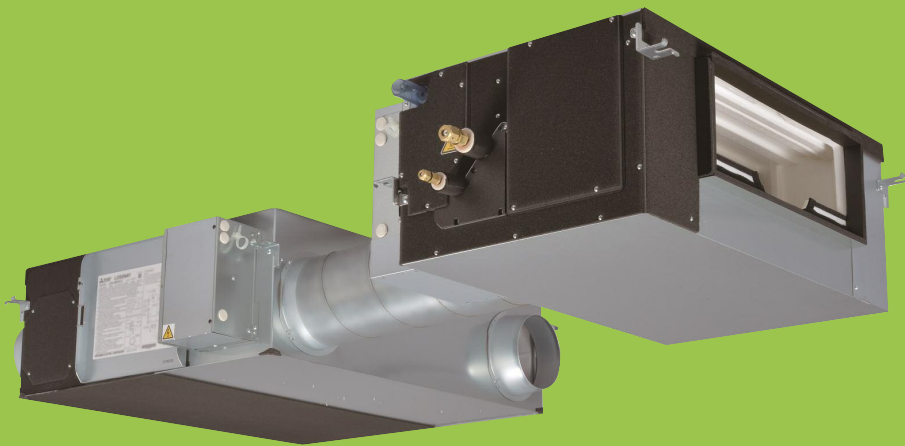




The Lossnay **GUG-01/02/03SL-E Air Processing DX Unit** works in conjunction with a Mr Slim outdoor unit to heat and cool the supply air from a Lossnay Mechanical Ventilation Heat Recovery (MVHR) unit.

The combination of these three products effectively creates an air handling system that can supply temperature controlled clean fresh air in a highly efficient manner.

Key Features

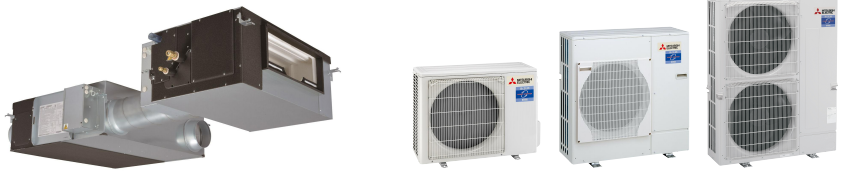
- Provides heat recovery ventilation and air conditioning from the same ventilation system
- Air flow range from 500m³/hr. to 2500m³/hr
- Single system reduces installation time, costs and space
- Can be operated in supply air or return air control
- Built in drain pump to facilitate easy installation
- Single remote controller provides basic functions. PZ-61DR-E can be added for full functionality
- Available in 3 sizes



Specifications

GUG-01/02/03SL-E

Lossnay Air Processing DX Unit
Return Air Temperature Control
(5.6 to 15.8kW)



MODEL		GUG50-56RAV	GUG65-66RAV	GUG80-83RAV	GUG100-113RAV	GUG150-157RAVT	GUG150-157RAYT	GUG150-158RAV
CAPACITY [kW]	Heating (nominal)	6.5 (2.4 + 4.1)	7.7 (3.2 + 4.5)	10.0 (4.0 + 6.0)	13.2 (5.1 + 8.1)	20.4 (7.4 + 13.0)	20.4 (7.4 + 13.0)	20.7 (7.7 + 13.0)
	Cooling (nominal)	5.6 (2.0 + 3.6)	6.6 (2.6 + 4.0)	8.3 (3.3 + 5.0)	11.3 (4.2 + 7.1)	15.7 (6.2 + 9.5)	15.7 (6.2 + 9.5)	15.8 (6.3 + 9.5)
SYSTEM POWER INPUT [kW]	Heating (nominal)	1.59	1.63	2.17	2.99	5.01	5.01	4.88
	Cooling (nominal)	1.2	1.31	1.75	2.27	3.12	3.12	3
SHF (nominal)		0.66	0.69	0.69	0.66	0.68	0.68	0.68
PERFORMANCE INDEX	Heating (nominal)	4.09	4.72	4.62	4.42	4.07	4.07	4.24
	Cooling (nominal)	4.69	5.03	4.76	4.98	5.03	5.03	5.27
AIRFLOW (m³/h)		350 - 695	350 - 900	560 - 1200	700 - 1200	1050 - 2250	1050 - 2250	1050 - 2250
EXTERNAL STATIC PRESSURE (Pa)	Fan Speed 3	0 - 65	0 - 90	0 - 80	0 - 85	0 - 95	0 - 95	0 - 90
	Fan Speed 4	0 - 155	0 - 170	15 - 195	70 - 195	0 - 200	0 - 200	15 - 195
PIPE SIZE mm (in)	Gas	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
MAX PIPE LENGTH (m)		50	50	50	50	75	75	75
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30	30
DIMENSIONS (mm)	Width x Depth x Height	812 x 607 x 330	812 x 607 x 330	1034 x 607 x 394	1034 x 607 x 394	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404
WEIGHT (kg)		21	21	26	26	28	28	28
ELECTRICAL SUPPLY (supplied from the outdoor)		220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz
GUG UNIT		GUG-01SL-E	GUG-01SL-E	GUG-02SL-E	GUG-02SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E
LOSSNAY UNIT		LGH-50RVX-E	LGH-65RVX-E	LGH-80RVX-E	LGH-100RVX-E	LGH-150RVXT-E	LGH-150RVXT-E	LGH-150RVX-E
OUTDOOR UNIT		PUHZ-ZRP35VKA	PUHZ-ZRP35VKA	PUHZ-ZRP50VKA	PUHZ-ZRP71VHA	PUHZ-ZRP100VKA2	PUHZ-ZRP100YKA2	PUHZ-ZRP100VKA2
CONTROLLER		PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E

