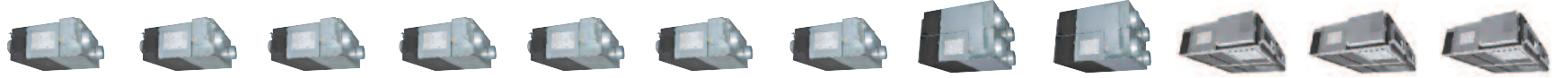


Lossnay RVX(T) Quick Reference Guide 2016



COMMERCIAL MODELS		LGH15RVX-E	LGH25RVX-E	LGH35RVX-E	LGH50RVX-E	LGH65RVX-E	LGH80RVX-E	LGH100RVX-E	LGH150RVX-E	LGH200RVX-E	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-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	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	0.36	0.39	0.57
	SP2	0.15	0.16	0.26	0.26	0.39	0.36	0.50	0.70	0.88	1.10	1.10	1.40
	SP3	0.24	0.28	0.54	0.59	0.90	0.83	1.20	1.75	2.20	2.40	2.70	3.60
	SP4	0.40	0.48	0.98	1.15	1.65	1.82	2.50	3.71	4.88	4.30	5.40	7.60
INPUT POWER (W)	SP1	7	8	11	12	15	18	21	38	42	48	56	82
	SP2	14	16	31	32	49	60	75	123	153	176	197	244
	SP3	28	33	70	78	131	151	200	311	400	421	494	687
	SP4	49	62	140	165	252	335	420	670	850	792	1000	1446
AIRFLOW (m³/h)²	SP1	38	63	88	125	163	200	250	375	500	375	500	625
	SP2	75	125	175	250	325	400	500	750	1000	750	1000	1250
	SP3	113	188	263	375	488	600	750	1125	1500	1125	1500	1875
	SP4	150	250	350	500	650	800	1000	1500	2000	1500	2000	2500
AIRFLOW (l/s)²	SP1	10	17	24	35	45	56	69	104	139	104	139	174
	SP2	21	35	49	69	90	111	139	208	278	208	278	347
	SP3	31	52	73	104	135	167	208	313	417	313	417	521
	SP4	42	69	97	139	181	222	278	417	556	417	556	694
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	0.46	0.40	0.47
	SP2	0.67	0.46	0.63	0.46	0.54	0.54	0.54	0.59	0.55	0.85	0.71	0.70
	SP3	0.90	0.63	0.96	0.75	0.97	0.90	0.96	0.99	0.96	1.35	1.18	1.32
	SP4	1.17	0.90	1.44	1.19	1.39	1.51	1.51	1.61	1.53	1.90	1.80	2.08
EXTERNAL STATIC PRESSURE (Pa)	SP1	6	5	10	8	8	10	11	11	10	11	11	11
	SP2	24	21	40	30	30	38	43	44	38	44	44	44
	SP3	54	48	96	68	68	85	96	98	84	98	98	98
	SP4	95	85	160	120	120	150	170	175	150	175	175	175
SOUND PRESSURE LEVEL (dBA)	SP1	17	17	17	18	18	18	18	18	18	22	22	24
	SP2	19	20	20	19	22	23	23	24	28	29.5	28	32
	SP3	24	22	28	28	29	30	31	32	36	35.5	35.5	39
	SP4	28	27	32	34	34.5	34.5	37	39	40	39.5	39.5	43
TEMPERATURE EXCHANGE EFFICIENCY (%)	SP1	84	86	88.5	87	86	85	89.5	85	89.5	81.5	84	82.5
	SP2	83	82	86	83.5	84	84	86.5	84	86.5	81	82.5	80.5
	SP3	81	80	82.5	81	81	82.5	83	82.5	83	80.5	81	79
	SP4	80	79	80	78	77	79	80	80	80	80	80	77
ENTHALPY EXCHANGE EFFICIENCY (%)	Heating	SP1	79	83	83.5	82.5	82	81	87	81	87	75	83
	SP2	78	76	78.5	75	76	76	78	78	78	73	77	74
	SP3	75.5	72	74	71	71	73.5	74	73.5	74	71	73.5	71.5
	SP4	73	69.5	71.5	69	68.5	71	72.5	72	72.5	70	72.5	68
	Cooling	SP1	79	83	82	82	81	81	85.5	81	85.5	74	80.5
	SP2	78	74.5	78	72.5	74	78	77	78	77	72	74.5	71.5
	SP3	74.5	70	73	68	69.5	72.5	73	72.5	73	70	71	69
	SP4	71	68	71	66.5	66	70	71	70.5	71	69	70	65.5
WEIGHT (kg)		20	23	30	33	38	48	54	98	110	156	159	198
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	1980 x 1500 x 500	1980 x 1500 x 500	1980 x 1500 x 500
DUCT SIZE (mm)		Ø100	Ø150	Ø150	Ø200	Ø200	Ø250	Ø250	(SA,RA)Ø250 (OA,EA)Ø270 x 700	(SA,RA)Ø250 (OA,EA)Ø270 x 700	250 x 750	250 x 750	250 x 750
STANDARD FILTER¹		EU-G3	EU-G3	EU-G3	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	10	10	16

