


Holmes		
		DATE: 30.04.2021
Technical Submittal		
Job No. 20090	Project:	Greville Street
Submittal No. TS M005	Client Team	
MITSUBISHI - HVRF & ASHP		
	Approval Required by	07.05.2021
Ref.	Description	
	Please see for Approval/Comment the Mitsubishi Data sheets as Follows: 1. R32 HVRF 2. HBC Controllers 3. HVRF Ceiling cassette 4. HVRF Floor Standing 5. Centralised Controller 6. Local Controller 7. ASHP	
	Designated Consultant to co ordinate response from all parties	
	Organisation	Comments
	Submittal Approval	A B C
Holmes Signature		Respondent Signature
<i>RJ Feist</i>		
For and on behalf of: Holmes Technical Services Ltd		RESPONDENT Co.

Product Information

R32 HVRF R2 Series High Efficiency (22.4-56kW)
Simultaneous Heating and Cooling with
Heat Recovery Outdoor Unit

Making a
World of
Difference

CITY MULTI



Throughout the year, many buildings require cooling in some areas and heating in others - even in adjacent rooms. The outstanding City Multi R2 system meets these requirements by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings up to 30% over conventional systems.

Key Features

- Highest specification, highest efficiency heat recovery system available
- Delivers the highest levels of comfort, both thermally and acoustically
- Flexible design, installation and maintenance

R32 | HybridVRF

Cooling | Heating | Ventilation | Controls

Air Conditioning

Product Information

R32 HVRF R2 Series High Efficiency (22.4-56kW)
Simultaneous Heating and Cooling with
Heat Recovery Outdoor Unit

