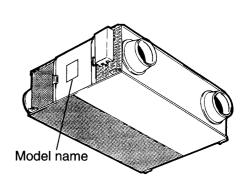
LOSSNAY HAND BOOK

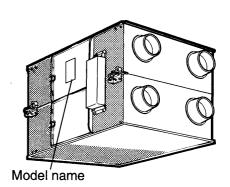
FOR DEALERS

Model:

LGH-15RX4-E LGH-25RX4-E LGH-35RX4-E LGH-50RX4-E LGH-65RX4-E LGH-80RX4-E LGH-100RX4-E



LGH-150RX4-E LGH-200RX4-E



Repair work should be performed by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.

Notice:

The term of validity is for a year from the issued date.



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Safety precautions

- ●Please be sure to read the following safety precautions thoroughly before commencing with the maintenance work, and conduct the inspection and repair of the product in a safe manner.
- ●The types and levels of danger that may arise if the product is handled incorrectly are described by using the warning symbols shown below.



Incorrect handling of the product may result in serious injury or death.

♦ Electric shock

If you must inspect the circuitry while the power is on, do not touch the live parts.

(Failure to heed this warning may result in electric shock.)



Caution for electric shock

Turn off the power supply

Be sure to shut off the breaker before disassembling the unit for repair.

(Failure to heed this warning may result in electric shock.)



Be sure to follow

Modification is prohibited

Do not modify the unit.

(Failure to heed this warning may result in electric shock, fire and/or bodily injury.)



Use proper parts and tools

tric shock, fire and/or bodily injury.)

For repair, be sure to use the parts listed in the service parts list of the applicable unit model and use the proper tools.

(Failure to heed this warning may result in elec-

Be sure to follow

Proper electric work

Use the electric wires designated for electric work, and conduct electric work in accordance with the "Electric Installation Engineering Standard," the "Indoor Wiring Regulations," and the Installation Work Guide.

(Incomplete connection or wiring installation may result in electric shock and/or fire.)



Replace damaged and/or degraded parts

Be sure to replace the power-supply cord and lead wire in the event that they are damaged and/or degraded.

(Failure to heed this warning may result in electric shock and/or fire.)

♦ Check insulation

Be sure to measure the insulation resistance once the repair work is complete, and turn on the power supply after verifying that an insulation resistance of at least $10M\Omega$ is obtained.

(If an insulation problem exists, it may result in electric shock.)

Be sure to follow this instruction



Incorrect handling of the product may result in serious injury or damage to properties including buildings and equipment.

Caution for bodily injury

Do not conduct any work at a location where you do not have a sure footing.

(Failure to heed this caution may result in a fall.)



♦ Wear gloves

Wear gloves when conducting work.

(Failure to heed this caution may result in injury to your hands from sharp metal or other edges.)



Be sure to follow this instruction.

Request during repair

- •Inspect the grounding, and repair it if incomplete.
- •Make sure that the product operates correctly upon completion of repair. Clean the product as well as the surrounding area, and then notify the customer of the completion of repair.

1. Specifications

MODEL					l	_GH-15	RX4-E						
Heat exchange system		Air-to-	air tota	l heat e	xchange (:	sensible	heat +	latent he	at)excha	inge			
Heat exchange element	material	Partiti	on•spac.	ing plate	e-special	treated	paper						
Cladding		0	zed stee										
Heat insulating mater	rial				hane foar								
Motor		Totally	Totally enclosed capacitor permanent split-phase induction motor. 4 poles, 2 units										
Blower		180mm dia. Centrifugal fan											
Filter material		Non-woven fabrics filter(Gravitational method 82%) -10°C to 40°C, RH 80% or less											
Operation enviroment	(Supply air:												
·	ir rature	air con Pre-Hea	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Functions			ventila	tion/Byp	ass vent	<u>ilation</u>	High (E	xtra high	n) -Low si	<u>vitching</u>			
Weight			17kg Single phase 220-240V										
Power source		Single	phase 22					1					
Frequency					<u>Hz</u>					60			
Ventilation mode			y venti			s ventil			y venti			s ventil	
Fan speed		Extra high		Low	Extra high			Extra high	High	Low	Extra high		Low
Current	(A)	0.42-0.45		0.21-0.22	0.42-0.45			0.49-0.51	0.33-0.35	0.23-0.24	0.49-0.52		0.23-0.24
Power consumption	(W)	92-107	63-73	45-51	92-107	64-73	45-51	107-122	72-84	49-57	107-123	72-84	49-57
Air volume	(m³/h)	150	150	110	150	150	110	150	150	100	150	150	100
7,	(L/s)	4 2	4 2	3 1	4 2	4 2	3 1	4 2	4 2	28	4 2	4 2	2 8
External static	(MMH_2O)	9.7	6.1	3.6	9.7	6.1	3.6	14.3	8.2	4.1	14.3	8.2	4.1
pressure	(Pa)	95	6.0	3 5	9 5	6.0	3 5	140	8 0	4 0	140	8 0	4 0
Temperature exchange efficien	-	77	77	8 1	_	-	_	77	77	8 2	_	_	-
Enthalpy exchange	Heating	7.0	7.0	7.4	_	_	_	70	7.0	75	-		-
efficiency (%)	Cooling	64.5	64.5	70	-	-	-	64.5	64.5	71	-	_	-
Noise (dB) Air outle	5m under the center of panel tc	26-27 33-34	2 4 - 2 5 30 - 31 . 5	22 - 23 26 - 27 · 5	26-27 33-31	24-25	22 - 23 26 - 27	28-29 35.5-36.5	25-26 31-32.5	22-23 27-28	28-29 35.5-36.5	2 5.5-26.5 31 5-33	22-23
Starting current	13	33-34 30-31.5 26-27.5 33-34 30-31.5 26-27 35.5-36.5 31-32.5 27-28 35.5-36.5 31.5-33 27.5-28 Under O. 7A less											
Insulation resistance	10MQ or more (500V megger)												
Dielectric strength	AC 1500V 1 minute												
		, = = = 00											

MODEL LGH-25RX4-E												
Heat exchange system	Air-to-a	ir tota	l heat e	xchange (sensible	heat +	latent he	eat) excha	nge			
Heat exchange element material	Partitio	n•spaci	ng plate	e-special	treated	paper						
Cladding	Galvaniz	ed stee	l sheet									
Heat insulating material	Self-ext	inguish.	ing uret	hane foai	n							
Motor	Totally enclosed capacitor permanent split-phase induction motor. 4 poles, 2 units											
Blower	180mm dia. Centrifugal fan											
Filter material	Non-woven fabrics filter(Gravitational method 82%)											
Operation enviroment(Supply air)												
Operation and room air		OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit.										
temperature		Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Functions	Lossnay	ventila	tion/Byp	ass vent	ilation	High (E	xtra high	n)-Low sv	vitching			
Weight	21kg	11kg										
Power source	Single p	hase 220										
Frequency			50Hz						60H			
Ventilation mode	Lossnay	ventil	ation	Bypas	s ventil	ation	Lossna	y ventil	lation	Bypas	s ventil	ation
Fan speed	Extra high	High	Low	Extra high		Low	Extra high		_	Extra high	High	Low
Current (A)			0.24-0.25	0.47-0.49	0.39-0.40		0.55-0.58		0.26-0.27	0.55-0.58	0.45-0.47	0.26-0.27
Power consumption (W)		85-96	52-59	103-117	85-96	52-59	121-139		56-64	121-139	98-112	56-64
Air volume (m³/h)	250	250	165	250	250	165	250	250	150	250	250	150
(L/s)	69	69	46	6 9	69	4 6	6 9	69	4 2	6 9	69	4 2
External static (mmH2O)	8.2	5.1	2.5	8.2	5.1	2.5	11.2	6.1	2.5	11.2	6.1	2.5
pressure (Pa)	8.0	5 0	2 5	8 0	50	2 5	110	60	25	110	60	25
Temperature exchange efficiency (%)	7.8	7.8	83.5	_	_	_	7.8	7.8	84.5	-	-	_
Enthalpy exchange Heating	7.0	70	77	-	_	_	7 0	70	7.8	-	-	-
efficiency (%) Cooling	6.5	6.5	7 1	_	_	_	6.5	6 5	7 2	_	-	-
Noise (dR) Measured at 1.5m under the center of panel		25-26	22-23	27-28	25.5-26.5	22-23	28.5-29.5	25.5-26.5	22-23	29-30	26-27	22-23
Air outlets		33-34	27-28	35-36	33.5-34.5	27 - 28	36.5-37.5	33.5-34.5	27-28	37 - 38	34-35	27 - 28
Starting current	Under 0.8A less											
Insulation resistance	10MQ or more (500V megger)											
Dielectric strength	AC 1500)V 1 mi	nute									

MODEL		LGH-35RX4-E											
Heat exchange system		Air-to-	air tota	l heat e	xchange (sensible	heat +	latent he	at) excha	ange			
Heat exchange element	material	Partiti	on•spaci	ng plati	e-special	treated	paper						
Cladding		Galvani	zed stee	l sheet									
Heat insulating mater	ial	Self-ex	tinguish	ing uret	hane foar	m							
Motor		Totally	enclose	d capaci	tor perm	anent sp	lit-phase	e indu	ction mo	tor.4 po	les, 2 uni	ts	
Blower		220mm dia. Centrifugal fan											
Filter material		Non-woven fabrics filter(Gravitational method 82%)											
Operation enviroment(Supply air)		-10°C to 40°C, RH 80% or less										
Operation and room a tempe	ir rature	air con Pre-Hea	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Functions			ventila	tion/Byp	ass vent	ilation	High (E	xtra high	ı) -Low sı	witching			
Weight		30 k g											
Power source		Single	phase 22	0-240V									
Frequency				50I						601	ΗZ		
Ventilation mode		Lossna	y venti	lation	Bypas	s ventil	ation	Lossna	y ventil	ation	Bypass	ventil	ation
Fan speed		Extra high	High	Low	Extra high		Low	Extra high	High	Low	Extra high	High	Low
Current	(A)	0.78-0.79	0.71-0.71	0.46-0.48	0.81-0.82	0.72-0.73	0.46-0.49	0.99-0.99	0.83-0.87	0.46-0.50	1.00-1.00	0.83-0.86	0.46-0.50
Power consumption	(W)	169-187	154-167	97-110	176-192	156-172	97-111	215-236	180-207	97-117	217-236	180-206	97-117
Air volume	(m³/h)	350	350	230	350	350	230	350	350	210	350	350	210
, , ,	(L/s)	97	97	6 4	97	97	6 4	97	97	5.8	97	97	5 8
External static	(mmH ₂ O)	15.3	7.1	2.5	15.3	7.1	2.5	19.4	5.1	2.0	19.4	5.1	2.0
pressure	(Pa)	150	7 0	2 5	150	70	25	190	5 0	20	190	5 0	20
Temperature exchange efficien	cy (%)	7 9	79	8 4	_	_	_	79	7 9	8 5	-	_	-
Enthalpy exchange	Heating	70	70	77	_	_	_	70	70	7.8	-	_	_
efficiency (%)	68	6 8	74.5	_	_	_	6 8	6 8	76	_	_	_	
Noise (dR) Measured at 1.5	31-32	28-30		31.5-32.5		23-24	32-33	27-29	21-22	33-34	28-30	21-22	
Air outlet	39-40	39-40 35-37 28-29 39.5-40.5 35.5-37.5 28-29 40-41 34-36 26-27 41-42 35-37 26-27											
Starting current	Under 1. 7A less												
Insulation resistance	10MΩ or more (500V megger)												
Dielectric strength		AC 1500V 1 minute											

MODEL						LGH-	50RX4-	E					
Heat exchange system		Air-to-	air tota	l heat e	xchange (:	sensible	heat +	latent hi	eat)excha	ange			
Heat exchange element	material	Partiti	on•spaci	ng plate	e-special	treated	paper						
Cladding		Galvani	zed stee	l sheet									
Heat insulating mater	ial	Self-ex	tinguish	ing uret	hane foar	וו							
Motor		Totally	enclose	d capaci	tor perma	anent sp	lit-phas	e indu	ction mo	tor.4 po	les, 2 uni	t s	
Blower		220mm d	ia. Cent	rifugal	fan								
Filter material		Non-woven fabrics filter(Gravitational method 82%)											
Operation enviroment	(Supply air)	-10℃ to	40℃,RH	80% or	less								
Operation and room a tempe	ir rature	air con	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Functions					ass vent			xtra hig					
Weight		33kg											
Power source		Single	phase 22	0-240V									
Frequency				50H	ł Z					60H	Ηz		
Ventilation mode		Lossna	y venti	lation	Bypas	s ventil	ation	Lossna	y venti	lation	Bypass	ventil	ation
Fan speed		Extra high	High	Low	Extra high	High	Low	Extra high	High	Low	Extra high	High	Low
Current	(A)	0.94-0.95	0.89-0.90	0.57-0.60	0.95-0.96	0.90-0.93	0.58-0.60	1.21-1.27	1.05-1.10	0.60-0.63	1.22-1.25	1.05-1.09	0.60-0.63
Power consumption	(W)	204-225	193-214	123-142	206-228	196-221	125-142	262-291	231-262	130-151	263-288		
Air volume	(m³/h)	500	500	350	500	500	350	500	500	300	500	500	300
HI Animic	(L/s)	139	139	97	139	139	97	139	139	8 3	139	139	8 3
External static	(mmH ₂ O)	15.3	6.1	3.1	15.3	6.1	3.1	20.4	6.1	2.0	20.4	6.1	2.0
pressure	(Pa)	150	60	30	150	60	30	200	60	20	200	60	20
Temperature exchange efficien	icy (%)	77	77	8 2	_	_	_	77	77	83.5	-	_	_
Enthalpy exchange	Heating	67.5	67.5	73.5	-	_	_	67.5	67.5	75.5	-	_	-
efficiency (%)	Cooling	64.5	64.5	71.5	_	_	_	64.5	64.5	73.5	-	-	_
	5m under the center of panel	3 3 - 3 4	29.5-31.5		34-35.5	31-33	24.5-25.5	33-35.5	28.5-31		34.5-36	30-32	23-24
Air outle	ts	41-42			42-43.5	39-41	30.5-31.5	41-43.5		29-30	42.5-44	38-40	29-30
Starting current	Under 1. 9A less Under 1. 8A less												
Insulation resistance	10MQ or more (500V megger)												
Dielectric strength	AC 1500V 1 minute												

MODEL LGH-65RX4-E												
Heat exchange system	Air-to-air	r total heat ex	(change (:	sensible	heat +	latent he	at) excha	ınge				
Heat exchange element materia	Partition ·	·spacing plate	-special	treated	paper							
Cladding	Galvanized	d steel sheet										
Heat insulating material	Self-extin	nguishing ureth	nane foar	n								
Motor	Totally en	nclosed capacit	tor perm	anent sp	lit-phase	e induo	ction mo	tor.4 po	les,2 uni	t s		
Blower		245mm dia. Centrifugal fan										
Filter material		Non-woven fabrics filter(Gravitational method 82%)										
Operation enviroment(Supply a		10℃,RH 80% or										
Operation and room air temperature	air condit Pre-Heat C	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Functions		entilation/Bypa	ass vent	ilation	High (E	xtra high	n)-Low si	vitching				
Weight	46kg											
Power source	Single pha	ase 220-240V										
Frequency		50						60Hz				
Ventilation mode		ventilation		s ventil	ation		y ventil	ation		s ventil	ation	
Fan speed			Extra high		Low	Extra high		Low	Extra high		Low	
Current (A)	1.40-1.40 1.3			1.30-1.30			1.50-1.60	0.90-1.00	1.80-1.80	1.50-1.60	0.90-1.00	
Power consumption (W)	295-325 27			275-305		380-430		<u> 195-230</u>				
Air volume (m³/h		650 500	650	650	500	650	650	4 4 0	650	650	4 4 0	
IL/S	101	181 139	181	181	139	181	181	1 2 2	181	181	122	
External static (mmH20		5.1 3.1	11.2	5.1	3.1	18.9	7.1	3.6	18.9	7.1	3.6	
pressure (Pa)	110	50 30	110	5 0	3 0	185	70	3 5	185	70	3 5	
Temperature exchange efficiency (%)	7.6	76 79		_	_	7.6	7 6	8 0	-	-	-	
Enthalpy exchange Heating	6.8	68 71.5	_	_	_	6 8	6 8	73.5	-	_	_	
efficiency (%) Cooling	64.5 6	64.5 69		_	-	64.5	64.5	71	-	_	-	
Noise (dB) Measured at 1.5m under the center of pan	1 34.5-35 32	2.5-33 27-28							36.5-37	33.5-34	27.5-28.5	
Air outlets	42.5-43 40		43.5-44	41.5-42	35.5-36.5	43.5-44			44.5-45	41.5-42	35.5-36.5	
Starting current		Under 2. 8A less Under 2. 6A less										
Insulation resistance	$10M\Omega$ or more (500V megger)											
Dielectric strength	AC 1500V 1 minute											

