

DLSE+VAV DUCTED MEDIUM STATIC PRESSURE MONOSPLIT



All sizes except DLSE 043



+ PRODUCTS

- Variable Air Volume Solution.
- Weekly timer.
- Water pump included.
- Super quiet.



RCW2 C85-R (included with damper) RC08W (optional)

FEATURES

DC INVERTER	LOW VOLTAGE STARTUP	LOW TEMPERATURE STARTUP	R410A FLUID
VAV COMPATIBILITY	ELECTRONIC EXPANSION VALVE	I FEEL	SLEEP MODE
SUPER QUIET	TURBO MODE	PROGRAMMABLE TIMER	SELF DIAGNOSTIC
LOW BATTERY INDICATION	RESTART	REMOTE CONTROL LOCK	ADVANCED DEFROST
ALARM OUTPUT	BMS COMPATIBLE	SERVICE MONITOR TOOL	POWER CONSUMPTION CONTROL
WIRED REMOTE CONTROL DIAGNOSTIC	OUTDOOR UNIT DIGITAL DIAGNOSTIC (DLSE 24-30-36)	OUTDOOR UNIT NIGHT MODE DRY CONTACT (DLSE 24-30-36)	OUTDOOR UNIT STAND-BY (DLSE 24-30-36)
OUTDOOR UNIT ALARM OUTPUT (DLSE 24-30-36)	TEST MODE	LOW AMBIENT COOLING	LOW AMBIENT HEATING
STERILIZER (WITH MOTORIZED GRILL)	WIFI		



GLOBAL AND INVISIBLE SOLUTION FOR YOUR HOME

Indoor unit

Outdoor unit

- "I Feel" function with precise room temperature control.
- Unique fan technology increases air volume and high static pressure while keeping low noise level.
- Quiet operation by using aerodynamic centrifugal fan.
- Space saving due to low unit height and compact dimensions.
- Tubing length up to 70 m and max. height of 30 m.
- External static pressure up to 100 Pa.
- Possibility to reverse dry contact: normally open/normally closed.

Zone control: Ideal temperature in each room



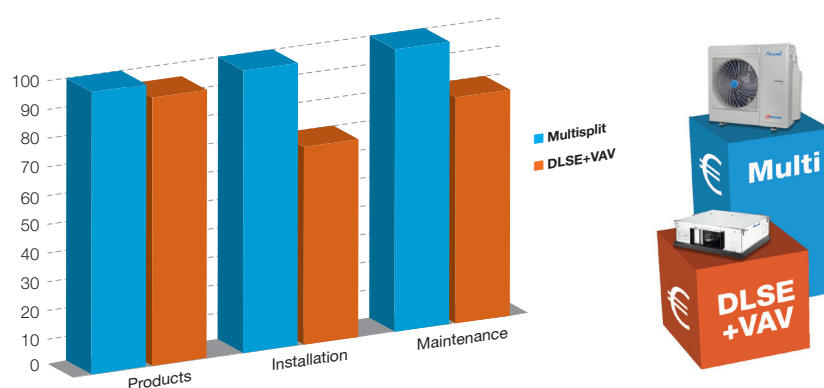
ZONE CONTROL FUNCTION

- Smart air conditioning: Controls up to 6 rooms.
- Each zone has a standalone remote control, to control temperature, "I Feel" and ON/OFF.
- Option to define automatic damper movement or manually to keep max. opening position.
- By-pass damper operates according to system load, which ensures air circulation in the indoor unit.
- Auto-mode: automatically recognizes cooling or heating mode.
- Motorized damper with DC step motor for accurate damper position.
- The blowing dampers change their position (open/close), in accordance with the temperature setpoint in each room, which keeps required temperature.

ENERGY AND COST SAVING

- Two levels of energy saving:
 - by the inverter system following the area load,
 - stops the system when all rooms have reached the chosen temperature and reduces the motor speed.

COST COMPARISON BETWEEN 2 SYSTEMS ON A "STANDARD" HOUSE.



EASY INSTALLATION

- Simple wiring connection by connectors and set up.
- Up to 70m between indoor and outdoor units.
- Monosplit indoor unit: time saving (little tubing).
- Option for installing the control box besides the unit.
- Water pump and overflow switch built in.