Making a
World of
Difference

R32

Basement

Grnd, 1st, 2nd,
3rd & 4th
Levels

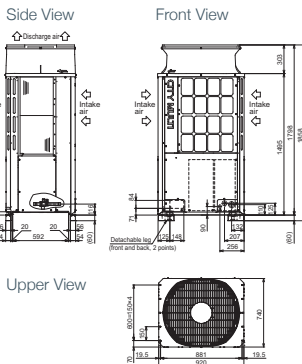
5th & 6th
Levels

OUTDOOR UNITS		PURY-EM200YNW-A1	PURY-EM250YNW-A1	PURY-EM300YNW-A1	PURY-EM300YNW-A1 X 2HBC	PURY-EM350YNW-A1	PURY-EM350YNW-A1 X 2HBC	PURY-EM400YNW-A1	PURY-EM450YNW-A1	PURY-EM500YNW-A1
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	37.5	45.0	45.0	50.0	56.0	58.0
	Cooling (nominal)	22.4	28.0	33.5	33.5	40.0	40.0	45.0	50.0	56.0
	High Performance Heating (UK)	25.0	31.5	37.5	37.5	42.8	42.8	47.5	50.4	52.2
	COP Priority Heating (UK)	22.8	28.7	32.3	32.3	38.7	38.7	43.0	49.3	51.0
	Cooling (UK)	20.1	25.1	30.0	30.0	35.8	35.8	40.3	44.8	50.1
POWER INPUT (kW)	Heating (nominal)	6.23	8.84	10.46	9.93	13.10	12.16	13.88	15.77	17.45
	Cooling (nominal)	5.13	7.69	10.03	8.52	13.91	11.33	13.84	15.24	18.06
	High Performance Heating (UK)	7.54	10.70	14.33	13.60	17.95	16.66	16.10	18.29	20.24
	COP Priority Heating (UK)	6.23	8.84	10.46	9.93	13.10	12.16	13.46	15.30	16.93
	Cooling (UK)	2.98	4.46	5.82	4.94	8.07	6.57	9.00	9.91	11.74
COP / EER (nominal)		4.01 / 4.36	3.56 / 3.64	3.58 / 3.33	3.77 / 3.93	3.43 / 2.87	3.70 / 3.53	3.60 / 3.25	3.55 / 3.28	3.61 / 3.10
SCOP / SEER*		-	-	-	-	-	-	-	-	-
MAX No. OF CONNECTABLE INDOOR UNITS		30	37	45	45	35	35	40	45	50
MAX CONNECTABLE CAPACITY		50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity	50-150% OU Capacity
AIRFLOW (m³/min)	High	170	185	240	240	250	250	315	315	295
	Low	170	185	240	240	250	250	315	315	295
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")	28.58 (1-1/8")
	Liquid	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		59.0 / 59.0	61.0 / 60.5	67.0 / 61.0	67.0 / 61.0	64.0 / 62.5	64.0 / 62.5	69.0 / 65.0	70.0 / 65.5	64.5 / 63.5
SOUND POWER LEVEL (dBA)		78.0 / 76.0	80.0 / 78.5	86.5 / 80.0	86.5 / 80.0	83.0 / 81.0	83.0 / 81.0	88.0 / 83.0	89.0 / 83.0	84.0 / 82.0
WEIGHT (kg)		231	231	231	231	276	276	280	305	348
DIMENSIONS (mm)	Width	920	920	920	920	1240	1240	1240	1240	1750
	Depth	740	740	740	740	740	740	740	740	740
	Height	1858	1858	1858	1858	1858	1858	1858	1858	1858
(1798mm without legs)										
ELECTRICAL SUPPLY*1		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE*1		Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)*1		8	8	8	8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A)*1 Heating/Cooling [MAX]		9.9 / 8.2 [16.1]	14.1 / 12.3 [21.8]	16.7 / 16.0 [23.9]	15.9 / 13.6 [23.9]	21.0 / 22.3 [30.0]	19.5 / 18.1 [30.0]	22.2 / 22.1 [35.9]	25.2 / 24.4 [36.9]	27.9 / 28.9 [46.9]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1		1 x 20	1 x 25	1 x 25	1 x 25	1 x 32	1 x 32	1 x 40	1 x 40	1 x 50
MAINS CABLE No. Cores*1		4	4	4	4	4	4	4	4	4
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R32 (GWP 675)		5.2 / 3.5	5.2 / 3.5	5.2 / 3.5	5.2 / 3.5	8 / 5.4	8 / 5.4	8 / 5.4	10.8 / 7.3	10.8 / 7.3
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R32 (GWP 675)		13.5 / 9.1	13.5 / 9.1	15.5 / 10.5	15.5 / 10.5	15.5 / 10.5	15.5 / 10.5	19.5 / 13.2	19.5 / 13.2	19.5 / 13.2

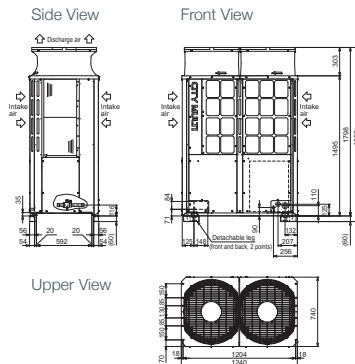
Notes: *SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules. Specification subject to change. R410A equivalent systems are also available - please contact your local sales office for further information.

PRODUCT DIMENSIONS

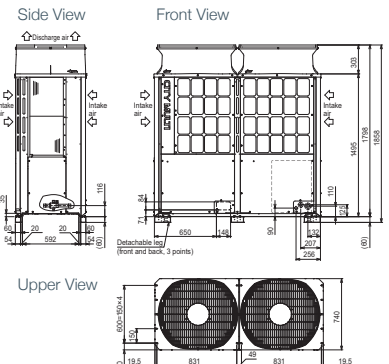
PURY-EM200/250/300YNW-A1



PURY-EM350/400/450YNW-A1



PURY-EM500YNW-A1



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Effective as of February 2019



Set to rival traditional heating and cooling, the new HVRF System delivers optimum comfort and efficiency, using an innovative combination of unique 2-pipe technology and water to provide simultaneous heating and cooling with heat recovery.

Key Features

- Valves, pumps and heat exchangers all contained within the HBC
- Manageable phased installation through modular system design
- Cat A to Cat B is simple through HBC system design
- Intuitive load adjusting flow control valves, inverter driven pumps and heat recovery for maximum efficiency

R32 | HybridVRF



3 HVRF PLFY-WL-VEM-E

4-Way Blow Ceiling Cassette Indoor Unit

CITY MULTI

The new **PLFY-WL-VEM-E** offers 72 different airflow patterns, with the ability to handle a multitude of ceiling applications up to 4.2 metres in height. The easy to install, slim unit is ideal for maintaining constant temperatures, thanks to adjustable vanes that allow users to precisely direct air where it's needed.



