		Qv m ³ /h	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C
AXIL EC 502	10	3145	17,61	1010	31,4	17,06	1467	30,9	10,90	937	25,1	10,43	1793	24,7
	8	2920	16,89	968	31,9	16,33	1404	31,4	10,44	898	25,5	9,97	1715	25,0
	6	2440	15,19	871	33,2	14,68	1263	32,6	9,41	809	26,3	8,97	1543	25,8
	4	1925	13,17	755	35,0	12,69	1092	34,3	8,15	701	27,4	7,75	1333	26,8
	2	1420	10,87	623	37,4	10,46	900	36,6	6,74	579	28,9	6,39	1098	28,2
	1	1170	9,58	549	39,0	9,21	792	38,0	5,95	511	29,9	5,61	965	29,0
AXIL EC 503	10	2980	22,22	1274	36,9	21,57	1855	36,2	13,69	1177	28,5	13,16	2264	28,0
	8	2765	21,24	1218	37,5	20,60	1772	36,8	13,08	1125	28,9	12,57	2162	28,3
	6	2310	18,91	1084	39,1	18,32	1576	38,3	11,67	1004	29,9	11,17	1921	29,2
	4	1825	16,23	931	41,2	15,68	1348	40,3	10,03	863	31,2	9,56	1645	30,4
	2	1345	13,23	759	43,8	12,74	1095	42,8	8,18	703	32,8	7,76	1334	31,9
	1	1110	11,59	664	45,5	11,13	957	44,3	7,17	617	33,9	6,78	1166	32,8
AXIL EC 504	10	2710	25,68	1472	42,8	24,77	2130	41,8	15,87	1365	32,2	15,09	2595	31,3
	8	2515	24,47	1403	43,5	23,59	2029	42,5	15,13	1301	32,6	14,35	2469	31,7
	6	2100	21,61	1239	45,2	20,79	1788	44,1	13,37	1150	33,7	12,65	2176	32,7
	4	1660	18,31	1050	47,5	17,56	1510	46,1	11,35	976	35,1	10,69	1839	34,0
	2	1225	14,68	842	50,2	14,03	1207	48,6	9,11	783	36,8	8,53	1467	35,4
	1	1010	12,74	730	51,9	12,14	1044	50,2	7,91	681	37,9	7,37	1268	36,4

WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Ph: Heating emission
Qw: Water flow rate
LAT: Leaving air temperature

Correction factors (for working conditions different from those shown in the table)

T _{air}	70/55 ΔT _{acqua} 15° C					65/55 ΔT _{acqua} 10° C					45/40 ΔT _{acqua} 5° C				
	65/50	70/55	75/60	80/65	85/70	55/45	60/50	65/55	70/60	75/65	35/30	40/35	45/40	50/45	55/50
-5	1,32	1,42	1,53	1,63	1,74	1,22	1,33	1,44	1,56	1,67	1,36	1,55	1,73	1,91	2,09
0	1,21	1,32	1,42	1,53	1,63	1,11	1,22	1,33	1,44	1,56	1,18	1,36	1,55	1,73	1,91
5	1,11	1,21	1,32	1,42	1,53	1,00	1,11	1,22	1,33	1,44	1,00	1,18	1,36	1,55	1,73
10	1,00	1,11	1,21	1,32	1,42	0,89	1,00	1,11	1,22	1,33	0,82	1,00	1,18	1,36	1,55
15	0,89	1,00	1,11	1,21	1,32	0,78	0,89	1,00	1,11	1,22	0,64	0,82	1,00	1,18	1,36
20	0,79	0,89	1,00	1,11	1,21	0,67	0,78	0,89	1,00	1,11	0,45	0,64	0,82	1,00	1,18
25	0,68	0,79	0,89	1,00	1,11	0,56	0,67	0,78	0,89	1,00	0,27	0,45	0,64	0,82	1,00

Entering air temperature: 15 °C

Model	Vdc	WT: 70 / 55 °C				WT: 65 / 55 °C			WT: 50 / 40 °C			WT: 45 / 40 °C		
		Qv m ³ /h	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C
AXIL EC 602	10	4780	26,86	1540	31,4	26,17	2251	31,0	16,50	1419	25,1	15,99	2750	24,8
	8	4430	25,70	1474	32,0	25,07	2156	31,6	15,79	1358	25,4	15,31	2633	25,1
	6	3695	23,14	1326	33,3	22,51	1936	32,8	14,23	1223	26,3	13,75	2365	25,9
	4	2915	20,07	1151	35,1	19,46	1674	34,5	12,35	1062	27,4	11,90	2046	26,9
	2	2150	16,60	952	37,6	16,08	1383	36,9	10,24	880	28,9	9,81	1687	28,3
	1	1760	14,57	836	39,2	14,10	1213	38,4	9,00	774	30,0	8,60	1480	29,3
AXIL EC 603	10	4530	34,24	1963	37,1	33,02	2840	36,3	21,18	1822	28,7	20,15	3466	28,0
	8	4200	32,67	1873	37,7	31,49	2708	36,9	20,22	1739	29,1	19,23	3307	28,4
	6	3500	29,11	1669	39,4	28,01	2409	38,4	18,03	1551	30,1	17,09	2939	29,3
	4	2760	24,89	1427	41,5	23,92	2057	40,4	15,46	1329	31,4	14,58	2508	30,5
	2	2035	20,25	1161	44,2	19,41	1669	43,0	12,58	1082	33,1	11,81	2031	32,0
	1	1670	17,63	1011	45,9	16,86	1450	44,6	10,96	943	34,2	10,26	1766	33,0
AXIL EC 604	10	4120	39,37	2257	43,0	37,78	3249	41,9	24,40	2099	32,3	23,04	3963	31,4
	8	3820	37,45	2147	43,7	35,95	3092	42,5	23,23	1997	32,8	21,88	3763	31,8
	6	3180	33,06	1895	45,4	31,67	2724	44,2	20,54	1766	33,9	19,29	3318	32,8
	4	2510	27,96	1603	47,7	26,71	2297	46,3	17,37	1493	35,3	16,25	2795	34,0
	2	1850	22,36	1282	50,4	21,31	1833	48,8	13,93	1198	37,1	12,95	2228	35,5
	1	1520	19,28	1105	52,2	18,32	1576	50,4	12,02	1034	38,2	11,12	1913	36,5

WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Ph: Heating emission
Qw: Water flow rate
LAT: Leaving air temperature

Correction factors (for working conditions different from those shown in the table)

T _{air}	70/55 ΔT _{acqua} 15° C					65/55 ΔT _{acqua} 10° C					45/40 ΔT _{acqua} 5° C				
	65/50	70/55	75/60	80/65	85/70	55/45	60/50	65/55	70/60	75/65	35/30	40/35	45/40	50/45	55/50
-5	1,32	1,42	1,53	1,63	1,74	1,22	1,33	1,44	1,56	1,67	1,36	1,55	1,73	1,91	2,09
0	1,21	1,32	1,42	1,53	1,63	1,11	1,22	1,33	1,44	1,56	1,18	1,36	1,55	1,73	1,91
5	1,11	1,21	1,32	1,42	1,53	1,00	1,11	1,22	1,33	1,44	1,00	1,18	1,36	1,55	1,73
10	1,00	1,11	1,21	1,32	1,42	0,89	1,00	1,11	1,22	1,33	0,82	1,00	1,18	1,36	1,55
15	0,89	1,00	1,11	1,21	1,32	0,78	0,89	1,00	1,11	1,22	0,64	0,82	1,00	1,18	1,36
20	0,79	0,89	1,00	1,11	1,21	0,67	0,78	0,89	1,00	1,11	0,45	0,64	0,82	1,00	1,18
25	0,68	0,79	0,89	1,00	1,11	0,56	0,67	0,78	0,89	1,00	0,27	0,45	0,64	0,82	1,00

