

LGE MULTI V 5 Specification Data

MULTI VTM 5

ARUM080LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	22.4
	Heating	kW	22.4
Power Input	Cooling	kW	4.49
	Heating	kW	3.97

Efficiency			
EER	Rated		4.99
COP	Rated		5.64
SEER	Rated		10.10
SCOP	Rated		4.69

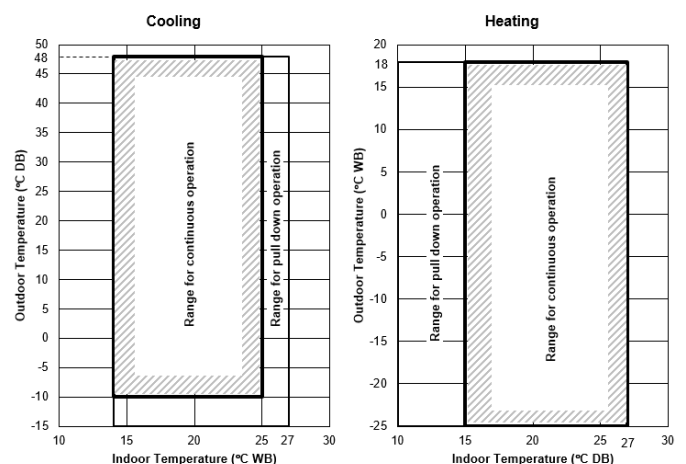
Design Data			
Dimension (WxHxD)	mm	930×1690×760	
Net weight	Kg	198	
Number of maximum connectable indoor units			
20			
Piping for Heat Recovery	Liquid	mm(inch)	9.52(3/8)
	Low Pressure Gas	mm(inch)	19.05(3/4)
	High Pressure Gas	mm(inch)	15.88(5/8)
Piping for Heat Pump	Liquid	mm(inch)	9.52(3/8)
	Gas	mm(inch)	19.05(3/4)
Sound Pressure Level	Cooling	dB(A)	58.0
	Heating	dB(A)	59.0
Sound Power Level	Cooling	dB(A)	84.0
	Heating	dB(A)	87.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	7.5
	GWP	2087.5	
	T-CO ₂ eq.	15.7	
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	18.2	
Total over current	(A)	20	
Maximum fuse current	(A)	20	
Running current	Cooling	(A)	7.30-6.68
	Heating	(A)	8.00-7.33
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

- This product contains Fluorinated Greenhouse Gases (R410A).
- Wiring cable size must comply with the applicable local national codes.
- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
Automatic fault diagnosis	
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits



LG participates in the ECP programme for EUROVENT AC. Check ongoing validity of certificate: www.eurovent-certification.com

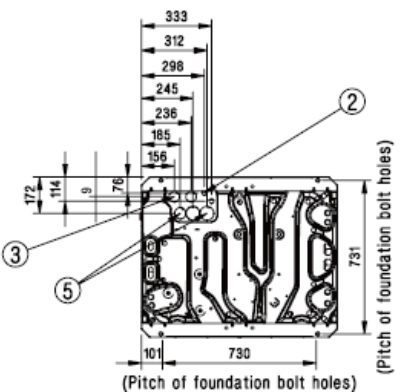
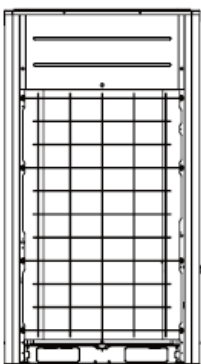
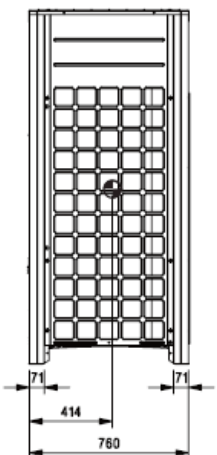
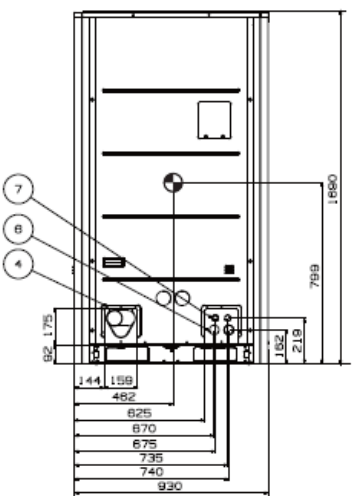
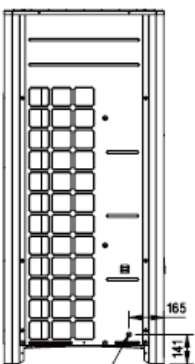
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Multi V 5 July-2020



[Unit: mm]

Gravity point



Note

1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
4. Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
8	Ø 9.52 (3/8)	Ø 19.05 (3/4)	Ø 15.88 (5/8)	Ø 9.52 (3/8)	Ø 19.05 (3/4)
10	Ø 9.52 (3/8)	Ø 22.2 (7/8)	Ø 19.05 (3/4)	Ø 9.52 (3/8)	Ø 22.2 (7/8)
12	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)

No.	Part Name	Description
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2
No.	Part Name	Description

LGE MULTI V 5 Specification Data

MULTI V™ 5

ARUM100LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	28.0
	Heating	kW	28.0
Power Input	Cooling	kW	5.80
	Heating	kW	4.92

