

LGH-RVX-E

Commercial Series



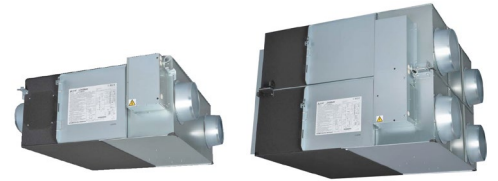
The Commercial Lossnay (LGH) Mechanical Ventilation Heat Recovery (MVHR) systems are designed to supply clean, fresh air into commercial buildings, whilst simultaneously extracting stale air.

The **RVX** units recover valuable latent energy, as well as the sensible heat energy. This maximises the available energy recovered and further reduces building running costs.

Key Features & Benefits:

- Fresh air ventilation for improved air quality
- Mitsubishi Electric pioneered heat exchanger enables maximised latent heat exchange, resulting in cost and carbon savings
- Low specific fan powers for improved energy efficiency
- Lightweight structure ideal for ceiling installation
- No condensate drain requirement
- Compatible with Mr Slim and City Multi air conditioning systems for a complete and highly effective system operation
- Optional high efficiency filters available



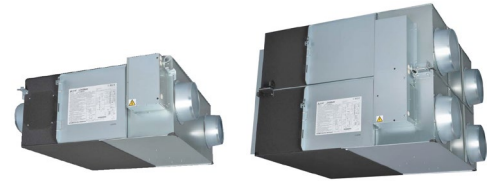


| MODEL | | LGH-15RVX-E | LGH-25RVX-E | LGH-35RVX-E | LGH-50RVX-E | LGH-65RVX-E | LGH-80RVX-E | LGH-100RVX-E | LGH-150RVX-E | LGH-200RVX-E | |
|-------------------------------------|------------------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|-------------------|--------------------------------|--------------------------------|------|
| Electrical Power Supply | | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | |
| Running Current (A) | SP1 | 0.10 | 0.10 | 0.12 | 0.13 | 0.15 | 0.15 | 0.17 | 0.29 | 0.33 | |
| | SP2 | 0.15 | 0.16 | 0.26 | 0.26 | 0.39 | 0.36 | 0.50 | 0.70 | 0.88 | |
| | SP3 | 0.24 | 0.28 | 0.54 | 0.59 | 0.90 | 0.83 | 1.20 | 1.75 | 2.20 | |
| | SP4 | 0.40 | 0.48 | 0.98 | 1.15 | 1.65 | 1.82 | 2.50 | 3.71 | 4.88 | |
| Input Power (W) | SP1 | 7 | 8 | 11 | 12 | 15 | 18 | 21 | 38 | 42 | |
| | SP2 | 14 | 16 | 31 | 32 | 49 | 60 | 75 | 123 | 153 | |
| | SP3 | 28 | 33 | 70 | 78 | 131 | 151 | 200 | 311 | 400 | |
| | SP4 | 49 | 62 | 140 | 165 | 252 | 335 | 420 | 670 | 850 | |
| Airflow (m ³ /h)*2 | SP1 | 38 | 63 | 88 | 125 | 163 | 200 | 250 | 375 | 500 | |
| | SP2 | 75 | 125 | 175 | 250 | 325 | 400 | 500 | 750 | 1000 | |
| | SP3 | 113 | 188 | 263 | 375 | 488 | 600 | 750 | 1125 | 1500 | |
| | SP4 | 150 | 250 | 350 | 500 | 650 | 800 | 1000 | 1500 | 2000 | |
| Airflow (l/s)*2 | SP1 | 10 | 17 | 24 | 35 | 45 | 56 | 69 | 104 | 139 | |
| | SP2 | 21 | 35 | 49 | 69 | 90 | 111 | 139 | 208 | 278 | |