Entering air temperature: 15 °C

Model	Vdc	WT: 70 / 55 °C				WT: 65 / 55 °C			WT: 50 / 40 °C			WT: 45 / 40 °C		
		Qv m ³ /h	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C	Ph kW	Qw l/h	LAT °C
AXIL EC 902	10	7850	50,95	2921	34,0	49,60	4265	33,5	31,32	2694	26,7	30,27	5206	26,3
	8	7165	48,28	2768	34,7	46,94	4037	34,2	29,68	2552	27,1	28,67	4931	26,7
	6	6550	45,70	2620	35,4	44,44	3822	34,8	28,13	2419	27,6	27,13	4666	27,1
	4	5930	43,01	2466	36,2	41,77	3592	35,6	26,50	2279	28,1	25,51	4387	27,6
	2	5310	40,17	2303	37,1	39,00	3354	36,5	24,76	2129	28,6	23,80	4093	28,1
	1	5020	38,81	2225	37,6	37,62	3236	36,9	23,93	2058	28,9	22,98	3952	28,4
AXIL EC 903	10	7440	63,93	3666	40,1	61,97	5330	39,4	39,38	3387	30,5	37,78	6498	29,9
	8	6790	60,28	3456	41,0	58,37	5020	40,1	37,13	3193	31,0	35,57	6117	30,3
	6	6210	56,90	3262	41,8	55,04	4734	40,9	35,05	3014	31,5	33,52	5766	30,8
	4	5620	53,25	3053	42,7	51,50	4429	41,8	32,87	2827	32,1	31,35	5392	31,3
	2	5030	49,50	2838	43,8	47,73	4105	42,8	30,53	2626	32,8	29,07	5000	31,9
	1	4760	47,63	2731	44,3	45,97	3953	43,2	29,42	2530	33,1	27,98	4813	32,2
AXIL EC 904	10	7085	74,09	4248	45,6	71,49	6148	44,5	45,70	3930	33,9	43,53	7488	33,0
	8	6430	69,30	3973	46,5	66,81	5746	45,4	42,75	3677	34,4	40,67	6995	33,5
	6	5855	64,93	3723	47,4	62,55	5379	46,3	40,09	3448	35,0	38,06	6546	34,0
	4	5275	60,34	3460	48,5	58,03	4990	47,2	37,26	3204	35,7	35,29	6070	34,6
	2	4700	55,53	3184	49,6	53,31	4585	48,2	34,32	2952	36,4	32,43	5578	35,2
	1	4430	53,20	3050	50,1	51,02	4388	48,7	32,90	2829	36,7	31,01	5334	35,5

WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Ph: Heating emission
Qw: Water flow rate
LAT: Leaving air temperature

Correction factors (for working conditions different from those shown in the table)

T _{air}	70/55 ΔT _{acqua} 15° C					65/55 ΔT _{acqua} 10° C					45/40 ΔT _{acqua} 5° C				
	65/50	70/55	75/60	80/65	85/70	55/45	60/50	65/55	70/60	75/65	35/30	40/35	45/40	50/45	55/50
-5	1,32	1,42	1,53	1,63	1,74	1,22	1,33	1,44	1,56	1,67	1,36	1,55	1,73	1,91	2,09
0	1,21	1,32	1,42	1,53	1,63	1,11	1,22	1,33	1,44	1,56	1,18	1,36	1,55	1,73	1,91
5	1,11	1,21	1,32	1,42	1,53	1,00	1,11	1,22	1,33	1,44	1,00	1,18	1,36	1,55	1,73
10	1,00	1,11	1,21	1,32	1,42	0,89	1,00	1,11	1,22	1,33	0,82	1,00	1,18	1,36	1,55
15	0,89	1,00	1,11	1,21	1,32	0,78	0,89	1,00	1,11	1,22	0,64	0,82	1,00	1,18	1,36
20	0,79	0,89	1,00	1,11	1,21	0,67	0,78	0,89	1,00	1,11	0,45	0,64	0,82	1,00	1,18
25	0,68	0,79	0,89	1,00	1,11	0,56	0,67	0,78	0,89	1,00	0,27	0,45	0,64	0,82	1,00

COOLING EMISSION

Entering air temperature: 26 °C - R.H.: 55 %

Model	Vdc	WT: 7 / 12 °C					WT: 8 / 13 °C					WT: 10 / 15 °C				WT: 12 / 17 °C			
		Qv m ³ /h	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	
AXILF EC 403	4	1175	3,68	2,97	632	4,0	3,27	2,91	563	4,0	2,62	2,62	450	2,0	2,04	2,04	351	1,0	
	2	865	3,13	2,40	539	3,0	2,79	2,34	480	3,0	2,19	2,19	377	2,0	1,69	1,69	290	1,0	
	1	700	2,79	2,07	480	3,0	2,48	2,01	427	2,0	1,94	1,89	333	1,0	1,48	1,48	254	1,0	
AXILF EC 404	4	1070	4,40	3,35	756	4,0	3,90	3,22	671	3,0	3,04	3,01	522	2,0	2,32	2,32	398	1,0	
	2	785	3,69	2,68	634	3,0	3,28	2,56	564	2,0	2,52	2,35	433	1,0	1,89	1,89	326	1,0	
	1	635	3,24	2,29	558	2,0	2,88	2,18	495	2,0	2,20	1,98	379	1,0	1,64	1,64	283	1,0	
AXILF EC 503	4	1825	6,48	5,02	1115	9,0	5,78	4,88	994	7,0	4,56	4,56	785	4,0	3,53	3,53	608	3,0	
	2	1345	5,50	4,06	946	6,0	4,91	3,93	844	5,0	3,83	3,69	659	3,0	2,93	2,93	505	2,0	
	1	1110	4,96	3,57	852	5,0	4,41	3,43	759	4,0	3,42	3,19	588	3,0	2,60	2,60	447	2,0	
AXILF EC 504	4	1660	7,77	5,62	1336	8,0	6,92	5,39	1190	7,0	5,37	4,96	923	4,0	4,06	4,06	698	3,0	
	2	1225	6,51	4,53	1120	6,0	5,79	4,30	996	5,0	4,45	3,90	766	3,0	3,33	3,33	573	2,0	
	1	1010	5,79	3,94	996	5,0	5,14	3,73	885	4,0	3,95	3,35	679	2,0	2,93	2,93	504	1,0	
AXILF EC 603	4	2760	10,29	7,69	1769	16,0	9,21	7,44	1584	13,0	7,28	7,11	1252	9,0	5,65	5,65	972	5,0	
	2	2035	8,77	6,29	1509	12,0	7,82	6,01	1345	10,0	6,14	5,65	1055	6,0	4,69	4,69	807	4,0	
	1	1670	7,85	5,51	1351	10,0	7,01	5,22	1205	8,0	5,45	4,85	938	5,0	4,14	4,14	713	3,0	
AXILF EC 604	4	2510	12,17	8,62	2093	16,0	10,86	8,24	1868	13,0	8,45	7,58	1453	8,0	6,41	6,41	1102	5,0	
	2	1850	10,18	6,96	1751	11,0	9,09	6,59	1563	9,0	7,02	5,97	1207	6,0	5,26	5,26	904	3,0	
	1	1520	9,00	6,03	1549	9,0	8,03	5,69	1382	7,0	6,18	5,10	1063	5,0	4,60	4,60	791	3,0	
AXILF EC 903	4	5620	18,18	14,29	3127	8,0	16,32	14,06	2808	6,0	12,96	12,96	2229	4,0	10,12	10,12	1740	3,0	
	2	5030	17,18	13,24	2954	7,0	15,50	13,05	2667	6,0	12,18	12,18	2094	4,0	9,45	9,45	1626	2,0	
	1	4760	16,69	12,75	2870	7,0	14,95	12,49	2571	5,0	11,79	11,79	2029	3,0	9,15	9,15	1574	2,0	
AXILF EC 904	4	5275	22,19	16,66	3817	8,0	19,43	15,88	3341	6,0	15,16	14,85	2607	4,0	11,57	11,57	1990	2,0	
	2	4700	20,51	15,19	3527	7,0	18,22	14,59	3134	6,0	14,16	13,56	2436	4,0	10,77	10,77	1852	2,0	
	1	4430	19,82	14,55	3408	7,0	17,66	13,99	3037	5,0	13,65	12,93	2348	3,0	10,37	10,37	1784	2,0	

WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Pc: Cooling total emission
Ps: Cooling sensible emission
Qw: Water flow rate
Dp(c): Dp Cooling