Efficiency			
EER	Rated		4.83
COP	Rated		5.69
SEER	Rated		9.70
SCOP	Rated		4.51

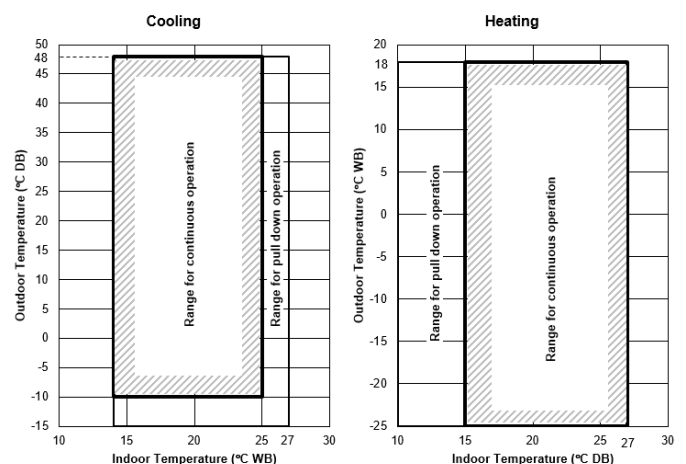
Design Data			
Dimension (WxHxD)	mm	930×1690×760	
Net weight	Kg	215	
Number of maximum connectable indoor units			
25			
Piping for Heat Recovery	Liquid	mm(inch)	9.52(3/8)
	Low Pressure Gas	mm(inch)	22.2(7/8)
	High Pressure Gas	mm(inch)	19.05(3/4)
Piping for Heat Pump	Liquid	mm(inch)	9.52(3/8)
	Gas	mm(inch)	22.2(7/8)
Sound Pressure Level	Cooling	dB(A)	58.0
	Heating	dB(A)	59.0
Sound Power Level	Cooling	dB(A)	85.0
	Heating	dB(A)	88.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	9.5
	GWP	2087.5	
	T-CO ₂ eq.	19.8	
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	25.5	
Total over current	(A)	28	
Maximum fuse current	(A)	32	
Running current	Cooling	(A)	9.50-8.70
	Heating	(A)	9.70-8.88
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

- This product contains Fluorinated Greenhouse Gases (R410A).
- Wiring cable size must comply with the applicable local national codes.
- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
Automatic fault diagnosis	
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits



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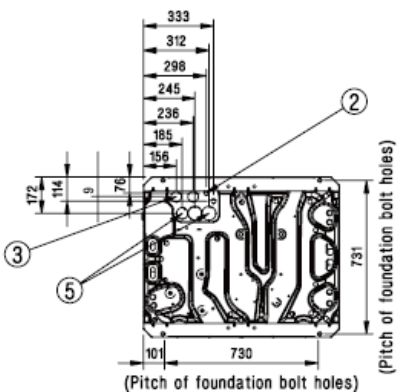
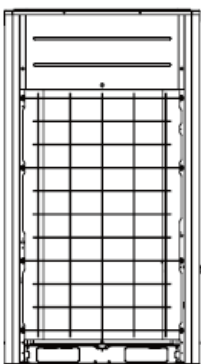
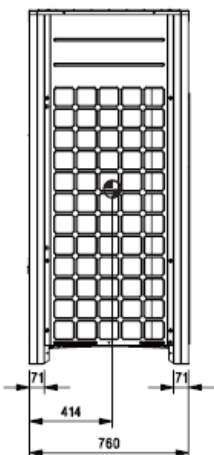
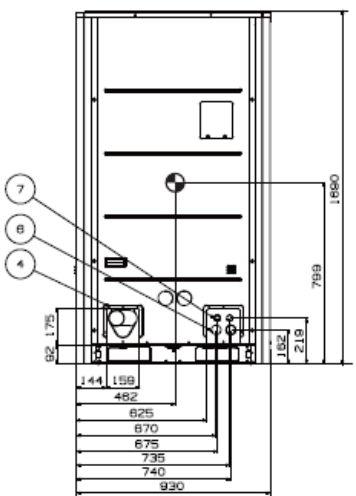
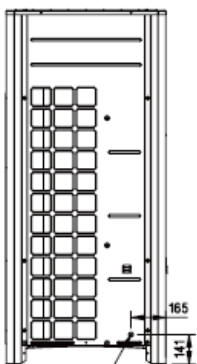
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Multi V 5 July-2020



[Unit: mm]

Gravity point



Note

1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
4. Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
8	Ø 9.52 (3/8)	Ø 19.05 (3/4)	Ø 15.88 (5/8)	Ø 9.52 (3/8)	Ø 19.05 (3/4)
10	Ø 9.52 (3/8)	Ø 22.2 (7/8)	Ø 19.05 (3/4)	Ø 9.52 (3/8)	Ø 22.2 (7/8)
12	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)

No.	Part Name	Description
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2

LGE MULTI V 5 Specification Data

MULTI V™ 5

ARUM120LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	33.6
	Heating	kW	33.6
Power Input	Cooling	kW	7.58
	Heating	kW	6.85

