



ATREA s.r.o.
Československé armády 32
466 05 Jablonec n. N., Česká republika
www.atrea.cz

Supplier name or trademark

Model identifier			DUPLEX 150 Pro	DUPLEX 350 Pro	DUPLEX 550 Pro	DUPLEX 160 Pro-V	DUPLEX 360 Pro-V	DUPLEX 560 Pro-V	
Model identifier			A160600 A160610 A160620	A160601 A160611 A160621	A160602 A160612 A160622	A160603 A160613 A160623	A160604 A160614 A160624	A160605 A160615 A160625	
Specific energy consumption	SEC -W	kWh/(m ² .a)	-17,22	-17,86	-17,43	-17,46	-17,78	-17,53	
	SEC -A	kWh/(m ² .a)	-42,12	-42,43	-42,10	-42,08	-42,12	-42,12	
	SEC -C	kWh/(m ² .a)	-80,99	-80,73	-80,59	-80,46	-80,02	-80,46	
Specific energy consumption class	SEC -W		E	E	E	E	E	E	
	SEC -A		A+	A+	A+	A+	A+	A+	
	SEC -C		A+	A+	A+	A+	A+	A+	
Typology			RVU, BVU	RVU, BVU	RVU, BVU	RVU, BVU	RVU, BVU	RVU, BVU	
Type of drive			VSD	VSD	VSD	VSD	VSD	VSD	
Type of heat recovery system			Recuperative	Recuperative	Recuperative	Recuperative	Recuperative	Recuperative	
Thermal efficiency of heat recovery	ηt	%	86,8%	83,9%	84,8%	84,3%	81,9%	84,1%	
Maximum flow rate	Qm	m ³ /h	150	350	550	150	350	550	
Electric power input of the fan drive		W	65	143	253	59	132,7	258	
Sound power level	L_{WA}	dB	35	37	44	37	36	40	
Reference flow rate	Q_r	m ³ /h	105	245	385	105	245	385	
Reference flow rate	Q_r	m ³ /s	00,3	00,7	0,11	0,03	0,07	0,11	
Electric power input of the reference flow rate	P_{ref}	W	29	52	96	26	50	91	
Reference pressure difference		Pa	50	50	50	50	50	50	
Specific Power Input	SPI	W/(m ³ /h)	0,280	0,211	0,250	0,244	0,203	0,237	
Control factor			0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	
Maximum internal leakage rates		%	5,8	4,5	3,9	5,9	4,6	3,8	
Maximum external leakage rates		%	3,3	3,1	2,9	3,4	3,2	2,9	
Position and description of visual filter warning		control panel; " clogged filter "; Air filters in the unit must be changed regularly. Clogged air filters result in reduced performance and total efficiency of the ventilation unit.							
Pre-/dis-assembly instructions URL			www.atrea.cz/erp						
Annual Electricity Consumption	AEC-C	kWh/year	730	694	714	711	690	708	
	AEC-A	kWh/year	193	157	177	174	153	171	
	AEC-W	kWh/year	148	112	132	129	108	126	
Annual Heating Saved	AHS-C	kWh/year	9052	8934	8971	8951	8953	8943	
	AHS-A	kWh/year	4627	4667	4686	4675	4626	4671	
	AHS-W	kWh/year	2092	2065	2074	2069	2046	2067	

Warning: All types of control system that are built in within the unit commonly include at least two inputs, so the electrical signals from human operation of lights or other equipment, that automatically control the performance of the unit, can be connected. These inputs or other types of sensors must always be connected (e.g. CO₂, VOC, rH etc.)