Key Features & Benefits:

- Improved airflow control, including horizontal airflow for greater comfort (compared to the previous VBM model)
- Optional 3D i-see sensor grille (PLP-6EAE) provides customised comfort by automatically monitoring room occupancy, position and body temperatures
- Optional filter lowering operation down to 4m (PLP-6EAJ)





White Grille



Basement Ceiling

INDOOR UNITS		PLFY-WL32VE-M-E	PLFY-WL40VE-M-E	PLFY-WL50VE-M-E
CAPACITY (kW)	Heating (nominal)	4.0	5.0	6.3
	Cooling (nominal)	3.6	4.5	5.6
	UK Heating	4.0	5.0	6.3
	UK Total Cooling - Hi (Sensible)	3.20 (3.20)	4.00 (3.60)	5.00 (4.20)
	UK Total Cooling - Mi2	3.16	3.95	4.87
	UK Total Cooling - Mi1	3.09	3.87	4.66
POWER INPUT (kW)	UK Total Cooling - Lo	3.02	3.77	4.39
	Heating (nominal)	0.03	0.03	0.04
	Cooling (nominal)	0.03	0.03	0.04
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	233-250-267-283	233-250-267-283	233-267-300-333
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi	26-27-29-30	26-28-29-31	27-29-31-33
WEIGHT (kg)		20	20	20
DIMENSIONS (mm)	Width (Grille)	840 (950)	840 (950)	840 (950)
	Depth (Grille)	840 (950)	840 (950)	840 (950)
	Height (Grille)	258 (40)	258 (40)	258 (40)
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single
RUNNING CURRENT (A)	Heating / Cooling	0.27 / 0.33	0.29 / 0.35	0.34 / 0.40
FUSE RATING (BS88) - HRC (A)		6	6	6
MAINS CABLE No. Cores		3	3	3
GRILLE MODEL REFERENCE		PLP-6EA	PLP-6EA	PLP-6EA
WATER PIPE CONNECTION		20mm I.D	20mm I.D	20mm I.D

Notes: HVRF indoor units can only be configured with the CMB-WM HBC (HVRF) and PURY-EJM YNW-A1 or PQRY-P YLM-A1 outdoor units.

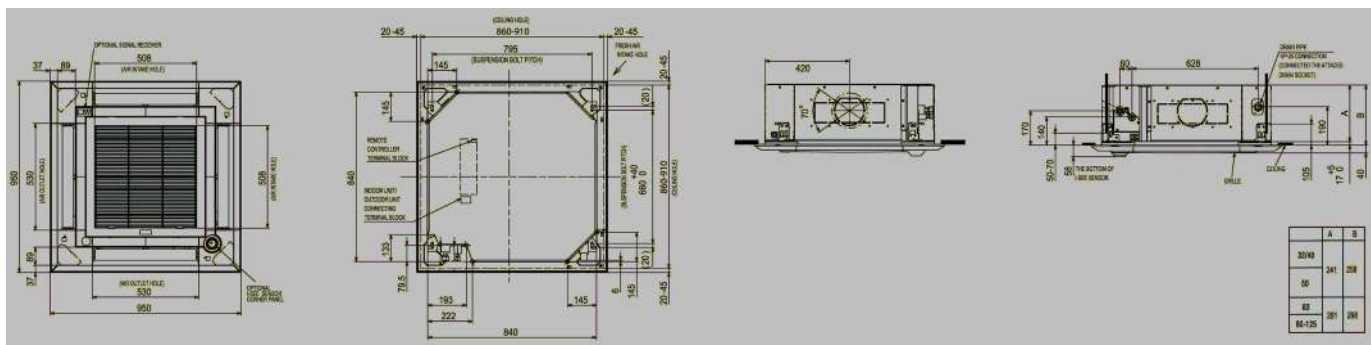
PLFY-WL32/40/50VE-M-E DIMENSIONS

LOWER VIEW

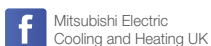
UPPER VIEW

FRONT VIEW

SIDE VIEW



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Effective as of May 2020





A compact concealed unit providing simple, effective air conditioning in perimeter zones. The unit is easy to install and at only 220mm deep offers an unobtrusive method of delivering highly efficient air-conditioning performance.