Notes:

- The cooling and heating capacities are based on the rated airflow of fan speed 4 and the following air conditions: Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB.
- The first figure in () of the capacity data is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the DX coil connected to the outdoor unit.

GUG-01/02/03SL-E

Lossnay Air Processing DX Unit
Return Air Temperature Control
(15.8 to 22.3kW)



MODEL		GUG150-158RAY	GUG200-184RAV	GUG200-184RAY	GUG200-184RAYT	GUG200-184RAYT	GUG250-223RAYT	GUG250-223RAYT
CAPACITY [kW]	Heating (nominal)	20.7 (7.7 + 13.0)	23.8 (10.3 + 13.5)	23.8 (10.3 + 13.5)	23.8 (10.3 + 13.5)	23.8 (10.3 + 13.5)	26.1 (12.1 + 14.0)	26.1 (12.1 + 14.0)
	Cooling (nominal)	15.8 (6.3 + 9.5)	18.4 (8.4 + 10.0)	18.4 (8.4 + 10.0)	18.4 (8.4 + 10.0)	18.4 (8.4 + 10.0)	22.3 (9.8 + 12.5)	22.3 (9.8 + 12.5)
SYSTEM POWER INPUT [kW]	Heating (nominal)	4.88	4.74	4.74	4.89	4.89	5.49	5.49
	Cooling (nominal)	3.00	3.14	3.14	3.29	3.29	4.86	4.86
SHF (nominal)		0.68	0.76	0.76	0.76	0.76	0.87	0.87
PERFORMANCE INDEX	Heating (nominal)	4.24	5.02	5.02	4.86	4.86	4.75	4.75
	Cooling (nominal)	5.27	5.86	5.86	5.59	5.59	4.59	4.59
AIRFLOW (m³/h)		1050 - 2250	1050 - 2600	1050 - 2600	1050 - 2600	1050 - 2600	1750 - 2880	1750 - 2880
EXTERNAL STATIC PRESSURE (Pa)	Fan Speed 3	0 - 90	0 - 95	0 - 95	0 - 120	0 - 120	0 - 95	0 - 95
	Fan Speed 4	15 - 195	40 - 210	40 - 210	0 - 210	0 - 210	85 - 245	85 - 245
PIPE SIZE mm (in)	Gas	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
MAX PIPE LENGTH (m)		75	75	75	75	75	75	75
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30	30
DIMENSIONS (mm)	Width x Depth x Height	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404
WEIGHT (kg)		28	28	28	28	28	28	28
ELECTRICAL SUPPLY (supplied from the outdoor)		220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz
GUG UNIT		GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E
LOSSNAY UNIT		LGH-150RVX-E	LGH-200RVX-E	LGH-200RVX-E	LGH-200RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E	LGH-250RVXT-E
OUTDOOR UNIT		PUHZ-ZRP100YKA2	PUHZ-ZRP100VKA2	PUHZ-ZRP100YKA2	PUHZ-ZRP100VKA2	PUHZ-ZRP100YKA2	PUHZ-ZRP125VKA2	PUHZ-ZRP125YKA2
CONTROLLER		PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E

Notes:

- The cooling and heating capacities are based on the rated airflow of fan speed 4 and the following air conditions: Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB.
- The first figure in () of the capacity data is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the DX coil connected to the outdoor unit.