Good to know!

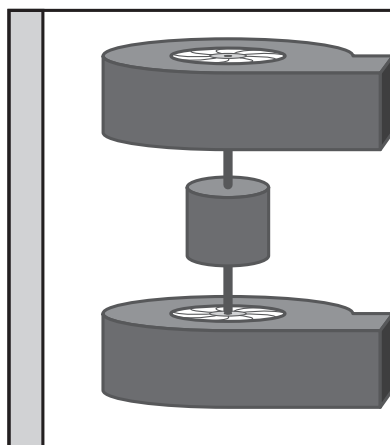
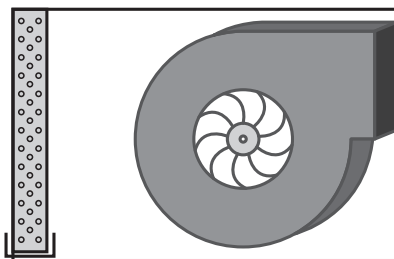
Use our design document to select easily your system.

Ask us this helpful file: mkg@airwell-res.com

SPECIAL DESIGN FOR YOUR CONVENIENCE

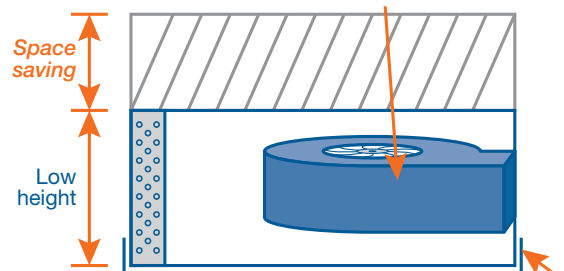
- Unique V shape coil.
- Extra slim indoor unit (low height: 256 mm only).

STANDARD DESIGN

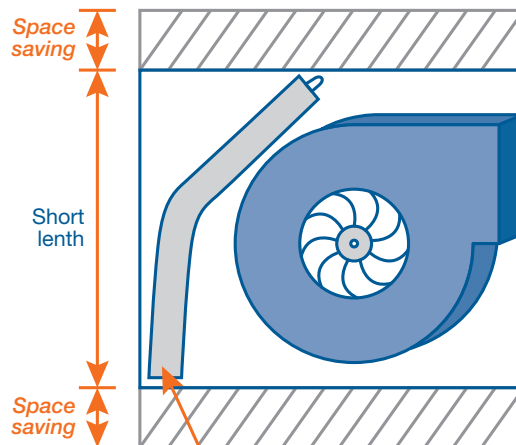


DLSE

Horizontal fan, higher air volume + high static pressure



full profile limits risks of condensation

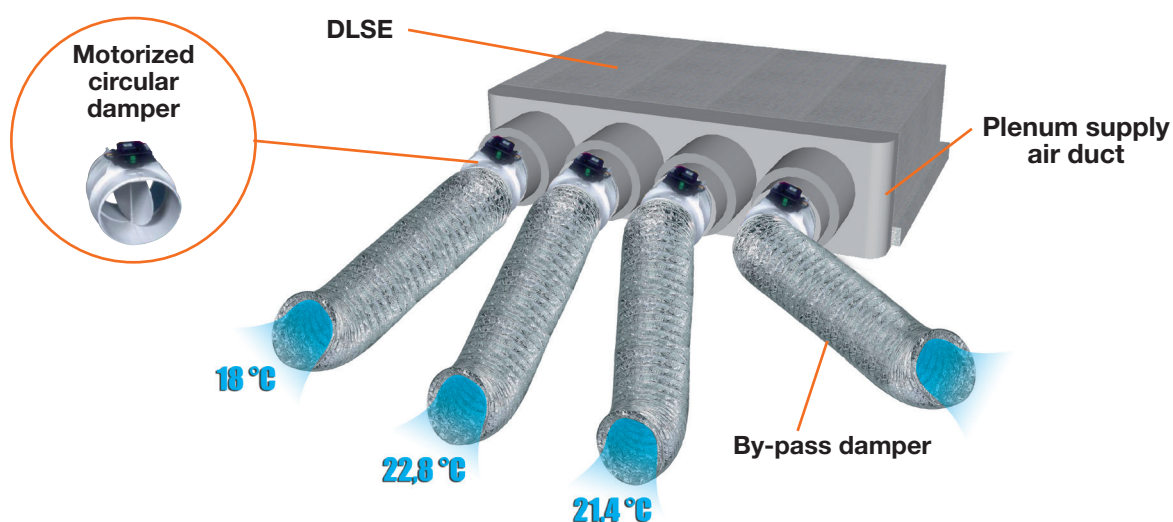


V shape coil for better performance and compact design

How to order?