Key Features

- Reduced noise levels
- 3 static pressure settings - 20/40/60Pa ideal for ducting in the perimeter zone
- Concealed unit for hidden installation. The unit can be hidden behind a wardrobe in a hotel, then ducted above and below the wardrobe doors - this offers lower noise, less disruption and a low visual impact



Air Conditioning

Product Information

PFFY-WP-VLRMM-E (HVRF) Floor Standing Concealed Indoor Unit

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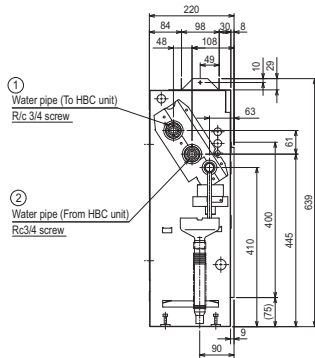
		5th & 6th Level	2nd, 3rd & 4th Levels	Grnd & 1st level	
INDOOR UNITS		PFFY-WP20VLRMM-E	PFFY-WP25VLRMM-E	PFFY-WP32VLRMM-E	PFFY-WP40VLRMM-E PFFY-WP50VLRMM-E
CAPACITY (kW)	Heating (nominal)	2.5	3.2	4.0	5.0 6.3
	Cooling (nominal)	2.2	2.8	3.6	4.5 5.6
	UK Heating	2.5	3.2	4.0	5.0 6.3
	UK Total Cooling - Hi (Sensible)	2.00 (1.50)	2.50 (2.00)	3.20 (2.50)	4.00 (3.10) 5.00 (3.90)
	UK Total Cooling - Mi2	-	-	-	-
	UK Total Cooling - Mi1	1.96	2.42	3.07	3.86 4.82
POWER INPUT (kW)	Heating (nominal)	0.04	0.04	0.05	0.05 0.07
	Cooling (nominal)	0.04	0.04	0.05	0.05 0.07
AIRFLOW (l/s)	Lo-Mi-Hi	75-83-100	100-117-133	125-150-175	133-167-192 175-217-250
EXTERNAL STATIC PRESSURE (Pa)		20-40-60	20-40-60	20-40-60	20-40-60 20-40-60
SOUND PRESSURE LEVEL (dBA) (20Pa) Lo-Mi-Hi		31-33-38	31-33-38	31-35-38	34-37-40 37-42-45
WEIGHT (kg)		22	25	25	29 29
DIMENSIONS (mm)	Width	886	1006	1006	1246 1246
	Depth	220	220	220	220 220
	Height	639	639	639	639 639
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz 220-240v, 50Hz
PHASE		Single	Single	Single	Single 3
RUNNING CURRENT (A) Heating / Cooling		0.35 / 0.35	0.35 / 0.35	0.47 / 0.47	0.47 / 0.47 0.65 / 0.65
FUSE RATING (BS88) - HRC (A)		6	6	6	6 6
MAINS CABLE No. Cores		3	3	3	3 3
WATER PIPE CONNECTION		3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW	3/4" BSP SCREW 3/4" BSP SCREW

Notes: HVRF indoor units can only be configured with the CMB-WP HBC (HVRF) and PURY-(E)P YLM-A or PORY-P YLM-A outdoor units. Indoor unit water connections 3/4" BSP screw.

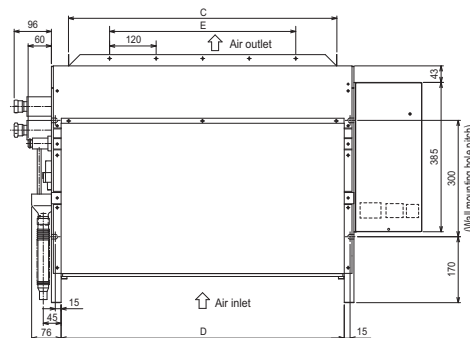
PRODUCT DIMENSIONS

PFFY-WP20/25/32/40/50VLRMM-E (HVRF)