Specifications / Dimensions

GUG-01/02/03SL-E

Lossnay Air Processing DX Unit

Supply Air Temperature Control
(8.3 to 17.6kW)



MODEL		GUG80-83SAV	GUG100-95SAV	GUG150-133SAVT	GUG150-134SAV	GUG200-159SAV	GUG200-159SAVT	GUG250-176SAVT
CAPACITY [kW]	Heating (nominal)	10.0 (4.0 + 6.0)	11.4 (5.1 + 6.3)	16.3 (7.4 + 8.9)	16.6 (7.7 + 8.9)	19.5 (10.3 + 9.2)	19.5 (10.3 + 9.2)	21.6 (12.1 + 9.5)
	Cooling (nominal)	8.3 (3.3 + 5.0)	9.5 (4.2 + 5.3)	13.3 (6.2 + 7.1)	13.4 (6.3 + 7.1)	15.9 (8.5 + 7.4)	15.9 (8.5 + 7.4)	17.6 (9.8 + 7.8)
SYSTEM POWER INPUT [kW]	Heating (nominal)	2.17	2.24	3.16	3.04	3.10	3.25	3.62
	Cooling (nominal)	1.75	1.75	2.64	2.52	2.72	2.87	3.32
SHF (nominal)		0.69	0.73	0.86	0.85	0.90	0.90	0.95
PERFORMANCE INDEX	Heating (nominal)	4.62	5.09	5.16	5.46	6.30	6.01	5.97
	Cooling (nominal)	4.76	5.43	5.03	5.32	5.85	5.54	5.31
AIRFLOW (m³/h)		560 - 1200	700 - 1200	1050 - 2250	1050 - 2250	1050 - 2600	1050 - 2600	1000 - 2600
EXTERNAL STATIC PRESSURE (Pa)	Fan Speed 3	0 - 80	0 - 85	0 - 95	0 - 90	0 - 95	0 - 120	0 - 180
	Fan Speed 4	15 - 195	70 - 195	0 - 200	15 - 195	40 - 210	0 - 210	120 - 335
PIPE SIZE mm (in)	Gas	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
MAX PIPE LENGTH (m)		50	50	50	50	50	50	50
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30	30
DIMENSIONS (mm)	Width x Depth x Height	1034 x 607 x 394	1034 x 607 x 394	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404	1130 x 576 x 404
WEIGHT (kg)		26	26	28	28	28	28	28
ELECTRICAL SUPPLY (supplied from the outdoor)		220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz	220-240v / 50Hz
GUG UNIT		GUG-02SL-E	GUG-02SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E	GUG-03SL-E
LOSSNAY UNIT		LGH-80RVX-E	LGH-100RVX-E	LGH-150RVXT-E	LGH-150RVX-E	LGH-200RVX-E	LGH-200RVXT-E	LGH-250RVXT-E
OUTDOOR UNIT		PUHZ-ZRP50VKA	PUHZ-ZRP50VKA	PUHZ-ZRP71VHA	PUHZ-ZRP71VHA	PUHZ-ZRP71VHA	PUHZ-ZRP71VHA	PUHZ-ZRP71VHA
CONTROLLER		PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E	PZ-61DR-E

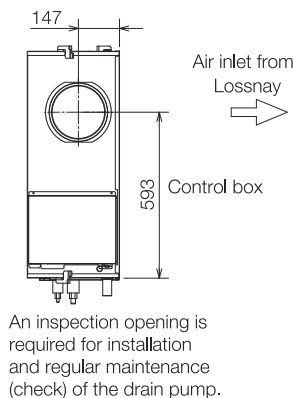
Notes:

- The cooling and heating capacities are based on the rated airflow of fan speed 4 and the following air conditions: Cooling Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/24°CWB Heating Indoor: 20°CDB/15°CWB Outdoor: 7°CDB/6°CWB.
- The first figure in () of the capacity data is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the DX coil connected to the outdoor unit.

