

Air Conditioning and Heat Pumps

Architects of your environment

AIR CONDITIONING • HEATING • VENTILATION

DC Inverter



www.powrmatic.co.uk
e & oe



Super DC Inverter

DC Inverter

DWOF

R-410A



Split

Luna Split



Auto Restart Function



Formaldehyde Filter



LED Display



Sleep Mode



Turbo Mode



Temp Compensation



Plasma



Golden Fin



Heating Belt (outdoor)



Vitamin C Filter



Bio Filter



Silver Ion Filter



Low Ambient Cooling



Ionizer



Super Ionizer



VLED Display

Features: Standard Optional

Luna High Wall Mounted Split Units

Internal Unit		DC Inverter	LHWMS09	LHWMS12	LHWMS18	LHWMS24	
Capacity	Cooling Capacity	Btu/h	9000(2050-11800)	12000(4000-14200)	17000(5200-19000)	23000(12000-25000)	
		kW	2.6(0.6-3.4)	3.5(1.2-4.2)	5.0(1.5-5.5)	6.7(3.5-7.3)	
	Heating Capacity	Btu/h	10000(3200-13800)	13000(4100-15100)	17500(5300-23000)	25000(11000-27000)	
		kW	2.9(0.9-4.0)	3.8(1.2-4.4)	5.1(1.5-6.7)	7.3(3.2-7.9)	
Electrical	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	
	Power Input (W)	Cooling	820(230-1120)	1090(350-1220)	1550(380-2300)	2100(820-2500)	
		Heating	810(230-1010)	1050(350-1150)	1420(350-2000)	2030(800-2700)	
	Operating Current (A)	Cooling	3.6(1.0-4.7)	4.8(1.5-5.0)	6.9(1.8-10.2)	9.4(3.6-11.2)	
Heating		3.6(1.0-4.2)	4.6(1.5-4.8)	6.2(1.6-9.0)	9.1(3.5-12.0)		
Performance	EER	W/W	3.22	3.23	3.21	3.21	
	COP	W/W	3.62	3.63	3.61	3.61	
	Energy Rate		A/A	A/A	A/A	A/A	
	Air Flow Volume m³/h	Indoor		550/450/350	600/520/400	800/700/600	1150/1000/900
		Noise Level dB(A)	Indoor (Hi/Med/Low)	37/33/26	39/34/28	41/34/29	49/46/43
		Outdoor	52	52	56	57	
Dimension, Weight & Piping Sizes	Net Dimension (mm)	Indoor (WxHxD)	710x250x190	790x265x198	918x292x223	998x322x235	
		Outdoor (WxHxD)	670x540x250	670x540x250	760x590x285	845x695x335	
	Net Weight (kg)	Indoor/Outdoor	7.5/26.5	9/29	11.5/39.5	13/49.5	
	Packing Dimension (mm)	Indoor (WxHxD)	770x318x265	875x335x265	1015x368x295	1080x400x320	
		Outdoor (WxHxD)	770x585x325	770x585x325	887x645x355	965x755x395	
	Gross Weight (kg)	Indoor/Outdoor	9.5/28.5	11/31	14.5/41	17/52.5	
Piping Size (mm)	Liquid		Ø 6.35 (1/4")	Ø 6.35 (1/4")	Ø 6.35 (1/4")	Ø 9.53 (3/8")	
	Gas		Ø 9.53 (3/8")	Ø 9.53 (3/8")	Ø 12.7 (1/2")	Ø 16.0 (5/8")	