- For each installation select first the damper type, round or rectangular.
- The main controller is identical except the set up which is done during the installation.
- After that, select motorized round damper, by-pass damper and plenum (see table below).

ROUND APPLICATION



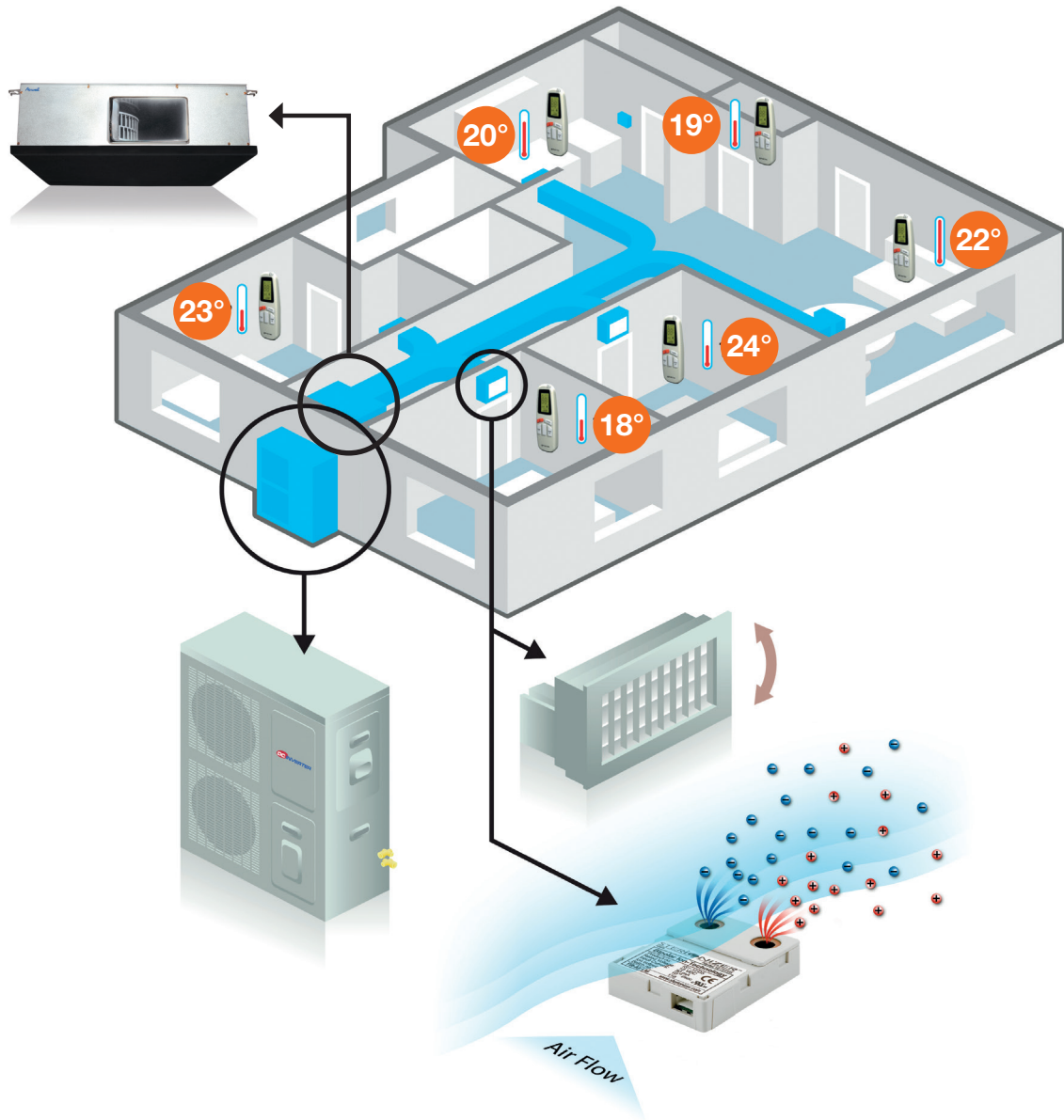
MOTORIZED ROUND TYPE ACCESSORIES

Part description	Product code
Main controller VAV kit	7ACEL1641
Motorized round damper (D=150 mm) kit (Wireless controller C85-R included)	7ACEL1648
Motorized round damper (D=200 mm) kit (Wireless controller C85-R included)	7ACEL1649
Motorized round damper (D=250 mm) kit (Wireless controller C85-R included)	7ACEL1650
Motorized by-pass round damper (D=200 mm) kit (Wireless controller C85-R included)	7ACEL1651
Motorized by-pass round damper (D=250 mm) kit (Wireless controller C85-R included)	7ACEL1652

PLENUM ACCESSORIES: ROUND APPLICATION

Part description	Models	Product code
Air duct plenum - 4 ducts + 1 by-pass	DLSE 18/24	7ACVF0130