Entering air temperature: 27 °C - R.H.: 55 %

Model	Vdc	WT: 7 / 12 °C					WT: 8 / 13 °C					WT: 10 / 15 °C				WT: 12 / 17 °C			
		Qv m ³ /h	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	
AXILF EC 403	4	1175	4,14	3,08	712	5,0	3,71	2,98	638	4,0	2,97	2,90	510	3,0	2,32	2,32	399	2,0	
	2	865	3,53	2,52	608	4,0	3,16	2,40	544	3,0	2,49	2,29	429	2,0	1,93	1,93	332	1,0	
	1	700	3,16	2,19	543	3,0	2,82	2,07	484	3,0	2,23	1,96	383	2,0	1,70	1,70	292	1,0	
AXILF EC 404	4	1070	4,95	3,49	852	5,0	4,47	3,36	768	4,0	3,43	3,10	591	2,0	2,66	2,66	458	2,0	
	2	785	4,16	2,82	716	3,0	3,72	2,68	641	3,0	2,90	2,46	499	2,0	2,19	2,19	377	1,0	
	1	635	3,66	2,42	629	3,0	3,28	2,29	564	2,0	2,54	2,08	437	1,0	1,89	1,89	326	1,0	
AXILF EC 503	4	1825	7,31	5,26	1257	11,0	6,51	5,01	1119	9,0	5,17	4,79	890	6,0	4,03	4,03	693	4,0	
	2	1345	6,20	4,30	1066	8,0	5,62	4,09	966	7,0	4,38	3,82	753	4,0	3,37	3,37	580	3,0	
	1	1110	5,57	3,78	959	7,0	5,00	3,56	860	5,0	3,93	3,31	675	3,0	3,00	3,00	516	2,0	
AXILF EC 504	4	1660	8,72	5,92	1500	10,0	7,83	5,62	1346	8,0	6,14	5,17	1057	5,0	4,69	4,69	806	3,0	
	2	1225	7,30	4,79	1256	7,0	6,57	4,52	1129	6,0	5,13	4,09	882	4,0	3,87	3,73	666	2,0	
	1	1010	6,48	4,18	1114	6,0	5,84	3,93	1005	5,0	4,56	3,53	784	3,0	3,42	3,19	588	2,0	
AXILF EC 603	4	2760	11,53	8,11	1984	20,0	10,38	7,69	1785	16,0	8,24	7,30	1417	11,0	6,44	6,44	1108	7,0	
	2	2035	9,96	6,73	1713	15,0	8,85	6,29	1522	12,0	6,98	5,83	1201	8,0	5,38	5,38	926	5,0	
	1	1670	8,78	5,83	1511	12,0	7,93	5,50	1363	10,0	6,24	5,04	1073	7,0	4,77	4,71	821	4,0	
AXILF EC 604	4	2510	13,62	9,11	2342	19,0	12,30	8,61	2115	16,0	9,68	7,91	1665	10,0	7,41	7,33	1275	6,0	
	2	1850	11,38	7,37	1958	14,0	10,28	6,94	1768	12,0	8,07	6,27	1388	7,0	6,10	5,71	1050	4,0	
	1	1520	10,03	6,39	1725	11,0	9,10	6,02	1564	9,0	7,13	5,38	1227	6,0	5,36	4,85	922	3,0	
AXILF EC 903	4	5620	20,49	15,00	3524	9,0	18,33	14,32	3152	8,0	14,63	13,90	2516	5,0	11,49	11,49	1976	3,0	
	2	5030	19,37	13,96	3332	9,0	17,32	13,26	2979	7,0	13,82	12,82	2376	5,0	10,77	10,77	1853	3,0	
	1	4760	18,82	13,46	3237	8,0	16,82	12,76	2893	7,0	13,91	12,57	2392	5,0	10,43	10,43	1793	3,0	
AXILF EC 903	4	5275	25,03	17,48	4306	10,0	22,28	16,61	3831	8,0	17,16	15,33	2951	5,0	13,29	13,29	2287	3,0	
	2	4700	23,08	15,95	3969	9,0	20,66	15,18	3553	7,0	16,15	14,07	2777	5,0	12,39	12,39	2132	3,0	
	1	4430	22,32	15,31	3838	8,0	19,99	14,55	3438	7,0	15,63	13,46	2688	4,0	11,96	11,96	2057	3,0	

WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Pc: Cooling total emission
Ps: Cooling sensible emission
Qw: Water flow rate
Dp(c): Dp Cooling

Entering air temperature: 28 °C - R.H.: 55 %

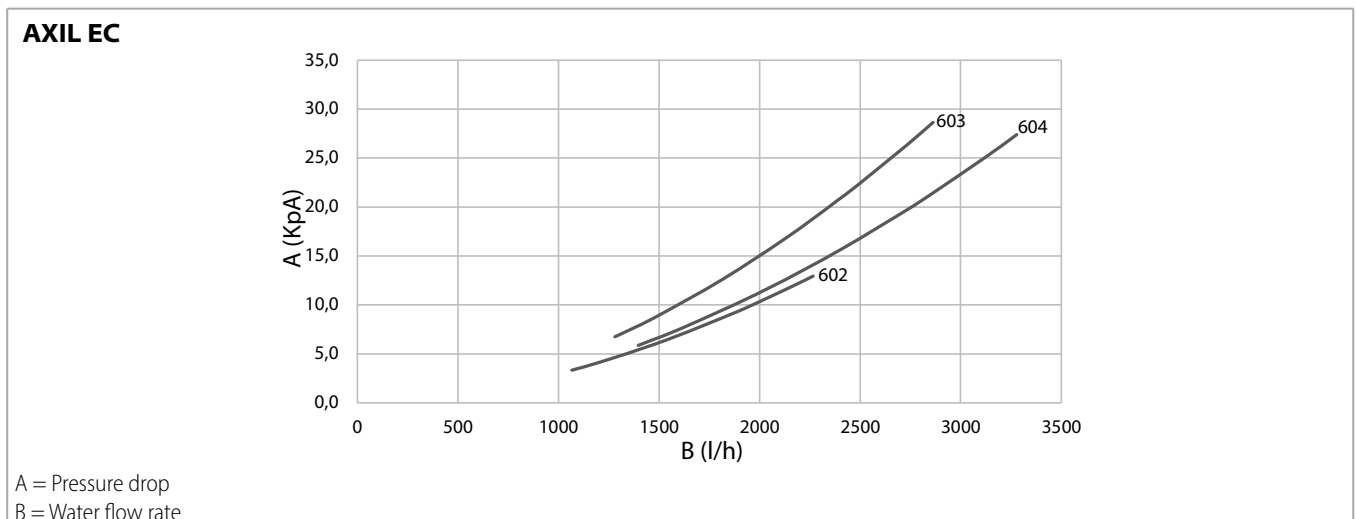
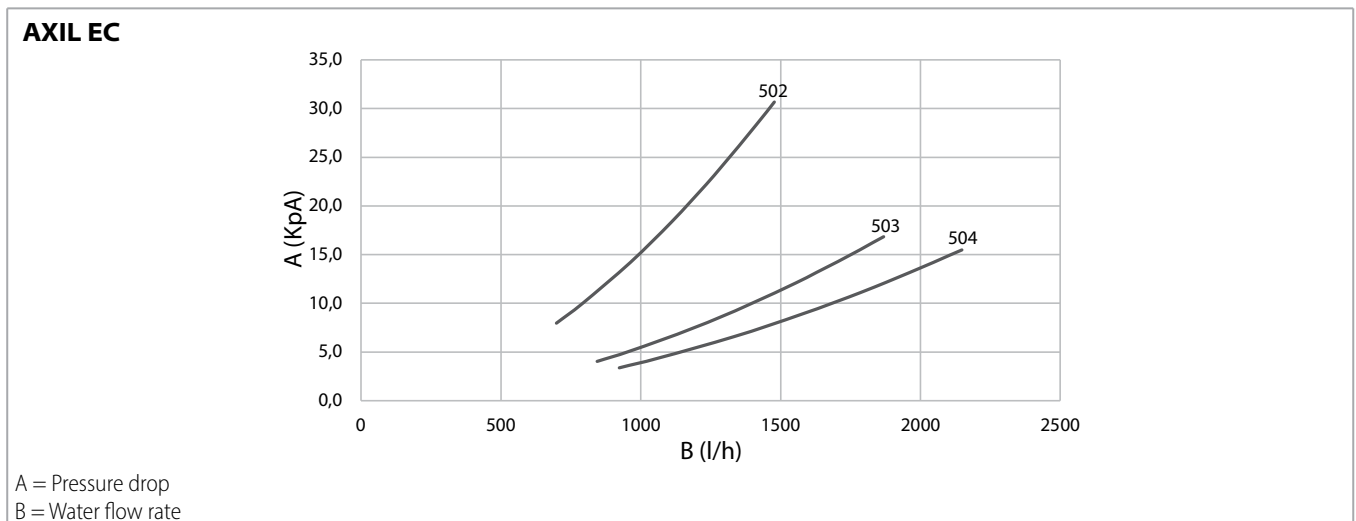
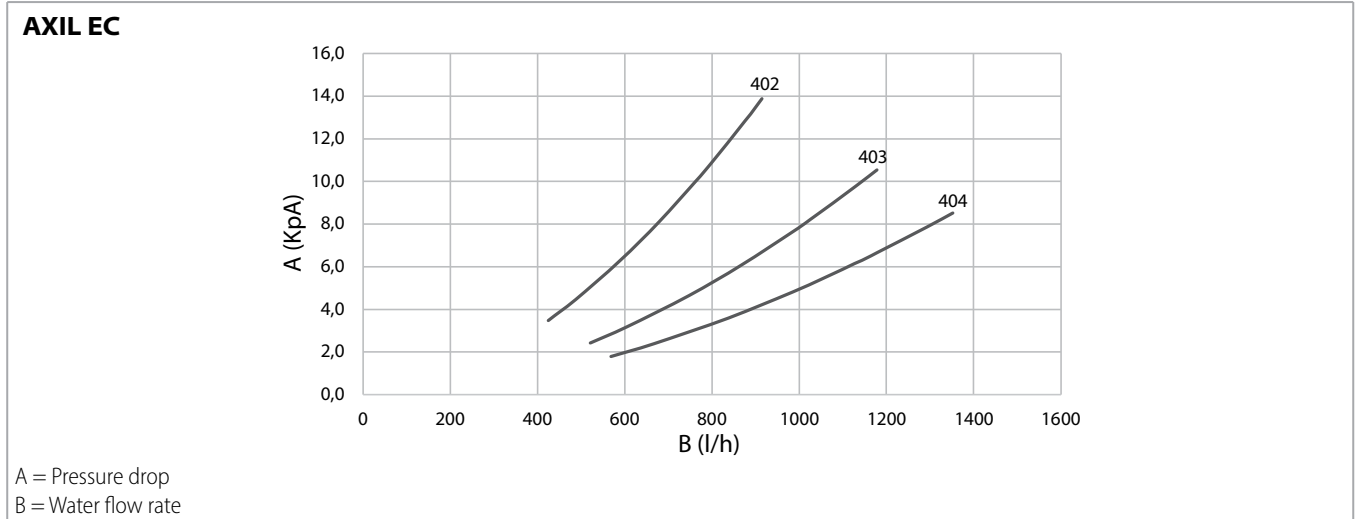
Model	Vdc	WT: 7 / 12 °C					WT: 8 / 13 °C				WT: 10 / 15 °C				WT: 12 / 17 °C			
		Qv m ³ /h	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa	Pc kW	Ps kW	Qw l/h	Dp(c) kPa
AXILF EC 403	4	1175	4,65	3,25	800	7,0	4,18	3,08	718	6,0	3,34	2,95	575	4,0	2,63	2,63	453	2,0
	2	865	3,96	2,66	681	5,0	3,56	2,51	613	4,0	2,84	2,35	488	3,0	2,21	2,21	380	2,0
	1	700	3,53	2,31	607	4,0	3,19	2,19	549	3,0	2,52	2,02	434	2,0	1,93	1,90	332	1,0
AXILF EC 404	4	1070	5,59	3,71	961	6,0	5,00	3,49	860	5,0	3,97	3,24	682	3,0	3,03	3,02	521	2,0
	2	785	4,64	2,98	799	4,0	4,21	2,82	724	4,0	3,36	2,58	579	2,0	2,53	2,36	434	1,0
	1	635	4,08	2,57	702	3,0	3,70	2,42	636	3,0	2,92	2,18	502	2,0	2,22	1,99	382	1,0
AXILF EC 503	4	1825	8,11	5,52	1395	13,0	7,33	5,24	1261	11,0	5,82	4,89	1001	7,0	4,59	4,59	789	4,0
	2	1345	6,90	4,53	1187	10,0	6,26	4,29	1077	8,0	4,97	3,94	855	5,0	3,86	3,73	664	3,0
	1	1110	6,21	3,99	1068	8,0	5,64	3,78	970	7,0	4,48	3,43	770	4,0	3,46	3,22	594	3,0
AXILF EC 504	4	1660	9,71	6,25	1670	12,0	8,82	5,91	1516	10,0	7,01	5,39	1205	7,0	5,40	4,99	929	4,0
	2	1225	8,11	5,06	1394	9,0	7,38	4,78	1270	7,0	5,88	4,30	1011	5,0	4,49	3,92	772	3,0
	1	1010	7,19	4,41	1236	7,0	6,56	4,17	1128	6,0	5,23	3,72	899	4,0	3,98	3,36	684	2,0
AXILF EC 603	4	2760	12,84	8,54	2209	24,0	11,65	8,11	2003	20,0	9,32	7,47	1604	13,0	7,33	7,19	1260	9,0
	2	2035	10,90	7,01	1875	18,0	9,92	6,64	1706	15,0	7,94	6,02	1366	10,0	6,18	5,69	1063	6,0
	1	1670	9,74	6,14	1676	15,0	8,88	5,81	1527	12,0	7,11	5,23	1223	8,0	5,50	4,88	945	5,0
AXILF EC 604	4	2510	15,12	9,61	2601	23,0	13,77	9,09	2368	19,0	11,04	8,25	1899	13,0	8,51	7,63	1464	8,0
	2	1850	12,60	7,77	2167	17,0	11,51	7,35	1979	14,0	9,23	6,58	1587	9,0	7,07	5,98	1216	6,0
	1	1520	11,10	6,74	1910	13,0	10,16	6,37	1747	11,0	8,17	5,67	1405	8,0	6,24	5,11	1073	5,0
AXILF EC 903	4	5620	22,90	15,79	3939	12,0	20,68	14,99	3557	10,0	16,53	14,17	2843	6,0	13,04	13,04	2242	4,0
	2	5030	21,70	14,74	3733	11,0	19,57	13,96	3366	9,0	15,64	13,10	2690	6,0	12,26	12,26	2109	4,0
	1	4760	21,06	14,20	3622	10,0	19,14	13,52	3291	8,0	15,03	12,50	2586	5,0	11,88	11,88	2043	3,0
AXILF EC 604	4	5275	27,42	18,17	4716	12,0	25,24	17,44	4341	10,0	19,68	15,94	3384	7,0	15,24	14,98	2621	4,0
	2	4700	25,72	16,81	4424	11,0	23,31	15,92	4009	9,0	18,50	14,65	3182	6,0	14,26	13,68	2453	4,0
	1	4430	24,93	16,17	4288	10,0	22,55	15,28	3878	8,0	17,87	14,00	3074	5,0	13,78	13,05	2370	3,0