| | SP3 | 31 | 52 | 73 | 104 | 135 | 167 | 208 | 313 | 417 | |
| | SP4 | 42 | 69 | 97 | 139 | 181 | 222 | 278 | 417 | 556 | |
| Specific Fan power (W/(l/s)) | SP1 | 0.70 | 0.47 | 0.46 | 0.34 | 0.33 | 0.32 | 0.30 | 0.37 | 0.30 | |
| | SP2 | 0.67 | 0.46 | 0.63 | 0.46 | 0.54 | 0.54 | 0.54 | 0.59 | 0.55 | |
| | SP3 | 0.90 | 0.63 | 0.96 | 0.75 | 0.97 | 0.90 | 0.96 | 0.99 | 0.96 | |
| | SP4 | 1.17 | 0.90 | 1.44 | 1.19 | 1.39 | 1.51 | 1.51 | 1.61 | 1.53 | |
| External Static Pressure (Pa) | SP1 | 6 | 5 | 10 | 8 | 8 | 10 | 11 | 11 | 10 | |
| | SP2 | 24 | 21 | 40 | 30 | 30 | 38 | 43 | 44 | 38 | |
| | SP3 | 54 | 48 | 90 | 68 | 68 | 85 | 96 | 98 | 84 | |
| | SP4 | 95 | 85 | 160 | 120 | 120 | 150 | 170 | 175 | 150 | |
| Sound Pressure Level (dBA) | SP1 | 17 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | |
| | SP2 | 19 | 20 | 20 | 19 | 22 | 23 | 23 | 24 | 28 | |
| | SP3 | 24 | 22 | 28 | 28 | 29 | 30 | 31 | 32 | 36 | |
| | SP4 | 28 | 27 | 32 | 34 | 34.5 | 34.5 | 37 | 39 | 40 | |
| Temperature Exchange Efficiency (%) | SP1 | 84 | 86 | 88.5 | 87 | 86 | 85 | 89.5 | 85 | 89.5 | |
| | SP2 | 83 | 82 | 86 | 83.5 | 84 | 84 | 86.5 | 84 | 86.5 | |
| | SP3 | 81 | 80 | 82.5 | 81 | 81 | 82.5 | 83 | 82.5 | 83 | |
| | SP4 | 80 | 79 | 80 | 78 | 77 | 79 | 80 | 80 | 80 | |
| Enthalpy Exchange Efficiency (%) | Heating | SP1 | 79 | 83 | 83.5 | 82.5 | 82 | 81 | 87 | 81 | 87 |
| | | SP2 | 78 | 76 | 78.5 | 75 | 76 | 78 | 78 | 78 | 78 |
| | | SP3 | 75.5 | 72 | 74 | 71 | 71 | 73.5 | 74 | 73.5 | 74 |
| | | SP4 | 73 | 69.5 | 71.5 | 69 | 68.5 | 71 | 72.5 | 72 | 72.5 |
| | Cooling | SP1 | 79 | 83 | 82 | 82 | 81 | 81 | 85.5 | 81 | 85.5 |
| | | SP2 | 78 | 74.5 | 78 | 72.5 | 74 | 78 | 77 | 78 | 77 |
| | | SP3 | 74.5 | 70 | 73 | 68 | 69.5 | 72.5 | 73 | 72.5 | 73 |
| | | SP4 | 71 | 68 | 71 | 66.5 | 66 | 70 | 71 | 70.5 | 71 |
| Weight (kg) | | 20 | 23 | 30 | 33 | 38 | 48 | 54 | 98 | 110 | |
| Dimensions (mm) | Width x Depth x Height | 780 x 610 x 289 | 780 x 735 x 289 | 888 x 874 x 331 | 888 x 1016 x 331 | 908 x 954 x 404 | 1144 x 1004 x 404 | 1144 x 1231 x 404 | 1144 x 1004 x 808 | 1144 x 1231 x 808 | |
| Duct Size (mm) | | 100 | 150 | 150 | 200 | 200 | 250 | 250 | (SA,RA)250 (OA,EA)270 x 700 | (SA,RA)250 (OA,EA)270 x 700 | |
| Standard Filter*1 | | EU-G3 | EU-G3 | EU-G3 | EU-G3 | EU-G3 | EU-G3 | EU-G3 | EU-G3 | EU-G3 | |
| Fuse Rating (BS88) – HRC (A) | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | |

