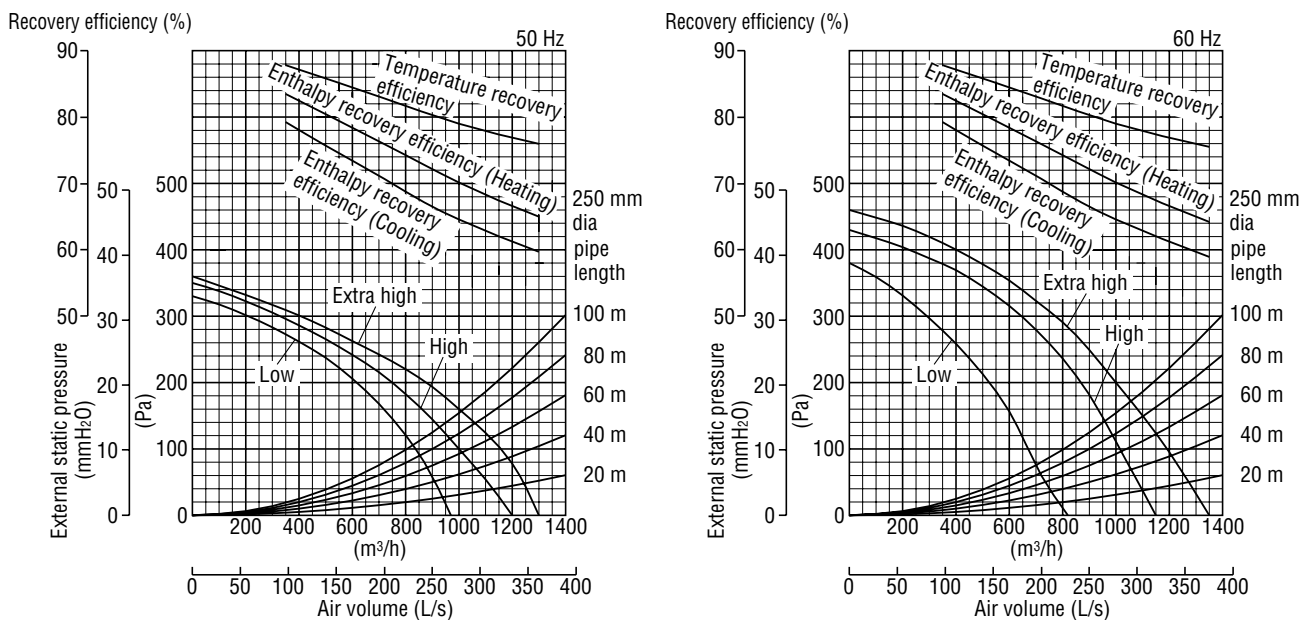


TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-100RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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	245 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	72 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	2.3-2.3	2.3-2.3	2.2-2.2	2.3-2.3	2.3-2.2	2.1-2.1	2.8	2.6	1.7	2.8	2.6	1.7	
Power consumption [W]	500-525	495-515	465-475	505-525	500-515	455-485	600	555	365	595	550	365	
Air volume	[m ³ /h]	1000	1000	870	1000	1000	870	1000	1000	720	1000	1000	720
	[L/s]	278	278	242	278	278	242	278	278	200	278	278	200
External static pressure	[mmH ₂ O]	16.3	10.2	8.2	16.3	10.2	8.2	20.4	11.2	6.1	20.4	11.2	6.1
	[Pa]	160	100	80	160	100	80	200	110	60	200	110	60
Temperature recovery efficiency [%]		79	79	81	-	-	-	79	79	83	-	-	-
Enthalpy recovery efficiency (%)	Heating	70	70	73	-	-	-	70	70	76	-	-	-
	Cooling	64.5	64.5	67	-	-	-	64.5	64.5	71	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	36-37	34-35	31.5-32.5	37-38	35-36	33-34	36	34	30	37	35	31
	Air outlets	47-48	45-46	41.5-42.5	48-49	46-47	43-44	47	45	40	48	46	41
Starting current	Under 5.7/5.0 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

Characteristic Curves



* Attention

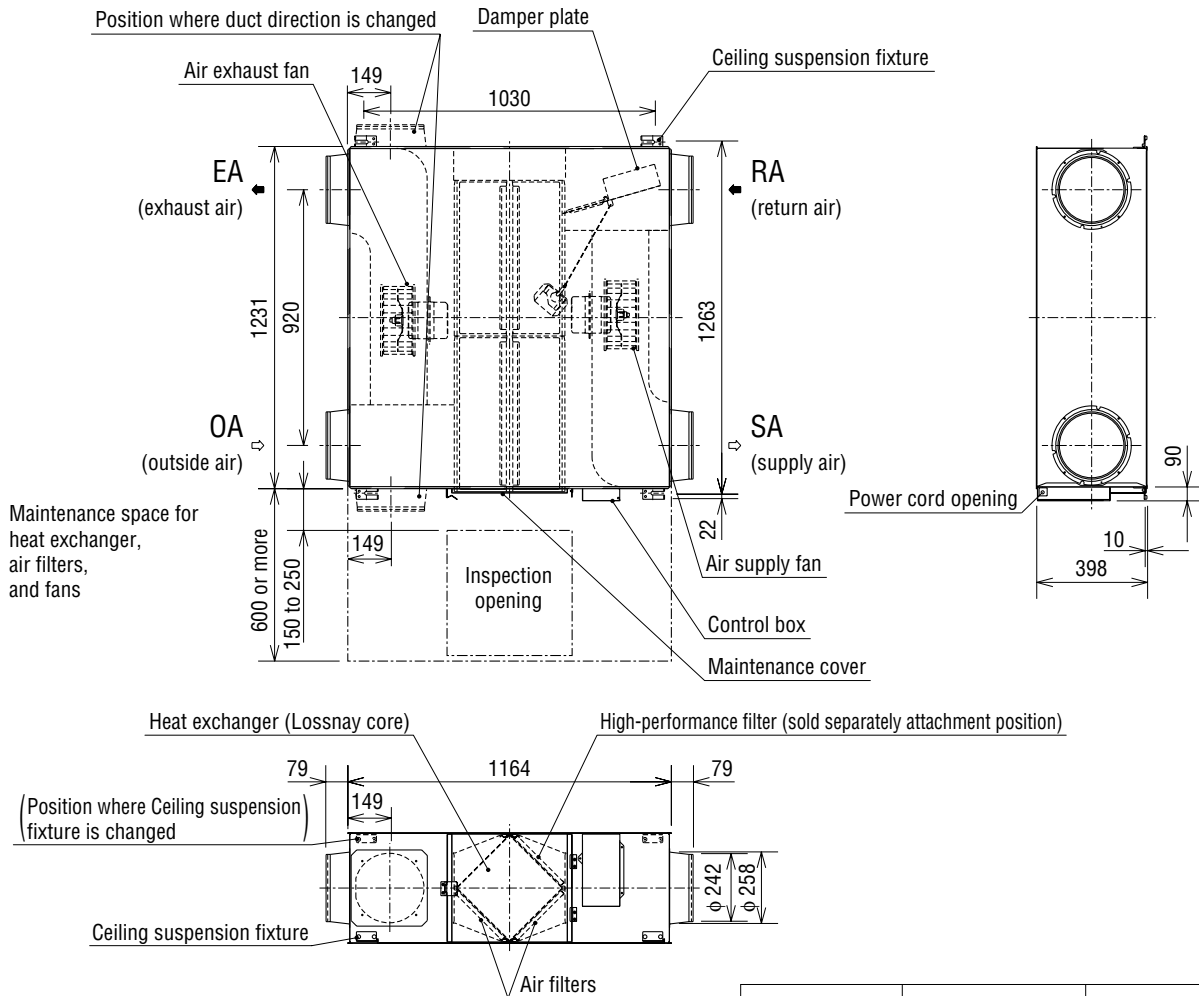
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-100RX ₃	
	NUMBER	No. ND101067		1/4