Heat exchange system	MODEL	LGH-80RX4-E										
Partition - spacing plate-special treated paper												
Cladding Galvanized steel sheet Self-extinguishing urethane foam Self-extinguishing urethane foam Totally enclosed capacitor permanent split-phase induction motor. 4 poles, 2 units Blower 245mm dia. Centrifugal fan Non-woven fabrics filter (Gravitational method 82%) Operation enviroment (Supply air) -100 to 400, RH 80% or less OA temperature shall be -150 to +400. Less than 80%RH, with general air conditioning unit. remperature Conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -150. Lossnay ventilation/Bypass ventilation High (Extra high) - Low switching High Conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -150. Frequency Soltz GOHz Single phase 220-240V Frequency Soltz Soltz GOHz Soltz GOHz Frequency Soltz GOHz Condition Bypass ventilation Bypass ventilation Bypass ventilation Bypass ventilation Condition Bypass ventilation Condition												
Heat insulating material Self-extinguishing urethane foam Totally enclosed capacitor permanent split-phase induction motor. 4 poles, 2 units												
Motor		3										
Street		-										
Non-woven fabrics filter(Gravitational method 82%)	Blower	1 1 1										
Operation and room air temperature Operation and room air temperature Operation and room air temperature Operation O	Filter material											
Operation and room air temperature OA temperature shall be -15℃ to +40℃, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit.	Operation environment (Supply air:	-10°C to 40°C, RH 80% or less										
Weight G1kg Single phase 220-240V Single phase 220-240V	Operation and room air temperature	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Power source Single phase 220-240V Sohz S												
Frequency SOHz Sonay Ventilation Bypass Ventilation Lossnay Ventilation Bypass Ventilation Passage Passage Passage Ventilation Bypass Ventilation Bypass Ventilation Bypass Ventilation Passage Passage Passage Passage Ventilation Bypass Ventilation Bypass Ventilation Passage Ventilati												
Ventilation mode Lossnay ventilation Bypass ventilation Lossnay ventilation Bypass ventilation Color Alicentalistic Color Color Alicentalistic Color Alicentalistic Color Bypass ventilation Bypass venti	,											
Fan speed												
Current (A) 1.70-1.70 1.60-1.60 1.40-1.40 1.70-1.70 1.60-1.60 1.40-1.40 2.10-2.20 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.90-2.00 1.50-1.60 2.10-2.10 1.50-1.60 2.10-2.10 1.50-1.60 2.10-2.10 1.50-1.60 2.10-2.10 1.50-1.60 2.10-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50-2.10 1.50	Ventilation mode											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Fan speed											
Air volume												
External static CmmH2O 14.3 10.2 7.1 14.3 10.2 7.1 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 8.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2 23.5 12.2												
External static response (Pa) 14.3 10.2 7.1 14.3 10.2 7.1 23.5 12.2 8.2 23.5 12.2 8.2 pressure (Pa) 140 100 70 140 100 70 230 120 80 230 120 80 respective exchange efficiency (%) 78 78 80.5 78 78 81 Finthalpy exchange Heating 71 71 73.5 71 71 74 Finthalpy exchange Heating 71 70.5 71 71 74 Refficiency (%) Cooling 67 67 70.5 67 67 71 Refficiency (Resourced at 1.5m under the respective feater (Ref) (Resourced at 1	I Alr valume											
pressure (Pa) 140 100 70 140 100 70 230 120 80 230 120 80 Temperature exchange efficiency (%) 78 78 80.5 - - - 78 81 - - - Enthalpy exchange efficiency (%) Heating 71 71 73.5 - - - 71 74 - - - efficiency (%) Cooling 67 67 70.5 - - - 67 67 71 - - - Noise (JD) Measured at 1.5m under the center the ce	(L/s)											
Temperature exchange efficiency (%) 78 78 80.5 - - - 78 78 81 - - - Enthalpy exchange efficiency (%) Heating 71 71 73.5 - - - 71 71 74 - - - efficiency (%) Cooling 67 67 70.5 - - - 67 67 71 - - - Noise (AD) Measured at 1.5m under the center of panel scenter of pane												
Enthalpy exchange Heating 71 71 73.5 - - -												
efficiency (%) Cooling 67 67 70.5 — — 67 67 71 — — — — — — — — — — — — — — — — — —												
Measured at 1.5m under the center of panel 33.5-34.5 32-33 30-31 34.5-35.5 33-34 30.5-31.5 35-36 31-32.5 29-30.5 36-37 32-33.5 29.5-31												
Noise (dB) Air outlets 44.5-45.5 A3-A4 A0-A1 A5-5-65 A4.5 A3-5 A5 A0-A5 A0-A5 A0-A7 A2-A3 539-A0. 5 A7-A8 A3-A4 53-A4.5 A3-A4 53-A5 A3-A4												
180 130 (180 180 180 180 180 180 180 180 180 180	Measured at 1.5m under the center of panel											
	Air outlets											
	Starting current	Under 3. 6A less Under 3. 3A less										
10/12 1 1000 1 1000 1	Insulation resistance											
Dielectric strength AC 1500V 1 minute	Dielectric strength	AC 1500V 1 minute										

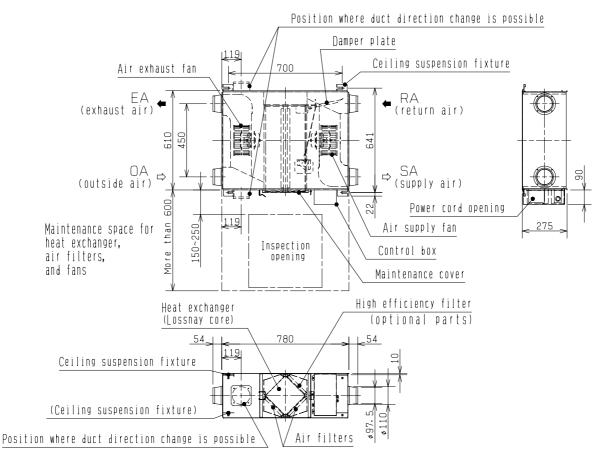
MODEL	LGH-100RX4-E											
Heat exchange system	Air-to-air total heat exchange(sensible heat + latent heat)exchange											
Heat exchange element material	Partition·spacing plate-special treated paper											
Cladding	Galvanized steel sheet											
Heat insulating material	Self-extinguishing urethane foam											
Motor	Totally enclosed capacitor permanent split-phase induction motor.4 poles,2 units											
Blower	245mm dia. Centrifugal fan											
Filter material	Non-woven fabrics filter(Gravitational method 82%)											
Operation enviroment(Supply ai												
Operation and room air temperature	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.											
Functions	Lossnay ventilation/Bypass ventilation High(Extra high)-Low switching											
Weight	9kg											
Power source	Single phase 220-240V											
Frequency	50Hz 60Hz											
Ventilation mode	Lossnay ventilation Bypass ventilation Lossnay ventilation Bypass ventilation											
Fan speed	Extra high High Low Extra high High Low Extra high High Low Extra high High Low											
Current (A)	2.10-2.10 2.00-2.00 1.70-1.70 2.10-2.10 2.00-2.00 1.70-1.70 2.80-2.90 2.60-2.70 2.00-2.10 2.80-2.90 2.60-2.70 2.00-2.10											
Power consumption (W)	455-490 440-475 365-400 455-490 440-475 365-400 615-680 565-635 420-485 615-680 565-635 425-490											
Air volume (m³/h)	1000 1000 070 1000 1000 070 1000 720 1000 100											
[L/S												
External static (mmH20												
pressure (Pa)	160 100 80 160 100 80 200 110 60 200 110 60											
Temperature exchange efficiency (%)												
Enthalpy exchange Heating												
efficiency (%) Cooling												
Noise (dB) Measured at 1.5m under the center of pane	et 36-37 34-35 31.5-32.5 37-38 35-36.5 33-34 36-38 34-36 30-32 37.5-39.5 35-37.5 31-33											
Alf outlets	47-48 45-46 41.5-42.5 48-49 46-47.5 43-44 47-49 45-47 40-42 48.5-50.5 46-48.5 41-43											
Starting current	Under 5. 4A less Under 4. 9A less											
Insulation resistance	$10M\Omega$ or more (500V megger)											
Dielectric strength	AC 1500V 1 minute											

MODEL		LGH-150RX4-E											
Heat exchange system		Air-to-a	air tota	l heat e	xchange (sensible	heat +	latent he	at) excha	ange			
Heat exchange element	material	Partitio	on•spaci	ng plate	e-special	treated	paper						
Cladding		Galvani	zed stee	l sheet									
Heat insulating mater	ial	Self-ex	tinguish	ing uret	hane foar	m							
Motor		Totally enclosed capacitor permanent split-phase induction motor.4 poles,4 units											
Blower		245mm dia. Centrifugal fan											
Filter material		Non-woven fabrics filter(Gravitational method 82%)											
Operation environment (Supply air)												
Operation and room a tempe	ir rature	air con	OA temperature shall be -15°C to +40°C, less than 80%RH, with general air conditioning room environment. Subject to outdoor air conditioning unit. Pre-Heat OA in the case of using Lossnay in the cold region less than -15°C.										
Functions			ventila	tion/Byp	ass vent	ilation	High (E	xtra hig	n)-Low si	witching			
Weight			124kg										
Power source		Single	phase 221										
Frequency)Hz)Hz		
Ventilation mode		Lossna	y venti	lation	Bypass	ventil	ation	Lossna	ıy venti	lation	Bypass	ventil	ation
Fan speed		Extra high		Low	Extra high		Low	Extra high			Extra high	High	Low
Current	(A)	3.30-3.30			3.20-3.20		2.60-2.60	4.20-4.40					
Power consumption	(W)	720-770		575-625			565-615		820-935			810-925	
Air volume	(m³/h)	1500	1500	1250	1500	1500	1250	1500	1500	1230	1500	1500	1230
,,,,	(L/s)	417	417	3 4 7	417	417	3 4 7	417	417	3 4 2	417	417	3 4 2
External static	(mmH20)	14.3	10.2	7.1	14.3	10.2	7.1	23.5	12.2	8.2	23.5	12.2	8.2
pressure	(Pa)	140	100	7.0	140	100	70	230	120	8 0	230	120	8 0
Temperature exchange efficien		79	7 9	81.5	_	_	_	79	7 9	81.5	-	_	-
Enthalpy exchange	Heating Cooling	72	7 2	74.5	_	_	_	7 2	7 2	74.5	-	-	_
efficiency (%)	6.8	6 8	7 2	_	_	_	6.8	6 8	7 2	-	_	-	
Noise (dR) Measured at 1.5m under the center of panel		36.5-37.5		32.5-33.5	39-40		34.5-36.5	37-38	35-36	33-34	39-41	36.5-38.5	33-35
Air outle	49-50	47-48	43.5-44.5	51.5-52.5	49-50	45.5-47.5	49.5-50.5	46.5-47.5	44-45	51.5-53.5	48-50	44-46	
Starting current	Under 7. 2A less Under 6. 6A less												
Insulation resistance	10Mℚ or more (500V megger)												
Dielectric strength		AC 1500V 1 minute											

MODEL		LGH-200RX4-E Air-to-air total heat exchange(sensible heat + latent heat)exchange												
Heat exchange system		Air-to-	air tota	l heat e	xchange (sensible	heat +	latent he	at) excha	ınge				
Heat exchange element	material	Partiti	on•spaci	ing plate	e-special	treated	paper							
Cladding		Galvani	zed stee	l sheet										
Heat insulating mater	ial	Self-ex	tinguish	ing uret	hane foa	m								
Motor		Totally	enclose	d capaci	tor perm	anent sp	lit-phas	e induo	ction mot	tor.4 po	les, 4 uni	t s		
Blower		245mm dia. Centrifugal fan												
Filter material		Non-woven fabrics filter(Gravitational method 82%)												
Operation enviroment	(Supply air)			80% or										
Operation and room a tempe	ir rature	air con Pre-Hea	ditionin t OA in	g room e the case	nvironme of usin	nt. Sub g Lossna	ject to o y in the	n 80%RH, outdoora cold reg	iir condi iion less	tioning than -1				
Functions			ventila	tion/Byp	ass vent	ilation	High (E	xtra high	n)-Low si	vitching				
Weight			140kg											
Power source		Single	phase 22											
Frequency				50						60				
Ventilation mode		Lossna	Lossnay ventilation Bypass ventilation Lossnay ventilation Bypass ventilation										ation	
Fan speed		Extra high		Low	Extra high	l	Low	Extra high		Low	Extra high		Low	
Current	(A)	1.00 1.00	4.20-4.20	3.50-3.50		4.20-4.20		5.80-5.90				5.30-5.50		
Power consumption	(W)		910-980	755-820		915-985		1265-1410	1155-1295	860-980	1260-1405		860-990	
Air volume	(m³/h)	2000	2000	1650	2000	2000	1650	2000	2000	1 4 4 0	2000	2000	1 4 4 0	
.,.	(L/s)	5 5 6	556	458	556	556	458	556	556	400	556	556	400	
External static	(MMH_2O)	15.3	9.2	6.6	15.3	9.2	6.6	19.4	10.2	6.1	19.4	10.2	6.1	
pressure	(Pa)	150	90	6.5	150	90	6 5	190	100	60	190	100	6 0	
Temperature exchange efficien		79	7 9	81.5	_	-	-	7 9	7 9	8 3	_	=	-	
Enthalpy exchange	Heating	71	7 1	7.5	_	_	-	71	71	77	_		-	
efficiency (%)	Cooling	67	67	71	-	-	-	67	67	73.5	-	-	-	
Noise (dR)	5m under the center of panel	39-40	37-38		39.5-41		36-37		36.5-38.5		39.5-42			
Air outle	ts		48.5-49.5	46-47	52-53.5	49.5-51	47-48	51-52-5		45-46	52-54.5	49-51.5	45.5-47	
Starting current		Under 10. 8A less Under 9. 8A less												
Insulation resistance	10MQ or more (500V megger)													
Dielectric strength		AC 1500V 1 minute												

2. Dimensions

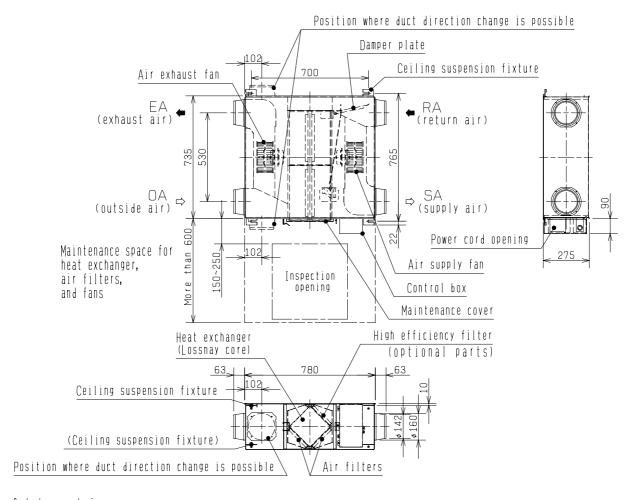
LGH-15RX₄-E



Attention

- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600 mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

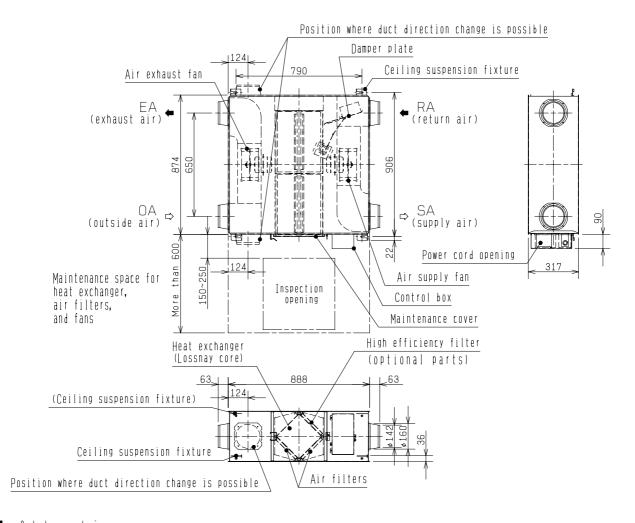
LGH-25RX4-E



Attention

- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

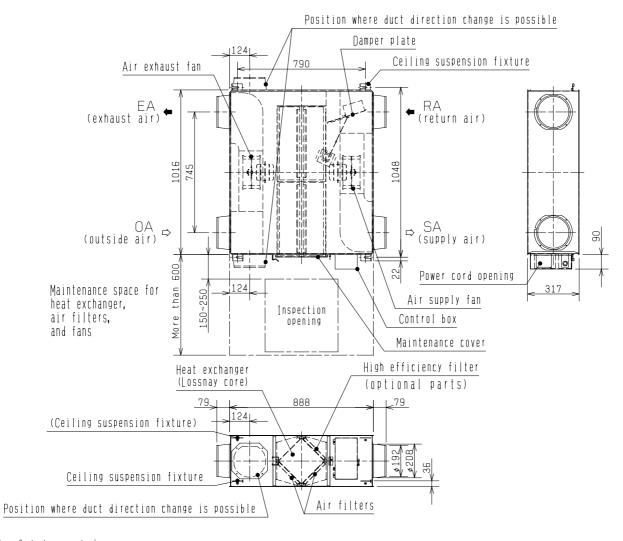
LGH-35RX4-E



Attention

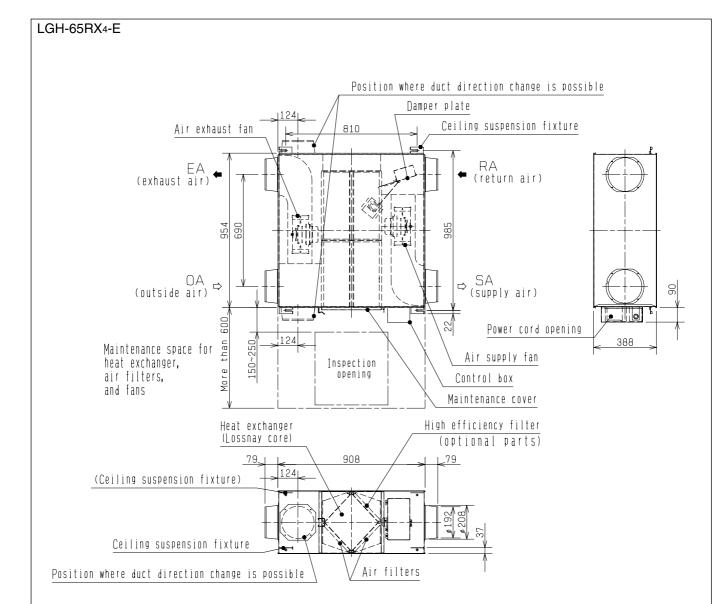
- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

LGH-50RX4-E



Attention

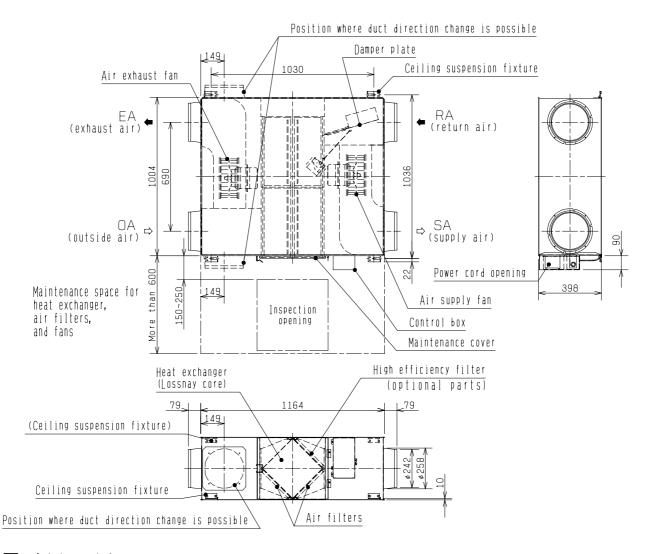
- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- \pm Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.