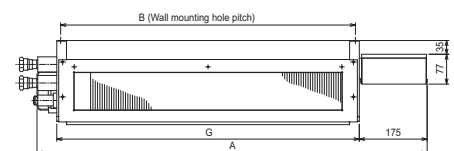
Side View



Front View



Upper View



Dimensions

Model	A	B	C	D	E	F	G	① Water pipe (To HBC unit)	② Water pipe (From HBC unit)
PFFY-WP20VLRMM-E	886	640	572	610	360	4	660	Rc3/4 screw	
PFFY-WP25VLRMM-E	1006	780	692	730	480	5	780		
PFFY-WP32VLRMM-E	1006	780	692	730	480	5	780		
PFFY-WP40VLRMM-E PFFY-WP50VLRMM-E	1246	1000	932	970	720	7	1020		



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Effective as of September 2017

AE-200E Centralised Controller

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5

Controls

CONTROLS



The **AE-200E** is a large 10.4" touch screen centralised controller with simple intuitive operation and control over M-NET network.

Key Features

- 10.4" full function touch screen
- Centralised controller
- Monitor and control up to 50 indoor units (or up to 200 indoor units with EW-50Es)
- Monitor and control general equipment
- Energy monitoring, load shedding
- Web based controller
- Onboard HTML5 web browser
- Optional direct BACnet connection



Controls

Product Information

Making a World of Difference

CENTRALISED CONTROLLER

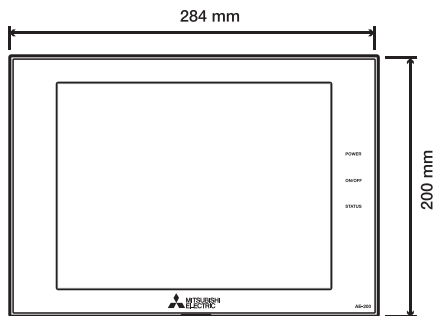
AE-200E

Description	10.4" Touch Screen Controller
Connect to	M-NET Network
Max Number of Units	50 and 4 Pulse Meters
Compatibility	M Series, Mr Slim, City Multi, Lossnay and Ecodan CAHV
Power Supply	220-240v, 50Hz
Dimensions (mm) (WxDxH)	283 x 64 x 199
Control	On/Off ✓
	Mode ✓
	Setpoint ✓
	Fan Speed ✓
	Air Direction ✓
	Permit/Prohibit ✓
	Filter Sign ✓
Monitor	On/Off ✓
	Mode ✓
	Setpoint ✓
	Fan Speed ✓
	Air Direction ✓
	Permit/Prohibit ✓
	Filter Sign ✓
	Fault Codes ✓
	Room Temperature ✓
Weekly Schedule	✓
Annual Schedule	✓
Night Set Back	✓
Web Pages	✓
Optimised Start	✓
Automatic Setpoint Adjustment	✓
Load Shedding	✓
Occupied / Unoccupied Settings Reset	x
Remote Monitoring with M2M	✓
Simple Energy Monitoring	✓
Advanced Energy Monitoring	✓

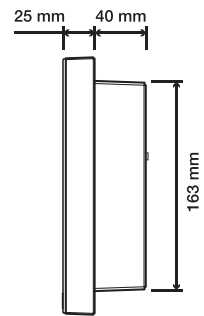
✓ = Yes, x = No, - = Not applicable.

DIMENSIONS

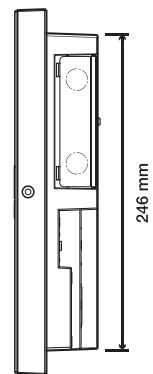
Front View



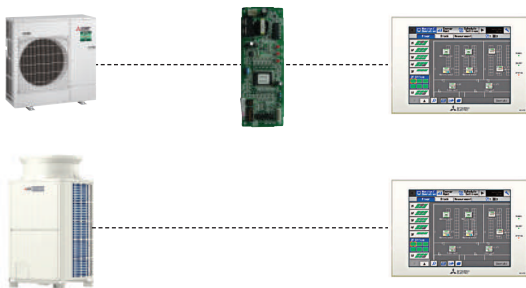
Side View



Upper View

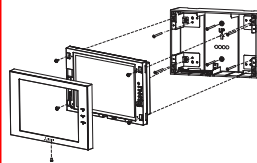


SYSTEM DIAGRAM

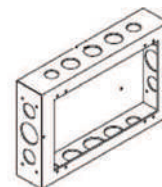


OPTIONS

PAC-YG82TB



PAC-YG84UTB



Description	AE-200E Plastic Wall Mounted Box	AE-200E Metal Wall Mounted Box
Compatibility	AE-200E	AE-200E
Dimensions (mm) (WxDxH)	282 x 77 x 198	380 x 90 x 280



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Effective as of September 2017



The **PAR-40MAA** standard wired remote controller is used to control Mr Slim and City Multi indoor units. It is also compatible with M Series indoor units via MAC-397IF / MAC-334IF and is our most popular controller due to its user friendly backlit screen.