Efficiency			
EER	Rated		4.43
COP	Rated		4.91
SEER	Rated		9.59
SCOP	Rated		5.01

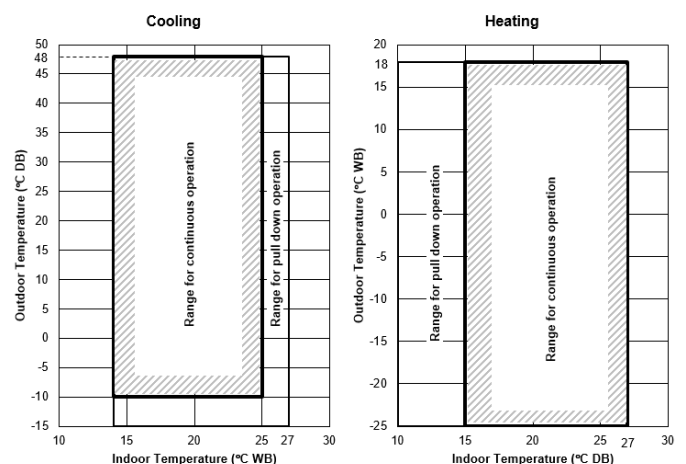
Design Data			
Dimension (WxHxD)	mm	930×1690×760	
Net weight	Kg	215	
Number of maximum connectable indoor units			
30			
Piping for Heat Recovery	Liquid	mm(inch)	12.7(1/2)
	Low Pressure Gas	mm(inch)	28.58(1-1/8)
	High Pressure Gas	mm(inch)	19.05(3/4)
Piping for Heat Pump	Liquid	mm(inch)	12.7(1/2)
	Gas	mm(inch)	28.58(1-1/8)
Sound Pressure Level	Cooling	dB(A)	59.0
	Heating	dB(A)	60.0
Sound Power Level	Cooling	dB(A)	86.0
	Heating	dB(A)	89.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	9.5
	GWP	2087.5	
	T-CO ₂ eq.	19.8	
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	25.5	
Total over current	(A)	28	
Maximum fuse current	(A)	32	
Running current	Cooling	(A)	12.40-11.35
	Heating	(A)	14.40-13.19
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

- This product contains Fluorinated Greenhouse Gases (R410A).
- Wiring cable size must comply with the applicable local national codes.
- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
	Automatic fault diagnosis
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits



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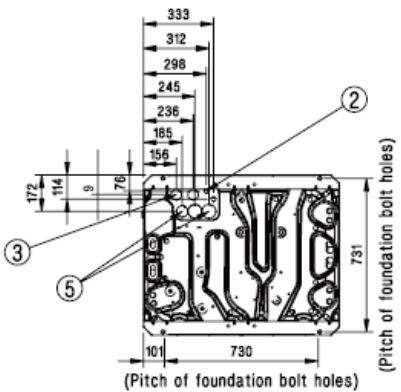
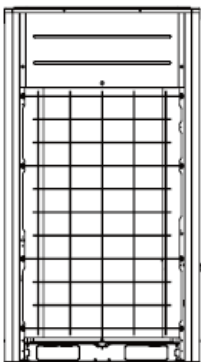
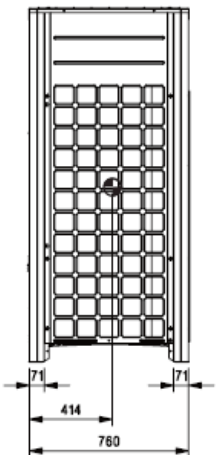
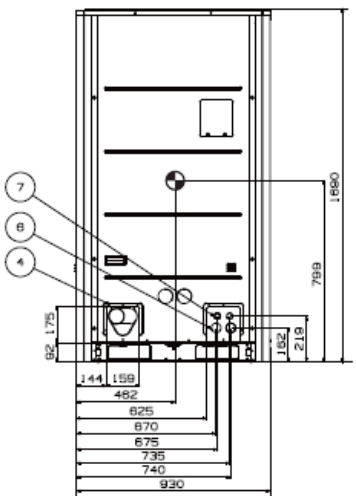
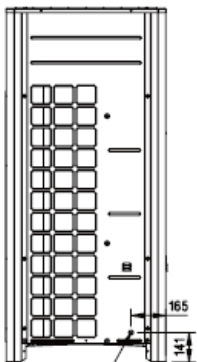
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Multi V 5 July-2020



[Unit: mm]

Gravity point



[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
8	Ø 9.52 (3/8)	Ø 19.05 (3/4)	Ø 15.88 (5/8)	Ø 9.52 (3/8)	Ø 19.05 (3/4)
10	Ø 9.52 (3/8)	Ø 22.2 (7/8)	Ø 19.05 (3/4)	Ø 9.52 (3/8)	Ø 22.2 (7/8)
12	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

No.	Part Name	Description
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2
No.	Part Name	Description

LGE MULTI V 5 Specification Data

MULTI V™ 5

ARUM140LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	39.2
	Heating	kW	39.2
Power Input	Cooling	kW	8.68
	Heating	kW	8.13