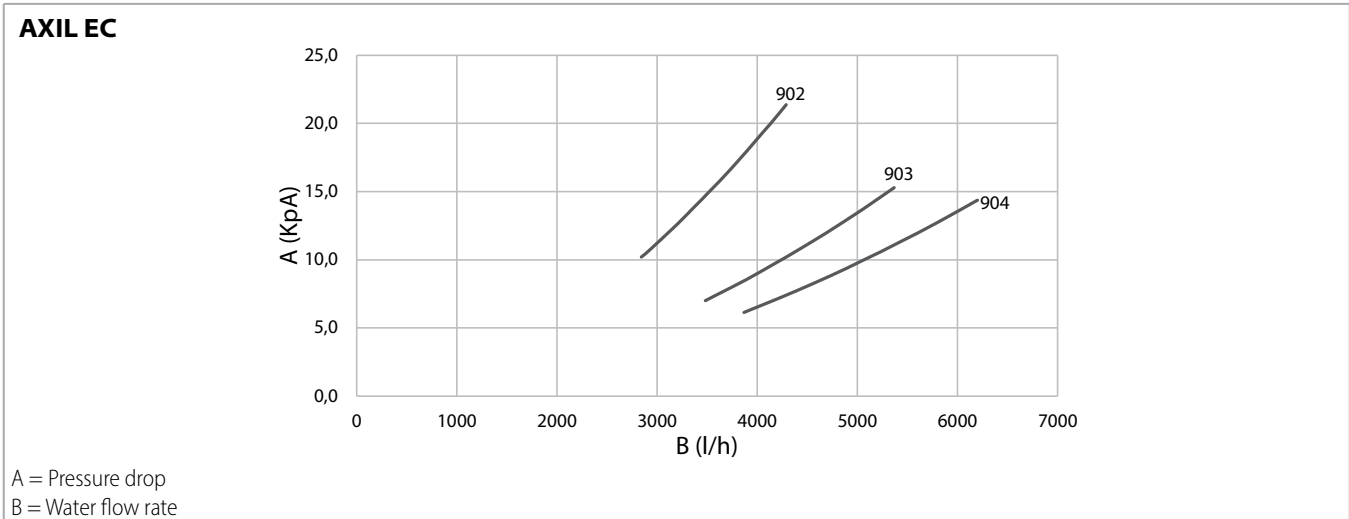
WT: Water temperature
Vdc: Inverter power
Qv: Air flow
Pc: Cooling total emission
Ps: Cooling sensible emission
Qw: Water flow rate
Dp(c): Dp Cooling

WATER SIDE PRESSURE DROP

Heating

The water pressure drop figures refer to a mean water temperature of 60 °C.