■ Drawings and Dimensions



	UNIT	SCALE
	mm	N.T.S

* Attention

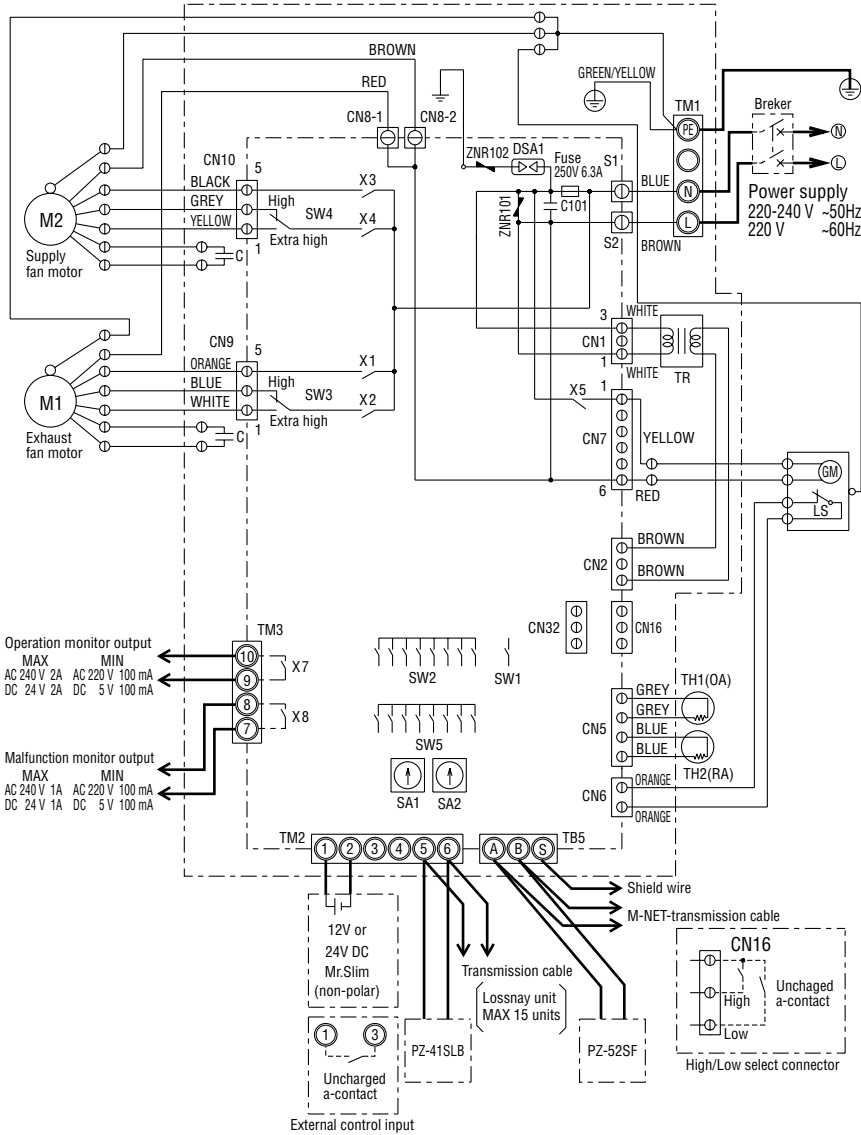
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filters and Lossnay cores removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-100RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101067	2/4	

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



■ Symbol explanation

- M1 : Motor for exhaust fan
- M2 : Motor for supply fan
- C : Capacitor
- GM : Motor for Bypass movement
- LS : Microswitch
- TH1 : Thermistor for outside air
- TH2 : Thermistor for return air
- SW1 : Switch (Main/Sub change)
- SW2, 5: Switch (Function selection)
- SW3 : High/E.high select switch (Exhaust fan)
- SW4 : High/E.high select switch (Supply fan)
- TM1 : Terminal block (Power supply)
- TM2 : Terminal block (Transmission cable and external control input)
- TM3 : Terminal block (Monitor output)
- *1 TB5 : Terminal block (M-NET Transmission cable)
- S1, S2 : Connector (Power supply)
- TR : Control circuit transformer
- X7 : Relay contact (For operation monitor output)
- X8 : Relay contact (For malfunction monitor output)
- CN1 : Connector (Transformer primary)
- CN2 : Connector (Transformer secondary)
- CN5 : Connector (Thermistor)
- CN6 : Connector (Microswitch)
- CN7 : Connector (Motor for Bypass operation)
- CN8-1 : Tab connector (Fan motor)
- CN8-2 : Tab connector (Fan motor)
- CN9 : Connector (Fan motor)
- CN10 : Connector (Fan motor)
- CN16 : Connector (High/Low switch)
- CN32 : Connector (Remote control selection)

- *1 SA1 : Address setting rotary switch (10 digit)
- *1 SA2 : Address setting rotary switch (1 digit)

MARK

- : Indicates terminal block
- ⊙ : Connector
- Ⓛ : Board insertion connector or fastening connector of control board

* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-100RX ₃		
	17-Jun.-01		NUMBER	No. ND101067	3/4
MITSUBISHI ELECTRIC CORPORATION					

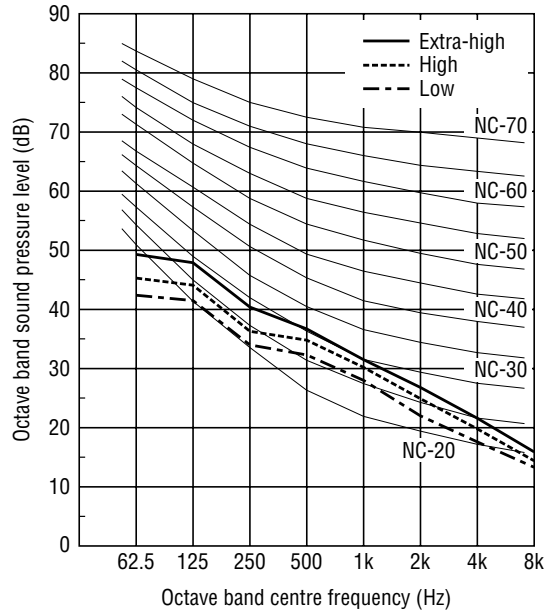
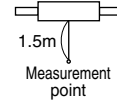
■ NC Curves

50Hz

Background noise : 25dB or less (A range)

Measurement site : Anechoic chamber

Operation conditions : Lossnay ventilation

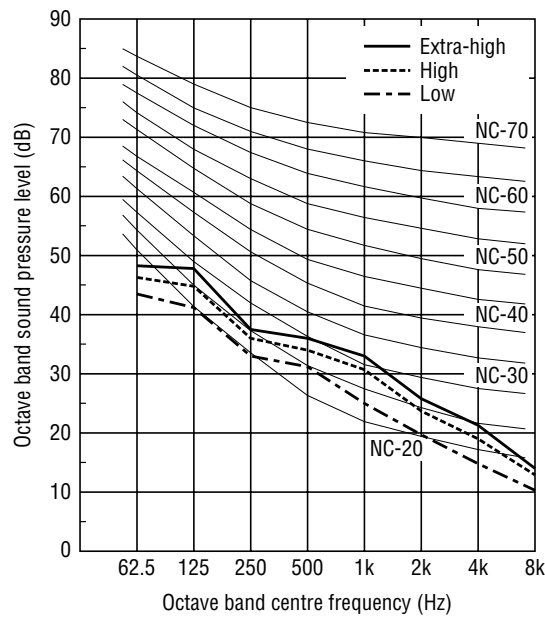
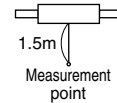


60Hz

Background noise : 25dB or less (A range)

Measurement site : Anechoic chamber

Operation conditions : Lossnay ventilation



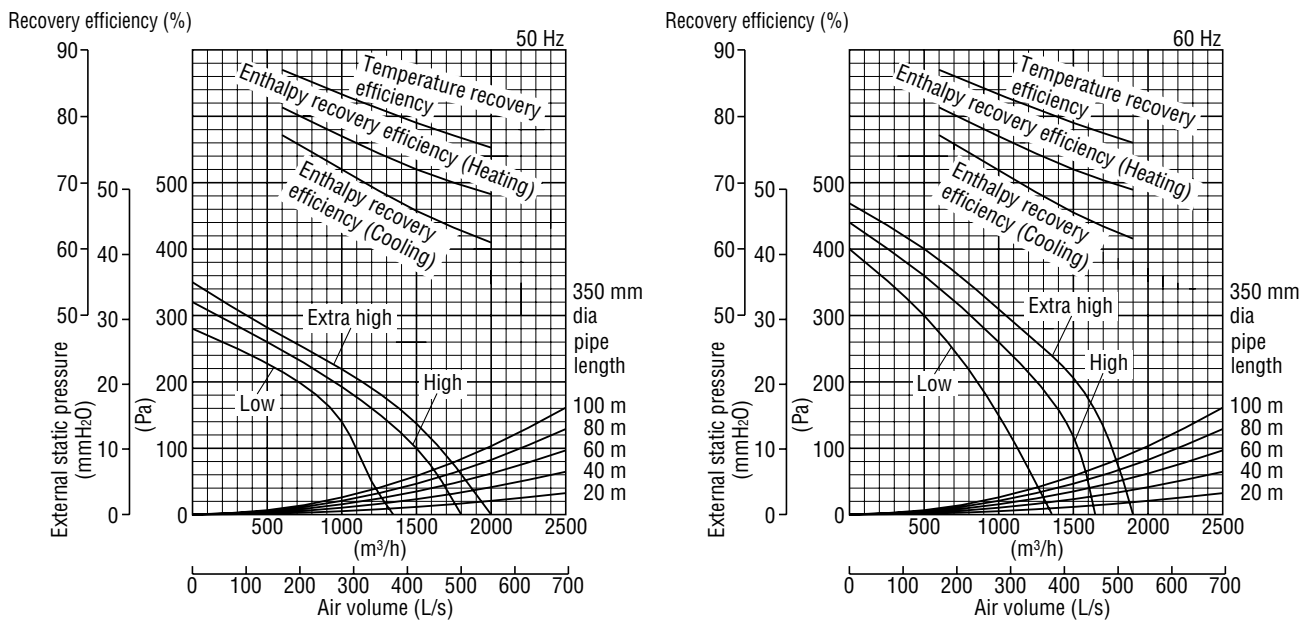
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-100RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION		NUMBER	No. ND101067	4/4