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Model identifier			DUPLEX 200 Easy2	DUPLEX 300 Easy2	DUPLEX 500 Easy2	DUPLEX 150 Slim
Model identifier			A161300 A161310	A161301 A161311	A161302 A161312	A161400, A161401 A161410, A161411 A161420, A161421
Specific energy consumption	SEC -W	kWh/(m ² .a)	-17,44	-16,94	-15,11	-15,54
	SEC -A	kWh/(m ² .a)	-42,03	-41,37	-39,35	-39,71
	SEC -C	kWh/(m ² .a)	-80,37	-79,43	-77,08	-77,32
Specific energy consumption class	SEC -W		E	E	E	E
	SEC -A		A+	A	A	A
	SEC -C		A+	A+	A+	A+
Typology			RVU, BVU	RVU, BVU	RVU, BVU	RVU, BVU
Type of drive			VSD	VSD	VSD	VSD
Type of heat recovery system			Recuperative	Recuperative	Recuperative	Recuperative
Thermal efficiency of heat recovery	ηt	%	84,1%	82,7%	81,0%	80,4%
Maximum flow rate	Qm	m ³ /h	200	300	500	150
Electric power input of the fan drive		W	83	137	359	78
Sound power level	Lwa	dB	38	43	49	38
Reference flow rate	Qr	m ³ /h	140	210	350	105
Reference flow rate	Qr	m ³ /s	0,04	0,06	0,10	0,03
Electric power input of the reference flow rate	P_ref	W	34,2	57	139	38
Reference pressure difference		Pa	50	50	50	50
Specific Power Input	SPI	W/(m ³ /h)	0,244	0,272	0,397	0,362
Control factor			0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control
Maximum internal leakage rates		%	6,6	6,3	5,9	5,6
Maximum external leakage rates		%	5,3	5,1	4,9	3,1
Position and description of visual filter warning	control panel; " clogged filter "; Air filters in the unit must be changed regularly. Clogged air filters result in reduced performance and total efficiency of the ventilation unit.					
Pre-dis-assembly instructions URL	www.atrea.cz/erp					
Annual Electricity Consumption	AEC-C	kWh/year	711	726	793	774
	AEC-A	kWh/year	174	189	256	237
	AEC-W	kWh/year	129	144	211	192
Annual Heating Saved	AHS-C	kWh/year	894	8886	8820	8793
	AHS-A	kWh/year	457	4542	4510	4495
	AHS-W	kWh/year	207	2054	2040	2032

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CP control modul - “Vacuum” mode switch/contact and connection of an external shut-off damper “SL”



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Model identifier		DUPLEX RA5	DUPLEX RK5	DUPLEX RB5	DUPLEX RDH5	
Model identifier		A170421	A170441	A170431	A170451	
Specific energy consumption	SEC -W	kWh/(m ² .a)	-16,92	-16,74	-16,55	
	SEC -A	kWh/(m ² .a)	-40,82	-40,64	-40,57	
	SEC -C	kWh/(m ² .a)	-77,96	-77,77	-77,90	
Specific energy consumption class	SEC -W		E	E	E	
	SEC -A		A	A	A	
	SEC -C		A+	A+	A+	
Typology			RVU/BVU	RVU/BVU	RVU/BVU	
Type of drive			VSD	VSD	VSD	
Type of heat recovery system			Recuperative	Recuperative	Recuperative	
Thermal efficiency of heat recovery	ηt	%	78	78	79	
Maximum flow rate	Qm	m ³ /h	420	445	430	
Electric power input of the fan drive		W	174	172	188	
Sound power level		dB	41	42	44	
Reference flow rate	Qr	m ³ /h	294	311,5	301	
Reference flow rate	Qr	m ³ /s	0,08	0,09	0,08	
Electric power input of the reference flow rate		Pa	50	50	50	
Specific Power Input	SPI	W/(m ³ /h)	0,240	0,254	0,275	
Control factor			0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	
Maximum internal leakage rates		%	3,30	3,30	3,30	
Maximum external leakage rates		%	1,70	1,70	1,70	
Position and description of visual filter warning			control panel; "clogged filter"; Air filters in the unit must be changed regularly. Clogged air filters result in reduced performance and total efficiency of the ventilation unit.			
Pre-/dis-assembly instructions URL			www.atrea.cz/erp			
Annual Electricity Consumption	AEC-W	kWh/year	127	134	146	156
	AEC-A	kWh/year	172	179	191	201
	AEC-C	kWh/year	709	716	728	738
Annual Heating Saved	AHC -W	kWh/year	2010	2010	2019	2066
	AHC -A	kWh/year	4445	4445	4466	4569
	AHC -C	kWh/year	8695	8695	8736	8938