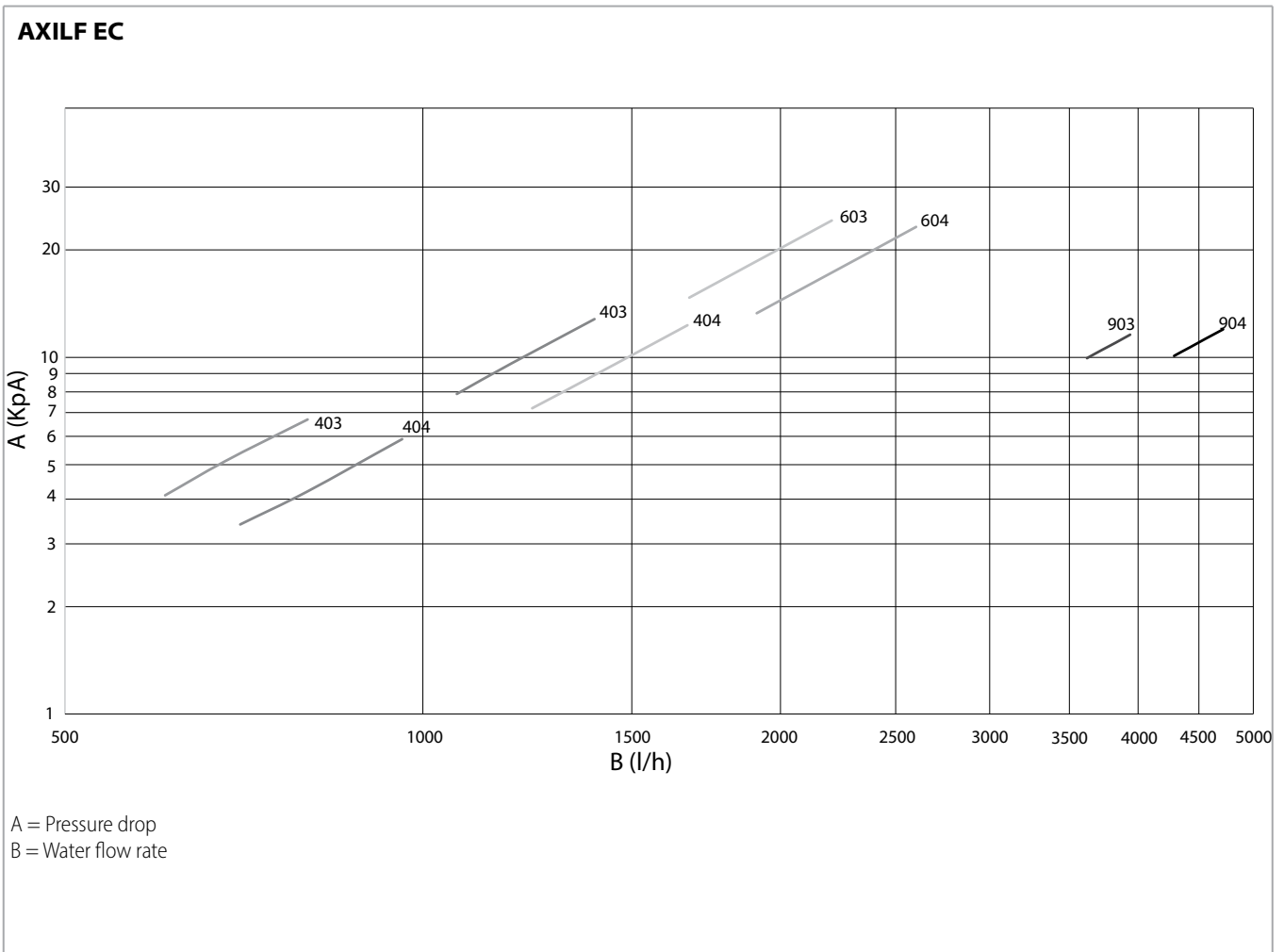


Correction factors for different temperatures

K correction factor	Mean water temperature (°C)			
	50	60	70	80
	104	1	97	94

Cooling

The water pressure drop figures refer to a mean water temperature of 10 °C.

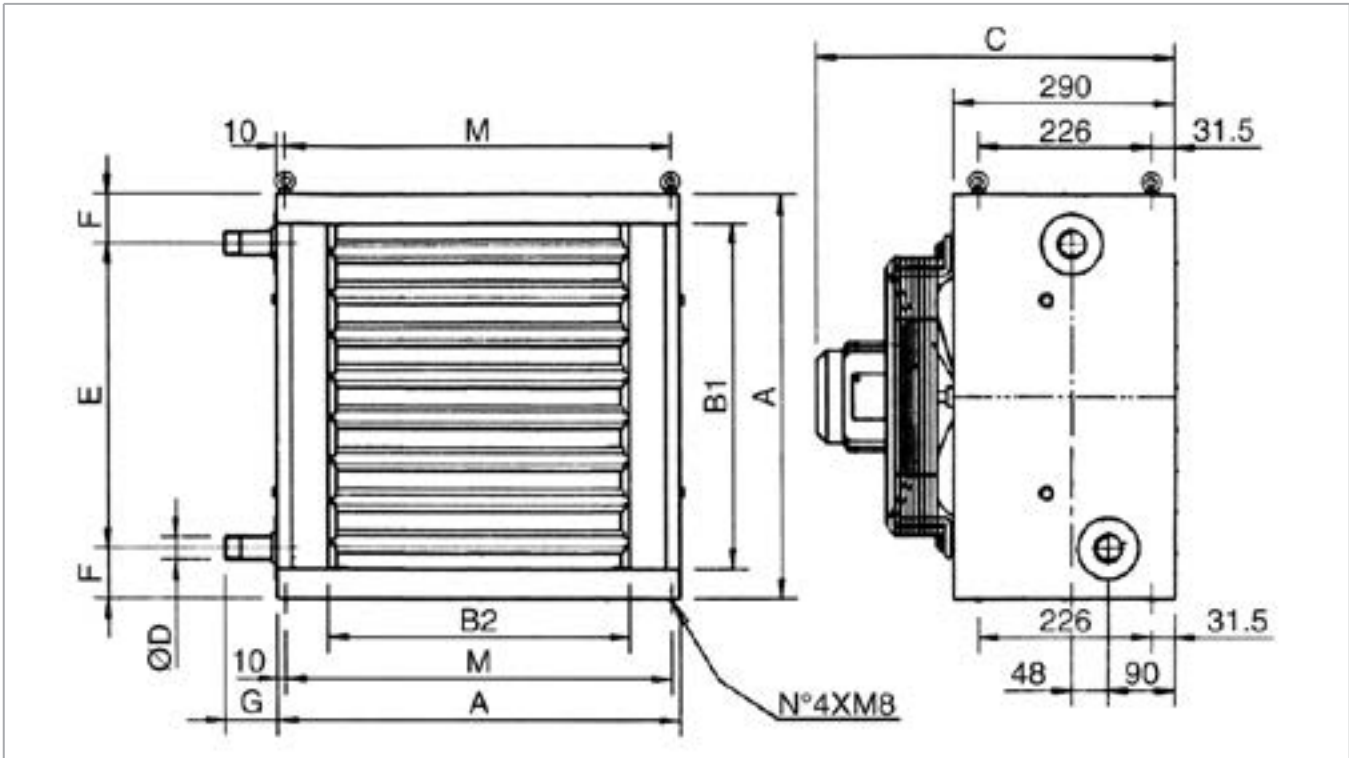


OPERATION LIMITS

Description		UoM	Value
Water flow	Coil maximum working pressure	bars	16
		kPa	1600
	Lowest water inlet temperature	°C	+7
	Highest water inlet temperature	°C	+85

DIMENSIONS

Heating



Dimensions

Model		AXIL EC 402/402/403	AXIL EC 502/503/504	AXIL EC 602/603/604	AXIL EC 902/903/904
A	mm	526	636	743	1011
B1	mm	450	550	641	885
B2	mm	394	500	610	875
C	mm	495	500	510	575
$\varnothing D$	"	1	1	14	12
E	mm	397	497	588	832
F	mm	64,5	69,5	77,5	89,5
G	mm	69,0	69,0	60,0	91,5
M	mm	506	616	723	991