Note: The noise level data reflects the level in anechoic chamber

Condenser Details

Outdoor Unit			MOR2-09HDN1-QC2	MOR4-12HDN1-QC2	MOC2-18HDN1-QC2	MOF-24HDN1-QC2W
Capacity	Cooling Capacity	Btu/h	11021	11021	13170	15286
		kW	3.2	3.2	3.9	4.5
	Heating Capacity	Btu/h	11021	11021	13170	15286
		kW	3.2	3.2	3.9	4.5
Electrical	Power Supply	V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
	Air Flow Volume	m³/h	1600	1600	2200	2700
	Noise Level	dB(A)	54	54	55	55
Dimension & Weight	Net Dimension (mm)	WxHxD	670x265x540	670x265x540	760x285x590	845x320x700
	Net Weight	kg	26.5	29.0	37.5	49.5
	Packing Dim (mm)	WxHxD	770x325x570	770x325x570	887x355x645	965x395x755
	Gross Weight	kg	28.5	31.0	39.0	52.5
Piping Size	Liquid Size	mm	Ø 6.35	Ø 6.35	Ø 6.35	Ø 9.52
	Gas Size	mm	Ø 9.52	Ø 9.52	Ø 12.7	Ø 16.0
	Max pipe Length	m	20	20	25	25
	Max height difference	m	8	8	10	10



Frost Protection:

In heating operation, the preset temperature of the air conditioner can be as low as 8°C, which keeps the room temperature steady at 8°C and prevents area from freezing when the room/office is vacant from an extended period of time in cold weather.

Electronic Expansion Valve

The Electronic Expansion Valve (EEV) makes the refrigerant volume reasonable in the air conditioner system, which optimises the use of the heat exchanger and improves energy efficiency. Furthermore the EEV improve the performance under different temperature conditions and makes room temperature control more precise.





Compact Round Flow Cassette



Auto Defrosting



Auto Restart Function



Anti-Cold Air Function



360 Air Flow Panel



Sleep Mode



Built-in Drain Pump



Independent Dehumidification



Wired Controller



Low Ambient Cooling



PTC Heater

Features: ■ Standard ■ Optional

Compact Round Flow Cassette

Indoor Unit		DC Inverter	CRFC12	CRFC18
Capacity	Cooling Capacity	Btu/h	13680-12000-4800	19260-18000-6120
		kW	4.0-3.2-1.4	5.6-5.3-1.8
	Heating Capacity	Btu/h	15340-13000-4550	20800-20000-4800
		kW	4.5-4.0-1.3	6.1-6.0-1.4
Electrical	Power Supply	V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1
	Power Input (kW)	Cooling	1.25-1.03-0.31	2.07-1.55-0.55
		Heating	1.39-1.05-0.37	2.02-1.61-0.56
Performance	EER	W/W	3.41	3.41
	COP	W/W	3.63	3.64
	Air Flow Volume	m³/h	683/530/510	800/710/560
	Noise Level dB(A)	Hi/Med/Low	42/41/38	42/41/38
Dimension, Weight & Piping Sizes	Net Dimension (mm)	Body (WxHxD)	570x260x570	570x260x570
		Panel (WxHxD)	647x50x647	647x50x647
	Net Weight (kg)	Body	16	18
		Panel	3	3
	Packing Dimension (mm)	Body (WxHxD)	655x290x655	655x290x655
		Panel (WxHxD)	705x113x705	705x113x705
	Gross Weight (kg)	Body	20	21
		Panel	5	5
	Piping Size (mm)	Liquid	Ø 6.4	Ø 6.4
		Gas	Ø 12.7	Ø 12.7
Drainage		ODØ 25	ODØ 25	

Note: The noise level data reflects the level in anechoic chamber

Condenser Details

Outdoor Unit			MOU-12HDN1-Q	MOU-18HDN1-Q
Capacity	Cooling Capacity	Btu/h	12000	18000
		kW	3.2	5.3
	Heating Capacity	Btu/h	13000	20000
		kW	4.0	6.0
Electrical	Power Supply	V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1
	Air Flow Volume	m³/h	2500	2570
	Noise Level	dB(A)	48	51
Dimension & Weight	Net Dimension (mm)	WxHxD	760x590x285	760x590x285
	Net Weight	kg	39	40
	Packing Dim (mm)	WxHxD	887x645x355	887x645x355
	Gross Weight	kg	42	42.5
Piping Size	Liquid Size	mm	Ø 6.4	Ø 6.4
	Gas Size	mm	Ø12.7	Ø 12.7
	Max pipe Length	m	15	25
	Max height difference	m	8	15



