

NEW

# FDHM

## Floor ceiling

COOLING A++ HEATING A+ FLUID R32



RC21 included

+ PRODUCT

- RC21 remote control included
- Sill or ceiling installation
- Low profile
- Long-range airflow 9 to 12 m
- Antibacterial filter
- UVC sterilisation
- Wide air diffusion angle

Connectivity



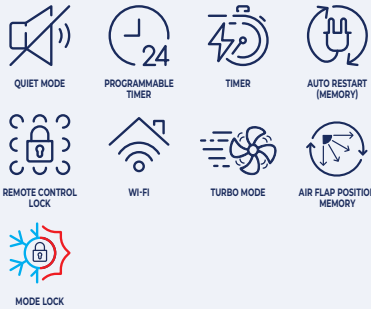
Technology



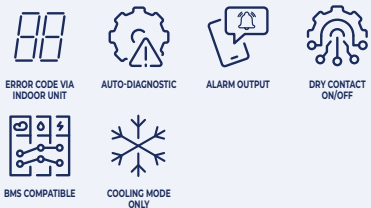
Air quality



User functions



Installer functions



CERTIFICATION

- AIRWELL participates in the ECP programme for AC1. Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



- Tested according to international standards:



+ SUSTAINABLE DEVELOPMENT

- Energy label A++ in cooling mode and A+ in heating mode, guaranteeing optimised consumption and energy savings.

+ USER

- Wide air diffusion angle: left/right sweep angle up to 100°, and up/down sweep angle up to 70°.
- Multiple connectable applications, thanks to dry contact: room card, presence detection.
- Wall or ceiling installation, ideal to adapt to the room.

+ INSTALLER

- Fresh air supply.
- Installation for ceiling lights up to 4.2 m high (14 and 16 kW).
- Simplified maintenance: Quick access to wiring (2 screws) and electronic board (1 screw) after simply opening the grille.

+ TECHNOLOGY

- This unit ensures optimal regulation thanks to its electronic expansion valve, which guarantees greater operating precision.
- The unit includes an on/off contact that can be linked to an access card ('room card') to save energy, as well as an alarm contact (synthetic fault) for safety.
- It has a wide operating range of -20°C to 50°C.
- For increased durability, the heat exchangers are treated with Blue Fin to prevent corrosion.

OPTIONS

ACCESSORY	CODE	PICTURE	FUNCTION
Wired remote control RWW11	7ACELH039		<ul style="list-style-type: none"> <li>• On/off, set temperature adjustment, fan speed selection, operating mode selection and air flow adjustment.</li> </ul>
Touchscreen control panel RWW13	7ACEL1944		<ul style="list-style-type: none"> <li>• 12.5-inch LCD touchscreen with high-definition display (1920x1080) and excellent image quality.</li> <li>• Centralised management of up to 800 indoor units.</li> <li>• Connection of up to 128 LCAC indoor units possible.</li> <li>• Web access with error notifications via email.</li> <li>• Remote control and supervision via PC on local area network (LAN).</li> <li>• Display of floor plans.</li> <li>• Weekly programming.</li> <li>• Checking of outdoor unit settings.</li> <li>• Power consumption management (new feature).</li> </ul>
Control unit RWW09	7ACELH038		<ul style="list-style-type: none"> <li>• Reading and operating parameters.</li> <li>• History and display of fault codes.</li> <li>• Weekly programming.</li> <li>• Modbus RTU signal output: can be combined with a Wi-Fi module or third-party device.</li> </ul>
ADV06 (mandatory with RWW09)	7ACEL1945		<ul style="list-style-type: none"> <li>• Modbus adapter for BMS.</li> </ul>
ADV07 (mandatory with RWW13)	7ACEL1951		<ul style="list-style-type: none"> <li>• Number of controllable indoor units: 64 (centralised controller), 40 (GTB).</li> <li>• Electricity consumption monitoring.</li> <li>• Mandatory connection to RWW13.</li> </ul>
TD03	7ACEL1919		<ul style="list-style-type: none"> <li>• Display and recording of all operating parameters.</li> </ul>