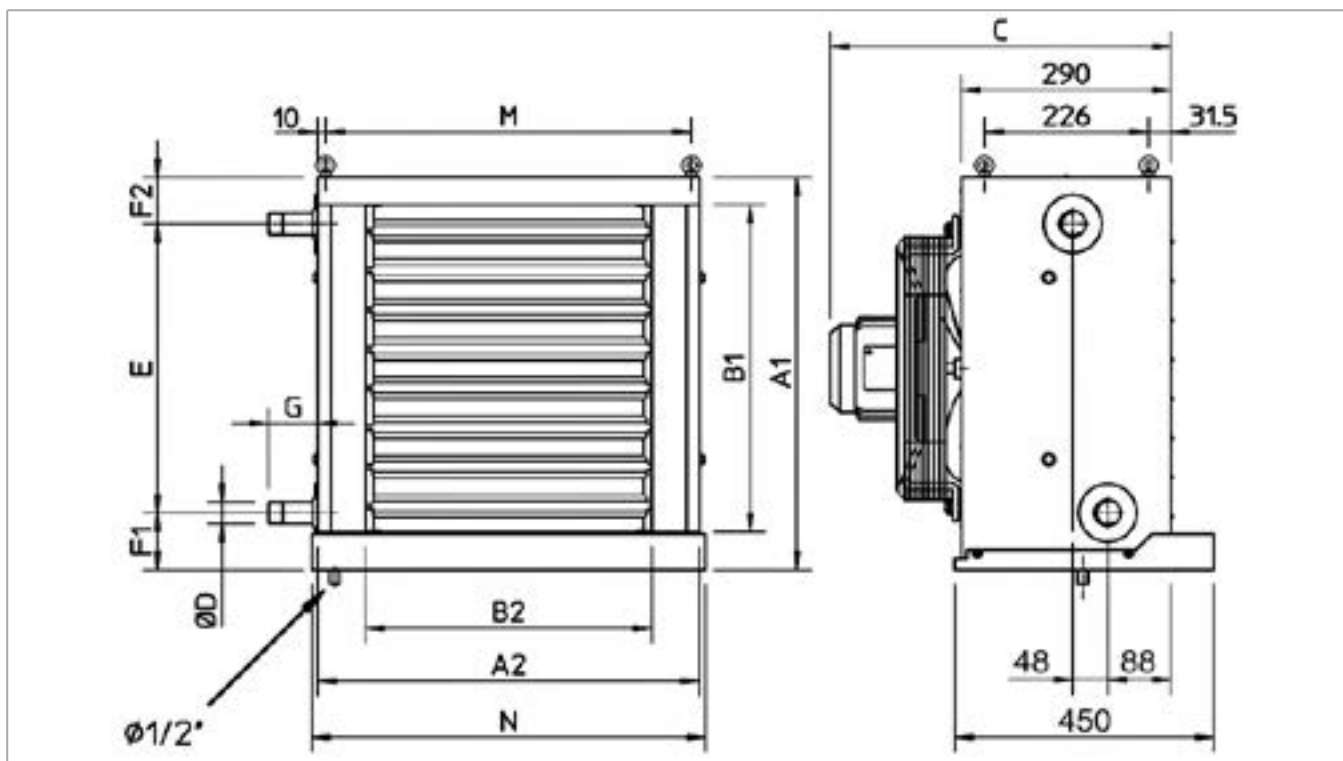
Weight and water content

Model		22	23	24	42	43	44	62	63	64	92	93	94
Weight	kg	24,0	25,0	26,0	31,0	32,5	34,0	41,0	42,5	44,5	72,5	77,0	81,0
Water content	l	1,3	1,7	2,2	1,9	2,7	3,4	2,9	4,0	5,1	5,4	7,6	9,8

Cooling and heating

(for working on cooling, use only up to 4 Vdc)

The condensate tray is an accessory to be order separately.



Dimensions

Model		2	4	6	9
A1	mm	537	647	754	1022
A2	mm	526	636	743	1011
B1	mm	450	550	641	885
B2	mm	394	500	610	875
C	mm	495	500	510	575
ØD	"	1	1	14	12
E	mm	397	497	588	832
F1	mm	75,5	80,5	88,5	100,5
F2	mm	64,5	69,5	77,5	89,5
G	mm	69,0	69,0	60,0	91,5
M	mm	506	616	723	991
N	mm	542	650	758	1026

Weight and water content

Model		23	24	43	44	63	64	93	94
Weight	kg	25,0	26,0	32,5	34,0	42,5	44,5	77,0	81,0
Water content	l	1,7	2,2	2,7	3,4	4,0	5,1	7,6	9,8

CONFIGURATION

For this unit heaters configuration, the 1-10 Vdc signal, which controls the inverter, must be supplied by a controller with the following signal specifications:

Configuration - sizes 2-4-6

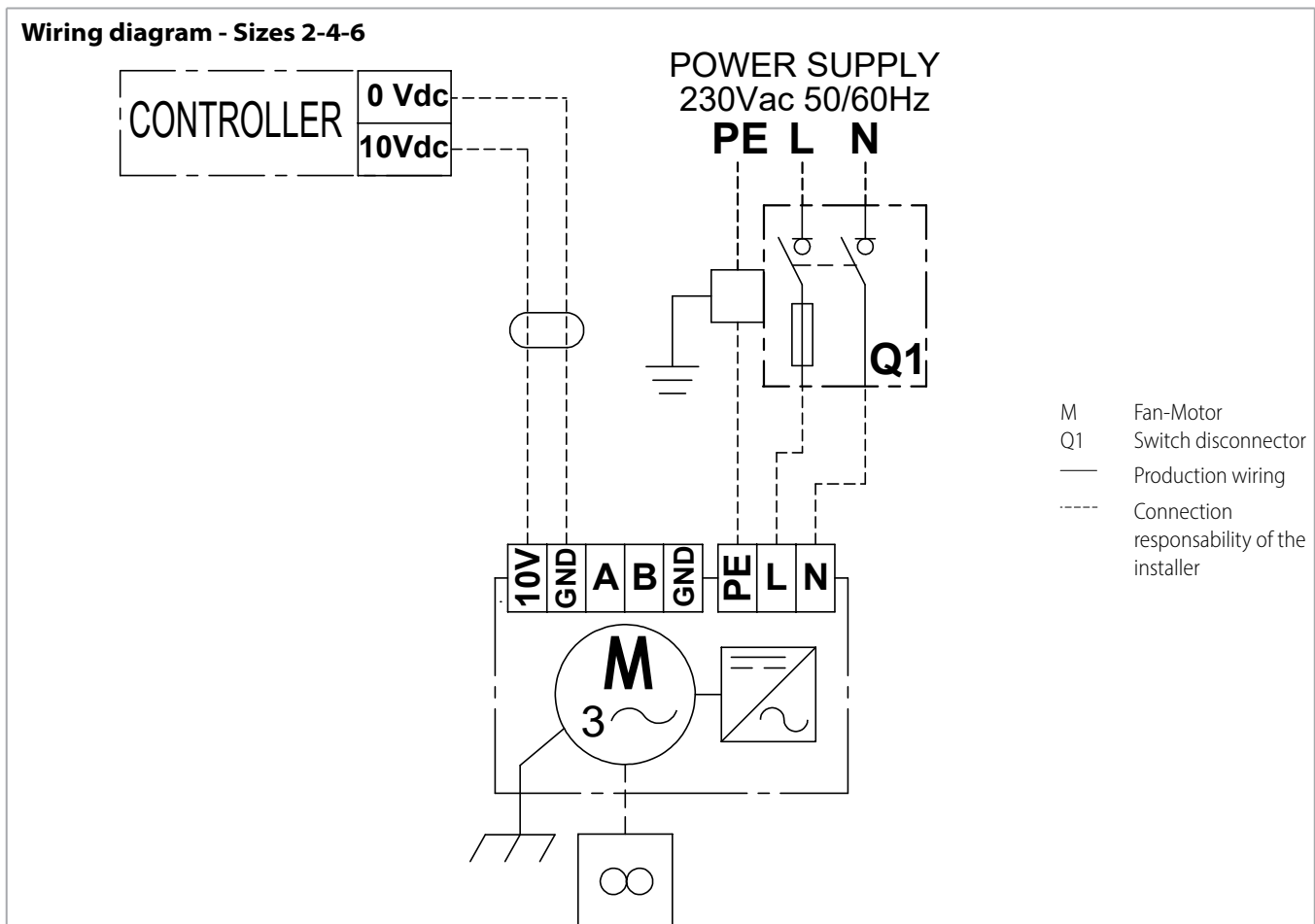
Controller characteristics

- 0÷10 Vdc Circuit Input Impedance Value = 10 kOhm
- Maximum speed 10 Vdc
- Fan OFF with $V < 1$ Vdc
- Fan ON with $V > 1.2$ Vdc

⚠ The speed range to use depends from the type of operating mode:

- for the heating mode the range is included between 1.2 V (minimum speed) and 10 V (maximum speed)
- for the cooling mode the range is included between 1.2 V (minimum speed) and 4 V (maximum speed)