Compact Design

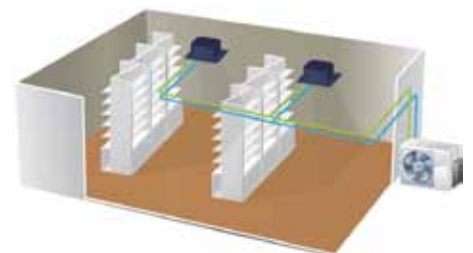
The body design of this unit is 570x570x260mm and the panel size is 647x647x50mm.

It can be installed in one standard ceiling tile (600x 600mm) which can save installation time and provide an ease of installation.



360° Air Outlet Panel

360° round flow air outlet panel provides equal, fast and wide range cooling.



Twin Combination

The units can be installed as Twin systems: one outdoor unit can connect with two indoor units. The units can be combined as follows:

2 x size 18 internal units with 1 x size 36 outdoor unit

NEW
Slim
Design

R-410A

Super DC Inverter

DC Inverter

Super Slim Round Flow Cassette



Auto Defrosting



Auto Restart Function



Anti-Cold Air Function



LED Display



Sleep Mode



Slim Design



Fashion Design



Independent Dehumidification



Quiet Design



Timer



Wide-angle Air flow



360 Air Flow Panel



Built-in Drain Pump



PTC Heater



Low Ambient Cooling



Wired Controller



Optional Color Panels

Features:  Standard  Optional

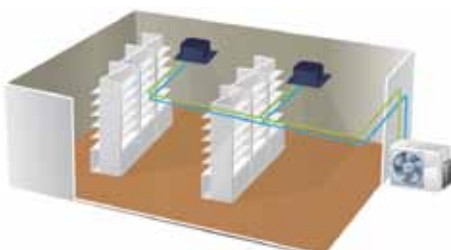
Super Slim Round Flow Cassette

Indoor Unit		DC Inverter	SSRFC24	SSRFC36	SSRFC48
Capacity	Cooling Capacity	Btu/h	27000-24000-5400	42310-36000-9800	51200-48000-11600
		kW	7.9-7.0-1.6	12.4-10.5-2.9	15.0-14.0-3.4
	Heating Capacity	Btu/h	29000-26000-5800	45050-38000-12600	54600-52000-14330
		kW	8.5-7.6-1.7	13.2-11.4-3.7	16.0-15.2-4.2
Electrical	Power Supply	V~,Hz,Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
	Power Input (kW)	Cooling	2.80-2.16-0.65	4.21-3.24-0.97	5.61-4.32-1.30
		Heating	2.68-2.06-0.62	4.08-3.14-0.94	5.38-4.13-1.24
Performance	EER	W/W	3.24	3.24	3.24
	COP	W/W	3.69	3.63	3.68
	Air Flow Volume	m³/h	1250/1120/920	2010/1750/1480	2010/1750/1480
	Noise Level dB(A)	Hi/Med/Low	43/41/38	48/46/45	48/46/45
Dimension, Weight & Piping Sizes	Net Dimension (mm)	Body (WxHxD)	840x205x840	840x245x840	840x245x840
		Panel (WxHxD)	950x55x950	950x55x950	950x55x950
	Net Weight (kg)	Body	22	23	26
		Panel	6	6	6
	Packing Dimension (mm)	Body (WxHxD)	900x225x900	900x265x900	900x265x900
		Panel (WxHxD)	1035x90x1035	1035x90x1035	1035x90x1035
	Gross Weight (kg)	Body	25	27	29
		Panel	9	9	9
	Piping Size (mm)	Liquid	Ø 9.5	Ø 9.5	Ø 9.5
		Gas	Ø 15.9	Ø 15.9	Ø 15.9
Drainage		ODØ 32	ODØ 32	ODØ 32	