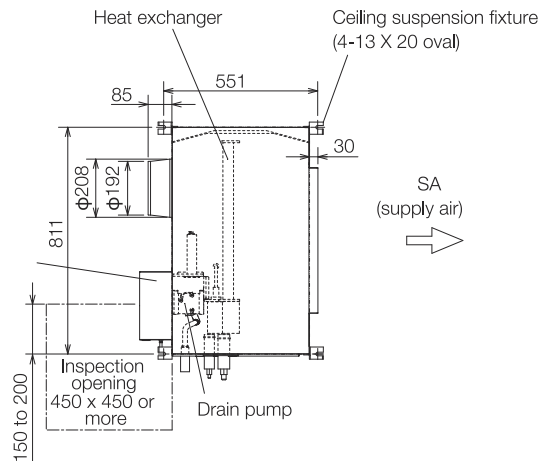
PRODUCT DIMENSIONS

GUG-01SL-E

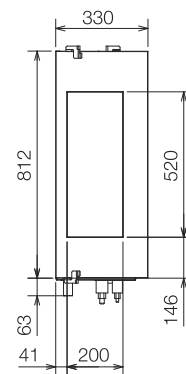
Left Side View



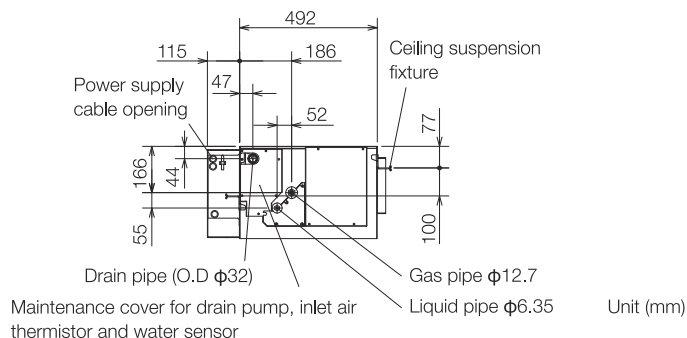
Upper View



Right Side View



Front View

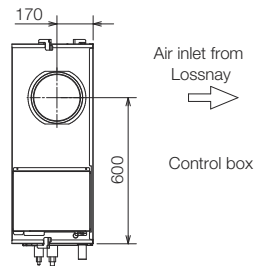


Dimensions

PRODUCT DIMENSIONS

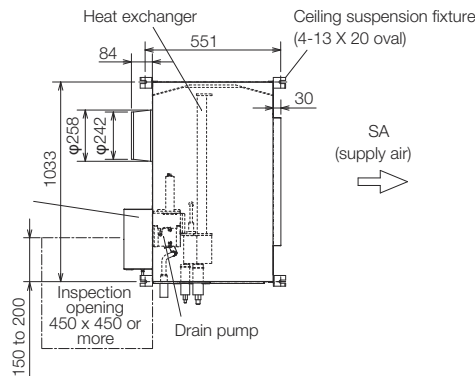
GUG-02SL-E

Left Side View

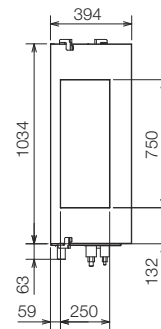


An inspection opening is required for installation and regular maintenance (check) of the drain pump. When SA temp. control is selected, another inspection opening may be required in front of the unit for SA thermistor replacement only when an error occurred on the SA thermistor.

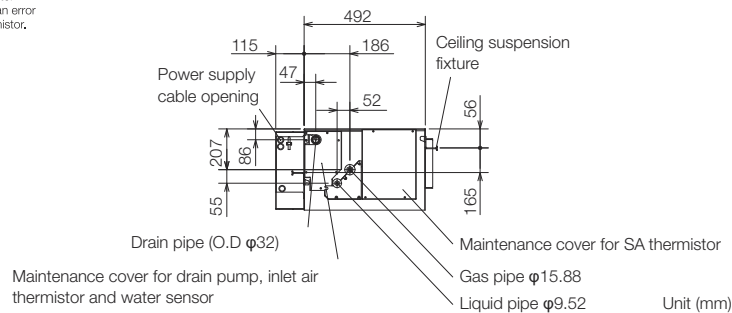
Upper View



Right Side View



Front View

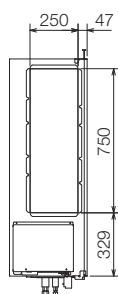


Unit (mm)