Wiring diagram - Sizes 2-4-6



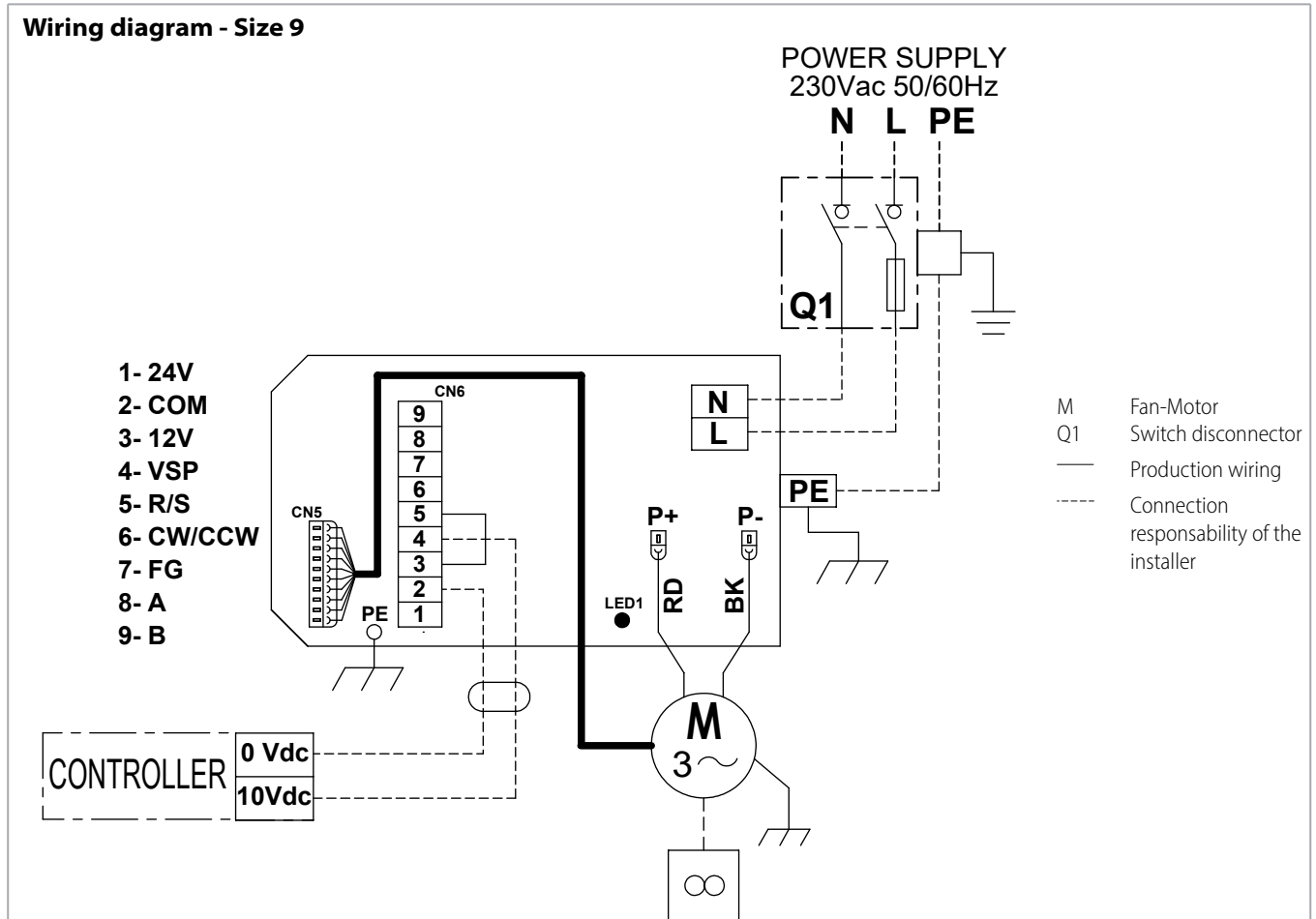
Configuration - size 9

Controller characteristics

- 0÷10 Vdc Circuit Input Impedance Value = 10 kOhm
- Maximum speed 10 Vdc
- Minimum speed 1 Vdc
- Fan OFF = < 0,7 Vdc

⚠ The speed range to use depends from the type of operating mode:

- for the heating mode the range is included between 1 V (minimum speed) and 10 V (maximum speed)
- for the cooling mode the range is included between 1 V (minimum speed) and 4 V (maximum speed)



JETSTREAM INDUCTION FLOW OPTIMIZER

Main components

The **Jetstream** induction flow optimizer allows the reduction of the mean leaving air temperature from the Export ECM unit heaters and to increase the throw of the equipment with considerable advantages both in terms of energy saving and environment comfort.

The **Jetstream** induction flow optimizers increase the air speed thanks to the special shape of its deflecting louvres which allow the creation of various streams of hot air at the unit heater outlet.

The depression created between the layers induces a lateral aspiration of ambient air that mixes with the air heated by the unit, thus reducing the leaving air temperature and increasing the throw.

The leaving air temperature from the units has a decisive influence on hot air stratification and consequently on energy saving: for each degree of decrease in ambient temperature there is a 1.5% decrease in energy consumption.

The use of **Jetstream** induction flow optimizer has the following advantages:

Energy saving:

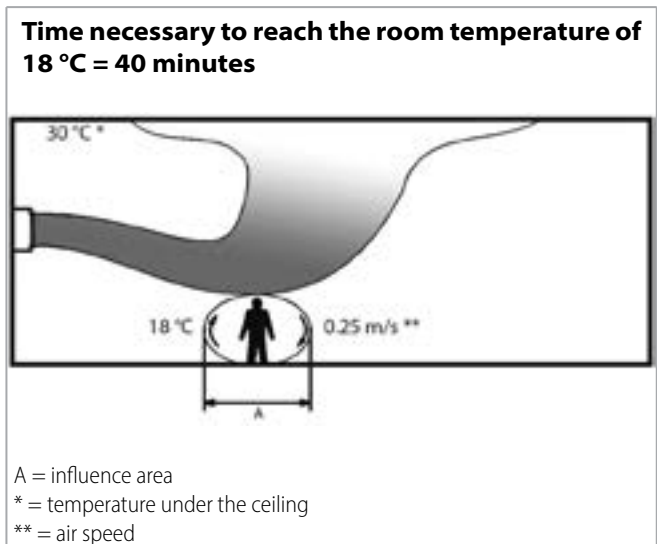
- reduced hot air stratification within the building;
- reduced operating time of the units with the same ambient temperature.

Energy saving varies between a minimum of 5% and a maximum of 15%, with maximum payback in two seasons.

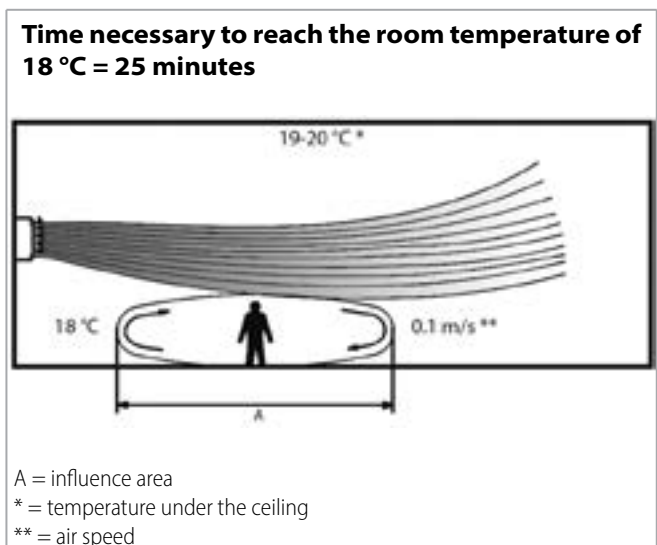
Environmental comfort advantages:

- increased floor temperature uniformity with greater comfort area;
- possibility to install smaller and quieter units, due to the increase of the throw.

Air flow produced by a unit heater **WITHOUT** induction flow optimizer



Air flow produced by a unit heater **WITH** induction flow optimizer



Available versions

Two versions are available:

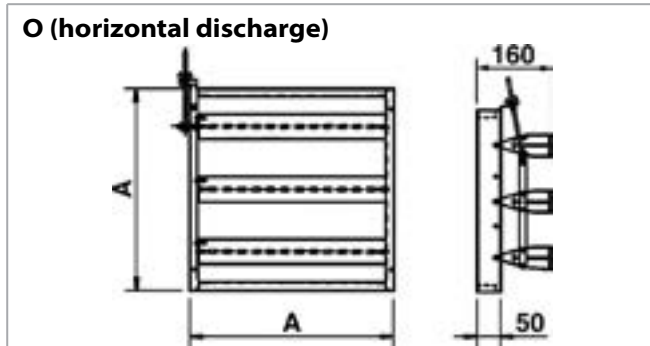
- Manual for horizontal discharge (all sizes)
- Motorized for horizontal discharge (sizes 2-4-6 only)

The **manually controlled** version provides the manual adjustment of the louvres and their locking with a special threaded rod.

The **motorized** version is supplied with single phase 230V motor that can be controlled by the remote switch.

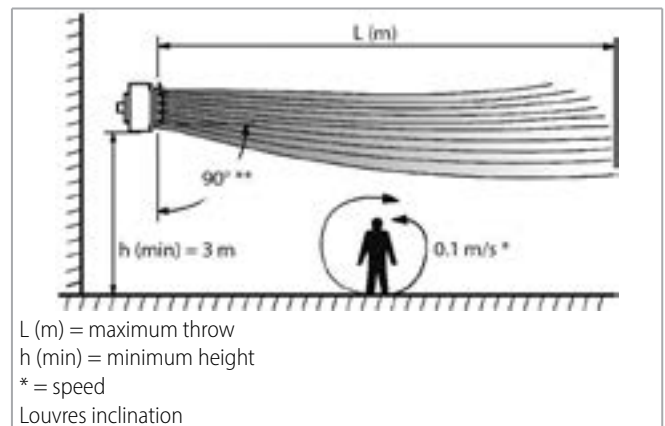


Dimension and weight



Model	A mm	Weight kg
0-2	422	1,7
0-4	530	2,0
0-6	638	2,4
0-9	906	3,4

Mounting heights and air throw



MODEL	AXIL EC 402							AXIL EC 403						AXIL EC 404					
	1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10	
Inverter power																			
Speed	rpm	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300
Air flow	m ³ /h	740	915	1240	1570	1915	2070	700	865	1175	1485	1815	1960	635	785	1070	1350	1650	1780
Air throw	m	5,0	5,5	6,5	7,0	8,0	8,5	5,0	5,5	6,5	7,0	8,0	8,5	4,5	5,0	6,0	6,5	7,5	8,0
L air throw with optimizer	m	7,0	8,0	9,5	10,5	12,0	13,0	7,0	8,0	9,5	10,5	12,0	13,0	6,5	7,5	8,5	10,0	11,5	12,0