Note: The noise level data reflects the level in anechoic chamber

Condenser Details

Outdoor Unit			MOU-24HDN1-QW	MOU-36HDN1-Q	MOU-48HDN1-Q
Capacity	Cooling Capacity	Btu/h	24000	36000	48000
		kW	7.1	10.5	14.0
	Heating Capacity	Btu/h	26000	40000	52000
		kW	7.6	12.0	15.0
Electrical	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Air Flow Volume	m³/h	2700	5000	6000
	Noise Level	dB(A)	54	55	59
Dimension & Weight	Net Dimension (mm)	WxHxD	845x695x335	990x966x354	940x1245x360
	Net Weight	kg	53	82	106
	Packing Dim (mm)	WxHxD	965x755x395	1120x1100x435	1058x1380x438
	Gross Weight	kg	57	87	114
Piping Size	Liquid Size	mm	Ø 9.5	Ø 9.5	Ø 9.5
	Gas Size	mm	Ø 15.9	Ø 15.9	Ø 15.9
	Max pipe Length	m	25	30	50
	Max height difference	m	15	20	25



Twin Combination

The units can be installed as Twin systems: one outdoor unit can connect with two indoor units.

The units can be combined as follows:

2 x size 24 internal units with 1 x size 48 outdoor unit



Touch Screen Wired Controller

Standard high-end touch screen wired controller with failure indication provides a user friendly interface.

This controller is suitable to control only one unit. For control of multiple units please contact Powmatic Ltd.



DC Inverter

ON/OFF



Ceiling & Floor



Anti-Cold Air Function



Auto Restart Function



Auto Defrosting



Timer



Quiet Design



Independent Dehumidification



Sleep Mode



Optional Panels



Optional Connection Ways



PTC Heater



Wired Controller



Low Ambient Cooling

Features: Standard Optional

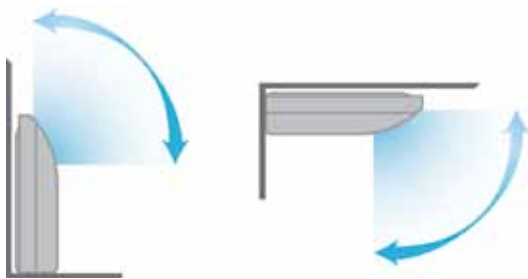
Ceiling & Floor Split Units

Indoor Unit		DC Inverter	CFS24	CFS36	
Capacity	Cooling Capacity	Btu/h	26955-2400-5561	45038-36000-10236	
		kW	7.9-7.1-1.63	13.2-10.5-3.0	
	Heating Capacity	Btu/h	29343-26000-5971	47765-39000-12090	
		kW	8.6-7.6-1.75	14.0-11.5-3.54	
Electrical	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	
	Power Input (kW)	Cooling	2.8-2.17-0.98	5.5-3.29-2.3	
		Heating	2.60-2.07-1.05	5.2-3.17-2.0	
Performance	EER	W/W	3.25	3.21	
	COP	W/W	3.68	3.61	
	Air Flow Volume	m ³ /h	800/600/500	1400/1200/1000	
	Noise Level dB(A)	Hi/Med/Low	43/41/38	45/43/40	
Dimension, Weight & Piping Sizes	Net Dimension (mm)	WxHxD	990X203X660	1280X203X660	
	Net Weight	kg	29	31	
	Packing Dimension	WxHxD (mm)	1037x238x739	1327x238x739	
	Gross Weight	kg	35	37	
	Piping Size (mm)	Liquid		Ø 9.5	Ø 9.5
		Gas		Ø 15.9	Ø 15.9
		Drainage		ODØ 25	ODØ 25