Efficiency			
EER	Rated		4.52
COP	Rated		4.82
SEER	Rated		8.89
SCOP	Rated		4.63

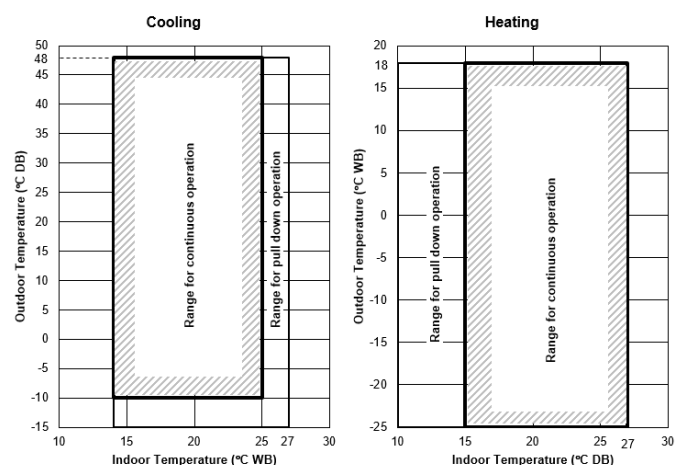
Design Data			
Dimension (WxHxD)	mm	1240×1690×760	
Net weight	Kg	237	
Number of maximum connectable indoor units		35	
Piping for Heat Recovery	Liquid	mm(inch)	12.7(1/2)
	Low Pressure Gas	mm(inch)	28.58(1-1/8)
	High Pressure Gas	mm(inch)	22.2(7/8)
Piping for Heat Pump	Liquid	mm(inch)	12.7(1/2)
	Gas	mm(inch)	28.58(1-1/8)
Sound Pressure Level	Cooling	dB(A)	60.0
	Heating	dB(A)	61.0
Sound Power Level	Cooling	dB(A)	89.0
	Heating	dB(A)	93.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	13.5
	GWP		2087.5
	T-CO ₂ eq.		28.2
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	25.5	
Total over current	(A)	28	
Maximum fuse current	(A)	32	
Running current	Cooling	(A)	14.20-13.00
	Heating	(A)	15.90-14.56
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

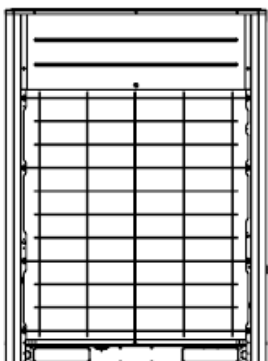
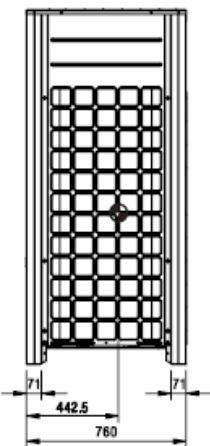
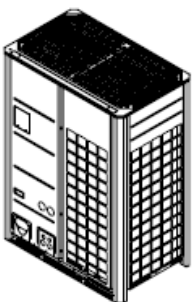
- This product contains Fluorinated Greenhouse Gases (R410A).
- Wiring cable size must comply with the applicable local national codes.
- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
	Automatic fault diagnosis
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits



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[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
14~16	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)
18~20	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
22	Ø 15.88 (5/8)	Ø 28.58(1-1/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
24	Ø 15.88 (5/8)	Ø 34.9(1-3/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 34.9 (1-3/8)
26~34	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)
36~40	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
42~60	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 34.9 (1-3/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
62~64	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)	Ø 41.3 (1-5/8)	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)
66~96	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)	Ø 44.5 (1-3/4)	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)

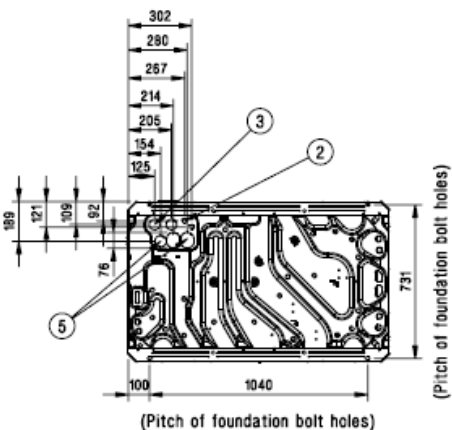
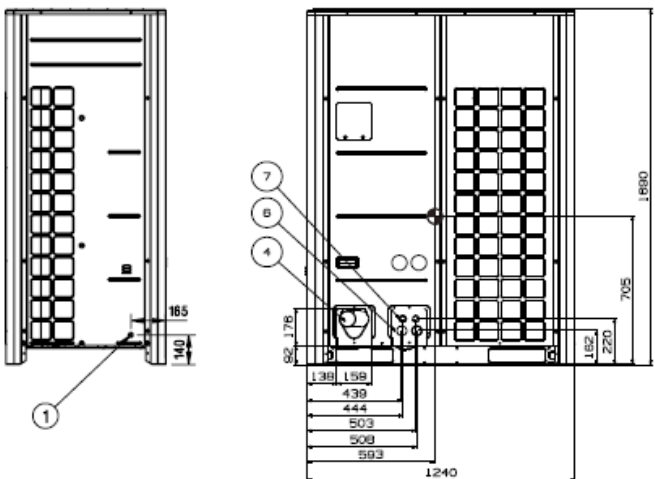
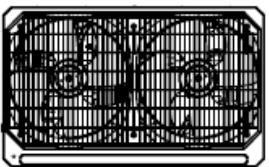
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2
No.	Part Name	Description

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

[Unit: mm]

⊕ Gravity point



(Pitch of foundation bolt holes)

(Pitch of foundation bolt holes)