Attention

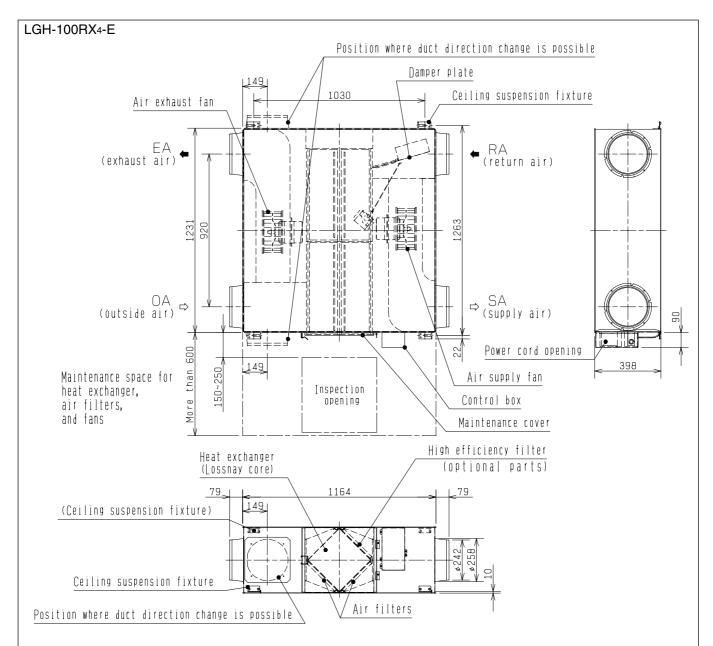
- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

LGH-80RX4-E



Attention

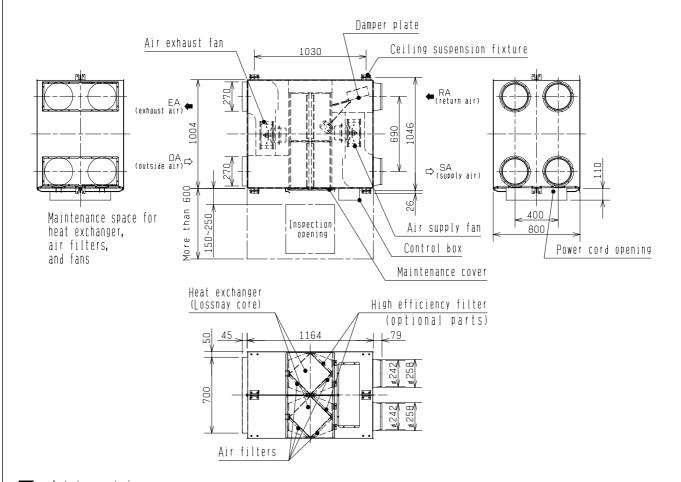
- 1. If condensation is expected to from heat up the fresh outside air using a duct heater etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.



Attention

- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

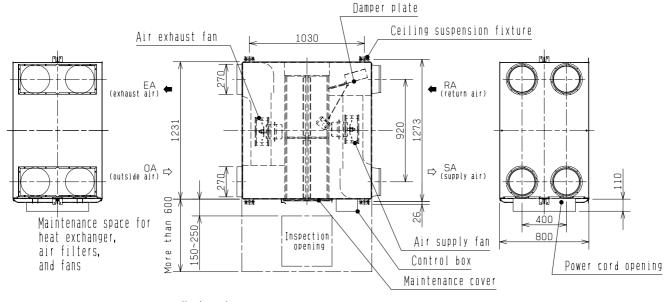
LGH-150RX4-E

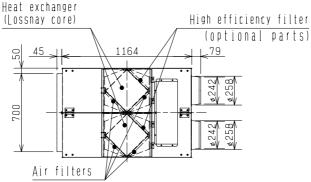


Attention

- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

LGH-200RX4-E

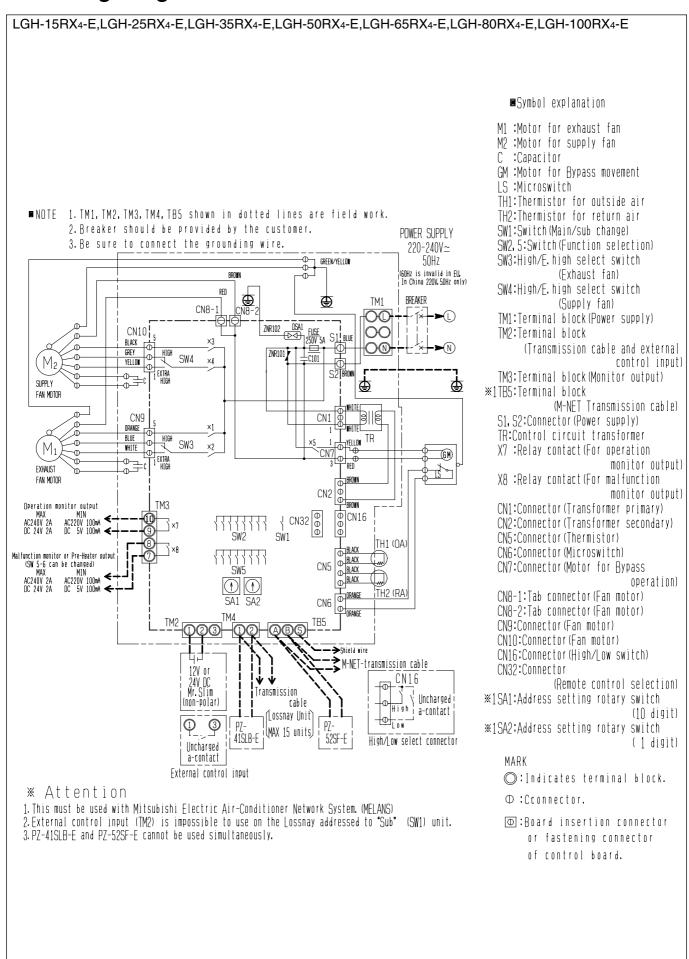


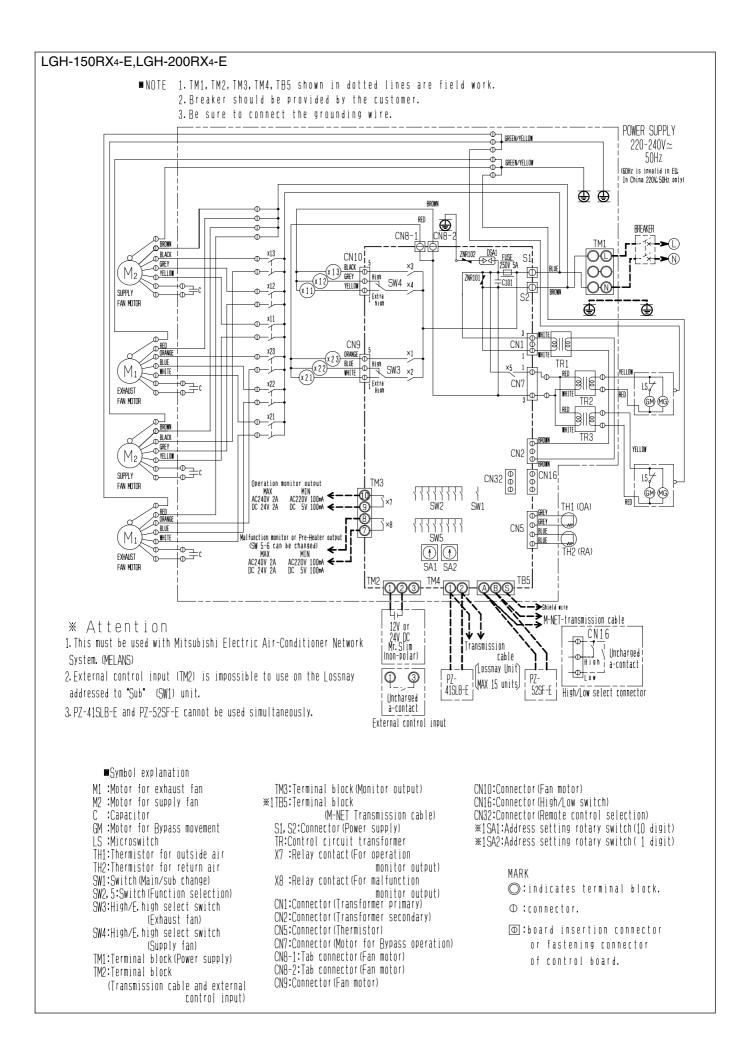


Attention

- 1. If condensation is expected to from, heat up the fresh outside air using a duct heater, etc.
- 2. An inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.
- 3. Provide heat insulation to prevent dew condensation along the two outside ducts. (outside air duct and exhaust air duct)
- 4. Do a measure for there not to be intrusion of rainwater.
- *Outside air duct and exhaust air duct put equal or more than 1/30 descent inclinations to the side of wall.
- *Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.
- 5. Be sure to connect the grounding wire.

3. Wiring diagrams





4. Troubleshooting

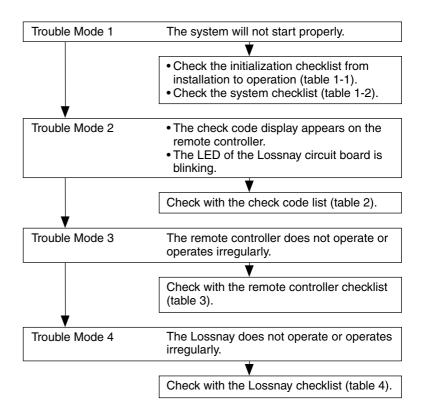
4-1 Service Flow

Confirmation items

- Condition of trouble remote controller display, etc.
- ② Frequency of trouble date of start of operation and occurrence
- ③ Occurrence timing
- 4 Existence of drawings, equipment (including controllers and equipment sold separately), cables, wiring, and settings.

Applicable models Lossnay LGH-15 to 200RX₄-E

Remote controller PZ-41SLB-E PZ-52SF-E



Precautions when diagnosing malfunctions

- When removing a transistor or printed circuit board, make sure the breaker is thrown.
- When removing the circuit board, always hold it at both ends and remove carefully so as not to apply force to the surface mounted parts.
- When removing the circuit board, be careful of the metal edges on the board.
- When removing or inserting the connectors for the circuit board, hold the entire housing section. Never pull on the lead wires.
- When servicing, be sure to recreate the malfunction 2 to 3 times before starting repairs.
- If a malfunction of the printed circuit board is suspected, check for disconnected wires in the print pattern, burnt parts or discoloration.
- If the printed circuit board is replaced, make sure that the switch settings on the new board are the same as the old board.

Error List

[_			Remote	LED 1	LED 2	Error	Ca	incellation	n measu	res
Classification	Error item	Measures taken by Lossnay	controller display error code	(green) Display (No. of blinks)	(red) Display (No. of blinks)	monitor output *4)	Reset power supply	Change address	Stop ↓ Start	Error delete
	Fan motor operation device error	Cancellation	4000/4116 *1)	2 times	_	0	0	0	_	0
	Damper motor error	Cancel damper operation Other controls as normal	3602 *2)	3 times	_	0	0	0	0	_
Unit error	OA temperature sensor error	 Lossnay ventilation fixed (for "Auto" modes) Other controls as normal 	5101	4 times	_	0	0		_	0
J.	RA temperature sensor error	 Lossnay ventilation fixed (for "Auto" modes) Other controls as normal 	5102	5 times	_	0	0		_	0
	Pre-heat error	The Pre-heat output (X8) turns OFF	3126	8 times	_	_	\circ	0	\circ	0
	Test operation	Fan: High speedLossnay ventilation fixed	0900		_	_		_	_	_
	Dual address	_	6600	_	6 times	0	0	0	\circ	_
	No ACK	_	6607	_	_	_	0	0	_	0
	No response	Ι	6608	l	_	_	0	0	_	0
cation error	Controller communication error	Cancellation	6607/6608		8 times	0	0	0	_	0
	Communication circuit error	_	6602/6603/ 6604	_	1 - 5 times	0	0	0		0
Communi	Local transmission cable communication error	Restricted to ON/OFF	6801 *3)	9 times	_	0	0	0	0	0
	Polarity not set	_	_	_	LED 6 turn off	_	0	0	_	0
	PZ-41SLB-E communica- tion error	Cancellation	6608	9 times	_	0	0	_	_	0

^{*1) &}quot;4000" is displayed on PZ-41SLB-E only.
*2) This error is not generated in the LGH-150RX₄, LGH-200RX₄ model.
*3) "6801" is displayed on the M-NET controllers only.
*4) Since the error monitor output will turn into the preheat output if SW5-6 is turned ON, it becomes impossible to use it.

4-2 Items to Check

(1)Trouble Mode 1: The system will not start properly.

Initialization checklist from installation to operation (Table 1-1)

After checking the system, check the points below up to operation.

No.	Checkpoint
1	Do the capacity of the main power supply on/off unit and wiring span meet specification?
2	Is the specified power supplied to the Lossnay power terminal (TM1)?
3	Is the wiring length of the transmission cable within specifications?
	When using PZ-41SLB-E: Overall extension within 500 m
	When using M-NET: Maximum power supply length within 200 m, maximum distance between ends within 500 m
4	Does the transmission cable meet regulations? (Type, diameter)
5	Is the transmission cable wired at least 5 cm away from the power supply cable?
6	Are multiple transmission or signal cables wired to the same power cable duct?
7	Are multiple transmission cables wired with multi core cables?
8	Is the transmission cable connected to the terminal unit?
	(PZ-41SLB-E to TM4 ①, ②; M-NET to TB5 ④, ⑧)
9	Is the transmission cable securely connected to the Lossnay terminal unit?
10	When not using M-NET
	If using 1 Lossnay unit, is the Main/Sub change switch (SW1) on the Lossnay circuit board set to "Main"?
	If using 2 or more Lossnay units, is the Main/Sub switch set to "Main" on only one unit, and the other units are set to "Sub"?
11	When using M-NET
	Is the address switch on the Lossnay circuit board (SA1, SA2) set to the correct number?
12	When using external control input
	Do the specifications of the external signal match specifications of signals that can be input to the Lossnay?
13	When the external input signal is a pulse signal
	Is the pulse input switch (SW2-2) on the Lossnay circuit board set to ON?
14	When the external signal is 12V DC, 24V DC, or Mr. Slim (A-control or K-control) signal
	Is it connected to ①, ② on the Lossnay external control input terminal unit (TM2)?
15	When the external signal is an uncharged a-contact signal
	Is it connected to ①, ③ on the Lossnay external control input terminal unit (TM2)?
16	When M-NET is not being used
	Is the external input signal connected to the Lossnay set to "Main"?
17	Is the signal cable length within wiring specifications?
	12V DC, 24V DC signal: Within limitation of the external device
	Uncharged a-contact signal: Within 500 m
10	Mr. Slim (A-control) signal: Within 500 m
18	Is the signal cable wired at least 5 cm away from the power supply cable?
19	Is the output capacity of the Lossnay operation monitor/malfunction monitor (pre-heat output) within specifications?
	Operation monitor output: Maximum 240V AC/24V DC 2A, minimum 220V AC/5V DC 100 mA Maifunction monitor output/pre-heat output:Maximum 240V AC/24V DC 2A, minimum 220V AC/5V DC100 mA
20	Are the power supply cable, transmission cable, signal cable, etc., securely connected to the proper terminals?
21	Are the settings for the Mai/Sub switch, address switch, and function select switch correct?
	The the settings for the manous switch, address switch, and function select switch confect?

No.	Checkpoint						
22	When pre-heat output output is used, turn the SW5-6 ON.						
	There is no method of turning ON the pre-heat output without changing OA temperature.						
	The first check of the installation						
	(1) Make the power supply of the heater turned off.						
	(2) Short-circuit the pre-heater output with a lead etc.						
	(3) Check weather the relay contact by the side of the heate rturns on.						
	The pre-heat output is never closed even if abnormalities, such as drawing out the OA/RA thermistor connector,						
	occur.						