Note: The noise level data reflects the level in anechoic chamber

Condenser Details

Outdoor Unit			MOU-24HDN1-QW	MOU-36HDN1-Q
Capacity	Cooling Capacity	Btu/h	24000	36000
		kW	7.1	10.5
	Heating Capacity	Btu/h	26000	40000
		kW	7.6	12.0
Electrical	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1
	Air Flow Volume	m ³ /h	2700	5000
	Noise Level	dB(A)	54	55
Dimension & Weight	Net Dimension (mm)	WxHxD	845x695x335	990x966x354
	Net Weight	kg	53	82
	Packing Dim (mm)	WxHxD	965x755x395	1120x1100x435
	Gross Weight	kg	57	87
Piping Size	Liquid Size	mm	Ø 9.5	Ø 9.5
	Gas Size	mm	Ø 15.9	Ø 15.9
	Max pipe Length	m	25	30
	Max height difference	m	15	20



Flexible Installation

The unit can be installed either horizontally on the ceiling or vertically against the wall.



Swing Torsion Angles

The unit has auto horizontal swing and auto vertical swing function, which supplies a more even and comfortable airflow.

Accessories

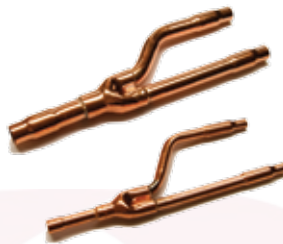
Part Number	Description	Used On
MIDTPD001	Wired Control (Touch Panel Display)	All units except Luna Range, and CRFC12
MIDTPD002	CCM03 Wired Control	All Units except Luna Range
REFNET	Connection Kit	Mult Split Units
MIDCPK002	5mtr Copper Pipe Kit, Specification 6.35mm 9.52mm (1/4" & 3/8")	LHWMS09 / LHWMS12
MIDCPK001	5mtr Copper Pipe Kit, Specification 6.35mm 12.7mm (1/4" & 1/2")	LHWMS18
MIDCPK003	5mtr Copper Pipe Kit, Specification 9.25mm 16mm (3/8" & 5/8")	LHWMS24

Notes

CCM03 controls have a provision for BMS interface. Each unit can control a single air conditioner or up to 64 individual air conditioners.



Pipe Kits



Refnet

Condensers



Luna Range



Compact Round Flow Range



Super Slim Round Flow Range



Ceiling & Floor Split Range

Office contact details

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A full list of Powrmatic contacts can be found on our website. Simply visit <http://www.powrmatic.co.uk/ourteam>.

Company profile

In addition to the Powrmatic range of Air conditioning / Heat Pump products in this brochure, we are also industry leaders in Industrial & Commercial heating and ventilation solutions.

Ventilation

- Ventilation Equipment
- Powered Roof Extract
- Glass Louvred Ventilator
- Twin Flap Natural Ventilator
- Powered Ventilation and Smoke Ventilation

Warm Air Heating

- Cabinet Heaters
- Gas Unit Heaters
- Air Rotation Heaters
- Heat Recovery Fans
- Flue and Chimney systems to suit
- All fuel types - Natural Gas, LPG Propane and Bio-diesel (up to 20% mix)

Radiant Heating & Hot Water Products

- Radiant Plaque and Tube Heaters
- Cast Iron Industrial Boilers
- LTHW unit heaters
- Heat Modules for OEM installers
- Bespoke heating solutions for retail

Applications

Our products are installed in many types of applications, such as:

- Factories
- Warehouses
- Workshops
- Sports & leisure facilities
- Showrooms
- Places of worship
- Greenhouses - Horticultural
- Office & commercial
- Retail premises
- High rise residential apartments
- Education facilities
- Production & industrial facilities



Whatever your air conditioning, heating or ventilation requirements, Powrmatic can provide a total solution from a single source.

Our experienced sales engineers provide expert advice on all aspects of design and application, with after sales service and spares availability guaranteed by our network of regional service engineers and spares stockists strategically located throughout the UK and Ireland.