TECHNICAL DATA

INDOOR UNIT		FDHM-050N-09M22	FDHM-070N-09M22	FDHM-100N-09M22	FDHM-140N-09M22	FDHM-160N-09M22
Code		7SP024090	7SP024092	7SP024094	7SP024096	7SP024098
<b>COOLING</b>						
Rated power (min./max.)	kW	5.0 (1.4~5.7)	7.1 (2.0~8.2)	9.5 (2.5~10.0)	13.4 (3.5~14.0)	16.0 (4.5~16.5)
Rated power	Btu/h	17060	24200	32400	45700	54600
Rated power input (min./max.)	kW	1.45 (0.5~2.0)	2.21 (0.50~4.00)	3.11 (0.50~4.00)	5.13 (1.0~6.5)	5.39 (1.0~6.5)
Energy label		A++	A++	A++	A+	A++
EER		3.48	3.23	3.25	2.61	2.97
SEER		7.31	6.20	6.20	5.97	6.10
Seasonal power (35°C)	kW	5.0	7.1	9.5	13.4	16.0
Annual energy consumption	kW	240	406	653	792	924
Operating limits	°C	-20~50°				






<b>HEATING</b>						
Rated power (min./max.)	kW	5.8 (1.4~6.0)	7.8 (2.5~8.5)	10.5 (3.0~12.5)	15.0 (4.0~15.5)	17.0 (5.0~18.0)
Rated power	Btu/h	20136	26600	35800	51200	58000
Pdesignh (warmer climate) (2°C)	kW	2.80	4.45	5.20	5.00	5.95
Rated power input (min./max.)	kW	1.56 (0.52~2.35)	2.10 (0.50~4.00)	3.15 (0.50~4.00)	4.97 (1.0~6.5)	4.97 (1.0~6.5)
Annual energy consumption	kW	1491	1831	2898	2995	3791
Annual energy consumption (warmer climate)	kW	743	1721	1900	1276	1665
Energy label		A+	A+	A+	A+	A+
SCOP/Energy label (warmer climate)		5.2/A+++	5.32/A++	4.8/A++	4.93/A++	5/A++
COP		3.73	3.71	3.71	3.05	3.42
SCOP		4.10	4.00	4.05	4.00	4.06
Seasonal power (-10°C)	kW	4.4	5.0	7.2	8.5	11.0
Operating limits	°C	-20~24°				

INDOOR UNIT						
Phase/Voltage/Frequency		1P/220-240V/50-60Hz				
Airflow (TLS/LS/MS/HS)	m³/h	500/650/750/880	840/930/1128/1250	1160/1280/1400/1600	1600/1800/1980/2150	1650/1850/2000/2250
Sound pressure	dB(A)	57	61	63	66	67
Sound level (TLS/LS/MS/HS)	dB(A)	35/38/41/44	35/38/40/43	37/41/43/46	40/43/46/48	40/43/46/48
Unit dimensions (WxHxD)	mm	1000x680x230	1325x680x230	1325x680x230	1650x680x230	1650x680x230
Package dimensions (WxHxD)	mm	1100x779x305	1425x779x305	1425x779x305	1750x779x305	1750x779x305
Net weight/Gross weight	kg	26/32	34/42	34/42	43/51	43/51

OUTDOOR UNIT		YDAM-050R-09M25	YDAM-070R-09M22	YDAM-100R-09M22	YDAM-140R-09T32	YDAM-160R-09T32
Code		7SP063282	7SP063284	7SP063286	7SP063288	7SP063290
Phase/Voltage/Frequency		1P/220-240V/50-60Hz				3P/380-415V/50-60Hz
Airflow (HS)	m³/h	3000	3000	3500	4500	7400
Sound pressure (HS)	dB(A)	51	54	54	58	58
Sound level (HS)	dB(A)	63	68	68	74	72
Compressor type		Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Unit dimensions (WxHxD)	mm	820x642x306	890x700x340	950x815x370	950x965x370	950x1350x370
Package dimensions (WxHxD)	mm	940x697x390	985x720x430	1085x850x465	1050x1130x485	1050x1500x485
Net weight/Gross weight	kg	37.8/40.5	37/42	56/60	68/78	101/116

PIPE LINE						
Liquid pipe diameter	inches	1/4"	3/8"	3/8"	3/8"	3/8"
Gas pipe diameter	inches	1/2"	5/8"	5/8"	5/8"	3/4"
Max. length	m	25	50	50	70	70
Max. height	m	15	30	30	30	30
Maximum piping length without refrigerant charge	m	7	10	30	30	30
Refrigerant/GWP		R32/675	R32/675	R32/675	R32/675	R32/675
Charge	kg	1.1	1.3	1.7	2.5	3.5
Additional charge	g/m	20	45	45	45	60

MATCHING

INDOOR UNITS	FDHM-050N	FDHM-070N	FDHM-100N	FDHM-140N	FDHM-160N
COMPATIBLE WITH MONOSPLIT OUTDOOR UNIT					
	YDAM-050	YDAM-070	YDAM-100	YDAM-140	YDAM-160