Notes: Running Current, Input Power and Recovery Efficiency are based on the above airflow rate, power supply 230v, 50Hz. Sound Pressure Level measured at 1.5m under the centre of panel.

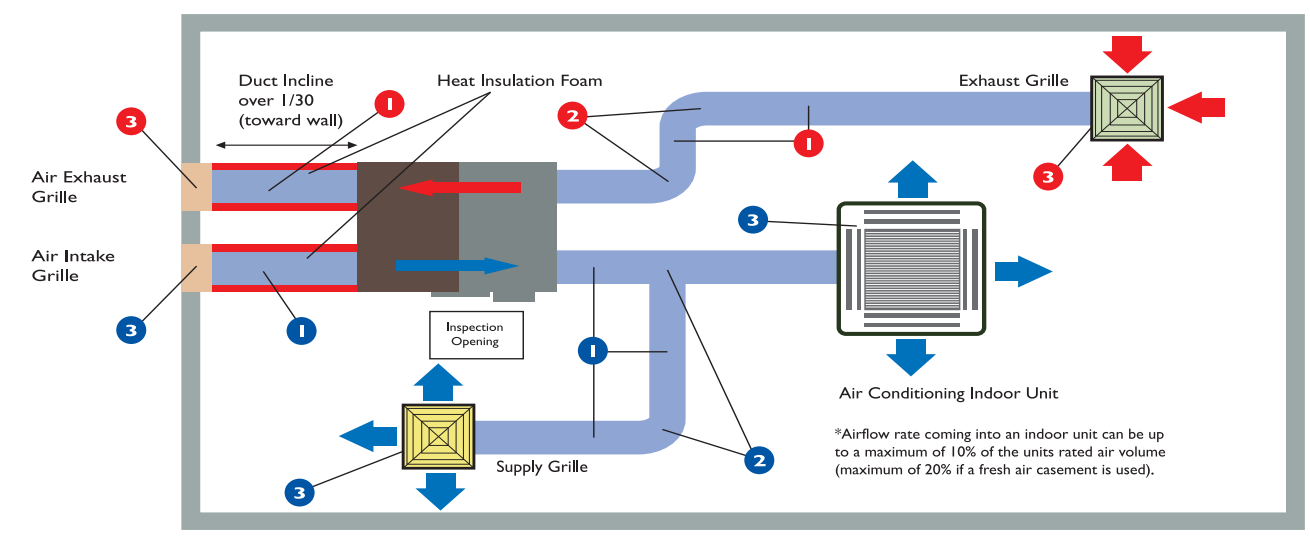
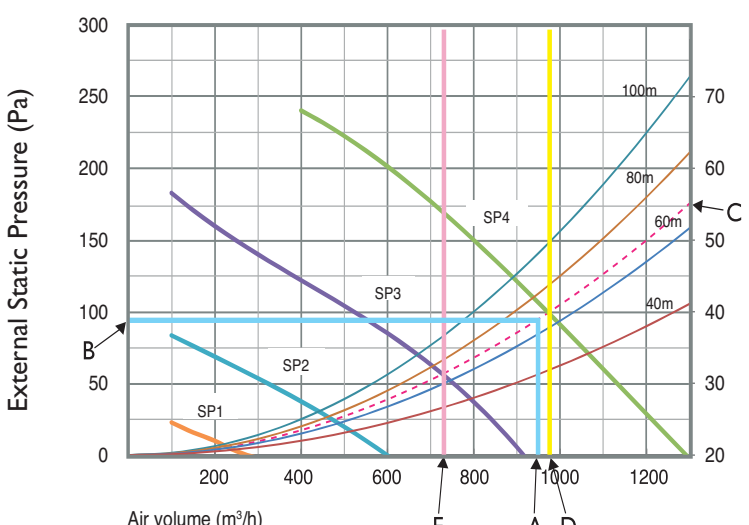
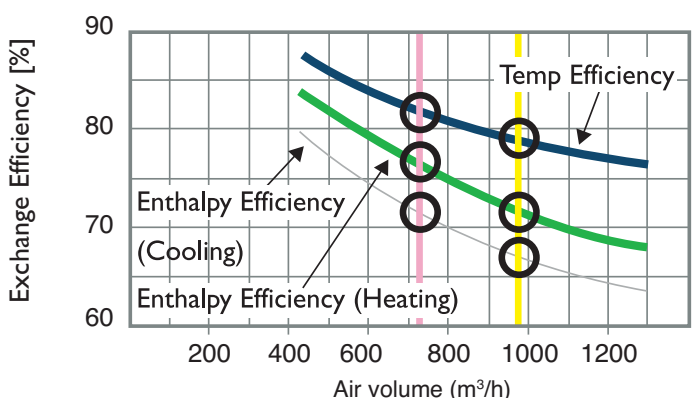
*1: EU-F7 (EN779:2002) filter available as optional parts. *2: Airflow tested to Japan industrial standard JIS B 8628. SP1, SP2, SP3 & SP4 relate to the fan speeds of the Lossnay RVX(T) units i.e. fanspeed 1, 2, 3 & 4.

CIBSE RECOMMENDED FRESH AIR RATES (36M³/H/PERSON OR 10L/S/PERSON)

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	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E
Number of people in Office	4.2	6.9	9.7	13.9	18.1	22.2	27.8	41.7	55.6	41.7	55.6	69.4
Area of Office (m²)	16	27	37	53	69	85	107	160	214	160	214	265
Recovery Heat Energy (kW)	Heating	1.2	1.9	2.7	3.8	4.8	6.2	7.9	11.7	15.8	11.4	15.7
	Cooling	0.5	0.8	1.2	1.7	2.1	2.8	3.5	5.2	7	5.1	6.9
Recovery Heat Energy (W/m²)	Heating	75	70	73	72	70	73	74	73	74	71	73
	Cooling	31	30	32	32	30	33	33	33	33	32	31

Calculation Conditions Winter = Outdoor air: 2.5°C DB, RH 50% Indoor air: 21°C DB, RH 50% Summer = Outdoor air: 27°C DB, RH 50% Indoor air: 21°C DB, RH 50% Fan speed 4, above airflow. m³/h = metres cubed per hour, l/s = litres per second.