System checklist

①Use this checklist when using a PZ-41SLB-E or an external device (Table 1-2-1)

No.	Symptom	Cause	Corrective action
1	Remote controller display does not	Power is not supplied to the Lossnay, or power outside specifications is connected.	Check the power supply to the Lossnay.
	appear.	When using only 1 Lossnay, the Main/Sub switch (SW1) on the Lossnay circuit board is set to "Sub."	Set the Main/Sub (SW1) switch to "Main."
		 The overall wiring length of the transmission cable is longer than specifications (longer than 500 m). 	Check the length of the transmission cable wiring.
		 The remote controller is connected to TB5 (M-NET transmission cable). 	○ Connect the transmission cable to TM4 ① ②.
		PZ-52SF-E is connected to the Lossnay local remote controller.	Change to the PZ-41SLB-E remote controller.
2	Remote controller does not operate (Communication error	When using multiple Lossnay units, the Main/Sub switch (SW1) on the Lossnay circuit board of the second or following unit is set to "Main."	 Set the Main/Sub switch (SW1) of the second and following Lossnay units to "Sub."
	display)	 The overall wiring length of the transmission cable is longer than specifications (longer than 500 m). 	Check the length of the trans- mission cable wiring.
		Multiple transmission cables are wired with multi core cables.	For the applied transmission cable, wire the transmission cables away from the other transmission cable.
3	Interlocked operation with external device does not occur.	 The type of external signal does not match the connected terminal unit (charged, uncharged, Mr. Slim signal). 	 Check the connection to the exter- nal control input terminal (TM2) for the type of external signal.
		 The type of external signal does not match the pulse input switch (SW2-2) setting (level signal, pulse signal). 	 Check the type of external signal and the setting of the pulse input switch (SW2-2).
		The external device signal is not being input.	Check the external device.
		The external device and signal cable wiring is longer than specifications	Check the length of the signal cable wiring.
		12V DC, 24V DC: Longer than limitations of external device Uncharged a-contact: Longer than 500 m Mr. Slim signal: Longer than 500 m	
		The Delayed Start mode is set at the remote controller (PZ-41SLB-E).	 Check the Delayed Start mode setting at the remote controller (PZ-41SLB-E).
		 The ON Interlocked Operation mode or OFF Interlocked Operation mode is set at the remote controller (PZ-41SLB-E). 	 Check the Interlocked Operation mode setting at the remote con- troller (PZ-41SLB-E).
		 When using multiple Lossnay units, the external control input signal is connected to a unit with the "Sub" setting made. 	Connect the external control input signal to the Lossnay unit set to "Main."

No.	Symptom	Cause	Corrective action
4	Pre-heat control does	○ SW5-6 is OFF.	○ Turn the SW5-6 ON.
	not work.	OA temprature is larger than -5°C.	Operate onry below -5°C.

②System checklist when using the M-NET (Table 1-2-2)

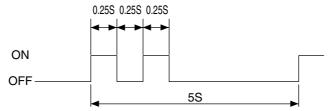
No.	Symptom	Cause	Corrective action
1	Does not interlock with City Multi. (The Lossnay cannot be operated by the ventilation switch on the ME remote controller, MA remote controller, or MELANS.)	 The Lossnay is not set for interlocked operation, or is set for interlocked operation at the wrong address. The length of the M-NET transmission cable wiring from the outdoor unit or the system's overall wiring length is longer than specifications. (Longer than 200 m from the outdoor unit, longer than 500 m between ends.) 	 Check the Lossnay address, and set for an address corresponding to interlocked operation. Check the length of the transmission cable wiring.
		PZ-41LSB-E is connected to the Lossnay local remote controller.	Change to the PZ-52SF-E remote controller (PZ-41SLB-E can not be used with the M-NET).
2	Cannot operate using the MELANS or Lossnay remote controller.	 The address that has been set for the group in MELANS and the address for the Lossnay are different. 	Check the registered address in MELANS.
		The length of the M-NET transmission cable wiring from the power supply unit or the sys- tem's overall wiring length is longer than speci- fications. (Longer than 200 m from the power supply unit, longer than 500 m between ends.)	Check the length of the trans- mission cable wiring.
		PZ-41LSB-E is connected to the Lossnay local remote controller.	Change to the PZ-52SF-E remote controller (PZ-41SLB-E can not be used with a M-NET system).
3	A unit should operate independently by MELANS or the Lossnay remote controller, but it interlocks with another City Multi unit.	It has been set for interlocked operation with the City Multi unit.	Cancel the interlocked operation setting.
4	Cannot perform group settings for the Lossnay using MELANS, ME remote controller, or MA remote controller. (The remote controller shows "88" at the time of regis- tration.)	 Power is not supplied to the Lossnay, or power outside specifications is connected. The M-NET transmission cable is connected to TM4 ① ②. The transmission cable is not properly connected to the MELANS or the City Multi. The length of the transmission cable wiring is longer than specifications (longer than maximum 200 m from the power supply unit, longer than 500 m between ends.) 	 Check the power for the Lossnay and perform the registration again. Connect the transmission cable to TB5 (A), (B). Check the transmission cable connection. Check the length of the transmission cable wiring.
5	When power is supplied to the system, the Lossnay remote controller continues to display "HO" and does not start. (Group registration information disappears.)	 The Group setting was made on a Lossnay remote controller in a system connected to a system controller. The length of the transmission cable wiring is longer than specifications (longer than maximum 200 m from the power supply unit, longer than 500 m between ends.) 	In a system connected to MELANS, make the group setting with the MELANS (Do not make the group setting with the Lossnay remote controller). Check the length of the transmission cable wiring.

No.	Symptom	Cause	Corrective action
6	When power is supplied to the system, the remote control display	Over the number of units that can be controlled with the Lossnay remote controller.	Check remote control unit number limitations when using a power supply unit.
	goes blank and the system does not start.	The length of the transmission cable wiring is longer than specifications (longer than maxi- mum 200 m from the power supply unit, longer than 500 m between ends.)	Check the length of the transmission cable wiring.
7	The power display " © " does not display when	When using City Multi and Lossnay interlocked system (connected to the indoor unit system)	
	power is supplied to the system.	The transmission cable is not correctly connected to the Lossnay remote controller.	Check the transmission cable connection.
		The power is not turned on for the outdoor unit.	Check the power to the outdoor unit.
		 The length of wiring for the outdoor unit's M- NET transmission cable is longer than specifi- cation (longer than 200 m). 	Check the length of the transmission cable wiring.
		② When using a Lossnay individual system or City Multi and Lossnay interlocked system con- nected to the central system.	
		 The power supply unit is not connected to the transmission cable. 	Connect to the power supply unit.
		 The power to the power supply unit is not turned on. 	Check the power to the power supply unit.
		The length of wiring of the M-NET transmission cable from the power supply unit is longer than specification (longer than 200 m).	Check the length of the transmission cable wiring.
8	The "HO" on the remote	O Lossnay is Not supplied with specified power.	Check the power to the Lossnay.
	controller continues to flash when the power is supplied to the system.	The address for the Lossnay remote controller does not have a group setting at the MELANS.	Check the Lossnay remote controller address registration with the MELANS ("HO displays for 3 – 10 minute when electricity is supplied to the system).
		○ The M-NET transmission cable is connected to TM2 ⑤ ⑥.	○ Connect the transmission cable to TB5 ♠, ℮.
		 For a Lossnay individual system with no MELANS, Lossnay registration has not been performed by the Lossnay remote controller. 	 Check the Lossnay registration with the Lossnay remote con- troller.
9	"LC 6608" displays on the remote controller and the Lossnay does not operate.	○ The remote controller is PZ-41LSB-E and connected to the TB5 (A), (B).	Change to the PZ-52SF-E remote controller (PZ-41SLB-E can not be used with a M-NET system).
10	The operation specified by the system controller differs from the operation of the Lossnay.	○ The remote controller is PZ-41SLB-E and connected to the TM4 ①-②.	Change to the PZ-52SF-E remote controller (PZ-41SLB-E can not be used with a M-NET system).

(2)Trouble Mode 2

- •An error code displays on the remote controller.
- ●Lossnay circuit board LED is flashing or lit up.

An error code displayed on the remote controller (PZ-41SLB-E, PZ-52SF-E) or the M-NET controller and blinking or illumination of LED1 (green) or LED2 (red) on the circuit board shows the type of error. The LED blink interval is 0.25 seconds for both on and off. The display duration is approximately 5 seconds.



Error display example: Fan motor operation device error

①Checklist of error codes displayed on the PZ-41SLB-E and LED displays(Table2-1)

Error code *1	LED1 (green)	LED 2 (red)	Symptom	Cause	Corrective action
LC 6608	_	_	Lossnay communi- cation error	When using multiple Lossnay units, the main/sub setting has not been made for the second unit and following units.	Turn off the main power supply and set the Main/Sub switch (SW1) (first unit to main, second and following units to sub).
			enoi	 Multiple transmission cables have been wired using multi core wires. 	 Wire the transmission cable away from the other transmission cable.
				 Transmission cable and power cable are too close. 	Wire the transmission cable at least 5 cm away from the power supply cable.
				 Transmission cable is not securely connected. 	Check the transmission cable connection.
				 The length of wiring of the transmis- sion cable is longer than specifica- tion (longer than 500 m). 	Check the length of the transmission cable wiring.
RC6608 SRC 6608	_	_	Communica tion error	Multiple transmission cables have been wired using multi core wires.	 Wire the transmission cable away from the other transmission cable.
			between remote con-	 Transmission cable and power sup- ply cable are too close. 	 Wire the transmission cable at least 5 cm away from the power supply cable.
			trollers (when 2 remote con-	 Transmission cable is not securely connected. 	Check the transmission cable connection.
			trollers are connected)	 The length of wiring of the transmis- sion cable is longer than specifica- tion (longer than 500 m). 	Check the length of the transmission cable wiring.
LC 0900 SLC 0900	_	_	Lossnay trial opera- tion	 Trial operation switch on the Lossnay circuit board (SW 2-1 or SW 2-3) is set to ON board. 	Check the test operation switch.
LC 4000 SLC 4000	2 blinks	_	Fan motor operation device error	C Lossnay fan will not stop.	Replace the table.
LC 3602 SLC 3602	3 blinks	_	Damper related	On Damper board operation is not correct.	Remove the load and check or move the damper board by hand.
			error	 Connectors for the damper unit are not correctly connected. 	Check the connection of the lead wire's connectors and the circuit connector.
LC 5101 SLC 5101	4 blinks	_	OA thermis- tor related error	Connectors for the thermistor are not correctly connected.	Check the connection of the lead wires connectors and the circuit connector.
LC 5102 SLC 5102	5 blinks	_	RA thermis- tor related error	Connectors for the thermistor are not correctly connected.	Check the connection of the lead wires connectors and the circuit connector.

Error code *1	LED1 (green)	LED 2 (red)	Symptom	Cause	Corrective action
*2	8 blinks		Pre-heat error	 In order that the OA temperature might not rise up, intermittent opera- tion started. 	Check whether the heater power is supplied. Check whether the wiring is correct. If not above-mentioned, the heater capacity is too small. The heater capacity needs to be looked again.
				After turnig ON the pre-heat output (X8), when the OA temperature becomes larger than 15°C within 15 minutes.	 Since the heater capacity is too large, the OA temperature rises up too much. The heater capacity needs to be looked again.
				SW5-6 ON without preheating installation	Turn SW5-6 OFF, when no preheating installation.
	9 blinks		Remote controller communi- cation error	 Multiple transmission cables have been wired using multi core wires. Transmission cable and power supply cable are too close. Transmission cable is not securely connected. The length of wiring of the transmission cable is longer than specification (longer than 500 m). 	 Wire the transmission cable away from the other transmission cable. Wire the transmission cable at least 5 cm away from the power supply cable. Check the transmission cable connection. Check the length of the transmission cable wiring.
"Filter" blink- ing	_	_	Warning to clean air filter by comulative operation time	O Interval for cleaning Lossnay air filter has elapsed.	After cleaning the air filter press the "Filter" button on the remote controller 2 times.
"HO" blinking	blink- ing	_	System is starting	LED1 blinks at 1 second intervals during starting operation (maximum of 45 seconds.)	There is no error.

^{*1} LC: Lossnay set to Main SLC: Lossnay set to Sub RC, SRC: remote controller (PZ-41SLB-E)
*2 The errror message is NOT displayed for the PZ-41SLB-E Lossnay remote controller.

②Checklist of error codes displayed on the PZ-52SF-E, M-NET controllers, and LED displays(Table2-2)

Error code *1	LED1 (green)	LED 2 (red)	Symptom	Cause	Corrective action
6600	_	6 blinks	Multiple address error	There is another unit with the same address setting.	Check the addresses of devices in the system.
6607 6608	_	8 blinks	No ACK error No answer error (M- NET communication error)	 Power supply to Lossnay is not turned on. Lossnay address was changed. Multiple transmission cables have been wired using multi core wires. Transmission cable is not securely connected. The length of wiring of the transmission cable is longer than specifications (longer than maximum 200 m from the power supply unit, longer than 500 m between ends). 	 Check the power to the Lossnay. Check the Lossnay address. Wire the transmission cable away from the other transmission cable. Check the transmission cable connection. Check the length of the transmission cable wiring.
0900		_	Lossnay trial opera- tion	 Trial operation switch on the Lossnay circuit board (SW 2-1 or SW 2-3) is set to ON. 	Check the trial operation switch.
4116	2 blinks	_	Fan motor operation device error	C Lossnay fan will not stop.	Replace the table.
3602	3 blinks	_	Damper related error	 Damper board operation is not correct. Connectors for the damper unit are not correctly connected. 	Remove the load and check or move the damper board by hand. Check the connection of the lead wires connectors and the circuit connector.

Error code *1	LED1 (green)	LED 2 (red)	Symptom	Cause	Corrective action
5101	4 blinks	_	OA thermistor related error	 Connectors for the thermistor are not correctly connected. 	Check the connection of the lead wires connectors and the circuit connector.
5102	5 blinks	_	RA thermis- tor related error	 Connectors for the thermistor are not correctly connected. 	 Check the connection of the lead wires connectors and the circuit connector.
3126	8 blinks		Pre-heat error	 In order that the OA temperature might not rise up, intermittent opera- tion started. 	Check whether the heater power is supplied. Check whether the wiring is correct. If not above-mentioned, the heater capacity is too small. The heater capacity needs too be looked again.
				After turnig ON the pre-heat output (X8), when the temprature become larger than 15°C within 15 minutes.	 Since the heater capacity is too large, the OA temperature rises up too much. The heater capacity needs to be looked again.
				 SW5-6 ON without preheating installation 	Turn SW5-6 OFF, when no preheating installation.
6602 6603 6604	_	1 - 5 blinks	Communic ation circuit section error	Error with transmission cable.Controller where error originally occurred is defective.	Check transmission cable relations.Check the controller where the error occurred.
			error	Lossnay board is defective.	Replace the circuit board.
	_	Lit	No M-NET connection information	 Lossnay does not have Group set- ting (registration) made. 	 Check the Lossnay address and confirm that the group setting is made.
Filter blinking	_	_	Warning to clean air filter by comulative operation time	 Interval for cleaning Lossnay air filter has elapsed. 	After cleaning the air filter press the "Filter" button on the remote controller 2 times.
	Lit	_	In delayed start oper- ation	 Delayed start operation is set at the function select switch (SW 5-1) on the Lossnay circuit board. 	○ There is no error.
	LED6	(red)	No power to M-NET transmis-	Power supply is not supplied to the M-NET transmission cable.	 Check the connection of the power supply unit, outdoor unit and trans- mission cable.
	"I O" +		sion cable	 Wiring length of the transmission cable is from the power supply unit or the outdoor unit is longer than specification (maximum extension 200 m). 	Check the length of the transmission cable wiring.

^{*1} The letters "LC" that display with the error code show a Lossnay unit type, and the number in the third column shows the address.

(3) Trouble Mode 3: The remote controller does not operate or operates irregularly.

①Checklist for when using the PZ-41SLB-E (Table 3-1)

No.	Symptom	Cause	Corrective action
1	Nothing displays on the LCD.	Transmission cable is connected to the wrong terminal	Check the transmission cable connection (connected to TM4 on the Lossnay board).
		O No Lossnay is set to "Main."	 Turn off the main power supply and set the Main/Sub switch (SW1) (first unit to main, second and following units to sub).
		O Power supply to the Lossnay is not turned on.	Check the power supply to the Lossnay.
		 Lossnay is connected to a power supply with a rating outside specification. 	○ Check the power supply.
		Transmission cable is not securely connected.	Check the transmission cable connection.
		 The length of wiring of the transmission cable is longer than specification (longer than 500 m). 	Check the length of the transmission cable wiring.
2	Starts or stops, or the display changes, by	Multiple transmission cables have been wired using multi core wires.	 Wire the transmission cable away from the other transmission cable.
	itself.	 Transmission cable and power supply cable are too close. 	Wire the transmission cable at least 5 cm away from the power supply cable.
3	Displays a error code	O Letters on the remote controller LCD are dim.	Replace the remote control.
	that is not in the check list.	 The release of the Delay Start button or the Filter Reset button is not good. 	Replace the remote control.
4	Cannot stop the Lossnay with the remote controller (display shows "Interlocked").	External priority ON/OFF setting is made.	Check the interlocked operation mode setting.
5	Cannot switch fan speed with the remote con-	○ High/Low change input (CN16) is ON.	Check the High/Low change input (CN16).
	troller.	The function select switch (SW2-4.5) on the Lossnay circuit has the fixed high or fixed low speed set.	Check the function select switch (SW 2-4.5)
6	Lossnay operates when the main power supply turns on and the remote controller displays.	Main power supply was cut during Lossnay operation.	 Stop the Lossnay with the remote controller, then wait at least 10 second and turn off the main power supply.

②Checklist for when using PZ-52SF-E (Table 3-2)

No.	Symptom	Cause	Corrective action
1	Nothing displays on the LCD.	Transmission cable is connected to the wrong terminal	Check the transmission cable connection (connected to (A), (B) of terminal unit TB5 on the Lossnay board).
		There is no power supply unit (for Lossnay only systems).	Install the power supply unit.
		The power supply unit is not turned on.	Check the power to the power supply unit.
		Transmission cable is not securely connected.	Check the transmission cable connection.
		 Wiring length of the transmission cable is from the power supply unit or the outdoor unit is longer than specifications (maximum extension 200 m). 	Check the length of the transmission cable wiring.