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-150RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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, 4 units												
Blower	245 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	154 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	3.3-3.3	3.1-3.1	2.7-2.8	3.2-3.2	3.0-3.0	2.6-2.6	4.2	3.7	2.9	4.2	3.7	2.9	
Power consumption [W]	720-785	670-730	585-660	695-760	650-705	565-615	915	805	630	905	800	630	
Air volume	[m ³ /h]	1500	1500	1200	1500	1500	1200	1500	1500	1200	1500	1500	1200
	[L/s]	417	417	333	417	417	333	417	417	333	417	417	333
External static pressure	[mmH ₂ O]	14.0	10.2	5.1	14.0	10.2	5.1	21.0	12.0	7.0	21.0	12.0	7.0
	[Pa]	137	100	50	137	100	50	206	118	69	206	118	69
Temperature recovery efficiency [%]		79	79	81	-	-	-	79	79	81	-	-	-
Enthalpy recovery efficiency (%)	Heating	72	72	75	-	-	-	72	72	75	-	-	-
	Cooling	65.5	65.5	69	-	-	-	65.5	65.5	69	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	36.5-37.5	35.5-36.5	32.5-33.5	36.5-37.5	35.5-36.5	32.5-33.5	37	36	33	37	36	33
	Air outlets	47.5-48.5	46.5-47.5	43.5-44.5	47.5-48.5	46.5-47.5	43.5-44.5	48	47	44	48	47	44
Starting current	Under 6.8/5.9 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

Characteristic Curves



* Attention

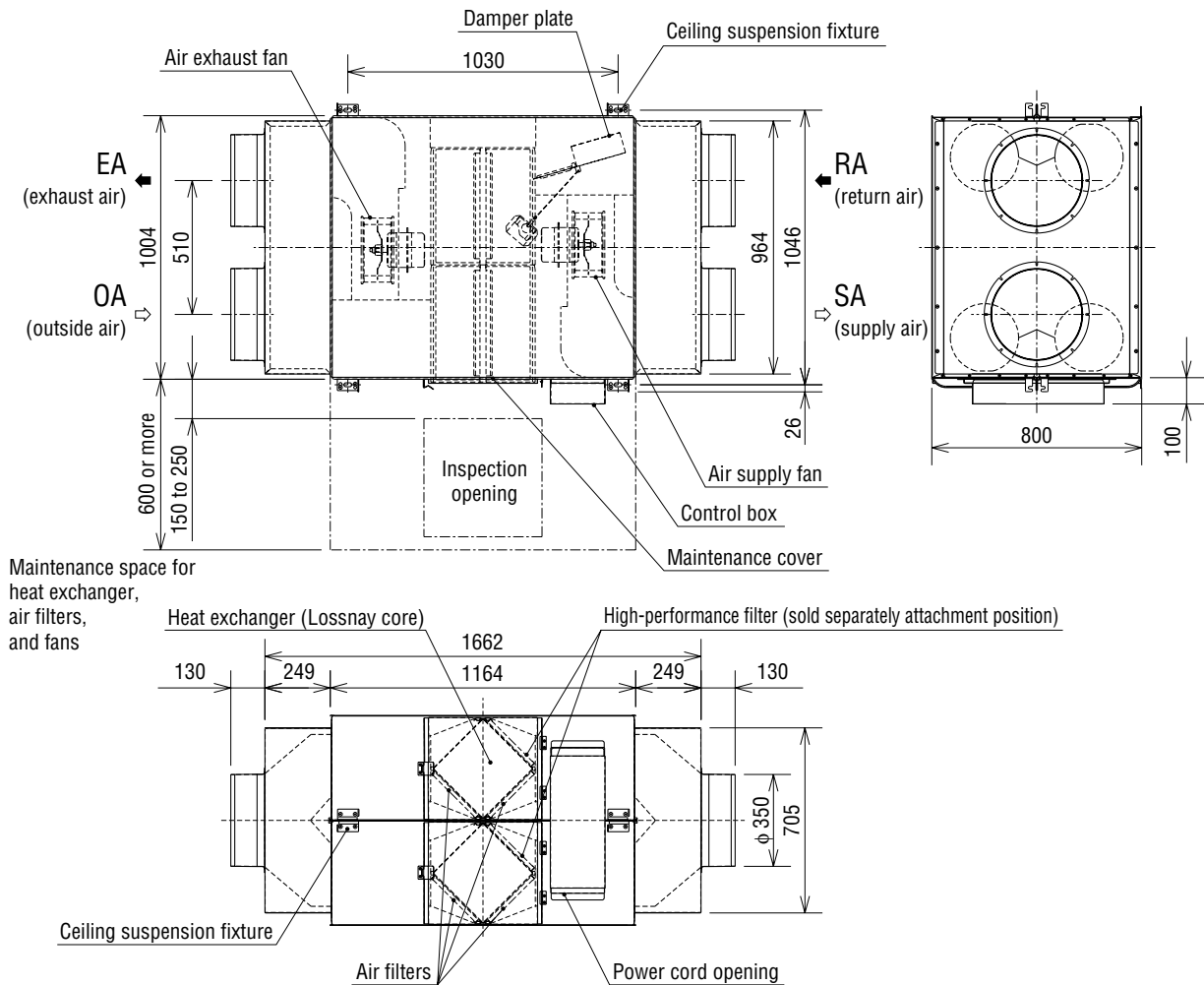
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-150RX ₃	
	NUMBER	No. ND101068		1/4

■ Drawings and Dimensions



	UNIT	SCALE
	mm	N.T.S

* Attention

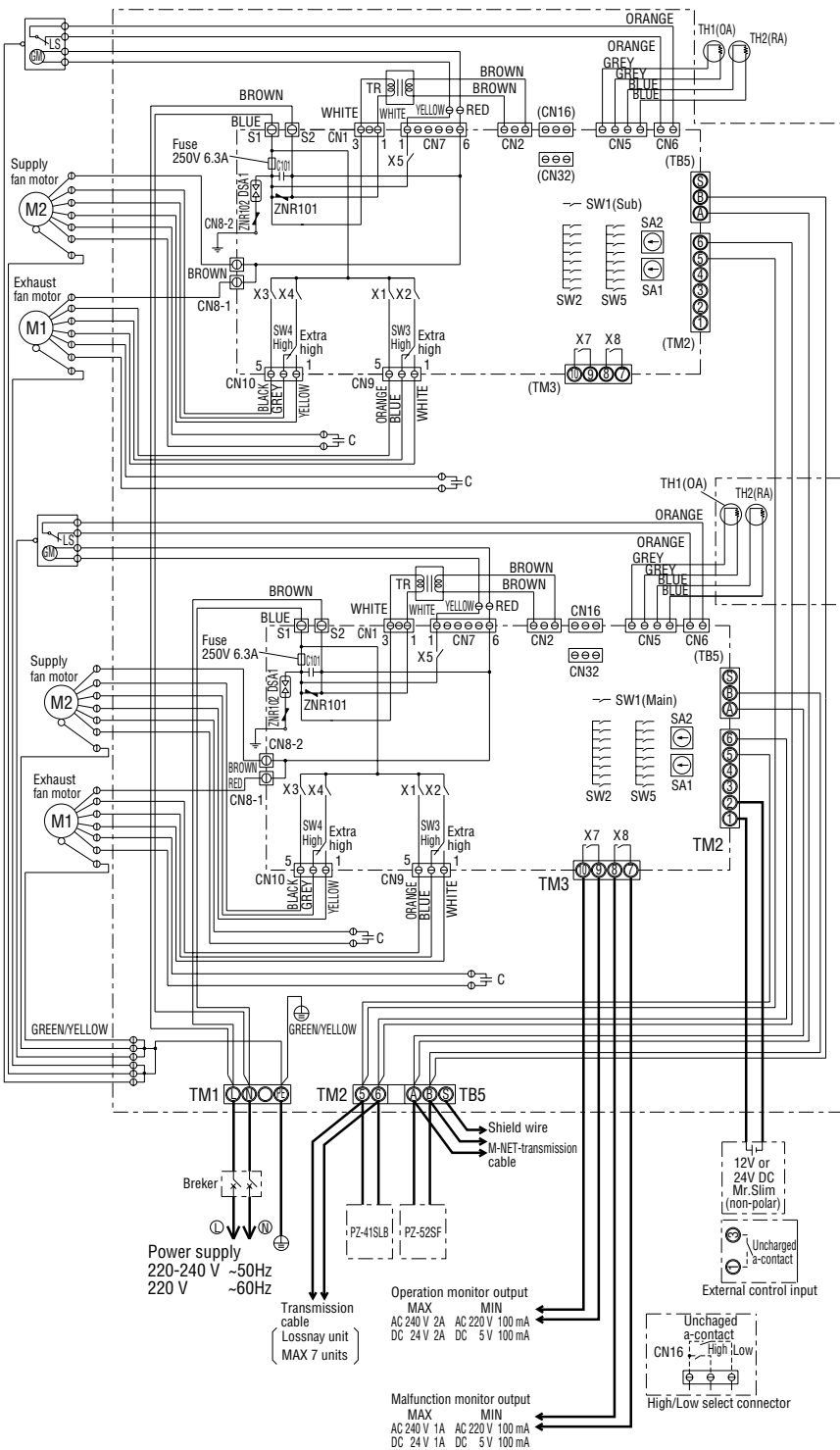
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filters and Lossnay cores removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-150RX ₃	
	17-Jun.-01		NUMBER	No. ND101068
MITSUBISHI ELECTRIC CORPORATION				