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Model identifier		DUPLEX 170 EC5-E	DUPLEX 370 EC5-E	DUPLEX 570 EC5-E	DUPLEX 280 ECV5-E	DUPLEX 380 ECV5-E	DUPLEX 580 ECV5-E	
Model identifier		A160570 A160580 A160590	A160571 A160581 A160591	A160572 A160582 A160592	A160573 A160583 A160593	A160574 A160584 A160594	A160575 A160585 A160595	
Specific energy consumption	SEC -W	kWh/(m ² .a)	-16,03	-16,26	-15,81	-16,06	-15,92	-15,19
Specific energy consumption	SEC -A	kWh/(m ² .a)	-40,16	-40,16	-39,82	-39,73	-39,59	-38,86
Specific energy consumption	SEC -C	kWh/(m ² .a)	-77,69	-77,29	-77,15	-76,47	-76,33	-75,60
Specific energy consumption class	SEC -W		E	E	E	E	E	
Specific energy consumption class	SEC -A		A	A	A	A	A	
Specific energy consumption class	SEC -C		A+	A+	A+	A+	A+	
Typology			RVU/BVU	RVU/BVU	RVU/BVU	RVU/BVU	RVU/BVU	
Type of drive			VSD	VSD	VSD	VSD	VSD	
Type of heat recovery system			Recuperative	Recuperative	Recuperative	Recuperative	Recuperative	
Thermal efficiency of heat recovery	ηt	%	80%	78%	79%	76%	76%	
Maximum flow rate	Qm	m ³ /h	160	310	530	250	350	
Electric power input of the fan drive		W	63	105	252	105	161	
Sound power level	LwA	dB	37	38	42	35	36	
Reference flow rate	Qr	m ³ /h	112	217	371	175	245	
Reference flow rate	Qr	m ³ /s	0,03	0,06	0,10	0,05	0,07	
Electric power input of the reference flow rate	P_ref	W	36	63	123	51	74	
Reference pressure difference		Pa	50	50	50	50	50	
Specific Power Input	SPI	W/(m ³ /h)	0,321	0,290	0,332	0,291	0,302	
Control factor			0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	
Maximum internal leakage rates		%	2,50	2,50	2,20	2,50	2,50	
Maximum external leakage rates		%	1,60	1,60	1,60	1,60	1,60	
Position and description of visual filter warning			control panel; "clogged filter"; Air filters in the unit must be changed regularly. Clogged air filters result in reduced performance and total efficiency of the ventilation unit.					
Pre-/dis-assembly instructions URL			www.atrea.cz/erp					
Annual Electricity Consumption	AEC-W	kWh/year	170	154	175	154	160	
	AEC-A	kWh/year	215	199	220	199	205	
	AEC-C	kWh/year	752	736	757	736	742	
Annual Heating Saved	AHS-W	kWh/year	2029	2010	2019	1991	1991	
	AHS-A	kWh/year	4486	4445	4466	4404	4404	
	AHS-C	kWh/year	8776	8695	8736	8614	8614	

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Model identifier			DUPLEX 170 EC5	DUPLEX 370 EC5	DUPLEX 570 EC5	DUPLEX 280 ECV5	DUPLEX 380 ECV5	DUPLEX 580 ECV5
Model identifier			A160500 A160510 A160520	A160501 A160511 A160521	A160502 A160512 A160522	A160503 A160513 A160523	A160504 A160514 A160524	A160505 A160515 A160525
Specific energy consumption	SEC -W	kWh/(m ² .a)	-17,47	-17,47	-17,34	-17,51	-17,41	-17,35
	SEC -A	kWh/(m ² .a)	-42,17	-42,28	-42,03	-42,21	-42,22	-42,05
	SEC -C	kWh/(m ² .a)	-80,69	-81,00	-80,59	-80,73	-80,93	-80,57
Specific energy consumption class	SEC -W		E	E	E	E	E	E
	SEC -A		A+	A+	A+	A+	A+	A+
	SEC -C		A+	A+	A+	A+	A+	A+
Typology			RVU/BVU	RVU/BVU	RVU/BVU	RVU/BVU	RVU/BVU	RVU/BVU
Type of drive			VSD	VSD	VSD	VSD	VSD	VSD
Type of heat recovery system			Recuperative	Recuperative	Recuperative	Recuperative	Recuperative	Recuperative
Thermal efficiency of heat recovery	ηt	%	85%	86%	85%	85%	86%	85%
Maximum flow rate	Qm	m ³ /h	175	370	570	285	365	565
Electric power input of the fan drive		W	79	167	313	118	192	345
Sound power level	LwA	dB	37	38	42	35	36	42
Reference flow rate	Qr	m ³ /h	122	259	399	199	255	395
Reference flow rate	Qr	m ³ /s	0,03	0,07	0,11	0,06	0,07	0,11
Electric power input of the reference flow rate		Pa	50	50	50	50	50	50
Specific Power Input	SPI	W/(m ³ /h)	0,248	0,255	0,258	0,245	0,260	0,257
Control factor	CTRL		0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control	0,65 Local demand control
Maximum internal leakage rates		%	2,5	2,5	2,2	2,5	2,5	2,2
Maximum external leakage rates		%	1,6	1,6	1,6	1,6	1,6	1,7
Position and description of visual filter warning			control panel; " clogged filter "; Air filters in the unit must be changed regularly. Clogged air filters result in reduced performance and total efficiency of the ventilation unit.					
Pre-/dis-assembly instructions URL			www.atrea.cz/erp					
Annual Electricity Consumption	AEC-W	kWh/year	131	135	137	130	138	136
	AEC-A	kWh/year	176	180	182	175	183	181
	AEC-C	kWh/year	713	717	719	712	720	718
Annual Heating Saved	AHS-W	kWh/year	2075	2085	2075	2075	2085	2075
	AHS-A	kWh/year	4590	4611	7590	4590	4611	4590
	AHS-C	kWh/year	8979	9019	8979	8979	9019	8979

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