No.	Symptom	Cause	Corrective action
2	Displays "HO" and does not start.	It is less than 10 minutes since the power was supplied to the system.	After supplying power to the system, HO blinks for a maximum of about 10 minutes. (This is not an error.)
		Group setting (registration) has not been made.	Make the group setting (registration). If using a system with a system controller, register at the system controller. If there is only the Lossnay remote controller, register at the remote controller.
		Remote control address has not been registered in the group setting by the system controller.	Check the group setting at the MELANS.
		O Power supply to the Lossnay is not turned on.	Check the power supply to the Lossnay.
		Lossnay is connected to a power supply with a rating outside specification.	Check the power supply.
		Lossnay transmission cable connection terminal is wrong.	Check the transmission cable connection (connected to (A),(B) of terminal unit TB5 on the Lossnay board).
		C Lossnay address was changed.	Check the Lossnay address.
		Lossnay board was changed.	If the board has been replaced, reset the group settings.
		The length of wiring of the transmission cable is longer than specifications (longer than maximum 200 m from the power supply unit, longer than 500 m between ends).	Check the length of the transmission cable wiring.
3	Cannot register the Lossnay from the remote	O Power supply to the Lossnay is not turned on.	Check the power supply to the Lossnay.
	controller or the controller.	Lossnay is connected to a power supply with a rating outside specification.	Check the power supply.
		Transmission cable to the Lossnay is not connected.	Check the transmission cable connection.
		Lossnay transmission cable connection terminal is wrong.	Check the transmission cable connection (connected to (A), (B) of terminal unit TB5 on the Lossnay table).
		Lossnay address is wrong.	Check the Lossnay address.
		The length of wiring of the transmission cable is longer than specifications (longer than maximum 200 m from the power supply unit, longer than 500 m between ends).	Check the length of the transmission cable wiring.
4	Starts or stops, or the display changes, by itself.	Set for interlocked operation with City Multi.	Cancel interlocked operation setting.
5	Displays a error code that is not in the checklist.	O Letters on the remote controller LCD are dim.	Replace the remote controller.
6	Cannot stop the Lossnay with the remote controller	"Cancel Operation" setting is made from the MELANS.	Check the settings of the MELANS.
	(display shows "Central").	External priority ON/OFF setting is made.	Check the interlocked operation mode setting.
		Remote/nearby switch input (CN32) is set to "Remote."	Check the remote/nearby change input (CN32).

(4) Trouble Mode 4: The Lossnay does not operate or operates irregularly.

①Lossnay checklist (Table 4).

No.	Symptom	Cause	Corrective action			
1	The fan does not operate. The fan does not operate normally.	 Connectors for the fan connection or connectors for the control circuit section connection are not secure. Power supply is not supplied to the Lossnay, or power outside specifications is connected. Lossnay group setting is not made by using the 	 Check the lead wire connectors and the control circuit section connectors. Check the power supply. Check the Lossnay address and 			
		M-NET. (LED2 lights)	the group setting (LED2 lights when not using M-NET. This is no error.)			
2	Interlocked operation with external device (air conditioner) does not occur.	 The type of external signal does not match the connected terminal unit (charged, uncharged, Mr. Slim signal). 	Check the external signal type and the external control input terminal (TM2) connection.			
		 The type of external signal does not match the pulse input switch (SW2-2) setting (level sig- nal, pulse signal). 	 Check the external signal type and the pulse input switch (SW2-2) setting. 			
		The external device signal is not being input.	Check the external device.			
		The external device and signal cable wiring is longer than specifications	Check the wiring length of the signal cable.			
		(12V DC, 24V DC: Longer than limitations of external device Uncharged a-contact: Longer than 500 m Mr. Slim signal: Longer than 500 m)				
		The Delayed Start mode is set at the remote controller (PZ-41SLB-E) or the function select switch (SW 5-1) on the Lossnay circuit board.	 Check the delayed start settings of the remote controller (PZ41SLB-E) and the function select switch (SW5-1). 			
		Check the interlocked operation mode settings of the remote controller (PZ41SLB-E) and the function select switch (SW5-7, 8)				
		 When using multiple Lossnay units, the exter- nal control input signal is connected to a unit with the "Sub" setting made. 	Connect the external control input signal to the Lossnay set to "Main."			
		 Connect the external control input signal to the Lossnay in the group with the lowest address. 				
		There is a communication error with the remote controller or controller.	Check the remote controller or controller.			
3	Fan will not stop.	○ The trial operation switch (SW 2-1) is ON.	Check the test operation switch (SW2-1).			
4	Lossnay operates when main power is turned on.	○ The PZ-41SLB-E is being used.	When the main power supply is turned off while the Lossnay is operating from the remote controller, the Lossnay will resume operation when the main power is turned back on (this is no error).			
		 By using the M-NET, the power supply ON/OFF setting is set to ON at the function select switch (SW 2-6) on the Lossnay circuit board. 	 Check the power supply ON/OFF setting of the function select switch (SW2-6). 			
		 By using the M-NET, the automatic recovery following power supply interruption (refer to page 61) setting is made at the function select switch (SW 5-4) on the Lossnay circuit board. 	 Check the automatic recovery fol- lowing power supply interruption setting of the function select switch (SW5-4). 			

No.	Symptom	Cause	Corrective action			
5	Supply air fan periodically stops operating.	 When the outdoor air temperature is -10°C or less, operation stops after a fixed period of about 10 minutes to keep the Lossnay Core from freezing. (Cold weather area spec) When connected to a Mr. Slim or a City Multi by a duct, operation stops when the air conditioner is defrosting. 	This is no error.This is no error.			
6	Takes in air from out- doors during interlocked operation with a Mr. Slim or a City Multi, but supply air fan doesn't stop oper- ating when defrosting.	The indoor unit's outside air intake selection is invalid.	Set the outdoor air intake selection of a indoor unit to "ON."			
7	The supply air fan and exhaust fan both periodically stop operating.	When connected to Mr. Slim or City Multi by a duct and the function select switch (SW 5-3) on the Lossnay circuit board is ON, operation stops when the air conditioner is defrosting.	Check the function select switch (SW5-3).			
8	Fan speed will not change.	 The High/Low switching extermary input (CN16) is set to ON. The function select switch (SW2-4.5) on the Lossnay circuit board is set to the high fixed or low fixed fan speed. 	Check the High/Low change input (CN16).Check the function select switch (SW2-4,5).			
		The trial operation switch (SW2-1) is turned ON.	Check the trial operation switch (SW2-1).			
9	Damper board does not operate.	 The outside air temperature is less than 8°C. The damper board operation is defective. 	Check the outdoor air temperature. Remove the load and check or move the damper board by hand.			
		The thermistor related connectors are not securely connected.	Check the connections of the lead wire connectors and the circuit connectors.			
		The damper related connectors are not securely connected.	Check the connections of the lead wire connectors and the control circuit connectors.			
		The trial operation switch (SW2-1 or SW2-3) is turned ON.	Check the trial operation switch (SW2-1 or SW2-3).			
		 When using the remote controller to change ventilation mode, there may be a delayed start of up to 30 seconds depending on the timing. 	○ This is no error.			
10	Operation monitor output is late with regard to external control input ON/OFF.	 When using the PZ-41SLB-E there is a maximum delay of 7 seconds, or without using there is a maximum delay of 3 seconds. 	○ This is no error.			
11	Operation monitor output is OFF during operation.	When the function select switch (SW 5-2) on the Lossnay circuit board is ON, for operation monitor output for interlocked operation with the supply air fan, it turns OFF when the out- side air is -10°C or less or when the air condi- tioner is defrosting.	Check the function select switch (SW5-2)			
12	Delayed start operation does not work when Delayed start is set.	When using the PZ-41SLB-E, the circuit function select switch is set for delayed start.	Set delayed start at the remote controller (the circuit board switch is not in effect when using the PZ-41SLB-E).			
13	Lossnay does not operate when power is on even when the power on/off setting is made.	○ Using the PZ-41SLB-E.	The power supply ON/OFF setting is not in effect when using PZ-41SLB-E.			
14	Interlocked operation is different from the settings.	 When using the PZ-41SLB-E, the circuit function select switch is set for interlocked operation. 	Set interlocked operation at the remote controller (the circuit board switch is not in effect when using the PZ-41SLB-E).			

②Temperature vs. themistor resistance table

Temperature (°C)	Resistance value ($k\Omega$)	Temperature (°C)	Resistance value ($k\Omega$)	Temperature (°C)	Resistance value ($k\Omega$)	Temperature (°C)	Resistance value ($k\Omega$)	Temperature (°C)	Resistance value ($k\Omega$)
-40	88.85 - ∞	-7	17.92	8	9.57	23	5.38	38	3.17
:	:	-6	17.16	9	9.20	24	5.19	39	3.06
-20	32.43	-5	16.43	10	8.84	25	5.00	40	2.96
-19	30.92	-4	15.74	11	8.49	26	4.82	41	2.86
-18	29.50	-3	15.08	12	8.17	27	4.65	42	2.77
-17	28.14	-2	14.45	13	7.85	28	4.49	43	2.68
-16	26.87	-1	13.86	14	7.55	29	4.33	44	2.59
-15	25.65	0	13.29	15	7.27	30	4.18	45	2.51
-14	24.51	1	12.74	16	6.99	31	4.03	46	2.43
-13	23.42	2	12.22	17	6.73	32	3.89	47	2.35
-12	22.39	3	11.72	18	6.48	33	3.76	48	2.28
-11	21.41	4	11.25	19	6.24	34	3.63	49	2.21
-10	20.48	5	10.80	20	6.01	35	3.51	50	2.14
-9	19.58	6	10.37	21	5.79	36	3.39	:	:
-8	18.73	7	9.96	22	5.58	37	3.28	87.5 -	0.72 - 0

4-3 Circuit Test Point

LED1 (green)

- When blinking, there is an error with the Lossnay unit (number of blinks indicates the type of error).
- Blinks at 1 second intervals when starting.
- Lit during delayed start, normally off at other times. Exhaust fan operation unit (combined) Exhaust fan operation unit 220 V to 240 V AC: up to 50 Hz 220 V AC: up to 60 Hz Supply fan operation unit Extra High Low Supply fan operation unit (combined) 220 V to 240 V AC: up to 50 Hz high 220 V AC: up to 60 Hz Power supply 220 V to 240 V AC: up to 50 Hz Extra High Low 220 V AC: up to 60 Hz high (60 Hz is not used in EU) CND SHIHIL HIGH YOUTAGE SHIHIL Fuse (6.3 A/250 V) 電洋湯 髰 Transformer input |特H0IH-V| Damper motor operation unit 220 V - 240 V AC JSW3 ZNR101 5 V DC DSA1 🛡 12 V DC ХЗ Transformer output 11 V to 20 V AC GND 10001 LED4 (red) 1070 lit when power is supplied to circuit Thermistor (outdoor air) Thermistor (return air) During operation: 0Ω Damper position detector When σ stopped: OPEN during Lossnay ventilation: 12 V DC α During error/pre-· during by-pass heat: 0Ω ventilation: 0 V Normal: OPEN In the case of LGH-150RX4-E and LGH-**TB5** 200RX₄-E, CN6 is unconnected. iTM4 伝送線 2 A M-NET 1 2 3 4 5 TM2 外部制御入力 (EXT.) For external device connection M-NET transmission cable (shielded) M-NET transmission cable (PZ-52SF-E, MELANS, power supply unit Remote control switch (PZ-41SLB-E) and or City Multi) Lossnay spanning transmission cable 9 V to 15 V DC LED2 (red)
 - Blinking indicates M-NET communication error (number of blinks indicated the type of error).
 - Lit when not connected to other M-NET units (registered).

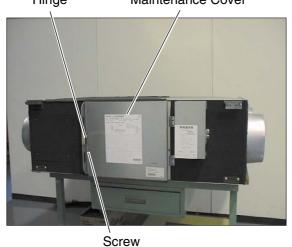
5. Overhaul procedures

5-1 Blower Parts

- ①Remove the cover fixing screw.
- ②Pull back the hinged clip.

Open the door and lift off of the hinge brackets.

LGH-15RX4-E~LGH-100RX4-E Hinge Maintenance Cover



LGH-150RX4-E,LGH-200RX4-E
Hinge Maintenance Cover

Screw

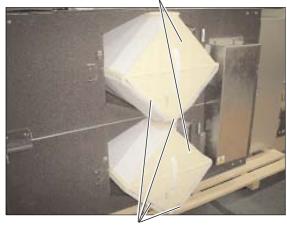
- ③Remove Filters from the unit.
- 4 Remove Cores from the unit.

LGH-15RX4-E~LGH-100RX4-E Core



Filter

LGH-150RX4-E,LGH-200RX4-E Core



Filter

⑤Remove screw from the core-guide, Remove core-guide.



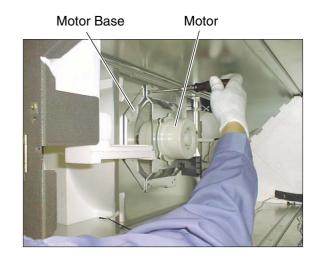
Core Guide

®Remove separator from the blower portion.



Separator

?Remove screws from the motor base.



®Remove the pre-assembled blower.

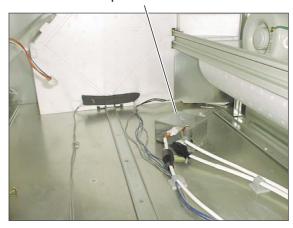


Pre-assembled Blower

5-2 Damper Movement Motor Part (All units available)

①Remove (2) screws out from the damper motor cover.

Damper Motor Cover



②Take the damper movement motor out of the cover.



Damper Movement Motor

5-3 Circuit Board Part (1)LGH-15RX4-E~LGH-100RX4-E

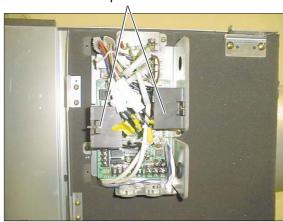
①Remove (3) screws from the control cover and open the control cover.



Control Cover

②Remove (2) screws from capacitors.

Capacitors



③Remove all harnesses connected to the circuit board.



4) Take the circiuit board out.



Circuit Board

(2)LGH-150RX4-E,LGH-200RX4-E

①Remove (2) screws from the control cover and open the control cover.



- ②Remove all harnesses connected to the circuit board.
- ③Take the circuit board out.



6. Parts list

Please note the following when using the parts list.

- 1. When ordering parts, always indicate the part number, part name, and number of parts required.
- 2. Parts are not always available, and it may take time for you to receive them.
- 3. There may be specification improvements or prices changes.
- 4. Specifications and prices are as of March 2005.
- 5. Parts marked \triangle are critical for safety. To maintain safety and performance, always replace these parts with the parts prescribed.
- 6. The numbers that are circled in the exploded view are the same as the reference number for the part being indicated.

Description of screw abbreviations



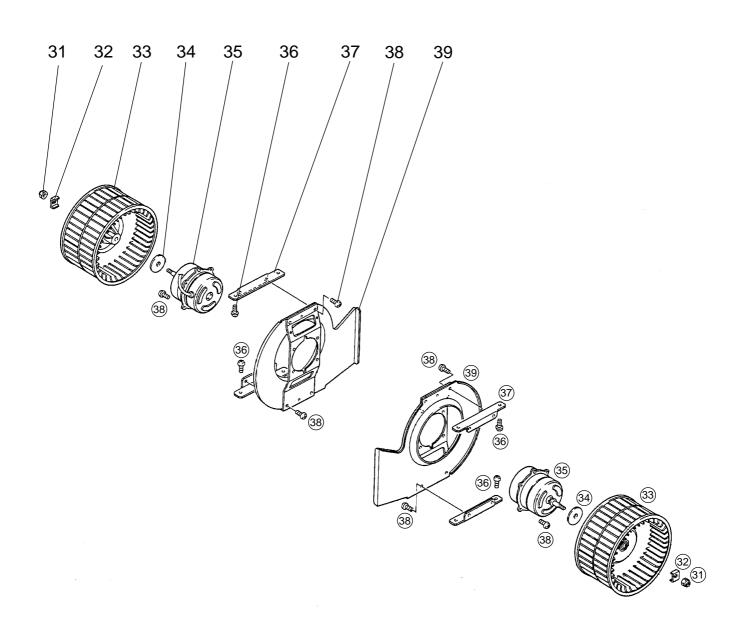
Abbreviation	Description
PC screw	Cross recess flat head machine screw
PRC screw	Cross recess oval head machine screw
PP screw	Cross recess pan head machine screw
SW · PP screw	Cross recess pan head screw with spring washer
PPT screw	Cross recess tapping screw
PCT screw	Cross recess flat head tapping screw
PTT screw	Cross recess truss head tapping screw
PT screw	Cross recess truss head machine screw
SET screw	Slotted head stop screw
SQ · SET screw	Square head stop screw
P · SET screw	Pan head stop screw
PMT screw	Primer truss head screw
HS · SET screw	Hexagon head stop screw
P · R · W screw	Cross recess round wood screw
P · C · W screw	Cross recess flat head wood screw
P · R · C · W screw	Cross recess round and flat wood screw
R · W screw	Slotted round wood screw
PW · PP screw	Cross recess pan head screw with small washer
SW-PW · PP screw	Cross recess pan head machine screw with spring washer and flat washer

Model LGH-15RX4-E

	Model	LGH-19F	₹X4 ⁻ E						
No.	Parts N	No. N	Name of part		Q'ty pcs/unit		ical afety	Remarks	Price
1.			screw 4×8		18				
2.	K82 163 (_		2				
3.	R50 476				4				
4.			screw 5×10		4				
5.			ntenance cov	er	1				
6.	R50 395				1				
7.	Y50 061				2		7		
8.	R50 476		snay core		1	Δ	<u>V</u>		
9.	R50 476				1				
10.	R50 384				2				
11.	R50 466			V 11	1				
12. 13.	M34 074 (cial screw 4	^11	1				
13. 14.	Y50 029 '		ger cover		1 4				
1 4 . 15.	R50 361		ger cover nd absorbing	mataria1	1	/	<i>y</i>	SA	
16.	R50 384 (material	2	_	_	Sh	
			O	2			4		
		de							3
		7							