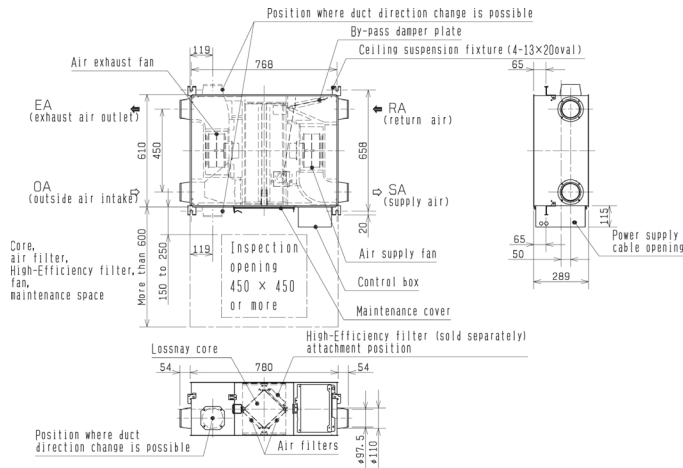
Notes: Running Current, Input Power and Recovery Efficiency are based on the above airflow rate, power supply 240v, 50Hz. Sound Pressure Level measured at 1.5m under the centre of panel.

*1: ISO 16890-2016 ePM1 75% filter available as optional parts. *2: Airflow tested to Japan industrial standard JIS B 8628. SP1, SP2, SP3 & SP4 relate to the fan speeds of the Lossnay RVX units i.e. fanspeed 1, 2, 3 & 4.

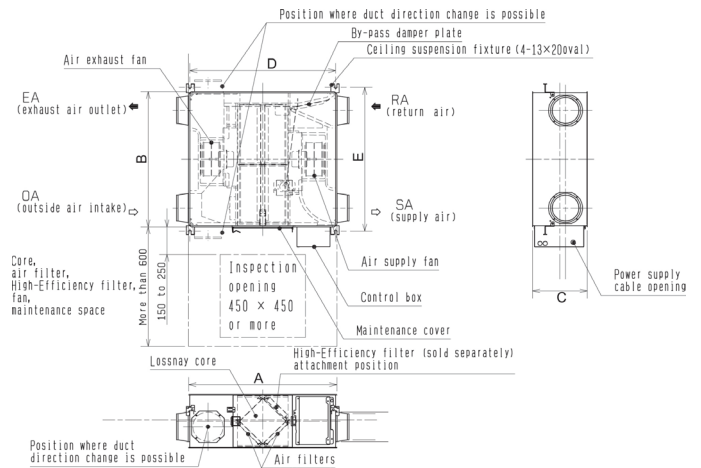
| ACCESSORIES | | LGH-15RVX-E | LGH-25RVX-E | LGH-35RVX-E | LGH-50RVX-E | LGH-65RVX-E | LGH-80RVX-E | LGH-100RVX-E | LGH-150RVX-E | LGH-200RVX-E |
|------------------------|------------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|----------------------|-----------------------|
| Remote Controller | | PZ-62DR-EB | | | | | | | | |
| Filters | Replacement Course 35% / G3 filter | PZ-15RF8-E | PZ-25RF8-E | PZ-35RF8-E | PZ-50RF8-E | PZ-65RF8-E | PZ-80RF8-E | PZ-100RF8-E | PZ-80RF8-E (2 sets) | PZ-100RF8-E (2 sets) |
| | ePM ₁ 75% | PZ-15RFP2-E | PZ-25RFP2-E | PZ-35RFP2-E | PZ-50RFP2-E | PZ-65RFP2-E | PZ-80RFP2-E | PZ-100RFP2-E | PZ-80RFP2-E (2 sets) | PZ-100RFP2-E (2 sets) |
| Weather-proof Housings | | - | KS4-KWH25RVX | KS4-KWH35RVX | KS4-KWH50RVX | KS4-KWH65RVX | KS4-KWH80RVX | KS4-KWH100RVX | KS4-KWH150RVX | KS4-KWH200RVX |