LGE MULTI V 5 Specification Data

MULTI VTM 5

ARUM160LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	44.8
	Heating	kW	44.8
Power Input	Cooling	kW	10.89
	Heating	kW	10.28

Efficiency			
EER	Rated		4.11
COP	Rated		4.36
SEER	Rated		8.38
SCOP	Rated		4.83

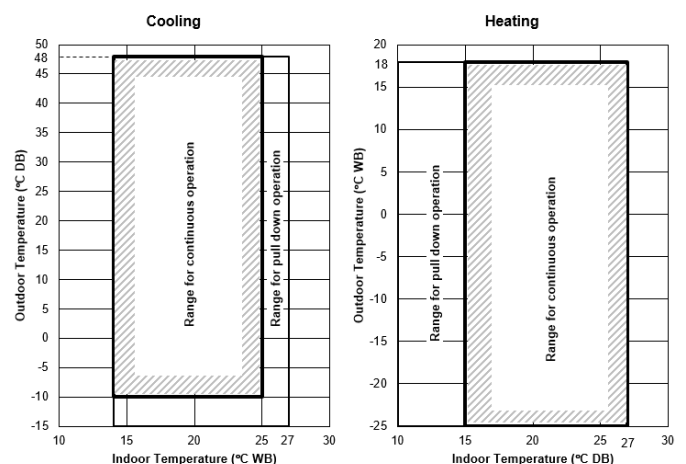
Design Data			
Dimension (WxHxD)	mm	1240×1690×760	
Net weight	Kg	237	
Number of maximum connectable indoor units			
40			
Piping for Heat Recovery	Liquid	mm(inch)	12.7(1/2)
	Low Pressure Gas	mm(inch)	28.58(1-1/8)
	High Pressure Gas	mm(inch)	22.2(7/8)
Piping for Heat Pump	Liquid	mm(inch)	12.7(1/2)
	Gas	mm(inch)	28.58(1-1/8)
Sound Pressure Level	Cooling	dB(A)	60.5
	Heating	dB(A)	61.5
Sound Power Level	Cooling	dB(A)	90.0
	Heating	dB(A)	94.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	13.5
	GWP	2087.5	
	T-CO ₂ eq.	28.2	
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	25.5	
Total over current	(A)	28	
Maximum fuse current	(A)	32	
Running current	Cooling	(A)	17.80-16.30
	Heating	(A)	21.30-19.50
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

- This product contains Fluorinated Greenhouse Gases (R410A).
- Wiring cable size must comply with the applicable local national codes.
- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
	Automatic fault diagnosis
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits

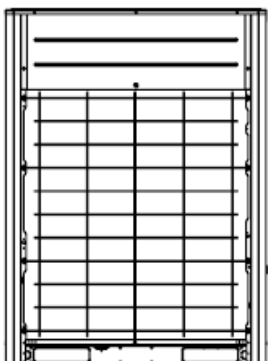
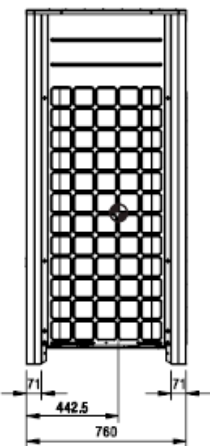
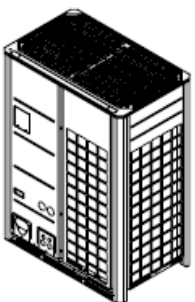


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For continual product development, LG reserves the right to change specifications without notice. LG Electronics Air Conditioning and Energy Solutions.

Multi V 5 July-2020





[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
14~16	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)
18~20	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
22	Ø 15.88 (5/8)	Ø 28.58(1-1/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
24	Ø 15.88 (5/8)	Ø 34.9(1-3/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 34.9 (1-3/8)
26~34	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)
36~40	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
42~60	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 34.9 (1-3/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
62~64	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)	Ø 41.3 (1-5/8)	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)
66~96	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)	Ø 44.5 (1-3/4)	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)

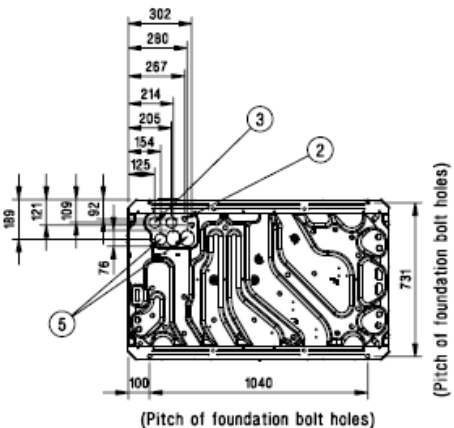
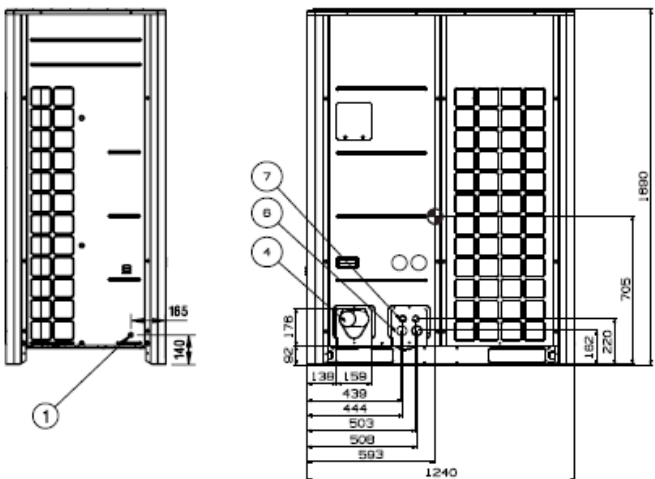
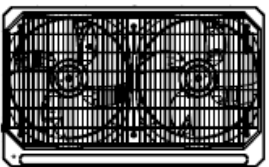
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2
No.	Part Name	Description