PRODUCT DIMENSIONS

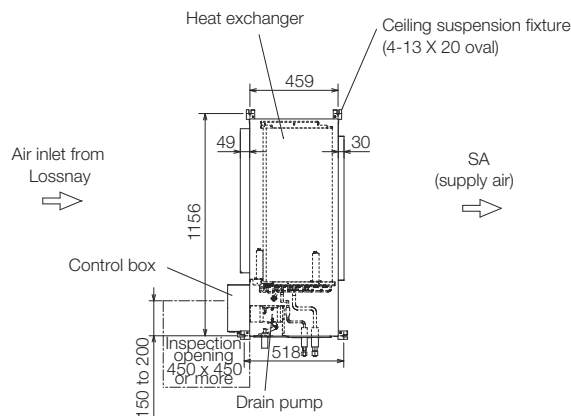
GUG-03SL-E

Left Side View

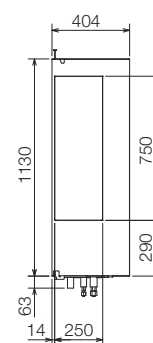


An inspection opening is required for installation and regular maintenance (check) of the drain pump. When SA temp. control is selected, another inspection opening may be required in front of the unit for SA thermistor replacement only when an error occurred on the SA thermistor.

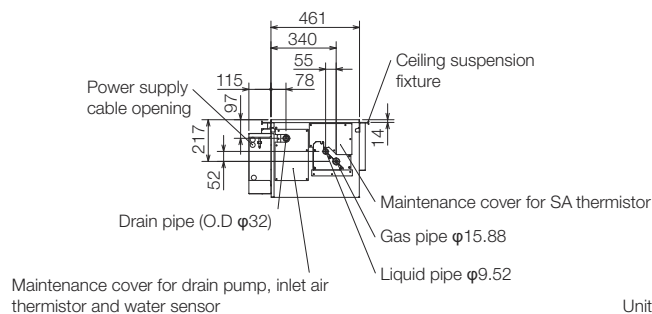
Upper View



Right Side View



Front View

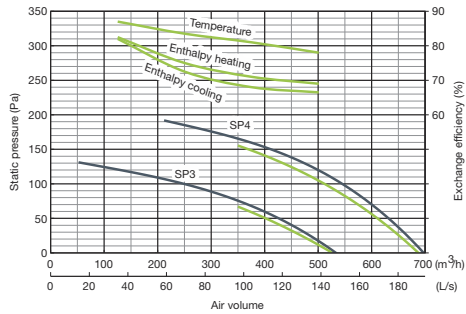


Unit (mm)