Air duct plenum - 6 ducts + 1 by-pass	DLSE 18/24	7ACVF0131
Air return grill	DLSE 18/24	7ACVF0132
Air duct plenum - 4 ducts + 1 by-pass	DLSE 30 and up	7ACVF0133
Air duct plenum - 6 ducts + 1 by-pass	DLSE 30 and up	7ACVF0134
Air return grill	DLSE 30 and up	7ACVF0135

RECTANGULAR APPLICATION






MOTORIZED RECTANGULAR TYPE ACCESSORIES

Part description	Product code
Main controller VAV kit	7ACEL1641
Motorized grill (30 cm x 15 cm) kit (Wireless controller C85-R included)	7ACEL1642
Motorized grill (40 cm x 15 cm) kit (Wireless controller C85-R included)	7ACEL1643
Motorized grill (50 cm x 15 cm) kit (Wireless controller C85-R included)	7ACEL1644
Motorized by-pass damper (40 cm x 15 cm) kit	7ACEL1645
Motorized by-pass damper (50 cm x 15 cm) kit	7ACEL1646
Duct frame profile for grille 150 mm	7ACVF0551
Duct frame profile for grille 300 mm	7ACVF0552
Duct frame profile for grille 400 mm	7ACVF0553
Duct frame profile for grille 500 mm	7ACVF0554
Sterionizer kit for motorized grill	7ACEL1655