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

[Unit: mm]

⊕ Gravity point



(Pitch of foundation bolt holes)

(Pitch of foundation bolt holes)

LGE MULTI V 5 Specification Data

MULTI V™ 5

ARUM180LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	50.4
	Heating	kW	50.4
Power Input	Cooling	kW	10.91
	Heating	kW	10.12

Efficiency			
EER	Rated		4.62
COP	Rated		4.98
SEER	Rated		8.23
SCOP	Rated		4.00

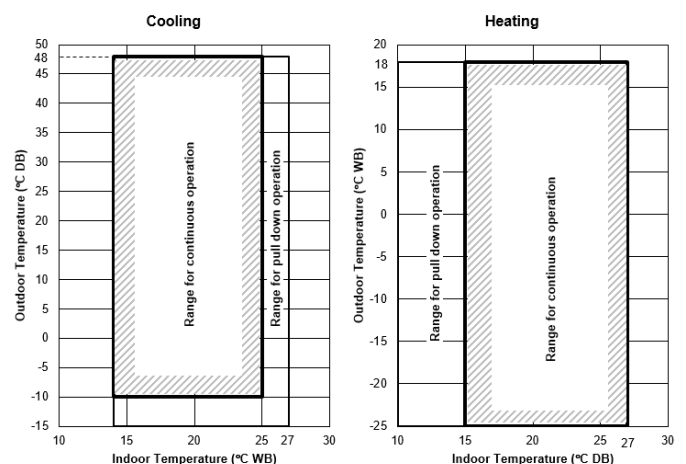
Design Data			
Dimension (WxHxD)	mm	1240×1690×760	
Net weight	Kg	300	
Number of maximum connectable indoor units		45	
Piping for Heat Recovery	Liquid	mm(inch)	15.88(5/8)
	Low Pressure Gas	mm(inch)	28.58(1-1/8)
	High Pressure Gas	mm(inch)	22.2(7/8)
Piping for Heat Pump	Liquid	mm(inch)	15.88(5/8)
	Gas	mm(inch)	28.58(1-1/8)
Sound Pressure Level	Cooling	dB(A)	61.0
	Heating	dB(A)	62.0
Sound Power Level	Cooling	dB(A)	92.0
	Heating	dB(A)	95.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	16.0
	GWP		2087.5
	T-CO ₂ eq.		33.4
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	42.7	
Total over current	(A)	47	
Maximum fuse current	(A)	50	
Running current	Cooling	(A)	17.80-16.30
	Heating	(A)	19.00-17.40
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

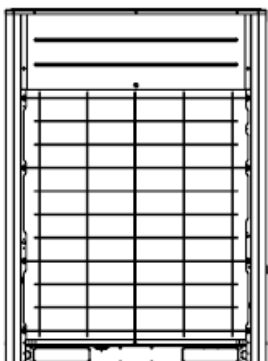
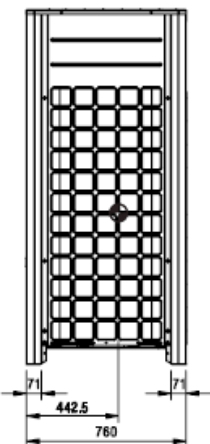
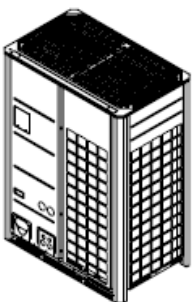
- This product contains Fluorinated Greenhouse Gases (R410A).
- Wiring cable size must comply with the applicable local national codes.
- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
	Automatic fault diagnosis
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits



LG participates in the ECP programme for EUROVENT AC. Check ongoing validity of certification: www.eurovent-certification.com



[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
14~16	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)
18~20	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
22	Ø 15.88 (5/8)	Ø 28.58(1-1/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
24	Ø 15.88 (5/8)	Ø 34.9(1-3/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 34.9 (1-3/8)
26~34	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)
36~40	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
42~60	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 34.9 (1-3/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
62~64	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)	Ø 41.3 (1-5/8)	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)
66~96	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)	Ø 44.5 (1-3/4)	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)