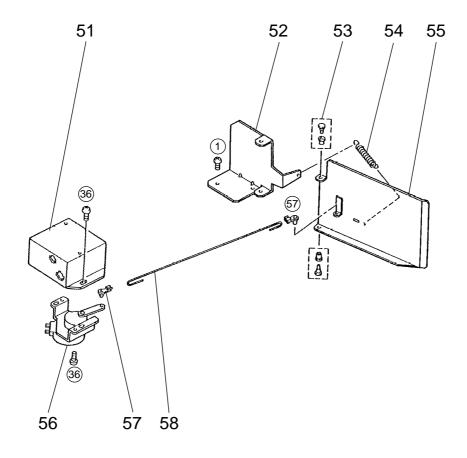
Model LGH-15RX4-E

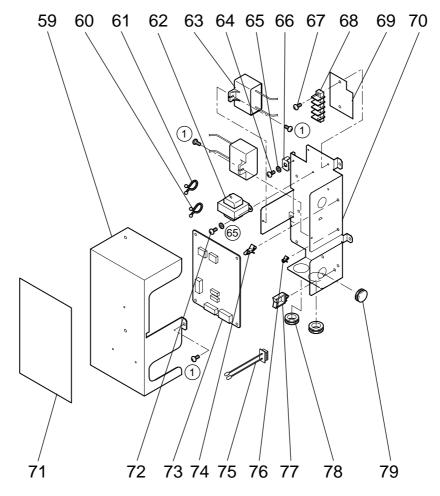
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
31.	R50 331 067	Special nut	2			
32.	$M34\ 398\ 077$	Tab washer	2			
33.	R50 354 480	Centrifugal fan	2	Δ	ϕ 180	
34.	R50 028 465	Special washer	2			
35.	Y50 116 451	Motor	2	Δ		
36.	H00 312 007	PTT screw 4×6	22			
37.	R50 214 708	Motor plate	4			
38.	H00 000 332	PTT screw 4×10	12			
39.	Y50 029 708	Motor base	2			



Model LGH-15RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.	Y50 061 693	Damper motor cover	1			
52.	R50 213 715	Damper support	1			
53.	M31 234 089	Special bush	2			
54.	R50 095 156	Pull spring	1			
55.	R50 213 713	Damper	1			
56.	Y50 061 260	Damper motor	1	1	220-240V	
57.	R50 054 225	Bush	2			
58.	R50 228 150	Rod	1			
59.	Y50 061 706	Control cover	1			
60.	K83 170 228	Cord band	1			
61.	M45 017 228	Cord band	1			
62.	Y50 047 216	Transformer	1	<u> </u>	230VAC	
63.	Y50 116 235	Capacitor	2	1	1. 5 μ F•440VAC	
64.	H00 011 008	PT screw 4×8 (BS)	2			
65.	H00 013 076	Lock washer	3			
66.	Y50 116 706	Earth fix plate	1			
67.	H00 154 005	PPT screw 4×12	2	٨		
68.	K81 432 236	Terminal block	1	A	3P ML-20	
69.	Y50 108 226	Insulation plate	1			
70.	Y50 116 707	*	1			
71.	Y50 116 368	Wiring diagram	1			
72.	H00 000 003	PP screw 4×8	2	٨		
73.	Y50 116 171	Circuit board	1	1	LG-X02-E	
74.	X40 139 095	Spacer	4			
75.	R50 477 167	Thermistor	1	1		
76.	D42 019 095	Spacer	4			
77.	M35 164 224	Cord clip	1			
78.	K82 163 225	Cord bush	2			
79.	K83 223 225	Bush	1			





Model LGH-25RX4-E

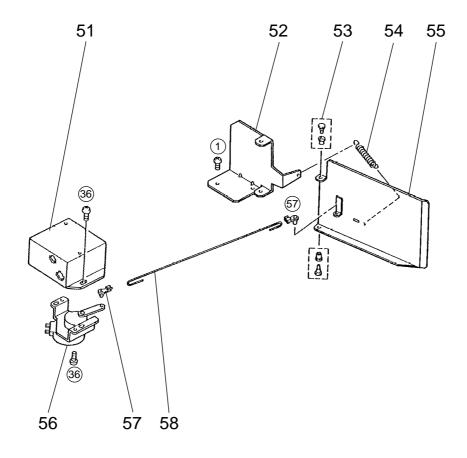
No.	Parts No.	Name of part	Q'ty pcs/unit		Remarks	Price
1	1100 000 407	DTT comm 4 × 0	10			
1. 2.	R50 323 609	PTT screw 4×8	18 2			
2. 3.	R50 476 380		4			
3. 4.		PTT screw 5×10	4			
5.		Maintenance cover	1			
6.	R50 395 382		1			
7.	Y50 061 718		2	1		
8.		Lossnay core	2	A		
9.	R50 476 382	Core guide	1			
10.	R50 476 708		2			
11.	R50 466 344		1			
12.	$M34\ 074\ 017$	-	1			
13.	Y50 029 712		1			
14.		Hanger cover	4	•	0.4	
15. 16.	Y50 075 609	Sound absorbing material	$\frac{1}{2}$	A	SA	
				3 4		
	5 6	7 8 9 10 11	12 13	14 15	16	

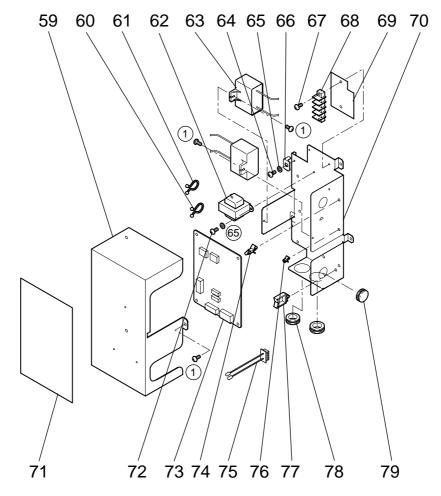
Model LGH-25RX4-E

No.	Parts No.	Name of part		Critical for safety	Remarks	Price
31. 32. 33. 34. 35. 36. 37. 38.	R50 331 067 M34 398 077 R50 354 480 R50 028 465 Y50 117 451 H00 312 007 R50 214 708 H00 000 332 Y50 030 707	Special nut Tab washer Centrifugal fan Special washer Motor PTT screw 4×6 Motor plate PTT screw 4×10 Motor base	2 2 2 2 2 2 22 4 12 2	1111111111111	φ 180	
31	32 33 3	4 35 36 37	38 39	39 36 36 36 36 36		32 32 31

Model LGH-25RX4-E

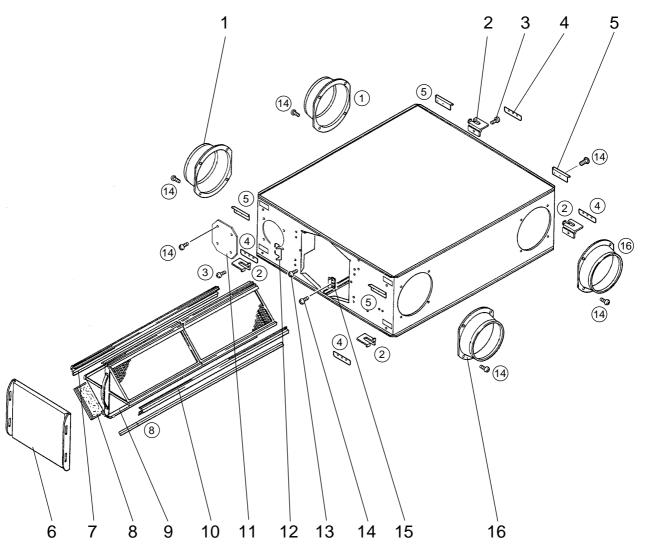
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.	Y50 061 693	Damper motor cover	1			
52.	R50 213 715	Damper support	1			
53.	M31 234 089	Special bush	2			
54.	R50 095 156	Pull spring	1			
55.	R50 213 713	Damper	1			
56.	Y50 061 260	Damper motor	1	1	220-240V	
57.	R50 054 225	Bush	2			
58.	R50 230 150	Rod	1			
59.	Y50 061 706	Control cover	1			
60.	K83 170 228	Cord band	1			
61.	$M45\ 017\ 228$	Cord band	1			
62.	Y50 047 216	Transformer	1	Δ	230VAC	
63.	Y50 116 235	Capacitor	2	Δ	1. $5 \mu \text{ F} \cdot 440 \text{VAC}$	
64.	H00 011 008	PT screw 4×8 (BS)	2			
65.	H00 013 076	Lock washer	3			
66.	Y50 116 706	Earth fix plate	1			
67.	H00 154 005	PPT screw 4×12	2			
68.	K81 432 236	Terminal block	1	Δ	3P ML-20	
69.	Y50 108 226	Insulation plate	1			
70.	Y50 116 707	Circuit fix plate	1			
71.	Y50 116 368	Wiring diagram	1			
72.	H00 000 003	PP screw 4×8	2			
73.	Y50 116 171	Circuit board	1	Δ	LG-X02-E	
74.	X40 139 095	Spacer	4			
75.	R50 477 167	Thermistor	1	Δ		
76.	D42 019 095	Spacer	4			
77.	$M35\ 164\ 224$	Cord clip	1			
78.	K82 163 225	Cord bush	2			
79.	K83 223 225	Bush	1			





Model LGH-35RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	R50 323 609	Flange	2			
2.	R50 476 380	Hanger	4			
3.	H00 189 007	PTT screw 5×10	4			
4.	R50 483 705	Hanger support	4			
5.	Y50 061 704	Hanger cover	4			
6.	X50 002 707	Maintenance cover	1			
7.	R50 396 381	Core guide	1			
8.	Y50 062 717	Filter	2	Δ		
9.	R50 478 710	Lossnay core	2	Δ		
10.	R50 478 381	Core guide	1			
11.	R50 476 708	Cover	2			
12.	R50 466 344	Hinge	1			
13.	$M34\ 074\ 017$	Special screw 4×11	1			
14.	H00 000 487	PTT screw 4×8	20			
15.	Y50 029 712	Fix plate	1			
16.	Y50 075 609	Flange	2			

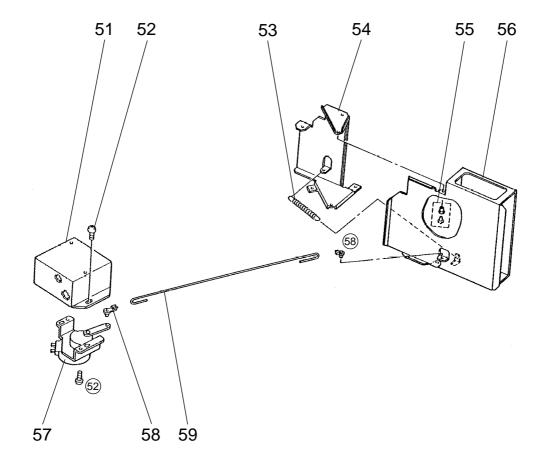


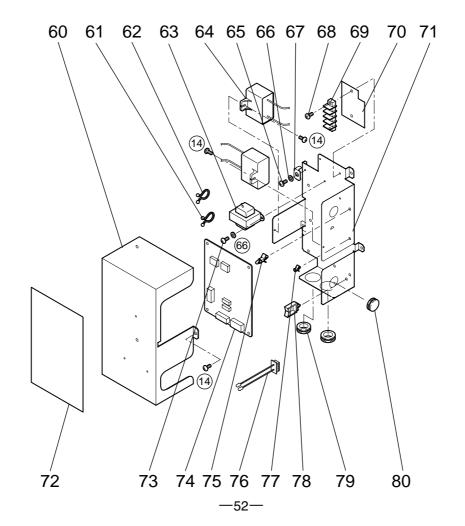
Model LGH-35RX4-E

No.	Parts No.	Name of part		Critical for safety	Remarks	Price
31. 32. 33. 34. 35. 36. 37.		Tab washer Centrifugal fan Motor base Special washer	2 2 2 2 2 2 2 2 16	A .	φ 220	
31	32 33	34 35 36	38	36 35 35	34)	32 31

Model LGH-35RX4-E

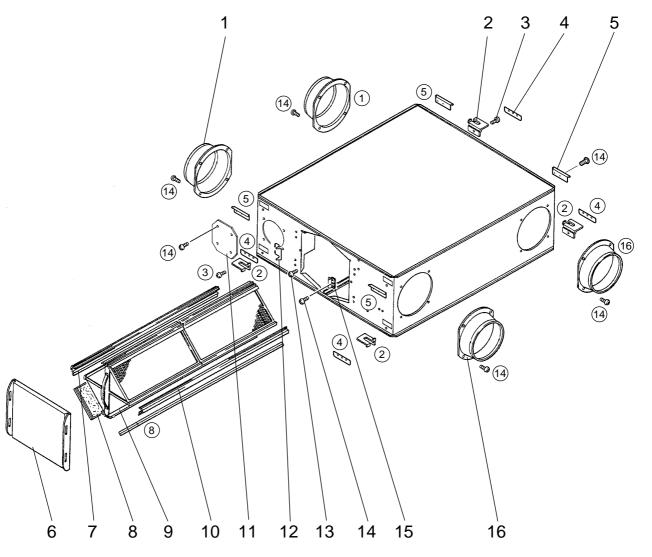
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.	Y50 061 693	Damper motor cover	1			
52.	H00 312 007	PTT screw 4×6	23			
53.		Pull spring	1			
54.	R50 472 716	Damper support	1			
55.	M31 234 089	Special bush	2			
56.	R50 472 715	Damper	1	٨		
57.	Y50 061 260	Damper motor	1	1	220-240V	
58.	R50 054 225	Bush	2			
59.	R50 231 150	Rod	1			
60.	Y50 061 706	Control cover	1			
61.	K83 170 228	Cord band	1			
62.	M45 017 228	Cord band	1	۵		
63.	Y50 047 216	Transformer	1	Â	230VAC	
64.	Y50 088 235	Capacitor	2	1	2. $5 \mu \text{ F} \cdot 440 \text{VAC}$	
65.	H00 011 008	PT screw 4×8 (BS)	2			
66.	H00 013 076	Lock washer	3			
67.	Y50 116 706	Earth fix plate	1			
68.	H00 154 005	PPT screw 4×12	2			
69.	K81 432 236	Terminal block	1	A	3P ML-20	
70.	Y50 108 226	Insulation plate	1			
71.	Y50 116 707	Circuit fix plate	1			
72.	Y50 116 368	Wiring diagram	1			
73.	H00 000 003	PP screw 4×8	2			
74.	Y50 116 171	Circuit board	1	1	LG-X02-E	
75.	X40 139 095	Spacer	4			
76.	R50 477 167	Thermistor	1	1		
77.	D42 019 095	Spacer	4			
78.	$M35\ 164\ 224$	Cord clip	1			
79.	K82 163 225	Cord bush	2			
80.	K83 223 225	Bush	1			





Model LGH-50RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	R50 028 610	Flange	2			
2.	R50 476 380	Hanger	4			
3.	H00 189 007	PTT screw 5×10	4			
4.	R50 483 705	Hanger support	4			
5.	Y50 061 704	Hanger cover	4			
6.	X50 002 707	Maintenance cover	1			
7.	R50 216 381	Core guide	1			
8.	Y50 062 718	Filter	2	\triangle		
9.	R50 478 711	Lossnay core	2	1		
10.	R50 478 382	Core guide	1			
11.	R50 351 708	Cover	2			
12.	R50 466 344	Hinge	1			
13.	$M34\ 074\ 017$	Special screw 4×11	1			
14.	H00 000 487	PTT screw 4×8	20			
15.	Y50 029 712	Fix plate	1			
16.	R50 429 609	Flange	2			

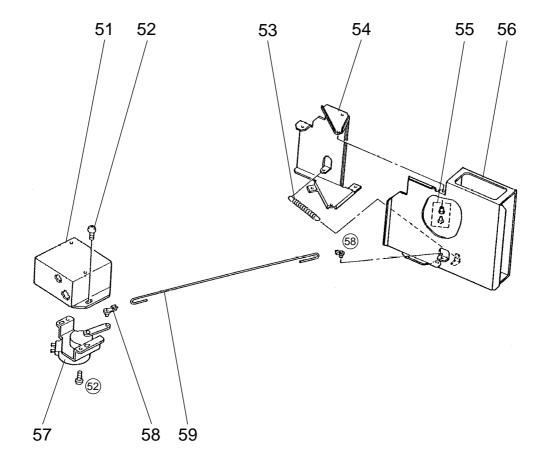


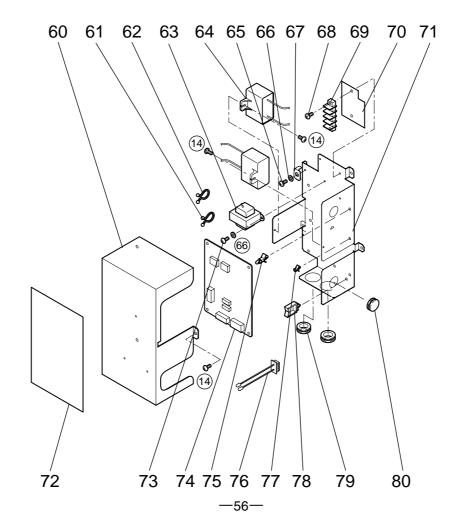
Model LGH-50RX4-E

No.	Parts No.	Name of part		Critical for safety	Remarks	Price
31. 32. 33. 34. 35. 36. 37.	R50 331 067 M34 398 077 R50 351 480 R50 478 707 M34 706 465 Y50 062 452 R50 351 713 H00 189 007	Tab washer Centrifugal fan	2 2 2 2 2 2 2 2 16	11	φ 220	
31	32 33	34 35 36	38	36 35 35 35	34 33	32 32 31