LOSSNAY INSTALLATION EXAMPLE



Note: RVXT ducting differs from the above diagram

Step	How to calculate ductwork / air volume for supply duct run	Example
1	Required airflow → A (draw line A)	950 [m³/h]
2	Add together static pressure losses for the following: Static pressure loss from straight duct length Static pressure loss at curved sections Static pressure loss of related parts → B (draw line B)	1 20 [Pa] 2 40 [Pa] 3 35 [Pa] Total 95 [Pa]
3	Draw curve C (Estimated static pressure loss curve) which passes the intersection point between line A and line B	-
4	The intersection point between curve C and SP4 fan characteristic curve shows the actual SP4 fan airflow → D	975 [m³/h]
5	The intersection point between curve C and SP3 fan characteristic curve shows the actual SP3 fan airflow → E	730 [m³/h]
6	Three intersection points between three exchange efficiency curves and line D show the actual efficiency at SP4 fan speed	79% - 72% - 67%
7	Three intersection points between three exchange efficiency curves and line D show the actual efficiency at SP3 fan speed	82% - 77% - 72%

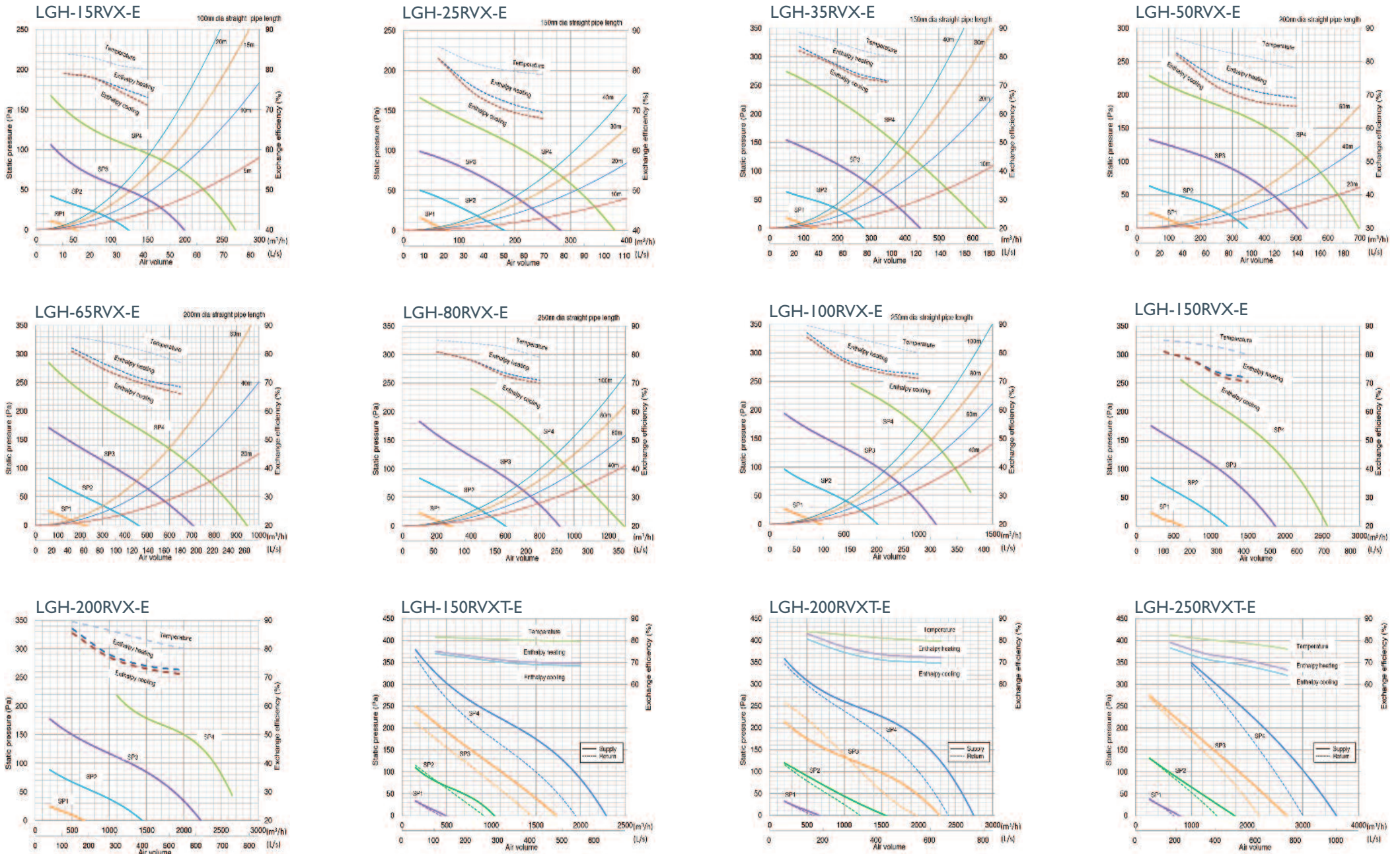
MITSUBISHI ELECTRIC
Air Conditioning | Heating
Ventilation | Controls