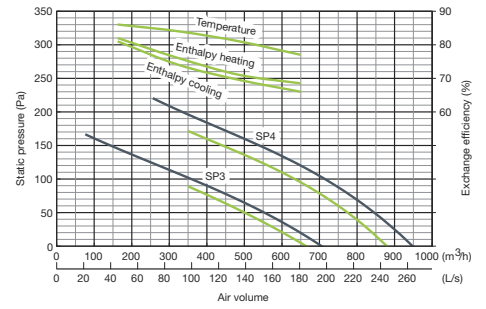
Specifications

FAN CURVE CHARACTERISTICS

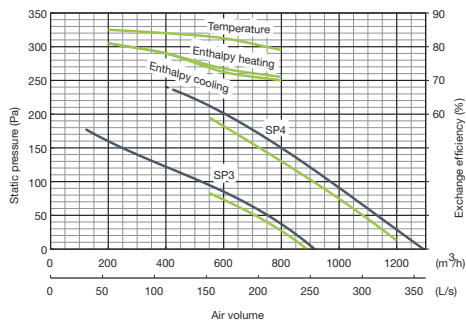
LGH-50RVX-E



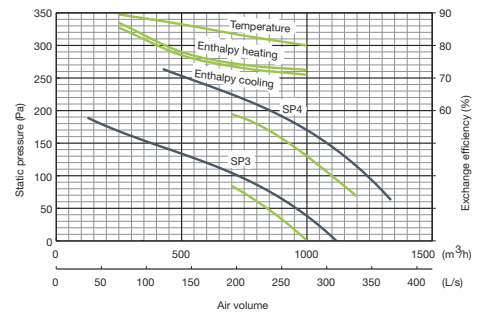
LGH-65RVX-E



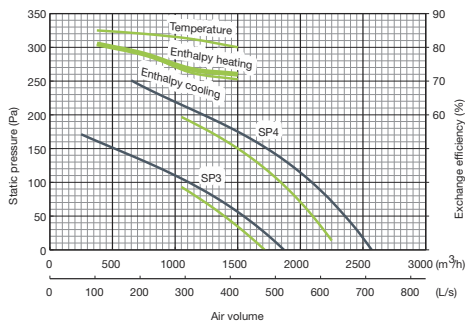
LGH-80RVX-E



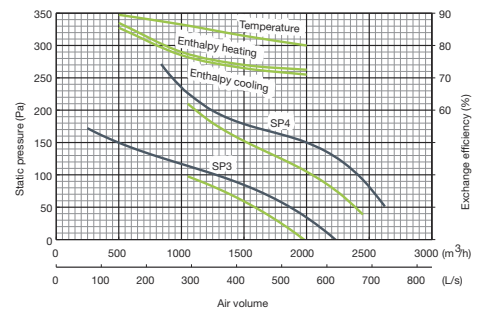
LGH-100RVX-E



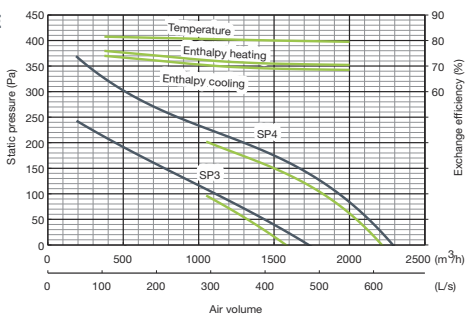
LGH-150RVX-E



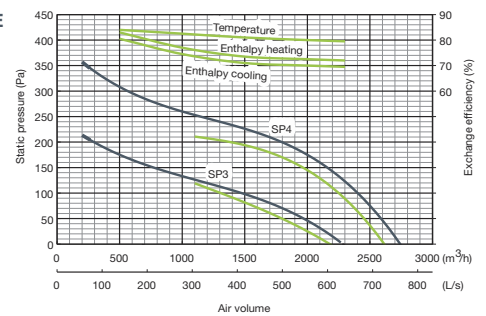
LGH-200RVX-E



LGH-150RVXT-E

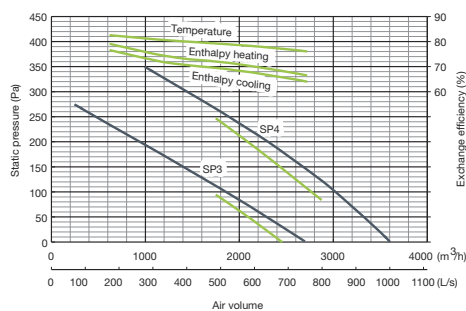


LGH-200RVXT-E



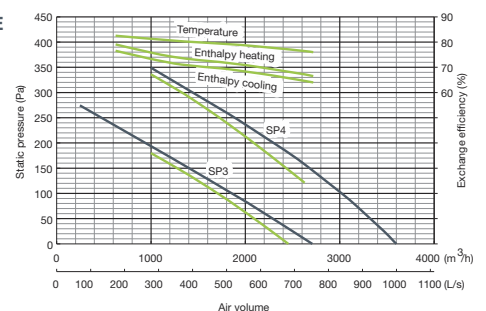
LGH-250RVXT-E

RA Temperature Control



LGH-250RVXT-E

SA Temperature Control



Ideal for commercial applications including offices and schools:

Office application

Supplemented air conditioning system

RA Temperature Control - Temperature setting range

- Heating: 17-28°C ■ Cooling: 19-30°C
- Auto: 19-28°C

Supplemental air conditioning systems that combine the use of Dx-coil and Lossnay MVHR units are now possible.