MODEL	AXIL EC 502							AXIL EC 503						AXIL EC 504					
	1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10	
Inverter power																			
Speed	rpm	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300
Air flow	m ³ /h	1170	1420	1925	2440	2920	3145	1110	1345	1825	2310	2765	2980	1010	1225	1660	2100	2515	2710
Air throw	m	6,5	7,5	9,0	11,0	12,5	13,0	6,5	7,5	9,0	11,0	12,5	13,0	6,0	7,0	8,5	10,0	11,5	12,0
L air throw with optimizer	m	8,0	9,0	11,5	13,5	15,0	16,0	8,0	9,0	11,5	13,5	15,0	16,0	7,0	8,5	10,5	12,5	14,5	15,0

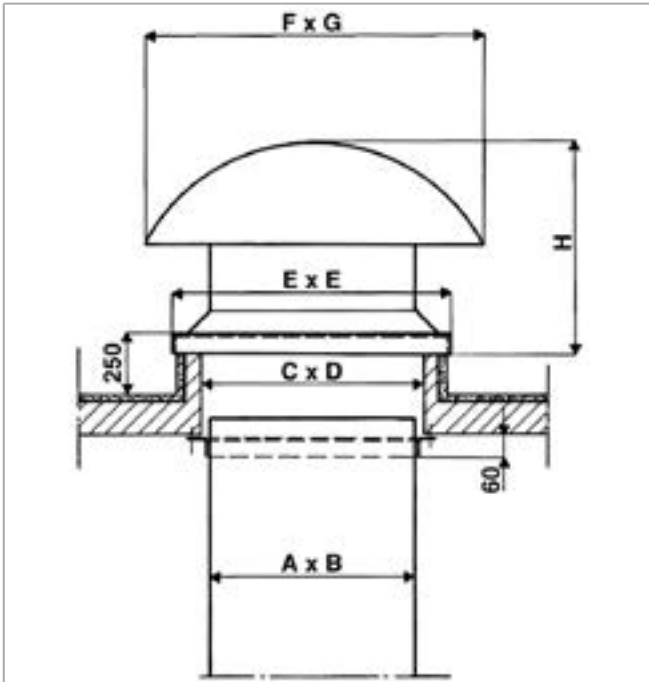
MODEL	AXIL EC 602							AXIL EC 603						AXIL EC 604					
	1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10	
Inverter power																			
Speed	rpm	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300	500	600	800	1010	1210	1300
Air flow	m ³ /h	1760	2150	2915	3695	4430	4780	1670	2035	2760	3500	4200	4530	1520	1850	2510	3180	3820	4120
Air throw	m	6,5	8,0	10,5	13,0	15,5	16,5	6,5	8,0	10,5	13,0	15,5	16,5	6,0	7,5	9,5	12,0	14,5	15,5
L air throw with optimizer	m	7,5	9,5	12,0	15,5	19,0	20,5	7,5	9,5	12,0	15,5	19,0	20,5	7,0	8,5	11,0	14,0	17,0	18,5

MODEL	AXIL EC 902							AXIL EC 903						AXIL EC 904					
	1	2	4	6	8	10	1	2	4	6	8	10	1	2	4	6	8	10	
Inverter power																			
Speed	rpm	600	635	710	785	860	950	600	635	710	785	860	950	600	635	710	785	860	950
Air flow	m ³ /h	5020	5310	5930	6550	7165	7850	4760	5030	5620	6210	6790	7440	4430	4700	5275	5855	6430	7085
Air throw	m	13,0	14,0	16,5	18,5	21,0	23,0	13,0	14,0	16,5	18,5	21,0	23,0	11,0	12,5	15,0	17,5	19,5	22,0
L air throw with optimizer	m	15,0	16,5	18,5	22,5	25,5	28,5	15,0	16,5	18,5	22,5	25,5	28,5	12,5	14,5	17,5	21,0	24,0	27,5

AT accessory - Roof-mounted air intake

Roof-mounted air intake.

Suitable with AE - AES - AM - AMS air boxes.



Model	ID
2	AT-2
4	AT-4
6	AT-6
9	AT-9

Model	A	B	C	D	E	F	G	H	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	kg
2	466	410	476	420	710	730	600	515	22,0
4	574	510	584	520	910	920	690	620	28,6
6	682	610	692	620	990	1220	920	670	39,6
9	910	910	920	920	1210	1530	1170	800	57,2

K correction factors

Air flow	K	0,96
Heat emission	K	0,97

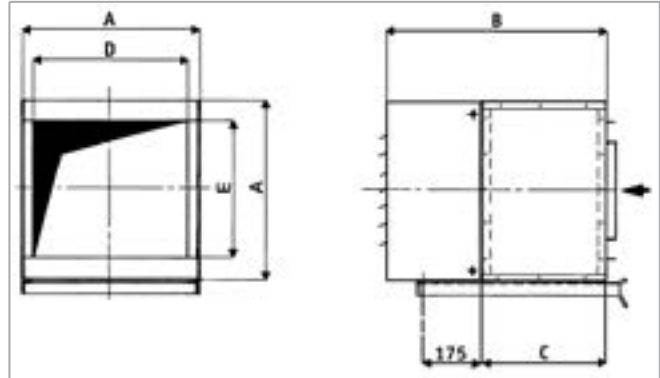
Roof upstand and flashing to be completed by the installing engineer.

AE air box

Fresh air box.

Prepainted steel thickness 1 mm.

Brackets not included.



Model	ID
2	AE-2
4	AE-4
6	AE-6
9	AE-9

Model	A	B	C	D	E	Weight
	mm	mm	mm	mm	mm	kg
2	526	660	370	466	410	9,9
4	634	760	470	574	510	14,3
6	742	760	470	682	610	16,5
9	1010	960	670	910	910	30,8

K correction factors

Air flow	K	0,95
Heat emission	K	0,97

CONTROLS

WM-UH-ECM control board

Model	ID
2-4-6-9	WM-UH-ECM



- Wall control panel
- Plastic casing with transparent cover
- Opening to the electrical terminal board connection
- T-MB mounted with possibility of remote control
- Air temperature probe included
- Defaulted control of until 12 unit heaters

The main characteristics are:

- Selection of the operation mode among: summer/winter/ventilation only
- Configuration of temperature set
- Manual setting of the fan speed switch, progressive at 0,5 Volt steps or automatic
- Weekly operation program
- Night mode setting activable by an external free voltage DO (Digital Output)
- Management of the antifreeze mode in accordance with the detected room temperature, activable by a free voltage DO (Digital Output)

Fan speed control

- The speed range to choose depends from the selected operating mode:
- Heating - the fan works at a minimum - maximum motor range and it uses the complete one 1 - 10 V
- Cooling - the fan works only at a minimum speed range included between 1 - 4 V
- The regulation board can be set for the room temperature control by means of:
- Fan ON/OFF control
- Valve ON/OFF control and continuous ventilation
- Simultaneous control of the valve and fan.

Control mode:

- Relay to manage the water valve actuator on On/Off mode
- Management of the free voltage of the 230 V winding of an external remote control switch for the power supply to the fan motor range

- 0-10 V signal for the fan motors control with inverter board
 - Max. number of connectable unit heaters: 12
- In1 digital input to set as:
- Remote ON/OFF control
 - Seasonal switch
- In2 digital input to set as:
- Nightly mode activation (set reduction and fan speed setting at 3 V)
 - Antifreeze mode activation (it opens the water valve and starts the fan at the minimum speed)

LC-P220

Model	ID
2-4-6-9	LC-P220



0-10 V / 230 V signal generator

The output signal value can be adjusted by means of the frontal handle, the % range shows the set voltage value.

Note:

- The electronic motor starts at a minimum voltage value of 1 V. Below this value it stops.
- By the cooling mode the value to set can not overcome 4 V.

NTC remote probe 10K IP55 for WM-UH-ECM control board

Model	ID
2-4-6-9	NTC-10K-WM



Air probe to control at a distance for AXIL control board.

WM-S-ECM control

Model	ID
2-4-6-9	WM-S-



0-10V control with display designed to be mounted on the wall or to be installed on a 503 wall box.

- ON/OFF switch
- Manual 3 speed switch or automatic continuous speed control.
- Manual Summer/Winter switch.
- Summer/Winter/Fan/Auto mode switch.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for water valve control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the low temperature cut-out thermostat NTC.

Control power absorption: 1,2 VA

Dimensions: 132x87x23,6 mm

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Debido al compromiso permanente de Lennox con la calidad, las especificaciones, capacidades y dimensiones están sujetas a cambios sin previo aviso y sin incurrir en ninguna responsabilidad. La instalación, ajuste, modificación, reparación o mantenimiento inadecuados pueden dar lugar a daños personales o daños en la propiedad. La instalación y reparaciones deben realizarse por un instalador o por un mantenedor cualificados.



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