LOSSNAY CORE

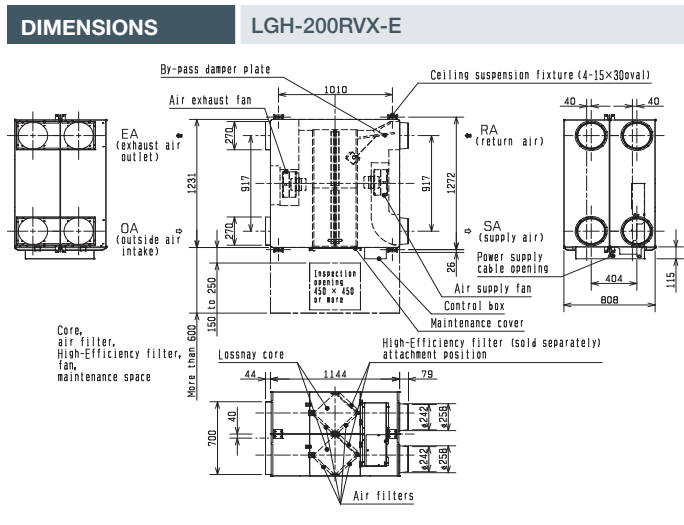
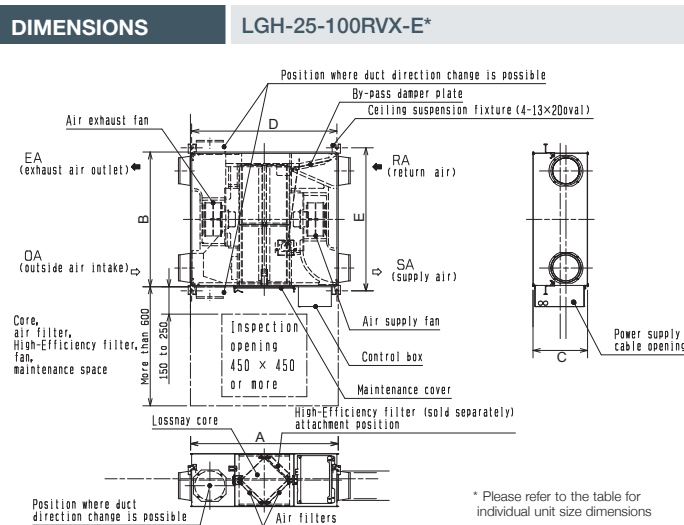
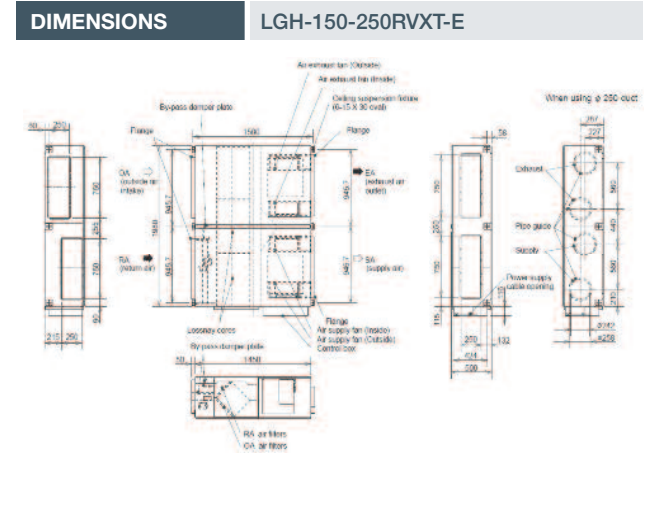
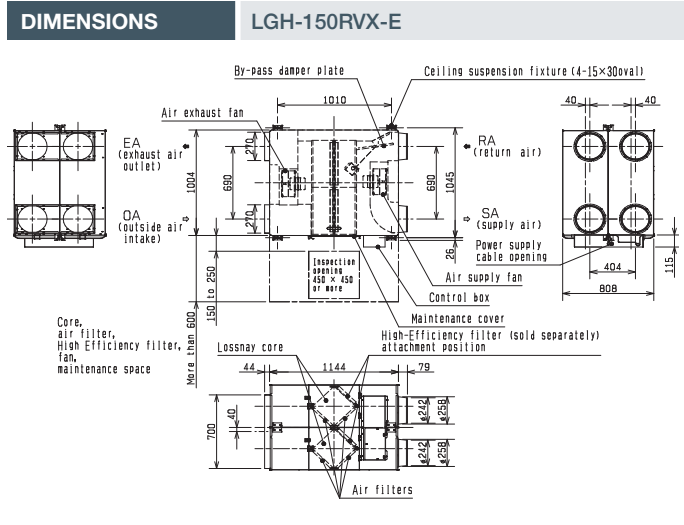
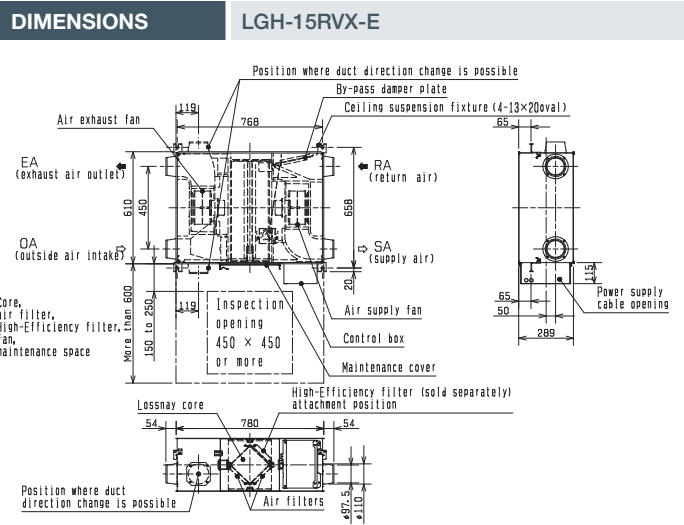
REMOTE CONTROLLER

Part No. PZ-61DR-E

FAN CHARACTERISTIC CURVES



WIRING DIAGRAMS



MODEL REFERENCE	DIMENSIONS		
	A	B	C
LGH-25RVX-E	780	735	289
LGH-35RVX-E	888	874	331
LGH-50RVX-E	888	1016	331
LGH-65RVX-E	908	954	404
LGH-80RVX-E	1144	1004	404
LGH-100RVX-E	1144	1231	404

MODEL REFERENCE	CEILING SUSPENSION FIXTURE PITCH		NOMINAL DUCT DIAMETER
	D	E	
LGH-25RVX-E	768	782	150
LGH-35RVX-E	875	921	150
LGH-50RVX-E	875	1063	200
LGH-65RVX-E	895	1001	200
LGH-80RVX-E	1131	1051	250
LGH-100RVX-E	1131	1278	250