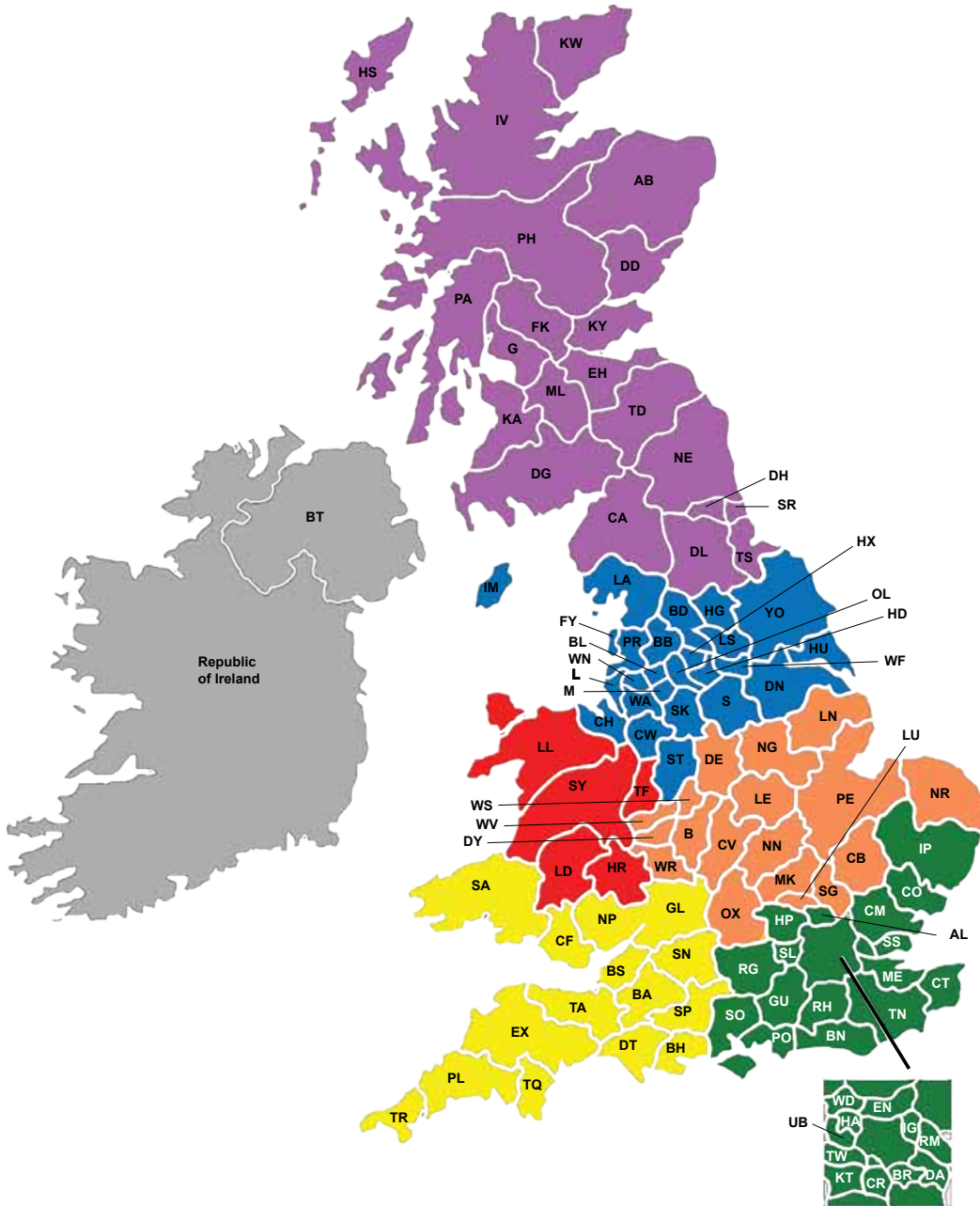
Powrmatic offers customers the most comprehensive range of air conditioning, heating and ventilation solutions available in Europe.

Contact us for more information, or to arrange a site survey and no-obligation quotation.



- Purpose built manufacturing and design facility in the heart of Somerset
- On-site research and development facility
- State of the art manufacturing
- Computer controlled manufacturing
- Fully equipped CAD design office

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