Key Features

- Night set back, scheduling, setpoint limitation
- 0.5°C Set Point adjustment
- Dual Set Point
- Run/Standby for Mr Slim
- Contact number under fault condition
- Backlight
- Daylight saving function
- Slimline Controller
- Selectable screen background (white or black setting)



Controls

Product Information

PAR-40MAA Remote Controller

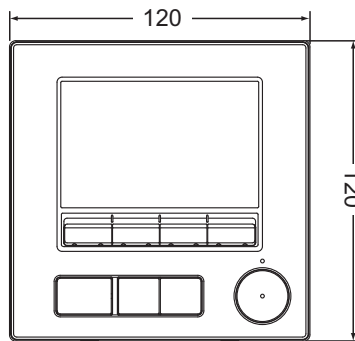
Making a
World of
Difference

REMOTE CONTROLLER		PAR-40MAA
Description		Standard Wired Remote Controller
Connect to		Indoor
Max Number of Units		16
Compatibility		Mr Slim, City Multi & M Series via MAC-397IF / MAC-334IF
Dimensions (mm) (WxDxH)		120 x 14.5 x 120
Control	On/Off	✓
	Mode	✓
	Setpoint	✓ (0.5°C)
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
Monitor	On/Off	✓
	Mode	✓
	Setpoint	✓ (0.5°C)
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
	Fault Codes	✓
	Room Temperature	✓ (0.5°C)
Backlight		✓
Setpoint Limitation		✓
Independent Vane Control		✓
Contact Number under Fault Condition		✓
Scheduling		Weekly
Night Set Back		✓
Button Lock		✓
Easy Maintenance with Mr Slim		✓
Run / Standby with Mr Slim		✓
Silent Mode with Mr Slim		✓
Energy Saving with Mr Slim		✓
Occupancy Sensor (PIR)		x

Notes: ✓ = Yes, x = No, - = Not applicable.

DIMENSIONS

Front View

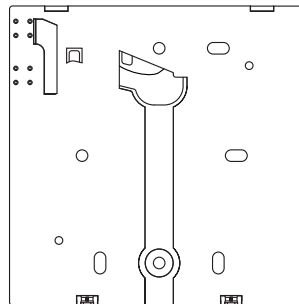


Side View

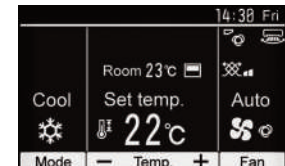


4.5mm
slimmer
than PAR-33MAA

Rear View



Selectable black background



SYSTEM DIAGRAM



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Effective as of March 2019

7 PUZ-HWM140VHA(-BS)

Ecodan R32

Monobloc Air Source Heat Pump**R32****Key Features:**

- A+++ high efficiency system
- Compact design
- Maintains full heating capacity at low temperatures
- Zero carbon solution
- MELCloud enabled

Key Benefits:

- Ultra low running cost
- Minimal installation space required
- Confident and quick product selection
- Help to tackle the climate crisis
- Remote control, monitoring, maintenance and technical support

**MELCloud**

037-0035-20-01

**ecodan**[®]
Renewable Heating Technology

OUTDOOR UNIT

PUZ-HWM140VHA(-BS)

HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++
	η_s	131%
	SCOP (MCS)	3.35
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A+++
	η_s	176%
	SCOP (MCS)	4.48
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A+
	η_{wh}	130%
HEATING ² (A-7/W35)	Capacity (kW)	14
	Power Input (kW)	5.71
	COP	2.45
OPERATING AMBIENT TEMPERATURE (°C DB)		-28 ~ +35
SOUND DATA ³	Pressure Level at 1m (dBA)	53
	Power Level (dBA) ⁴	67
WATER DATA	Pipework Size (mm)	28
	Flow Rate (l/min)	40.1
	Water Pressure Drop (kPa)	20
DIMENSIONS (mm)	Width	1020
	Depth	330 + 30 ⁷
	Height	1350
WEIGHT (kg)		132
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz
	Phase	Single
	Nominal Running Current [MAX] (A) ⁵	TBC [35]
	Fuse Rating - MCB Sizes (A) ⁶	40
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	3.3

Notes:

*1 Combination with E*PT20X Cylinder

*2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.