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

■ Symbol explanation

- M1 : Motor for exhaust fan
- M2 : Motor for supply fan
- C : Capacitor
- GM : Motor for Bypass movement
- LS : Microswitch
- TH1 : Thermistor for outside air
- TH2 : Thermistor for return air
- SW1 : Switch (Main/Sub change)
- SW2, 5: Switch (Function selection)
- SW3 : High/E.high select switch (Exhaust fan)
- SW4 : High/E.high select switch (Supply fan)
- TM1 : Terminal block (Power supply)
- TM2 : Terminal block (Transmission cable and external control input)
- TM3 : Terminal block (Monitor output)
- *1 TB5 : Terminal block (M-NET Transmission cable)
- S1, S2: Connector (Power supply)
- TR : Control circuit transformer
- X7 : Relay contact (For operation monitor output)
- X8 : Relay contact (For malfunction monitor output)
- CN1 : Connector (Transformer primary)
- CN2 : Connector (Transformer secondary)
- CN5 : Connector (Thermistor)
- CN6 : Connector (Microswitch)
- CN7 : Connector (Motor for Bypass operation)
- CN8-1: Tab connector (Fan motor)
- CN8-2: Tab connector (Fan motor)
- CN9 : Connector (Fan motor)
- CN10: Connector (Fan motor)
- CN16: Connector (High/Low switch)
- CN32: Connector (Remote control selection)
- *1 SA1 : Address setting rotary switch (10 digit)
- *1 SA2 : Address setting rotary switch (1 digit)

MARK

- : Indicates terminal block
- ⊙ : Connector
- Ⓛ : Board insertion connector or fastening connector of control board

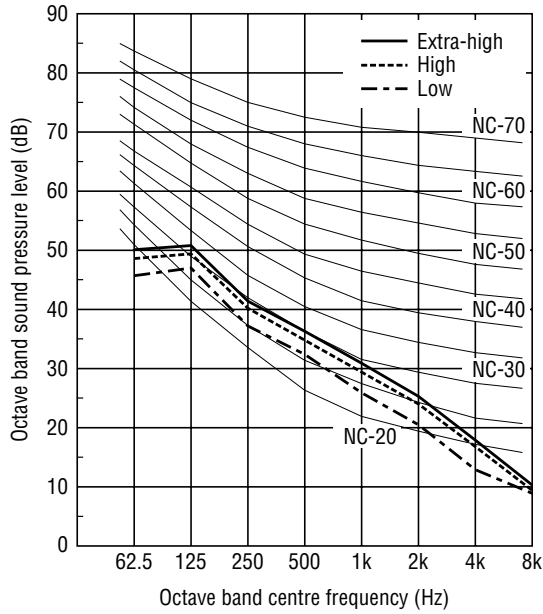
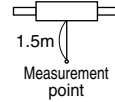
* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-150RX3	
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101068	3/4	

■ NC Curves

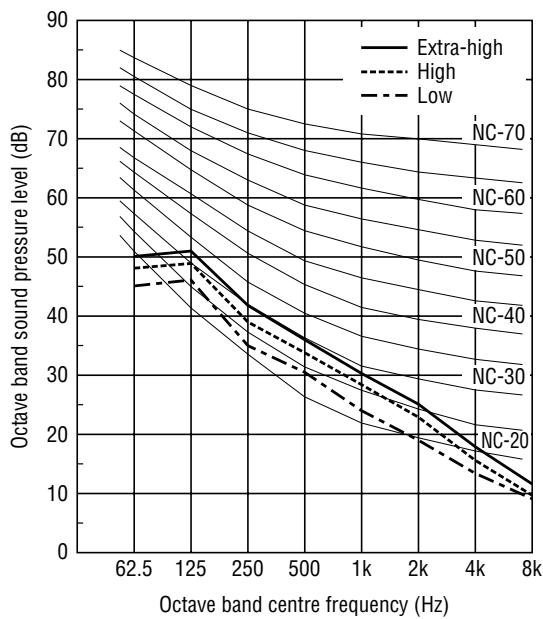
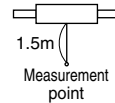
50Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



60Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



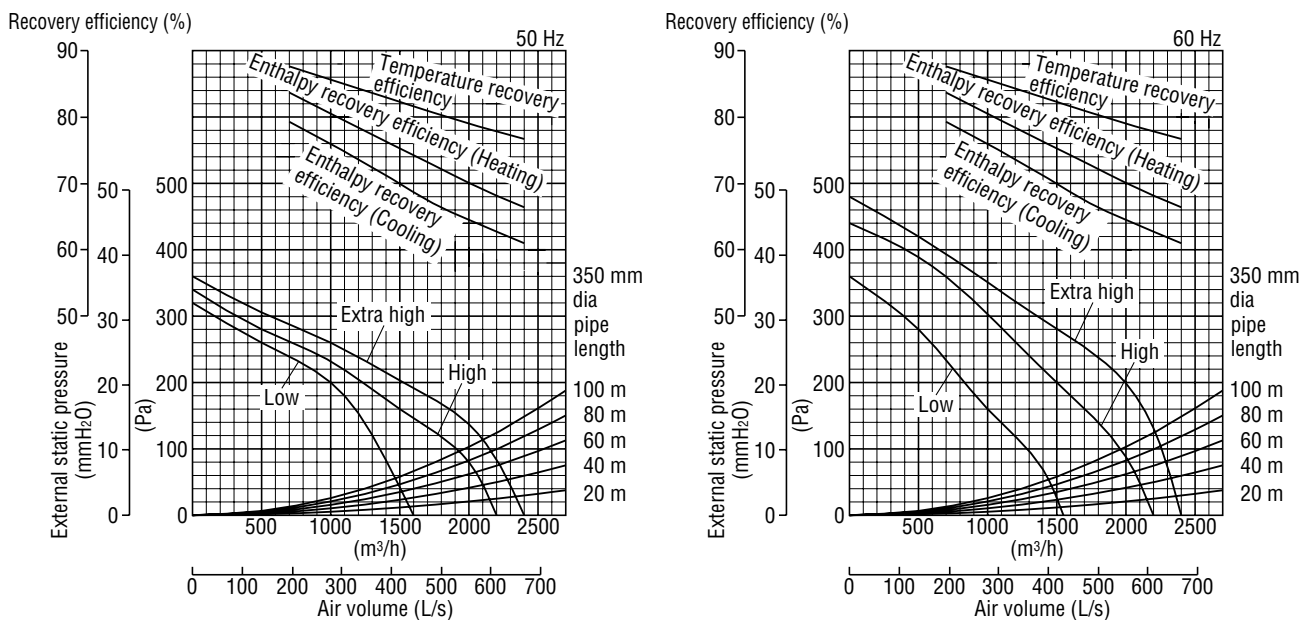
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-150RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION		NUMBER	No. ND101068	4/4

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-200RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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, 4 units												
Blower	245 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	179 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	4.6-4.3	4.6-4.3	4.1-3.8	4.4-4.2	4.4-4.1	4.1-3.8	5.4	5.2	3.3	5.3	5.0	3.3	
Power consumption [W]	1000-1020	995-1020	900-905	960-995	955-975	885-900	1175	1130	735	1155	1090	720	
Air volume	[m ³ /h]	2000	2000	1400	2000	2000	1400	2000	2000	1400	2000	2000	1400
	[L/s]	556	556	389	556	556	389	556	556	389	556	556	389
External static pressure	[mmH ₂ O]	14.0	8.2	8.5	14.0	8.2	8.5	20.0	9.0	7.0	20.0	9.0	7.0
	[Pa]	137	80	83	137	80	83	196	88	69	196	88	69
Temperature recovery efficiency [%]		79	79	83	-	-	-	79	79	83	-	-	-
Enthalpy recovery efficiency (%)	Heating	70	70	76	-	-	-	70	70	76	-	-	-
	Cooling	64.5	64.5	71	-	-	-	64.5	64.5	71	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	39-40	37-38	35.5-36.5	39.5-40.5	37.5-38.5	36-37	38.5	36.5	34.5	38.5	36.5	34.5
	Air outlets	50-51	48-49	46.5-47.5	50.5-51.5	48.5-49.5	47-48	49.5	47.5	45.5	49.5	47.5	45.5
Starting current	Under 13.0/9.7 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

■ Characteristic Curves



* Attention

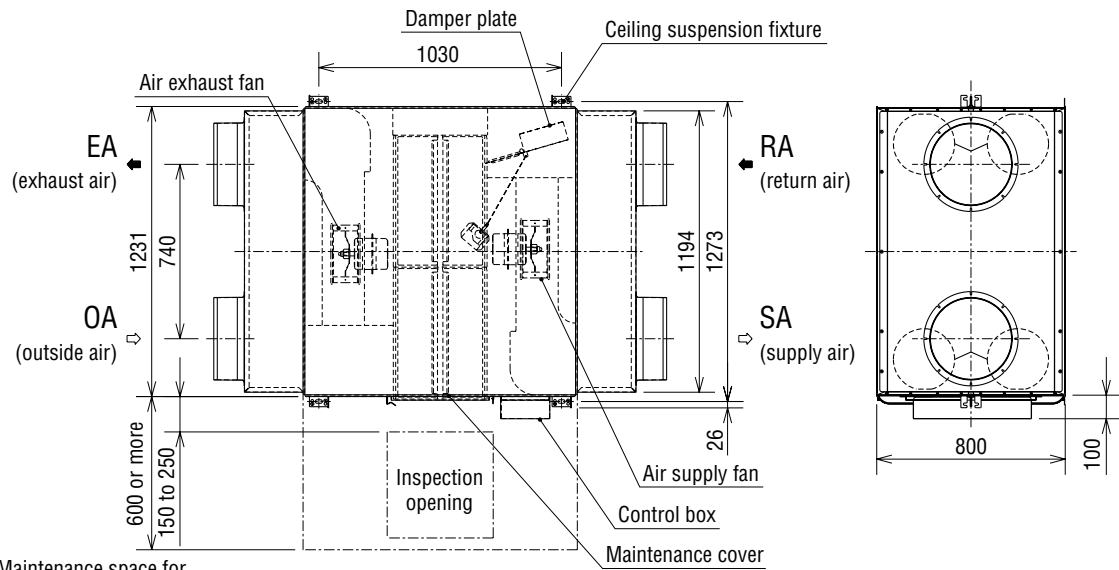
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

The main unit switch must be used to select the Extra high fan speed.