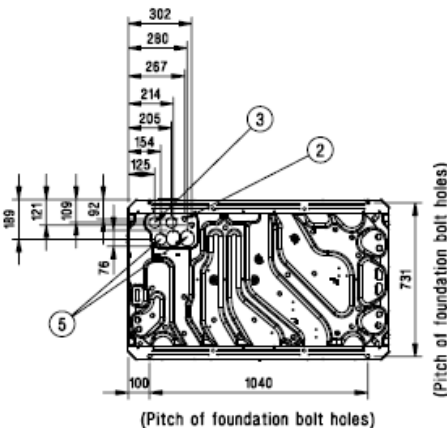
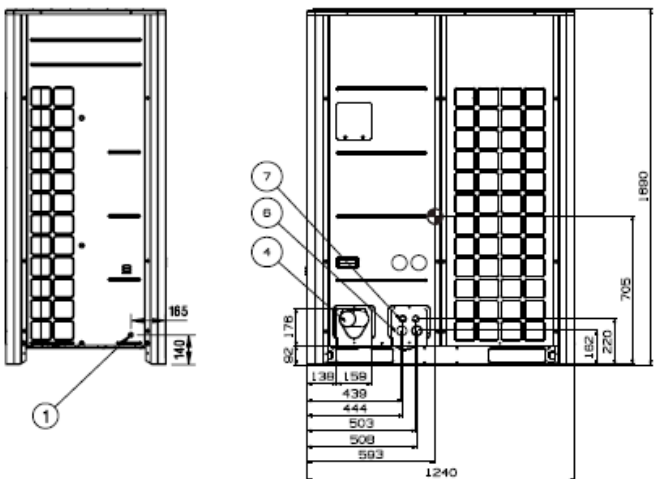
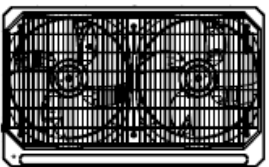
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2
No.	Part Name	Description

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

[Unit: mm]

⊕ Gravity point



(Pitch of foundation bolt holes)

(Pitch of foundation bolt holes)

LGE MULTI V 5 Specification Data

MULTI V™ 5

ARUM200LTE5

Multi V 5 Singular Outdoor Unit

Type	Air Source Heat Pump & Heat Recovery		
Colour	Warm Grey /Dawn Grey RAL7044/7037		
Power Supply	φ, V, Hz	3, 380-415, 50	



Performance			
Nominal Capacity	Cooling	kW	56.0
	Heating	kW	56.0
Power Input	Cooling	kW	12.77
	Heating	kW	12.20

Efficiency			
EER	Rated		4.39
COP	Rated		4.59
SEER	Rated		8.05
SCOP	Rated		3.98

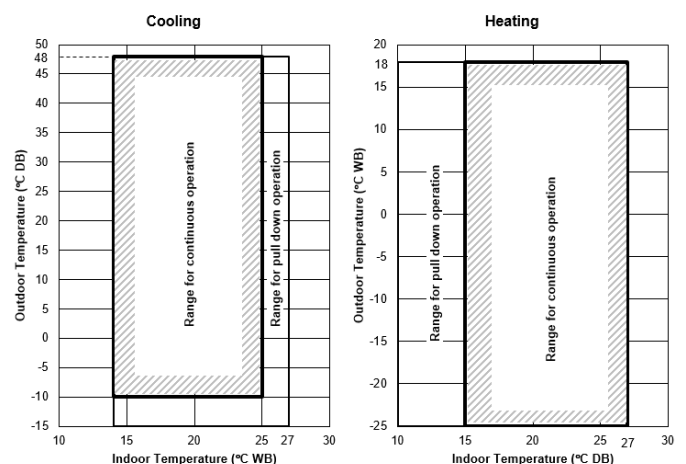
Design Data			
Dimension (WxHxD)	mm	1240×1690×760	
Net weight	Kg	300	
Number of maximum connectable indoor units		50	
Piping for Heat Recovery	Liquid	mm(inch)	15.88(5/8)
	Low Pressure Gas	mm(inch)	28.58(1-1/8)
	High Pressure Gas	mm(inch)	22.2(7/8)
Piping for Heat Pump	Liquid	mm(inch)	15.88(5/8)
	Gas	mm(inch)	28.58(1-1/8)
Sound Pressure Level	Cooling	dB(A)	62.0
	Heating	dB(A)	64.5
Sound Power Level	Cooling	dB(A)	93.0
	Heating	dB(A)	96.0
Refrigerant	Name	R410A	
	Precharged Quantity	Kg	16.0
	GWP		2087.5
	T-CO ₂ eq.		33.4
	Control	Electronic Expansion Valve	
Minimum circuit current	(A)	44.5	
Total over current	(A)	49	
Maximum fuse current	(A)	50	
Running current	Cooling	(A)	20.90-19.14
	Heating	(A)	24.00-21.98
Acceptable voltage range	(V)	342-456	
Communication cable (VCTF-SB)	No.×mm ²	2Cx1.0~1.5	

NOTES:

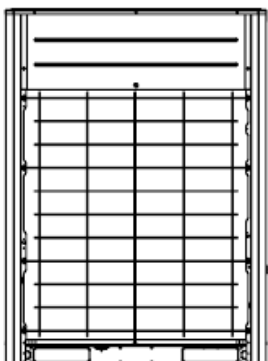
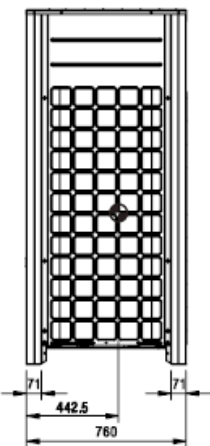
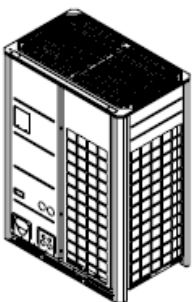
- This product contains Fluorinated Greenhouse Gases (R410A).
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- For refrigerant pipe size, refer to the LATS drawing.
- Nominal performances are carried out with concealed ducted indoor units at following rated conditions in compliance with EN14511:
 - Cooling: Indoor temp. 27°C DB / 19°C WB; Outdoor temp. 35°C DB / 24°C WB.
 - Heating: Indoor temp. 20°C DB / 15°C WB; Outdoor temp. 7°C DB / 6°C WB.
 - Interconnecting piping length of 7.5m. Elevation difference (ODU-IDU) of zero.
- Sound pressure level is measured at rated conditions in the anechoic rooms in compliance with ISO 3745 standard.
- Sound power level is measured at rated conditions in the reverberation rooms in compliance with ISO 3741 standard.
- Sound data of combination model is calculated from sound data of individual units.
- The recommended maximum combination ratio is 130%.