Model LGH-50RX4-E

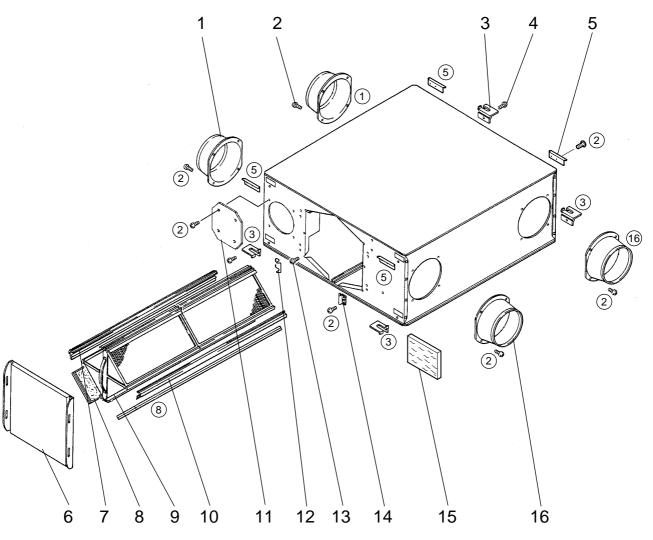
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.	Y50 061 693	Damper motor cover	1			
52.	H00 312 007	PTT screw 4×6	23			
53.	R50 069 156	Pull spring	1			
54.	R50 472 716	Damper support	1			
55.	M31 234 089	Special bush	2			
56.	R50 472 715	Damper	1			
57.	Y50 061 260	Damper motor	1	1	220-240V	
58.	R50 054 225	Bush	2			
59.	R50 232 150	Rod	1			
60.	Y50 061 706	Control cover	1			
61.	K83 170 228	Cord band	1			
62.	M45 017 228	Cord band	1			
63.	Y50 047 216	Transformer	1	<u> </u>	230VAC	
64.	Y50 091 235	Capacitor	2	Δ	$4 \mu \text{ F} \cdot 440 \text{VAC}$	
65.	H00 011 008	PT screw 4×8 (BS)	2			
66.	H00 013 076	Lock washer	3			
67.	Y50 116 706	Earth fix plate	1			
68.	H00 154 005	PPT screw 4×12	2			
69.	K81 432 236	Terminal block	1	A	3P ML-20	
70.	Y50 108 226	Insulation plate	1			
71.	Y50 116 707	Circuit fix plate	1			
72.	Y50 116 368	Wiring diagram	1			
73.	H00 000 003	PP screw 4×8	2			
74.	Y50 116 171	Circuit board	1	1	LG-X02-E	
75.	X40 139 095	Spacer	4			
76.	R50 477 167	Thermistor	1	A		
77.	D42 019 095	Spacer	4			
78.	M35 164 224	Cord clip	1			
79.	K82 163 225	Cord bush	2			
80.	K83 223 225	Bush	1			





Model LGH-65RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	R50 028 610	Flange	2			
2.	H00 000 487	PTT screw 4×8	18			
3.	R50 479 380	Hanger	4			
4.	H00 189 007	PTT screw 5×10	4			
5.	R50 479 704	Hanger cover	4			
6.	R50 217 708	Meintenance cover	1			
7.	R50 217 381	Core guide	1			
8.	Y50 120 717	Filter	2	\triangle		
9.	R50 479 710	Lossnay core	2	Δ		
10.	R50 479 381	Core guige	1			
11.	R50 351 708	Cover	2			
12.	R50 466 344	Hinge	1			
13.	$M34\ 074\ 017$	Special screw 4×11	1			
14.	Y50 029 712	Fix plate	1			
15.	R50 357 717	Sound absorbing material	1	Δ	SA	
16.	R50 429 609	Flange	2			

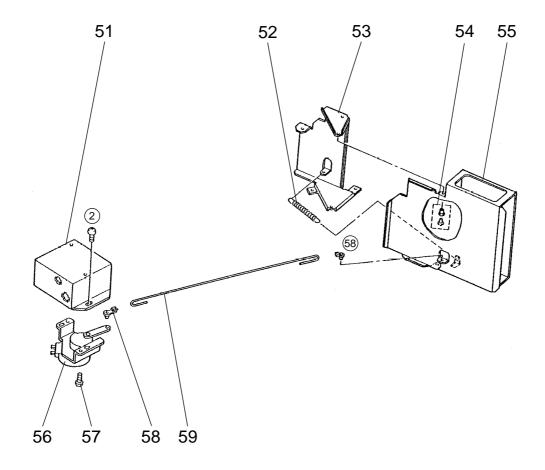


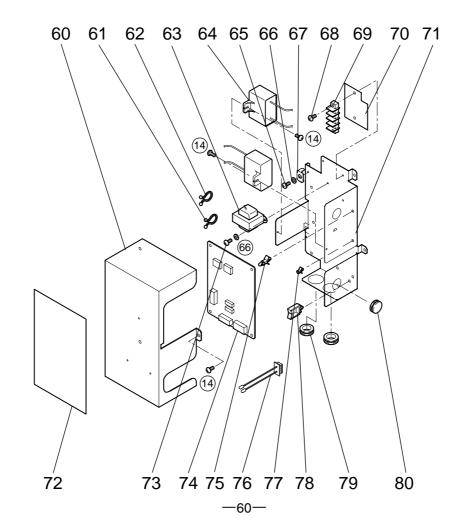
Model LGH-65RX4-E

No.	Part	s No.	Name of part	Q'ty pcs/unit		Remarks	Price
31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43.	K83 46 R50 47 R50 35 Y50 03 R50 21 H00 18 Y50 12 R50 26 R50 21 D40 13 M34 04	6 113 9 480 7 707 3 104 7 711 9 007 0 451 3 712 7 225 5 095 3 080	Key Inlet ring PTT screw 5×10 Motor Motor fix leg Bush Spacer	2 2 2 2 2 2 16 2 4 8 8 8	A	φ 245 5×5×11.5	
31	32 3	3		3 39 40 41 43 42 41 40 39 38	42 43	36	33 32 30 31

Model LGH-65RX4-E

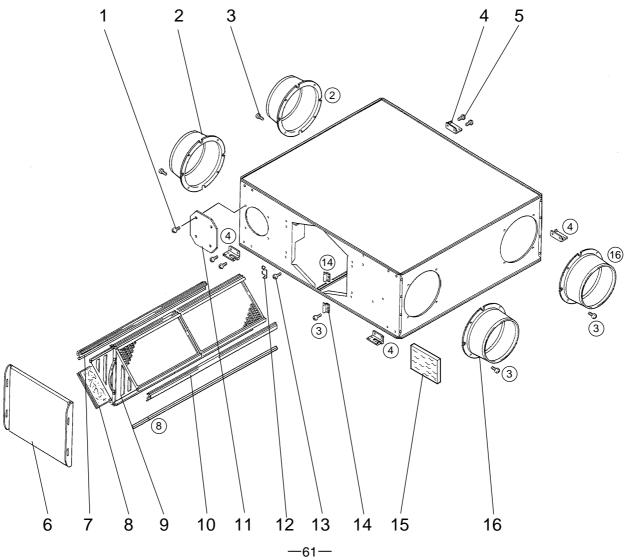
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.		Damper motor cover	1			
52.	R50 099 156	Pull spring	1			
53.	R50 472 716	Damper support	1			
54.	M31 234 089	Special bush	2			
55.	R50 472 715	Damper	1			
56.	Y50 061 260	Damper motor	1	A	220-240V	
57.	H00 312 007	PTT screw 4×6	2			
58.	R50 054 225	Bush	2			
59.	R50 233 150	Rod	1			
60.	Y50 061 706	Control cover	1			
61.	K83 170 228	Cord band	1			
62.	M45 017 228	Cord band	1	•	0001110	
63.	Y50 047 216	Transformer	1	1	230VAC	
64.	Y50 120 235	Capacitor	2	A	$5 \mu \text{ F} \cdot 440 \text{VAC}$	
65.	H00 011 008	PT screw 4×8(BS)	2			
66.	H00 013 076	Lock washer	3			
67.		Earth fix plate	1			
68.	H00 154 005	PPT screw 4×12	2	•	05.15	
69.	K81 432 236	Terminal block	1	A	3P ML-20	
70.	Y50 108 226	Insulation plate	1			
71.	Y50 116 707	Circuit fix plate	1			
72.	Y50 116 368	Wiring diagram	1			
73.	H00 000 003	PP screw 4×8	2			
74.	Y50 116 171	Circuit board	1	1	LG-X02-E	
75.	X40 139 095	Spacer	4	۵		
76.	R50 477 167	Thermistor	1	1		
77.	D42 019 095	Spacer	4			
78.	M35 164 224	Cord clip	1			
79.	K82 163 225	Cord bush	2			
80.	K83 223 225	Bush	1			





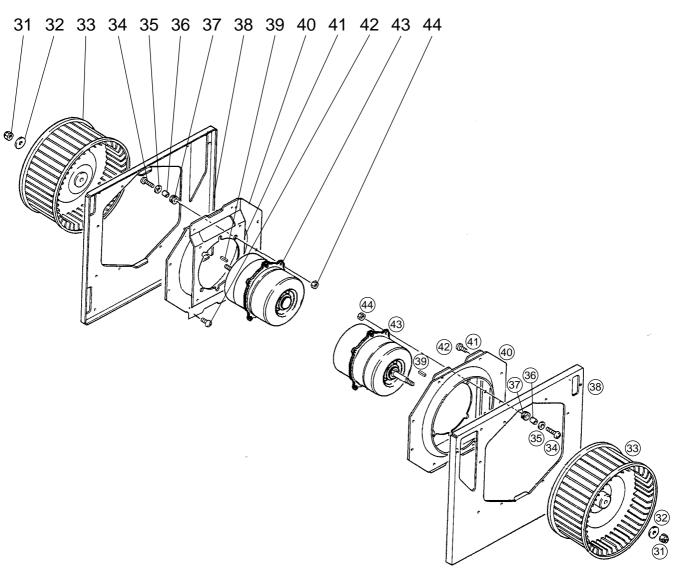
Model LGH-80RX4-E

	Model Lon	I OURAT L				
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	H00 000 488	PTT screw 4×12	10			
2.	R50 430 609	Flange	2			
3.	H00 000 487	PTTscrew 4×8	18			
4.	R50 095 380	Hanger	4			
5.	H00 000 244	PT screw 6×12	16			
6.	X50 004 707	Maintenance cover	1			
7.	R50 218 381	Core guide	1			
8.	Y50 063 717	Filter	2	Δ		
9.	R50 480 710	Lossnay core	2	1		
10.	R50 480 381	Core guide	1			
11.	R50 358 704	Cover	2			
12.	R50 466 344	Hinge	1			
13.	$M34\ 074\ 017$	Special screw 4×11	1			
14.	Y50 029 712	Fix plate	2			
15.	R50 358 717	Sound absorbing material	1	Δ	SA	
16.	Y50 021 609	Flange	2			
	1	2 3		4	. 5	
			2			



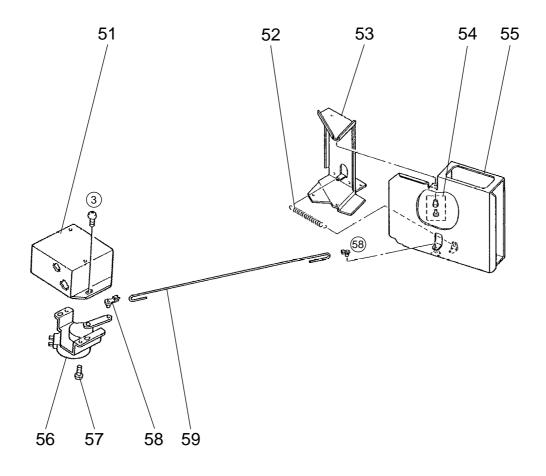
Model LGH-80RX4-E

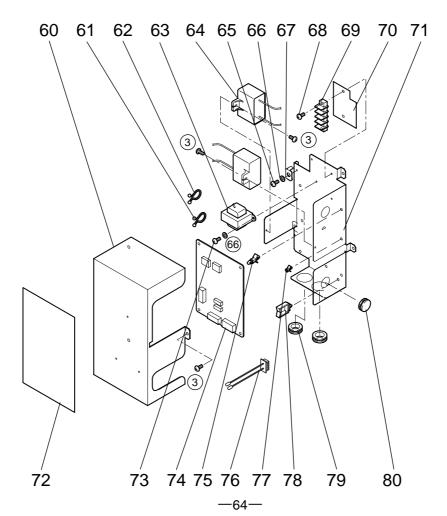
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
31.	R50 218 067	•	2			
32.	K83 466 113	Special washer(12)	2			
33.	R50 479 480	Centrifugal fan	2	1	ϕ 245	
34.	H00 157 008	PT screw 6×20	8			
35.	$M34\ 043\ 080$	Special washer	8			
36.	D40 135 095	Spacer	8			
37.	R50 217 225	Bush	8			
38.	R50 480 707	Fan base	2			
39.	Y50 033 104	Key	2		$5\times5\times11.5$	
40.	R50 264 711	Inlet plate	2			
41.	R50 264 712	Motor fix leg	2			
42.	H00 189 007	PTT screw 5×10	16			
43.	Y50 121 451	Motor	2	A		
44.	H00 061 050	Nut (6)	8			



Model LGH-80RX4-E

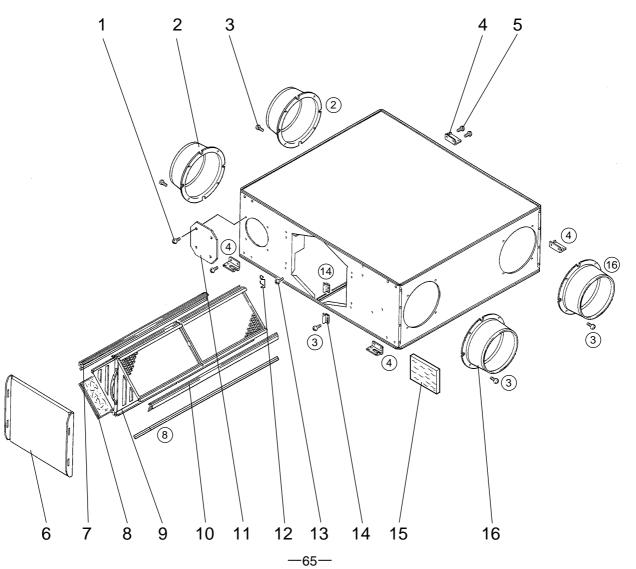
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.		Damper motor cover	1			
52.	R50 074 156	Pull spring	1			
53.	R50 473 715	Damper support	1			
54.	M31 234 089	Special bush	2			
55.	R50 473 716	Damper	1			
56.	Y50 061 260	Damper motor	1	1	220-240V	
57.	H00 312 007	PTT screw 4×6	2			
58.	R50 054 225	Bush	2			
59.	R50 265 150	Rod	1			
60.	Y50 061 706	Control cover	1			
61.	K83 170 228	Cord band	1			
62.	M45 017 228	Cord band	1	٨		
63.	Y50 047 216	Transformer	1	<u>^</u>	230VAC	
64.	Y50 092 235	Capacitor	2	1	$7 \mu \text{ F} \cdot 440 \text{VAC}$	
65.	H00 011 008	PT screw 4×8 (BS)	2			
66.	H00 013 076	Lock washer	3			
67.	Y50 116 706	Earth fix plate	1			
68.	H00 154 005	PPT screw 4×12	2			
69.	K81 432 236	Terminal block	1	1	3P ML-20	
70.	Y50 108 226	Insulation plate	1			
71.	Y50 116 707	Circuit fix plate	1			
72.	Y50 116 368	Wiring diagram	1			
73.	H00 000 003	PP screw 4×8	2			
74.	Y50 116 171	Circuit board	1	1	LG-X02-E	
75.	X40 139 095	Spacer	4			
76.	Y50 121 215	Thermistor	1	A		
77.	D42 019 095	Spacer	4			
78.	$M35\ 164\ 224$	Cord clip	1			
79.	K82 163 225	Cord bush	2			
80.	K83 223 225	Bush	1			





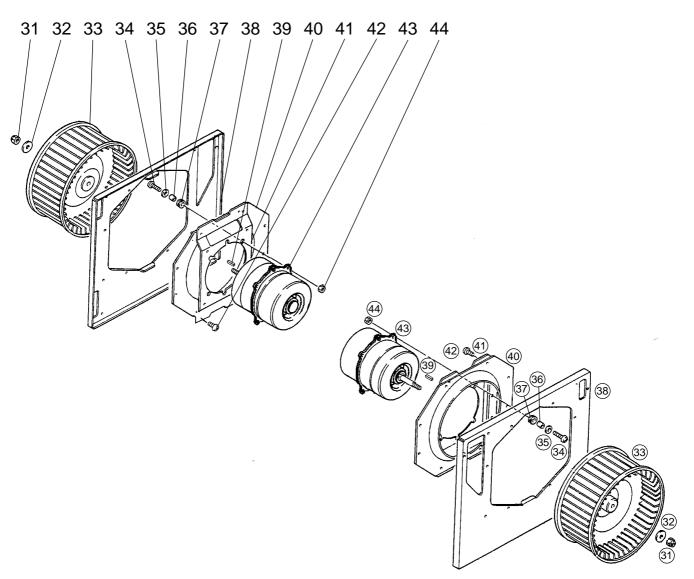
Model LGH-100RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	H00 000 488	PTT screw 4×12	10			
2.	R50 430 609	Flange	2			
3.	H00 000 487	PTT screw 4×8	18			
4.	R50 095 380	Hanger	4			
5.	H00 000 244	PT screw 6×12	16			
6.	X50 004 707	Maintenance cover	1			
7.	R50 219 381	Core guide	1			
8.	Y50 063 718	Filter	2	1		
9.	R50 481 710	Lossnay core	2	Δ		
10.	R50 481 381	Core guide	1			
11.	R50 358 704	Cover	2			
12.	R50 466 344	Hinge	1			
13.	$M34\ 074\ 017$	Special screw 4×11	1			
14.	Y50 029 712	Fix plate	2			
15.	R50 358 717	Sound absorbing material	1	1	SA	
16.	Y50 021 609	Flange	2			
	1	2 3		4	. 5	