Fresh air volume requirement	Medium
Heating and cooling capacity requirement	High

Target Segment:



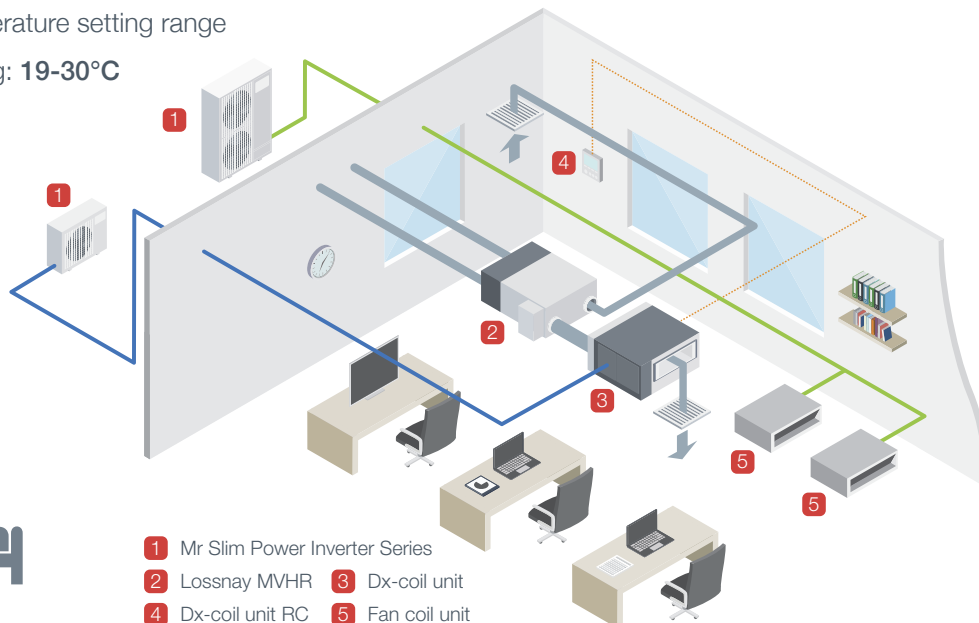
Offices



Small shops



Hotels



School application

Main air conditioning system

RA Temperature Control - Temperature setting range

- Heating: 17-28°C ■ Cooling: 19-30°C
- Auto: 19-28°C

If the required heating and cooling capacity is not so high, a Dx-coil and Lossnay package solution is possible for air-conditioning and ventilation needs.

Fresh air volume requirement	High
Heating and cooling capacity requirement	Medium

Target Segment:



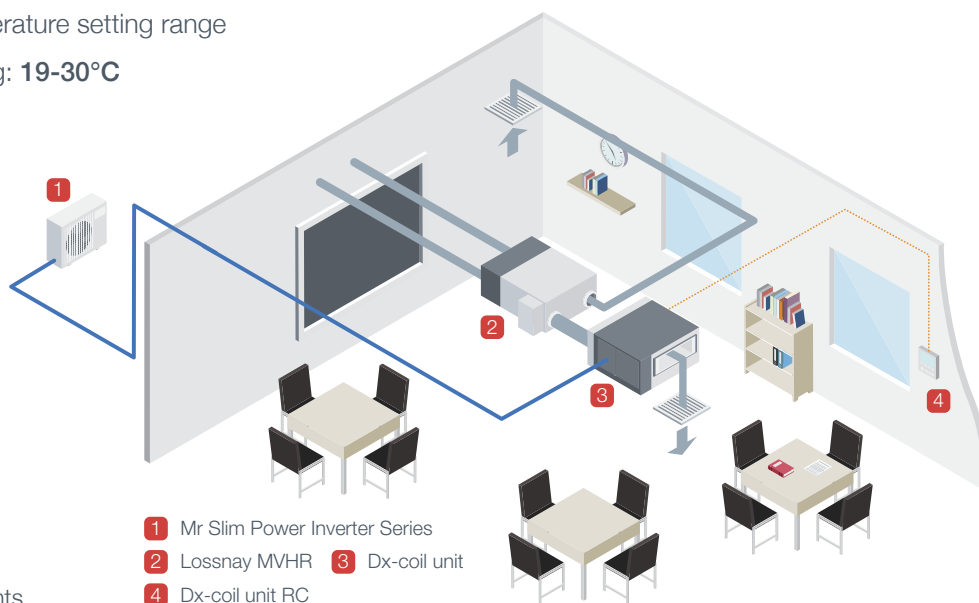
Schools



Factories



Restaurants



Telephone: 01707 282880

email: ventilation@meuk.mee.com

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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).



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Mitsubishi Electric
Living Environmental Systems UK



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Effective as of April 2018