Features	
Compressor	High sided shell, hermetically sealed inverter scroll
	High pressure oil return
	Vapour injection
	Advanced wear-resistance PEEK bearing material
	Real time oil level monitoring sensor
	Automatic oil balancing between dual compressors
Heat exchanger	Over compression protection
	Anti-corrosion Black Fin
Outdoor fan	Variable heat path control
	Biomimetic patterns on blades to reduce noise level
System control and monitoring	Dual sensing (temperature and humidity)
	Advanced smart load control
	Cooling comfort function during cooling mode
	Defrost control for continuous heating
	Night quiet operation mode
	Automatic refrigerant charging
	Active refrigerant monitoring & control
	Automatic fault diagnosis
BMS connectivity	LonWorks, BACnet and Modbus
Monitoring cycle	LGMV/Mobile LGMV (Android smartphone)
Compatible indoor units	Multi V VRF indoor unit range
	AHU Communication kit
	ERV DX
	Hydro kit
	Water Communication kit

Operation Limits



LG participates in the ECP programme for EUROVENT AC. Check ongoing validity of certification: www.eurovent-certification.com



[mm(inch)]

System	Heat Recovery			Heat Pump	
	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe	Liquid pipe	Gas pipe
14~16	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 12.7 (1/2)	Ø 28.58 (1-1/8)
18~20	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)	Ø 22.2 (7/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
22	Ø 15.88 (5/8)	Ø 28.58(1-1/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 28.58 (1-1/8)
24	Ø 15.88 (5/8)	Ø 34.9(1-3/8)	Ø 28.58 (1-1/8)	Ø 15.88 (5/8)	Ø 34.9 (1-3/8)
26~34	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 34.9 (1-3/8)
36~40	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 28.58 (1-1/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
42~60	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)	Ø 34.9 (1-3/8)	Ø 19.05 (3/4)	Ø 41.3 (1-5/8)
62~64	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)	Ø 41.3 (1-5/8)	Ø 22.2 (7/8)	Ø 44.5 (1-3/4)
66~96	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)	Ø 44.5 (1-3/4)	Ø 22.2 (7/8)	Ø 53.98 (2-1/8)

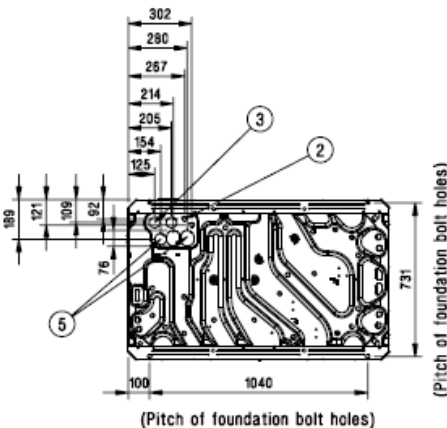
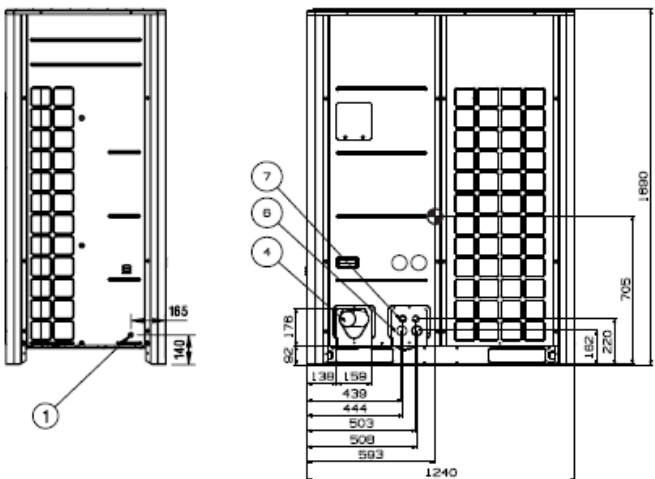
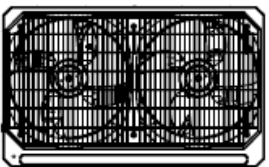
7	Wire routing hole(front)	2- Ø 30
6	Power cord routing hole(front)	2- Ø 45
5	Pipe routing hole(bottom)	2- Ø 66, Ø 53.88
4	Pipe routing hole(front)	-
3	Power cord routing hole(bottom)	2- Ø 50
2	Wire routing hole(bottom)	2- Ø 22.2
1	Leakage test hole(side)	Ø 22.2
No.	Part Name	Description

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

[Unit: mm]

⊕ Gravity point



(Pitch of foundation bolt holes)

(Pitch of foundation bolt holes)