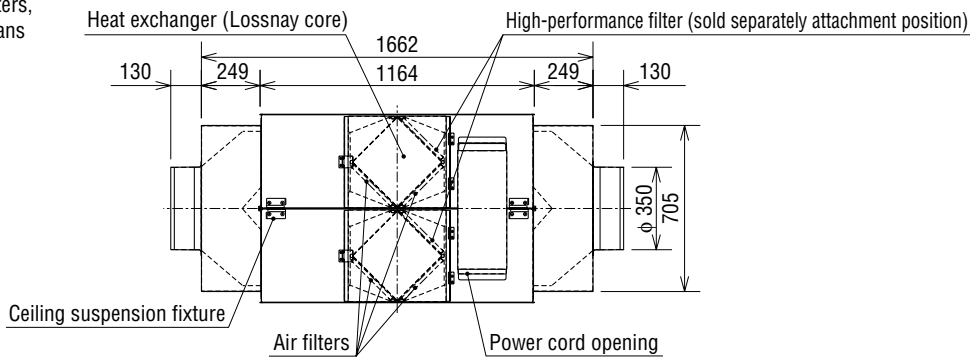
* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-200RX ₃	
	NUMBER	No. ND101069		1/4

■ Drawings and Dimensions



Maintenance space for heat exchanger, air filters, and fans



	UNIT	SCALE
	mm	N.T.S

* Attention

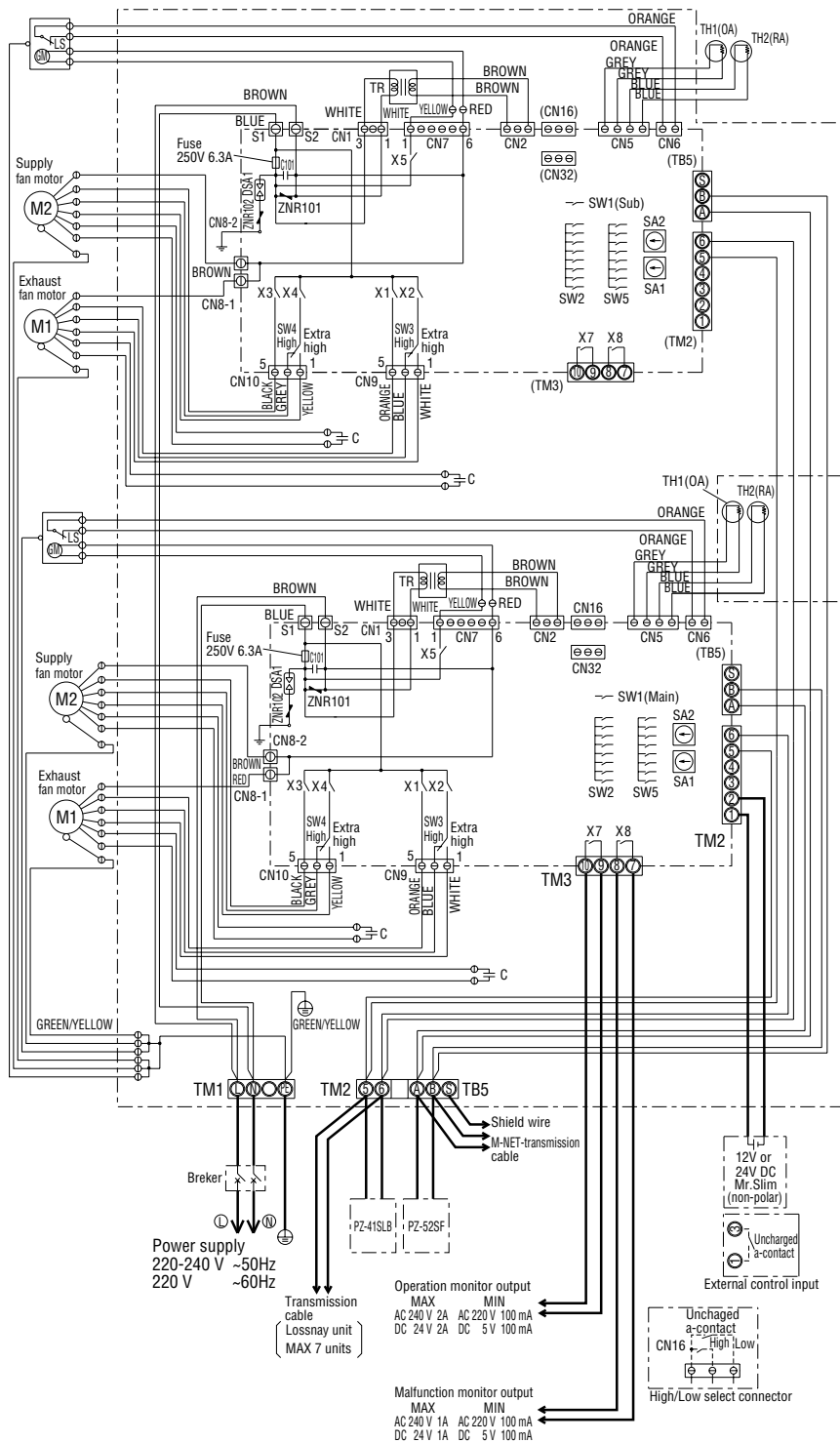
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filters and Lossnay cores removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-200RX ₃	
	17-Jun.-01		NUMBER	No. ND101069
MITSUBISHI ELECTRIC CORPORATION				

Schematic

- NOTE**
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



Symbol explanation

- M1 : Motor for exhaust fan
 - M2 : Motor for supply fan
 - C : Capacitor
 - GM : Motor for Bypass movement
 - LS : Microswitch
 - TH1 : Thermistor for outside air
 - TH2 : Thermistor for return air
 - SW1 : Switch (Main/Sub change)
 - SW2, 5: Switch (Function selection)
 - SW3 : High/E.high select switch (Exhaust fan)
 - SW4 : High/E.high select switch (Supply fan)
 - TM1 : Terminal block (Power supply)
 - TM2 : Terminal block (Transmission cable and external control input)
 - TM3 : Terminal block (Monitor output)
 - *1 TB5 : Terminal block (M-NET Transmission cable)
 - S1, S2: Connector (Power supply)
 - TR : Control circuit transformer
 - X7 : Relay contact (For operation monitor output)
 - X8 : Relay contact (For malfunction monitor output)
 - CN1 : Connector (Transformer primary)
 - CN2 : Connector (Transformer secondary)
 - CN5 : Connector (Thermistor)
 - CN6 : Connector (Microswitch)
 - CN7 : Connector (Motor for Bypass operation)
 - CN8-1: Tab connector (Fan motor)
 - CN8-2: Tab connector (Fan motor)
 - CN9 : Connector (Fan motor)
 - CN10: Connector (Fan motor)
 - CN16: Connector (High/Low switch)
 - CN32: Connector (Remote control selection)
 - *1 SA1 : Address setting rotary switch (10 digit)
 - *1 SA2 : Address setting rotary switch (1 digit)
- MARK**
- : Indicates terminal block
 - ⊙ : Connector
 - Ⓛ : Board insertion connector or fastening connector of control board

* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

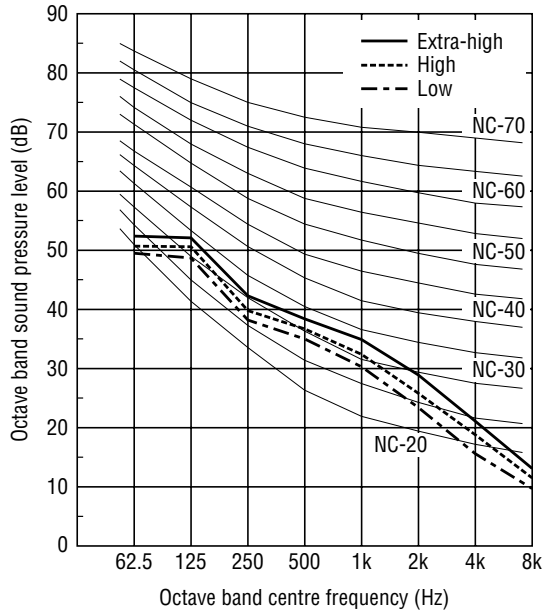
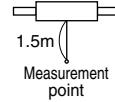
* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-200RX3	
	17-Jun.-01		NUMBER	No. ND101069
MITSUBISHI ELECTRIC CORPORATION				

■ NC Curves

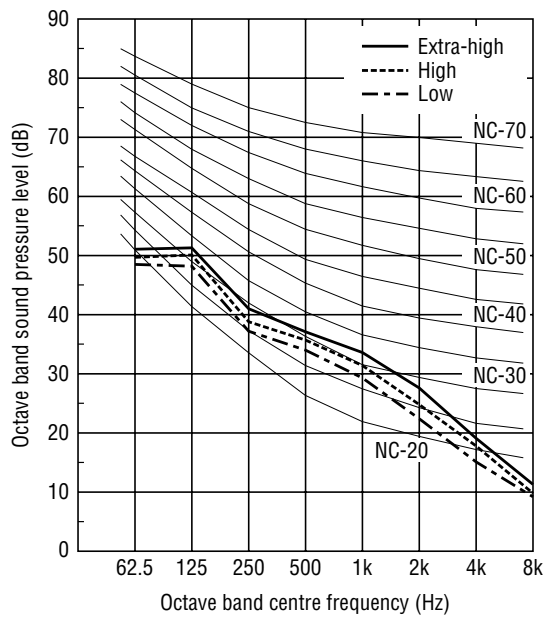
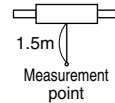
50Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



60Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



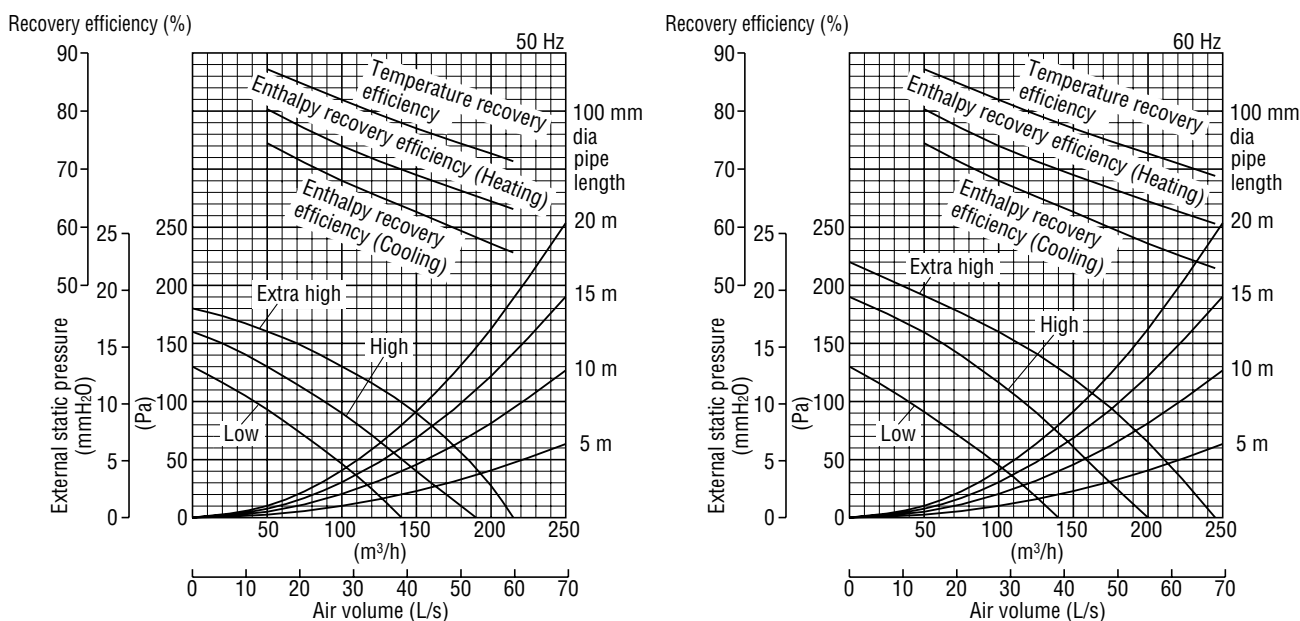
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-200RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION		NUMBER	No. ND101069	4/4

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-15RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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	180 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	17 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	0.48-0.52	0.34-0.35	0.24-0.25	0.48-0.52	0.34-0.36	0.24-0.25	0.57	0.39	0.27	0.58	0.40	0.27	
Power consumption [W]	104-122	74-83	52-59	104-123	74-85	52-59	119	85	58	120	85	58	
Air volume	[m ³ /h]	150	150	120	150	150	120	150	150	110	150	150	110
	[L/s]	42	42	33	42	42	33	42	42	31	42	42	31
External static pressure	[mmH ₂ O]	9.2	4.1	2.6	9.2	4.1	2.6	12.2	6.1	3.6	12.2	6.1	3.6
	[Pa]	90	40	25	90	40	25	120	60	35	120	60	35
Temperature recovery efficiency [%]		77	77	80	-	-	-	77	77	81	-	-	-
Enthalpy recovery efficiency (%)	Heating	69	69	72	-	-	-	69	69	73	-	-	-
	Cooling	62.5	62.5	66	-	-	-	62.5	62.5	67	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	26-27	24-25	21-22	26-27	24-25	21-22	28	25	22	28	25.5	22
	Air outlets	33-34	31-32	26-27	33-34	31-32	26-27	35	32	27	35	32.5	27
Starting current	Under 0.8/0.7 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

Characteristic Curves



* Attention

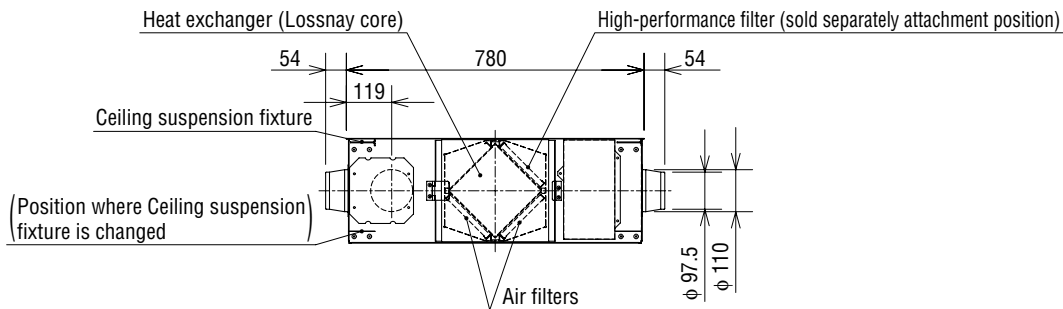
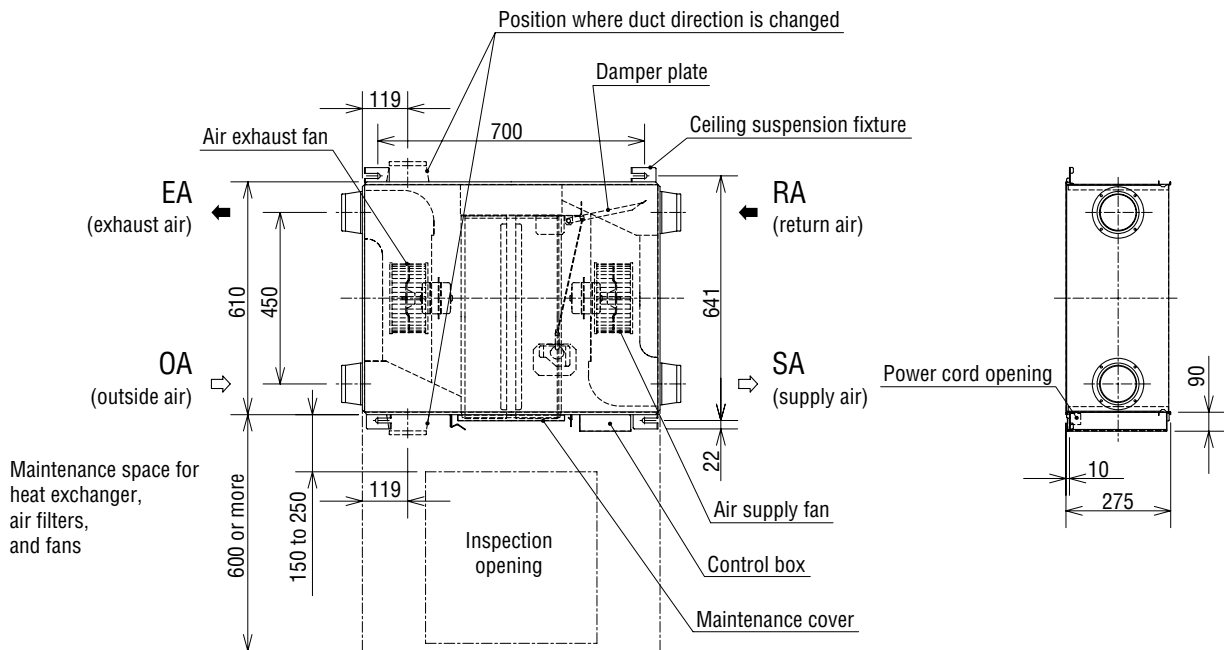
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-15RX ₃	
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101062		1/4