*3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.

Low Noise mode accessory (reference PAC-SA89TA-EP) available for VHA chassis.

*4 Sound power level tested to BS EN12102.

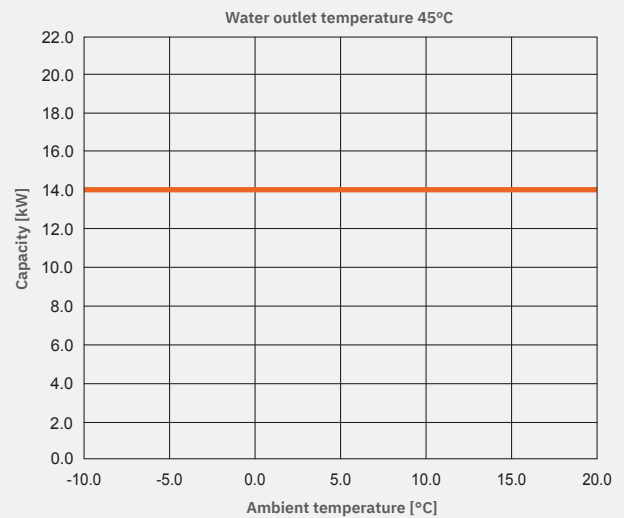
*5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

*6 MCB Sizes BS EN60898-2 & BS EN60947-2.

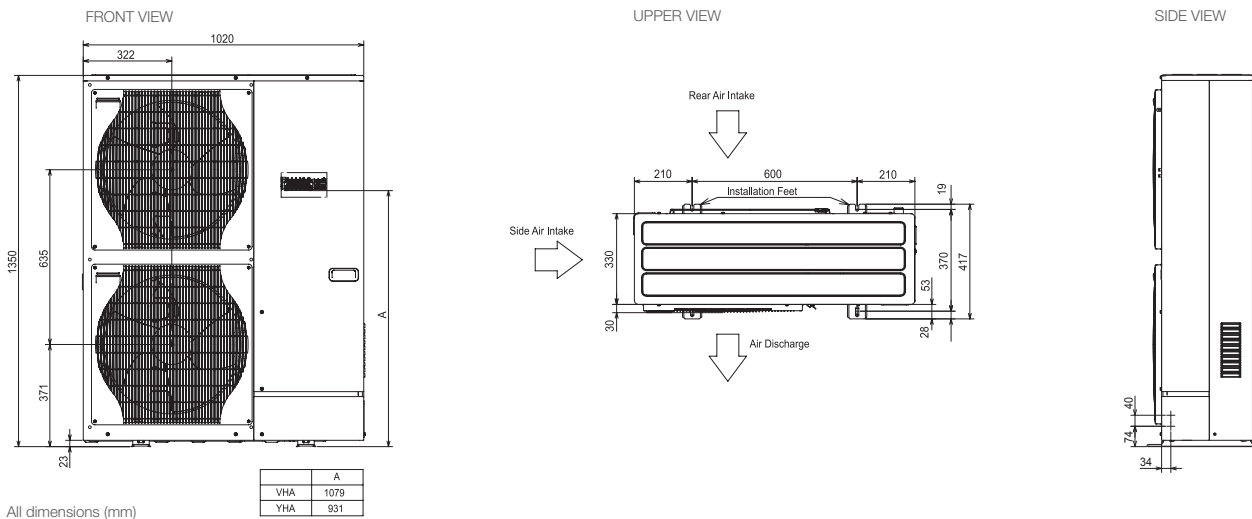
*7 Grille.

η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

NOMINAL HEATING CAPACITY



PUZ-HWM140VHA(-BS) DIMENSIONS



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