DLSE TECHNICAL DATA

Indoor units		AWSI-DLSE018-N11	AWSI-DLSE024-N11	AWSI-DLSE030-N11	AWSI-DLSE036-N11		AWSI-DLSE043-N11	
Outdoor units		AWAU-YBDE018-H11	AWAU-YBDE024-H11	AWAU-YBDE030-H11	AWAU-YBD036-H11	AWAU-YBD036-H13	AWAU-YBD042-H11	AWAU-YAD042-H13
COOLING								
Rated power	kW	5.0 (2.3-5.9)	6.8 (1.7-7.4)	7.5 (2.8-8.4)	9.5 (4.8-12.5)	9.5 (4.8-12.5)	12.5 (4.5-14.5)	12.5 (4.5-14.5)
Pdesignc	kW	5.0	6.8	7.5	9.5	9.5	-	-
Rated power input	kW	1.22	1.93	2.46	3.31	3.04	3.73	3.56
SEER/Energy label		5.8/A+	5.4/A	5.5/A	5.6/A+	4.7/B	3.35/A	3.51/A
Operating limits	°C	-10°/46° Dry bulb						
HEATING								
Rated power	kW	5.6 (1.9-7.5)	7.6 (1.8-8.5)	8.6 (2.8-9.4)	10.5 (2.7-12.5)	11.6 (4.9-12.5)	14.0 (4.5-16.0)	14.0 (4.5-16.0)
Pdesignh		5.5	7.5	8.6	9.5	10.5	-	-
Rated power input	kW	1.35	1.88	2.31	2.80	3.00	4.1	3.99
SCOP/Energy label (average climate)		3.9/A	3.8/A	3.9/A	3.8/A	3.9/A	3.41/B	3.51/B
SCOP/Energy label (warmer climate)		4.6/A+	4.9/A++	4.3/A+	4.6/A+	4.7/A++	-	-
Operating limits	°C	-15°/24° Dry bulb						
Power @ -10°C	kW	5.3	5.8	7.1	6.9	8.9	9.3	9.3
Power @ -15°C	kW	4.7	5.2	6.3	6.2	8.0	8.3	8.3
INDOOR UNIT								
Sound pressure level to 1 m (LS/MS/HS/SS)	dB(A)	35/38/41/43	38/42/45/48	39/43/46/48	41/45/46/48	41/45/46/48	42/46/53	42/46/53
Sound power level (LS/MS/HS/SS)	dB(A)	52/55/58/60	55/59/62/65	56/60/63/65	56/61/63/65	56/61/63/65	57/61/70	57/61/70
Airflow (LS/MS/HS/SS)	m³/h	740/875/1060/1150	870/1090/1220/1410	950/1140/1290/1410	1290/1550/1670/1750	1290/1550/1670/1750	1315/1530/2025	1315/1530/2025
External static pressure Range	Pa	25 (25-60)	25 (25-80)	25 (25-80)	37 (37-100)	37 (37-100)	50 (50-100)	50 (50-100)
Dehumidification	l/h	1.5	2.3	2.7	3.5	4.6	3.3	3.8
Outline dimensions (WxHxD)	mm	790x256x749	790x256x749	790x256x749	854x297x816	854x297x816	854x297x816	854x297x816
Package dimensions (WxHxD)	mm	960x300x855	960x300x855	960x300x855	1005x345x915	1005x345x915	1005x345x915	1005x345x915
Net weight/Gross weight	kg	29/31.5	30/32.5	31/33.5	33/35.5	33/35.5	33/35.5	33/35.5
Part number		7SP032154	7SP032155	7SP032156	7SP032157	7SP032157	7SP032087	7SP032087
OUTDOOR UNIT								
Sound pressure level to 1 m	dB(A)	53	55	56	58	58	58	58
Sound power level	dB(A)	65	67	68	69	69	70	70
Airflow	m³/h	2500	2750	3400	4150	4150	5700	5700
Compressor type		Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Scroll DC Inverter	Twin Rotary DC Inverter
Outline dimensions (WxHxD)	mm	900x700x340	900x700x340	900x860x340	900x970x340	900x970x340	900x1250x340	900x1250x340
Package dimensions (WxHxD)	mm	985x730x435	985x730x435	985x905x435	985x1020x435	985x1020x435	980x1400x420	980x1400x420
Net weight/Gross weight	kg	56/58.5	61/63.5	66/68.5	80/82.8	85/87.8	110/121	110/121
Part number 1-230V - 50 Hz		7SP061886	7SP061887	7SP061922	7SP061923	-	7SP061815	-
Part number 3-400V - 50 Hz - N		-	-	-	-	7SP061900	-	7SP061757
POWER SUPPLY 1-230V - 50 HZ								
Power supply side		Ind. & Out.	Outdoor	Outdoor	Outdoor	-	Outdoor	-
Power cable section	mm²	3x2.5	3x2.5	3x2.5	3x4.0	-	3x6.0	-
Fuse rating am	A	20	20	20	25	-	32	-
Electrical connections	mm²	4x1.5	4x1.5	4x1.5	3x1.5 + 2x0.75	-	3x1.5 + 2x0.75	-
POWER SUPPLY 3-400V - 50 HZ - N								
Power supply side		-	-	-	-	Outdoor	-	Outdoor
Power cable section	mm²	-	-	-	-	5x2.5	-	5x2.5
Fuse rating am	A	-	-	-	-	3x16	-	3x16
Electrical connections	mm²	-	-	-	-	3x1.5 + 2x0.75	-	3x1.5 + 2x0.75
PIPE LINE								
Suction pipe diameter	inches	1/2"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"
Liquid pipe diameter	inches	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Max. length	m	30	30	50	70	70	70	70
Max. height	m	15	15	25	30	30	30	30

COMBINATIONS

Indoor unit	Compatible with outdoor unit
Ducted	Monosplit
DLSE 18 	YBDE 
DLSE 24 to 43 	YBDE 