■ Drawings and Dimensions



	UNIT	SCALE
	mm	N.T.S

* Attention

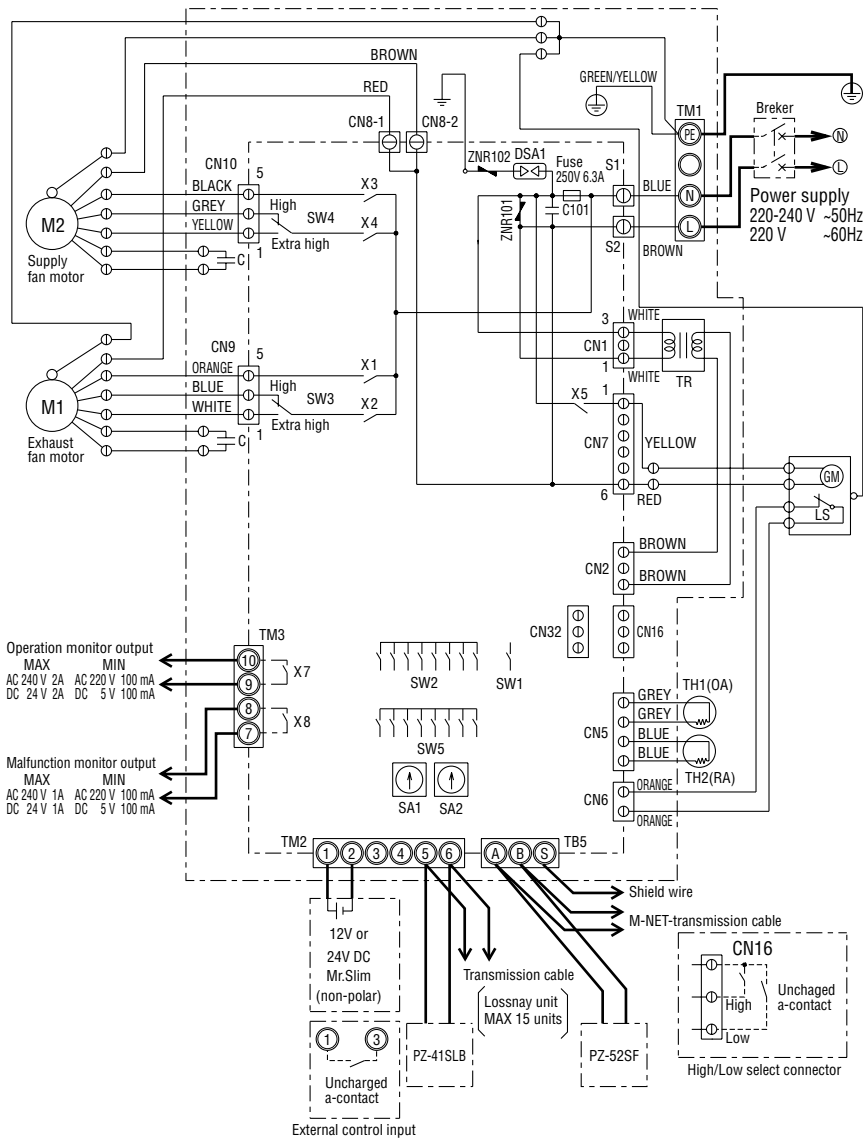
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filter and Lossnay core removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-15RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101062	2/4	

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



■ Symbol explanation

- M1 : Motor for exhaust fan
M2 : Motor for supply fan
C : Capacitor
GM : Motor for Bypass movement
LS : Microswitch
TH1 : Thermistor for outside air
TH2 : Thermistor for return air
SW1 : Switch (Main/Sub change)
SW2, 5: Switch (Function selection)
SW3 : High/E.high select switch (Exhaust fan)
SW4 : High/E.high select switch (Supply fan)
TM1 : Terminal block (Power supply)
TM2 : Terminal block (Transmission cable and external control input)
TM3 : Terminal block (Monitor output)
*1 TB5 : Terminal block (M-NET Transmission cable)
S1, S2 : Connector (Power supply)
TR : Control circuit transformer
X7 : Relay contact (For operation monitor output)
X8 : Relay contact (For malfunction monitor output)
CN1 : Connector (Transformer primary)
CN2 : Connector (Transformer secondary)
CN5 : Connector (Thermistor)
CN6 : Connector (Microswitch)
CN7 : Connector (Motor for Bypass operation)
CN8-1 : Tab connector (Fan motor)
CN8-2 : Tab connector (Fan motor)
CN9 : Connector (Fan motor)
CN10 : Connector (Fan motor)
CN16 : Connector (High/Low switch)
CN32 : Connector (Remote control selection)
*1 SA1 : Address setting rotary switch (10 digit)
*1 SA2 : Address setting rotary switch (1 digit)

MARK

- : Indicates terminal block
⊙ : Connector
Ⓢ : Board insertion connector or fastening connector of control board

* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

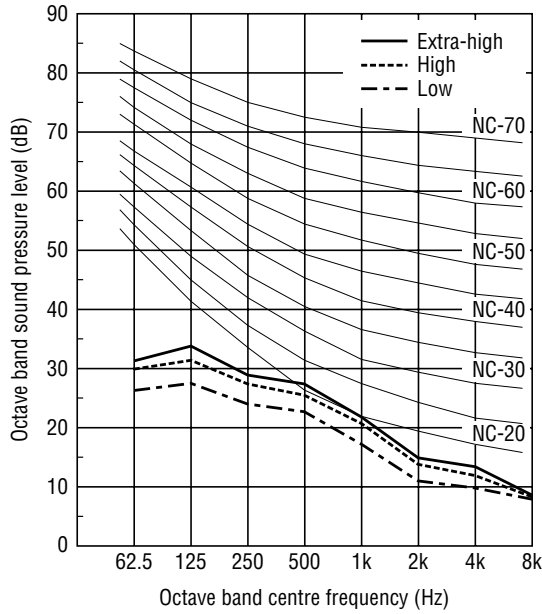
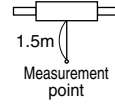
* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-15RX3	
MITSUBISHI ELECTRIC CORPORATION		NUMBER	No. ND101062	3/4

■ NC Curves

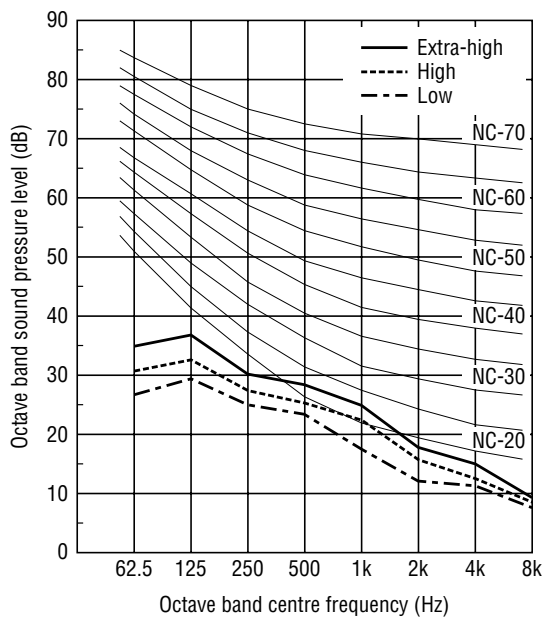
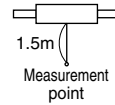
50Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



60Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



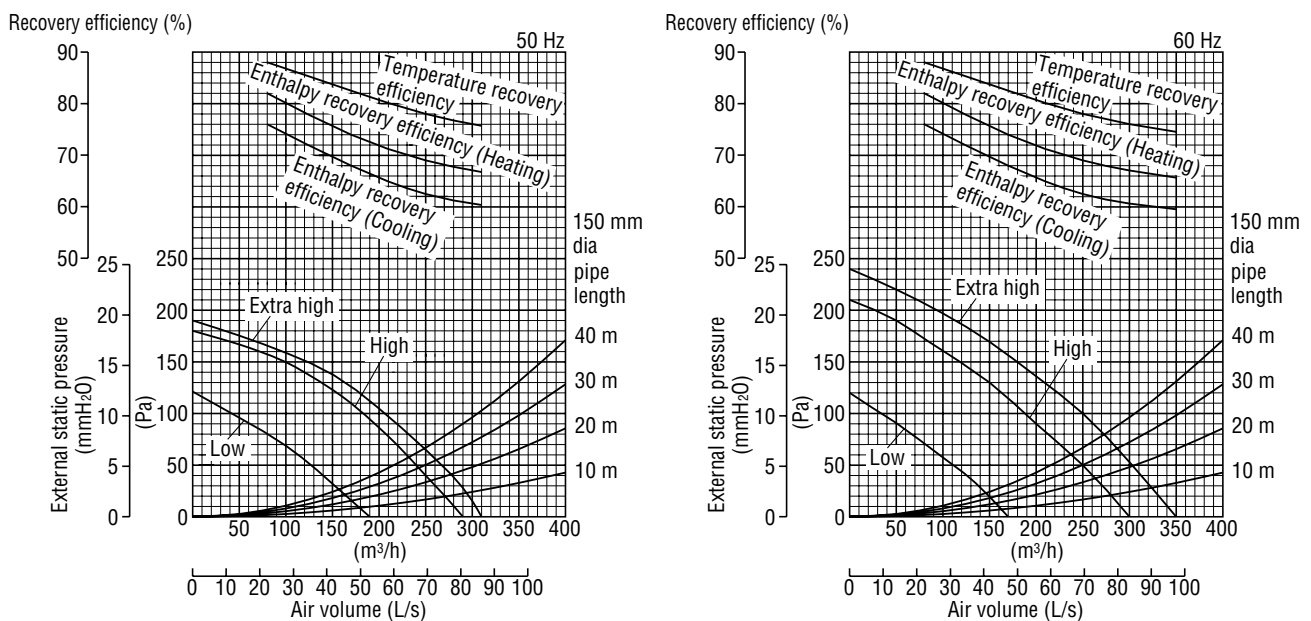
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-15RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION		NUMBER	No. ND101062	4/4

