

Supplier name or trademark



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

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	η _t	%	86,8%	83,9%	84,8%	84,3%	81,9%	84,1%
Maximum flow rate	Q _m	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/rok	7,30	6,94	7,14	7,11	6,90	7,08
	AEC-A	kWh/rok	1,93	1,57	1,77	1,74	1,53	1,71
	AEC-W	kWh/rok	1,48	1,12	1,32	1,29	1,08	1,26
Annual Heating Saved	AHS-C	kWh/rok	90,52	89,34	89,71	89,51	89,53	89,43
	AHS-A	kWh/rok	46,27	46,67	46,86	46,75	46,26	46,71
	AHS-W	kWh/rok	20,92	20,65	20,74	20,69	20,46	20,67

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	η_t	%	84,1%	82,7%	81,0%	80,4%
Maximum flow rate	Q_m	m ³ /h	200	300	500	150
Electric power input of the fan drive		W	83	137	359	78
Sound power level	L_{WA}	dB	38	43	49	38
Reference flow rate	Q_r	m ³ /h	140	210	350	105
Reference flow rate	Q_r	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/rok	7,11	7,26	7,93	7,74
	AEC-A	kWh/rok	1,74	1,89	2,56	2,37
	AEC-W	kWh/rok	1,29	1,44	2,11	1,92
Annual Heating Saved	AHS-C	kWh/rok	89,4	88,86	88,20	87,93
	AHS-A	kWh/rok	45,7	45,42	45,10	44,95
	AHS-W	kWh/rok	20,7	20,54	20,40	20,32

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Thermal bypass EU Commission Regulation 1253/2014:

aMotion control modul – “Vacuum” mode and connection of an external shut-off damper “SL”

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/(m2.a)	-16,92	-16,74	-16,55	-16,76
	SEC -A	kWh/(m2.a)	-40,82	-40,64	-40,57	-41,34
	SEC -C	kWh/(m2.a)	-77,96	-77,77	-77,90	-79,66
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	η_t	%	78	78	79	84
Maximum flow rate	Q_m	m ³ /h	420	445	430	590
Electric power input of the fan drive		W	174	172	188	145
Sound power level		dB	41	42	44	49
Reference flow rate	Q_r	m ³ /h	294	311,5	301	413
Reference flow rate	Q_r	m ³ /s	0,08	0,09	0,08	0,11
Electric power input of the reference flow rate		Pa	50	50	50	50
Specific Power Input	SPI	W/(m ³ /h)	0,240	0,254	0,275	0,295
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		%	3,30	3,30	3,30	3,30
Maximum external leakage rates		%	1,70	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/rok	1,27	1,34	1,46	1,56
	AEC-A	kWh/rok	1,72	1,79	1,91	2,01
	AEC-C	kWh/rok	7,09	7,16	7,28	7,38
Annual Heating Saved	AHC -W	kWh/rok	20,10	20,10	20,19	20,66
	AHC -A	kWh/rok	44,45	44,45	44,66	45,69
	AHC -C	kWh/rok	86,95	86,95	87,36	89,38

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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/(m2.a)	-16,03	-16,26	-15,81	-16,06	-15,92	-15,19
	SEC-A	kWh/(m2.a)	-40,16	-40,16	-39,82	-39,73	-39,59	-38,86
	SEC-C	kWh/(m2.a)	-77,69	-77,29	-77,15	-76,47	-76,33	-75,60
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	η_t	%	80%	78%	79%	76%	76%	76%
Maximum flow rate	Q_m	m3/h	160	310	530	250	350	500
Electric power input of the fan drive		W	63	105	252	105	161	258
Sound power level	LwA	dB	37	38	42	35	36	42
Reference flow rate	Q_r	m3/h	112	217	371	175	245	350
Reference flow rate	Q_r	m3/s	0,03	0,06	0,10	0,05	0,07	0,10
Electric power input of the reference flow rate	P_{ref}	W	36	63	123	51	74	125
Reference pressure difference		Pa	50	50	50	50	50	50
Specific Power Input	SPI	W/(m3/h)	0,321	0,290	0,332	0,291	0,302	0,357
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		%	2,50	2,50	2,20	2,50	2,50	2,20
Maximum external leakage rates		%	1,60	1,60	1,60	1,60	1,60	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/rok	1,70	1,54	1,75	1,54	1,60	1,89
	AEC-A	kWh/rok	2,15	1,99	2,20	1,99	2,05	2,34
	AEC-C	kWh/rok	7,52	7,36	7,57	7,36	7,42	7,71
Annual Heating Saved	AHS-W	kWh/rok	20,29	20,10	20,19	19,91	19,91	19,91
	AHS-A	kWh/rok	44,86	44,45	44,66	44,04	44,04	44,04
	AHS-C	kWh/rok	87,76	86,95	87,36	86,14	86,14	86,14

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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/(m2.a)	-17,47	-17,47	-17,34	-17,51	-17,41	-17,35
	SEC-A	kWh/(m2.a)	-42,17	-42,28	-42,03	-42,21	-42,22	-42,05
	SEC-C	kWh/(m2.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	η_t	%	85%	86%	85%	85%	86%	85%
Maximum flow rate	Q_m	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	L _{wA}	dB	37	38	42	35	36	42
Reference flow rate	Q_r	m ³ /h	122	259	399	199	255	395
Reference flow rate	Q_r	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			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
	CTRL							
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/rok	1,31	1,35	1,37	1,30	1,38	1,36
	AEC-A	kWh/rok	1,76	1,80	1,82	1,75	1,83	1,81
	AEC-C	kWh/rok	7,13	7,17	7,19	7,12	7,20	7,18
Annual Heating Saved	AHS-W	kWh/rok	20,75	20,85	20,75	20,75	20,85	20,75
	AHS-A	kWh/rok	45,90	46,11	75,90	45,90	46,11	45,90
	AHS-C	kWh/rok	89,79	90,19	89,79	89,79	90,19	89,79
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