LGH-15RVX-E DIMENSIONS

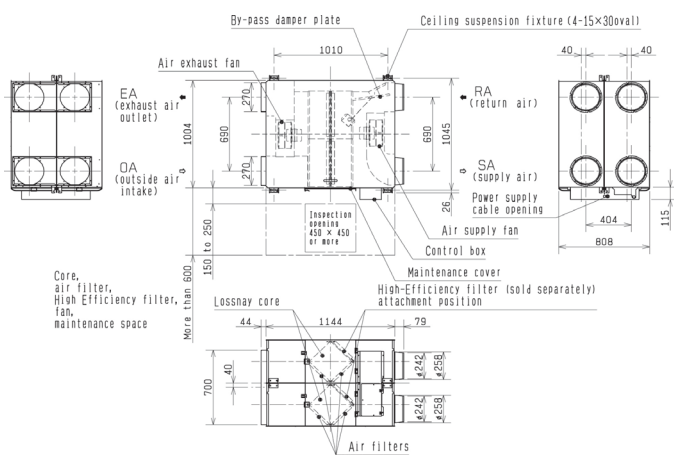


LGH-25-100RVX-E DIMENSIONS

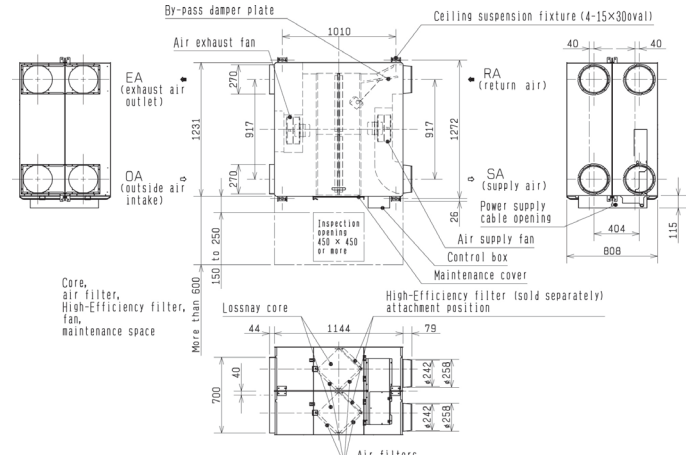


| MODEL | DIMENSIONS | | | CEILING SUSPENSION FIXTURE PITCH | | NOMINAL DUCT DIAMETER |
|--------------|------------|------|-----|----------------------------------|------|-----------------------|
| | A | B | C | D | E | |
| LGH-25RVX-E | 780 | 735 | 289 | 768 | 782 | 150 |
| LGH-35RVX-E | 888 | 874 | 331 | 875 | 921 | 150 |
| LGH-50RVX-E | 888 | 1016 | 331 | 875 | 1063 | 200 |
| LGH-65RVX-E | 908 | 954 | 404 | 895 | 1001 | 200 |
| LGH-80RVX-E | 1144 | 1004 | 404 | 1131 | 1051 | 250 |
| LGH-100RVX-E | 1144 | 1231 | 404 | 1131 | 1278 | 250 |

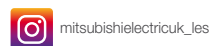
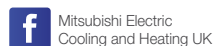
LGH-150RVX-E DIMENSIONS



LGH-200RVX-E DIMENSIONS



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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and 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), R134a (GWP:1430), P513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *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).

Effective as of August 2022