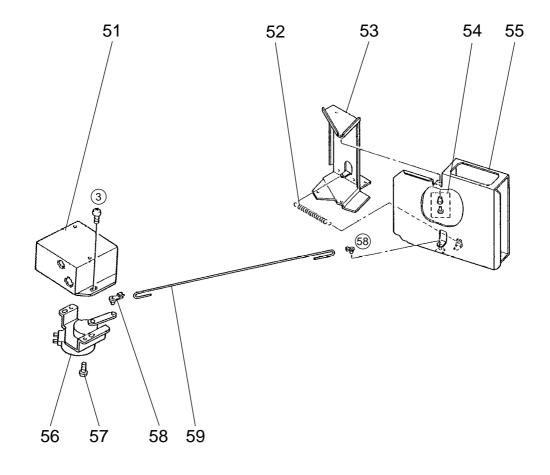
Model LGH-100RX4-E

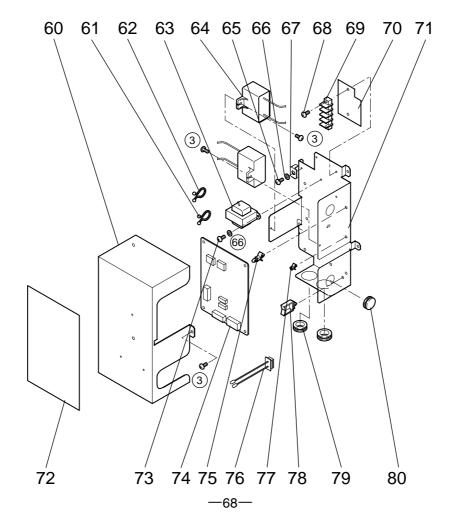
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
31.	R50 218 067	Special nut(12)	2			
32.	K83 466 113	Special washer(12)	2			
33.	R50 479 480	Centrifugal fan	2	\triangle	ϕ 245	
34.	H00 157 008	PT screw 6×20	8			
35.	$M34\ 043\ 080$	Special washer	8			
36.	D40 135 095	Spacer	8			
37.	R50 217 225	Bush	8			
38.	R50 480 707	Fan base	2			
39.	Y50 033 104	Key	2		$5\times5\times11.5$	
40.	R50 264 711	Inlet plate	2			
41.	R50 264 712	Motor fix leg	2			
42.	H00 189 007	PTT screw 5×10	16			
43.	Y50 122 451	Motor	2	\triangle		
44.	H00 061 050	Nut (6)	8			



Model LGH-100RX4-E

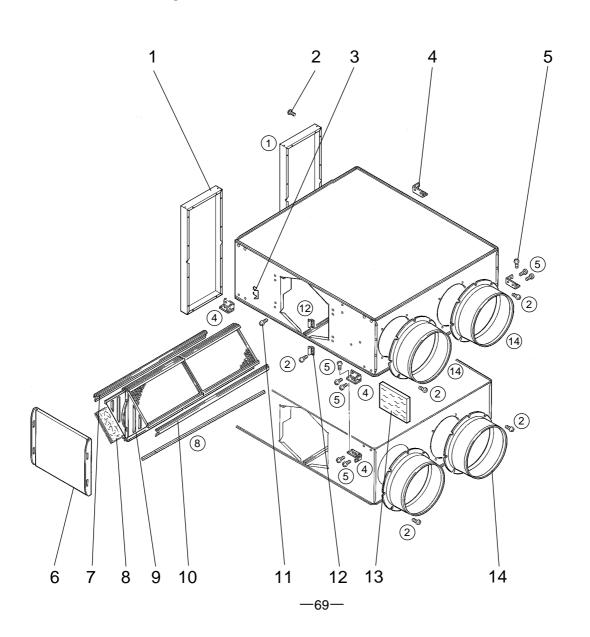
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.		Damper motor cover	1			
52.		Pull spring	1			
53.	R50 473 715	Damper support	1			
54.	M31 234 089	Special bush	2			
55.	R50 473 716	Damper	1	۵		
56.	Y50 061 260	Damper motor	1	1	220-240V	
57.	H00 312 007	PTT screw 4×6	2			
58.	R50 054 225	Bush	2			
59.	R50 265 150	Rod	1			
60.	Y50 061 706	Control cover	1			
61.	K83 170 228	Cord band	1			
62.	M45 017 228	Cord band	1			
63.	Y50 047 216	Transformer	1	<u> </u>	230VAC	
64.	Y50 092 235	Capacitor	2	1	$7 \mu \text{ F} \cdot 440 \text{VAC}$	
65.	H00 011 008	PT screw 4×8 (BS)	2			
66.		Lock washer	3			
67.	Y50 116 706	Earth fix plate	1			
68.	H00 154 005	PPT screw 4×12	2			
69.	K81 432 236	Terminal block	1	A	3P ML-20	
70.	Y50 108 226	Insulation plate	1			
71.		Circuit fix plate	1			
72.	Y50 116 368	Wiring diagram	1			
73.	H00 000 003	PP screw 4×8	2			
74.	Y50 116 171	Circuit board	1	A	LG-X02-E	
75.	X40 139 095	Spacer	4			
76.	Y50 122 215	Thermistor	1	A		
77.	D42 019 095	Spacer	4			
78.	$M35\ 164\ 224$	Cord clip	1			
79.	K82 163 225	Cord bush	2			
80.	K83 223 225	Bush	1			





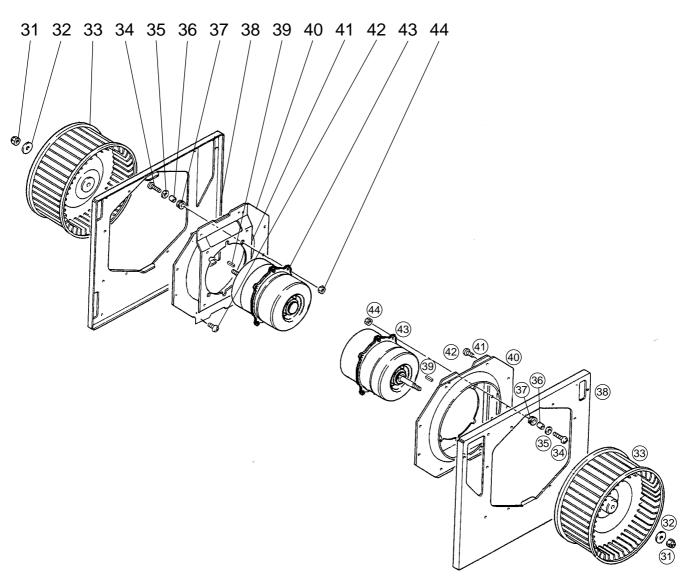
Model LGH-150RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	Y50 123 704	Flango	2			
2.	H00 000 487	PTT screw 4×8	40			
3.	R50 466 344		2			
4.		Hanger	8			
5.		PT screw 6×12	40			
6.	X50 004 707	Maintenance cover	2			
7.	R50 218 381	Core guide	2			
8.	Y50 063 717	9	4	Δ		
9.	R50 480 710	Lossnay core	4	Δ		
10.	R50 480 381	Core guide	2			
11.	M34 074 017	Special screw 4×11	2			
12.	Y50 029 712	Fix plate	4			
13.	R50 358 717	Sound absorbing material	2	1	SA	
14.	Y50 021 609	Flange	4			



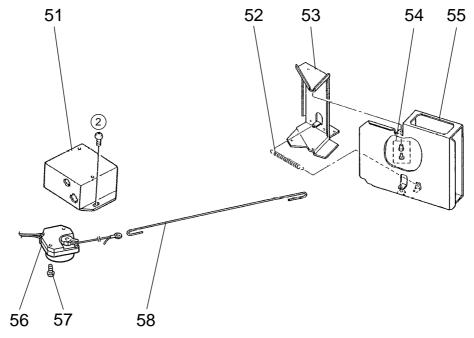
Model LGH-150RX4-E

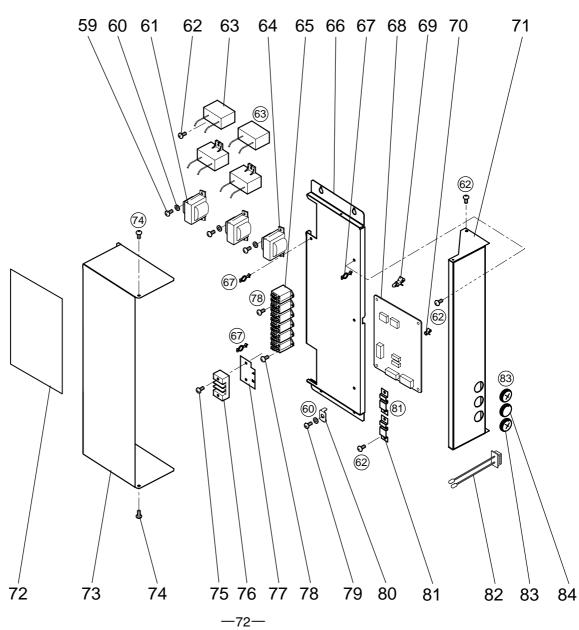
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
31.	R50 218 067	Special nut(12)	4			
32.	K83 466 113	Special washer(12)	4			
33.	R50 479 480	Centrifugal fan	4	Δ	ϕ 245	
34.	H00 157 008	PT screw 6×20	16			
35.	$M34\ 043\ 080$	Special washer	16			
36.	D40 135 095	Spacer	16			
37.	R50 217 225	Bush	16			
38.	R50 480 707	Fan base	4			
39.	Y50 033 104	Key	4		$5\times5\times11.5$	
40.	R50 264 711	Inlet plate	4			
41.	R50 264 712	Motor fix leg	4			
42.	H00 189 007	PTT screw 5×10	32			
43.	Y50 121 451	Motor	4	Δ		
44.	H00 061 050	Nut (6)	16			



Model LGH-150RX4-E

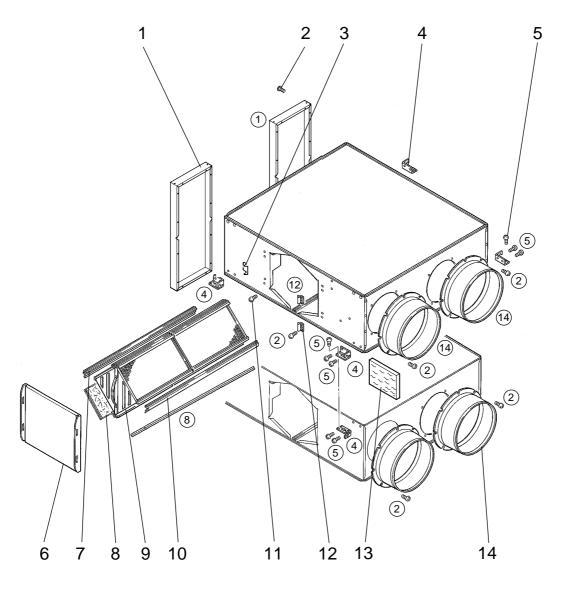
No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.	Y50 061 693	Damper motor cover	2			
52.	R50 074 156	Pull spring	2			
53.	R50 473 715	Damper support	2			
54.	M31 234 089	Special bush	4			
55.	R50 473 716	Damper	2			
56.	Y50 123 260	Damper motor	2	Δ		
57.	H00 000 007	PPT screw 4×25	4			
58.	R50 271 150	Rod	2			
59.	H00 000 003	PP screw 4×8	6			
60.	H00 013 076	Lock washer	7			
61.	Y50 075 216	Transformer	2	Δ	AC220-240V	
62.	H00 000 487	PTT screw 4×8	8			
63.	Y50 092 235	Capacitor	4	Δ	$7~\mu~\mathrm{F} \cdot 440\mathrm{VAC}$	
64.	Y50 047 216	Transformer	1	Δ	230VAC	
65.	Y50 009 268	Relay	6	Δ		
66.	Y50 123 707	Control base	1			
67.	D41 093 223	Cord clip	3			
68.	Y50 123 171	Circuit board	1	Δ	LG-X02-E2	
69.	X40 139 095	Spacer	4			
70.	D42 019 095	Spacer	4			
71.	Y50 123 706	Side plate	1			
72.	Y50 123 368	Wiring diagram	1			
73.	Y50 123 705	Control cover	1			
74.	$M34\ 721\ 045$	Special screw 4×10	2			
75.	H00 231 005	PPT screw 4×16	2			
76.	Y45 608 236	Teaminal block	1	Δ	ML-20-A37-3P	
77.	Y50 108 226	Insulation plate	1			
78.	H00 000 384	PPT screw 3×6	12			
79.	H00 011 008	PT screw 4×8 (BS)	3			
80.	Y50 116 706	Earth fix plate	1			
81.	M35 698 223	Cord clip	2			
82.	Y50 123 215	Termistor	1	Δ		
83.	R50 351 225	Bush	2			
84.	K82 163 225	Cord bush	1			





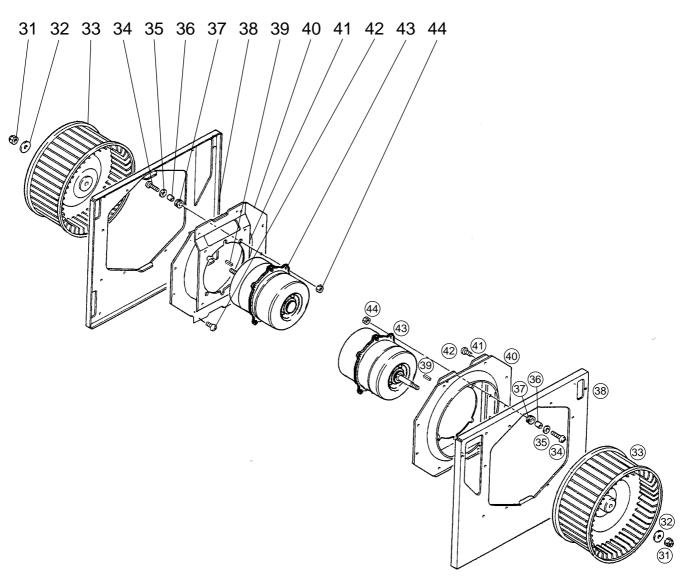
Model LGH-200RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
1.	Y50 123 704	Flange	2			
2.	H00 000 487	PTT screw 4×8	40			
3.	R50 466 344	Hinge	2			
4.	R50 111 381	Hanger	8			
5.	H00 000 244	PT screw 6×12	40			
6.	X50 004 707	Maintenance cover	2			
7.	R50 219 381	Core guide	2			
8.	Y50 063 718	Filter	4	Δ		
9.	R50 481 710	Lossnay core	4	Δ		
10.	R50 481 381	Core guide	2			
11.	$M34\ 074\ 017$	Special screw 4×11	2			
12.	Y50 029 712	Fix plate	4			
13.	R50 358 717	Sound absorbing material	2	Δ	SA	
14.	Y50 021 609	Flange	4			



Model LGH-200RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
31.	R50 218 067	Special nut(12)	4			
32.	K83 466 113	Special washer(12)	4			
33.	R50 479 480	Centrifugal fan	4	1	ϕ 245	
34.	H00 157 008	PT screw 6×20	16			
35.	$M34\ 043\ 080$	Special washer	16			
36.	D40 135 095	Spacer	16			
37.	R50 217 225	Bush	16			
38.	R50 480 707	Fan base	4			
39.	Y50 033 104	Key	4		$5\times5\times11.5$	
40.	R50 264 711	Inlet plate	4			
41.	R50 264 712	Motor fix leg	4			
42.	H00 189 007	PTT screw 5×10	32			
43.	Y50 122 451	Motor	4	Δ		
44.	H00 061 050	Nut (6)	16			



Model LGH-200RX4-E

No.	Parts No.	Name of part	Q'ty pcs/unit	Critical for safety	Remarks	Price
51.	Y50 061 693	Damper motor cover	2			
52.	R50 074 156	Pull spring	2			
53.	R50 473 715	Damper support	2			
54.	M31 234 089	Special bush	4			
55.	R50 473 716	Damper	2			
56.	Y50 123 260	Damper motor	2	\triangle		
57.	H00 000 007	PPT screw 4×25	4			
58.	R50 271 150	Rod	2			
59.	H00 000 003	PP screw 4×8	6			
60.	H00 013 076	Lock washer	7			
61.	Y50 075 216	Transformer	2	\triangle	AC220-240V	
62.	H00 000 487	PTT screw 4×8	8			
63.	Y50 092 235	Capacitor	4	\triangle	$7~\mu~\mathrm{F} \cdot 440\mathrm{VAC}$	
64.	Y50 047 216	Transformer	1	\triangle	230VAC	
65.	Y50 009 268	Relay	6	\triangle		
66.	Y50 123 707	Control base	1			
67.	D41 093 223	Cord clip	3			
68.	Y50 123 171	Circuit board	1	1	LG-X02-E2	
69.	X40 139 095	Spacer	4			
70.	D42 019 095	Spacer	4			
71.	Y50 123 706	Side plate	1			
72.	Y50 123 368	Wiring diagram	1			
73.	Y50 123 705	Control cover	1			
74.	M34 721 045	Special screw 4×10	2			
75.	H00 231 005	PPT screw 4×16	2			
76.	Y45 608 236	Teaminal block	1	1	ML-20-A37-3P	
77.	Y50 108 226	Insulation plate	1			
78.	H00 000 384	PPT screw 3x6	12			
79.		PT screw 4×8 (BS)	3			
80.	Y50 116 706	Earth fix plate	1			
81.	M35 698 223	Cord clip	2			
82.	Y50 124 215	Thermistor	1	1		
83.	R50 351 225	Bush	2			
84.	K82 163 225	Cord bush	1			