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-25RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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	180 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	21 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	0.51-0.54	0.42-0.44	0.25-0.27	0.52-0.55	0.42-0.45	0.25-0.27	0.63	0.49	0.28	0.63	0.50	0.27	
Power consumption [W]	111-128	91-104	54-64	112-130	91-105	54-64	131	106	60	132	107	58	
Air volume	[m ³ /h]	250	250	165	250	250	165	250	250	150	250	250	150
	[L/s]	69	69	46	69	69	46	69	69	42	69	69	42
External static pressure	[mmH ₂ O]	6.6	4.1	2.0	6.6	4.1	2.0	10.2	5.1	2.0	10.2	5.1	2.0
	[Pa]	65	40	20	65	40	20	100	50	20	100	50	20
Temperature recovery efficiency [%]		78	78	83	-	-	-	78	78	84	-	-	-
Enthalpy recovery efficiency (%)	Heating	69	69	74	-	-	-	69	69	75	-	-	-
	Cooling	62.5	62.5	68	-	-	-	62.5	62.5	70	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	26.5-27.5	25-26	21-22	27-28	25.5-26.5	21-22	28.5	25.5	21	29	26	21
	Air outlets	33.5-34.5	32-33	26-27	34-35	32.5-33.5	26-27	35.5	32.5	26	36	33	26
Starting current	Under 0.8/0.7 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

Characteristic Curves



* Attention

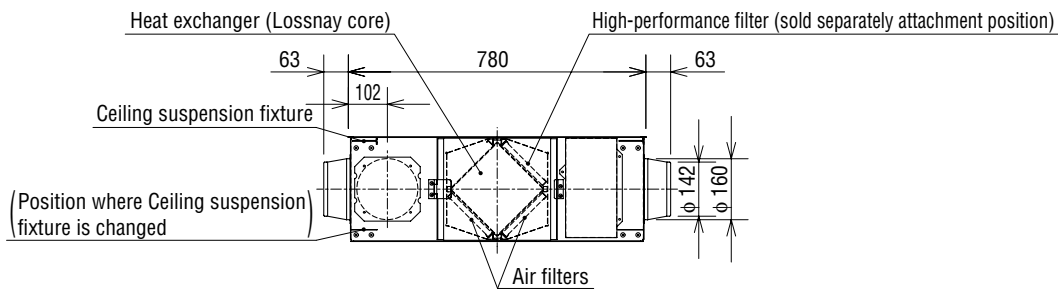
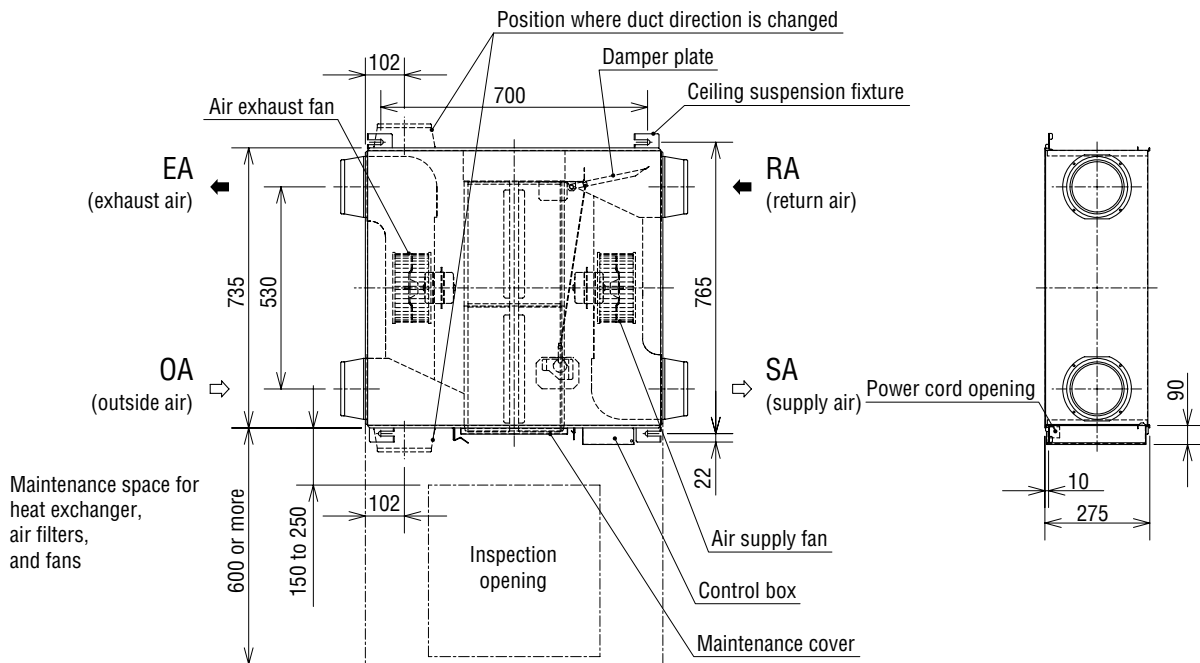
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

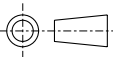
The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-25RX ₃	
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101063		1/4

■ Drawings and Dimensions




	UNIT	SCALE
	mm	N.T.S

* Attention

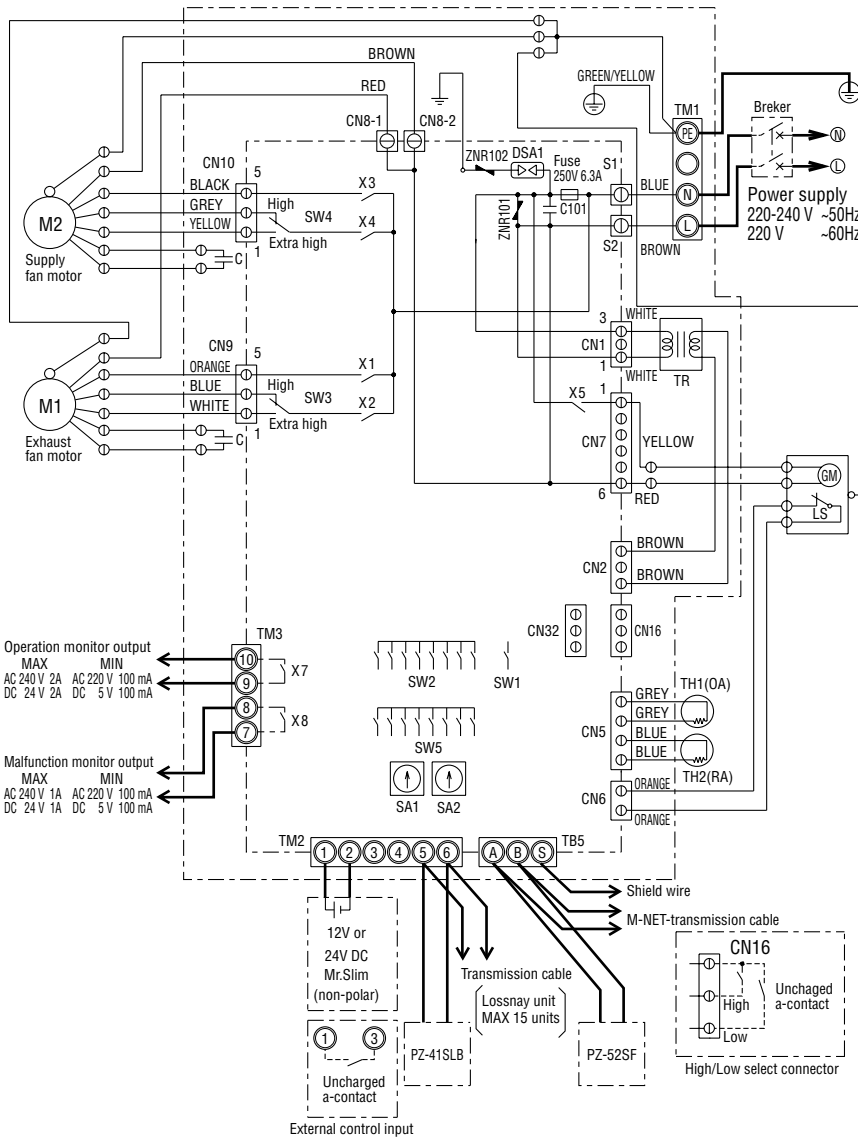
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filters and Lossnay cores removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-25RX ₃	
	17-Jun.-01		NUMBER	No. ND101063
 MITSUBISHI ELECTRIC CORPORATION				

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



■ Symbol explanation

- M1 : Motor for exhaust fan
- M2 : Motor for supply fan
- C : Capacitor
- GM : Motor for Bypass movement
- LS : Microswitch
- TH1 : Thermistor for outside air
- TH2 : Thermistor for return air
- SW1 : Switch (Main/Sub change)
- SW2, 5: Switch (Function selection)
- SW3 : High/E.high select switch (Exhaust fan)
- SW4 : High/E.high select switch (Supply fan)
- TM1 : Terminal block (Power supply)
- TM2 : Terminal block (Transmission cable and external control input)
- TM3 : Terminal block (Monitor output)
- *1 TB5 : Terminal block (M-NET Transmission cable)
- S1, S2: Connector (Power supply)
- TR : Control circuit transformer
- X7 : Relay contact (For operation monitor output)
- X8 : Relay contact (For malfunction monitor output)
- CN1 : Connector (Transformer primary)
- CN2 : Connector (Transformer secondary)
- CN5 : Connector (Thermistor)
- CN6 : Connector (Microswitch)
- CN7 : Connector (Motor for Bypass operation)
- CN8-1: Tab connector (Fan motor)
- CN8-2: Tab connector (Fan motor)
- CN9 : Connector (Fan motor)
- CN10: Connector (Fan motor)
- CN16: Connector (High/Low switch)
- CN32: Connector (Remote control selection)
- *1 SA1 : Address setting rotary switch (10 digit)
- *1 SA2 : Address setting rotary switch (1 digit)

MARK

- : Indicates terminal block
- ⊙ : Connector
- Ⓢ : Board insertion connector or fastening connector of control board

* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

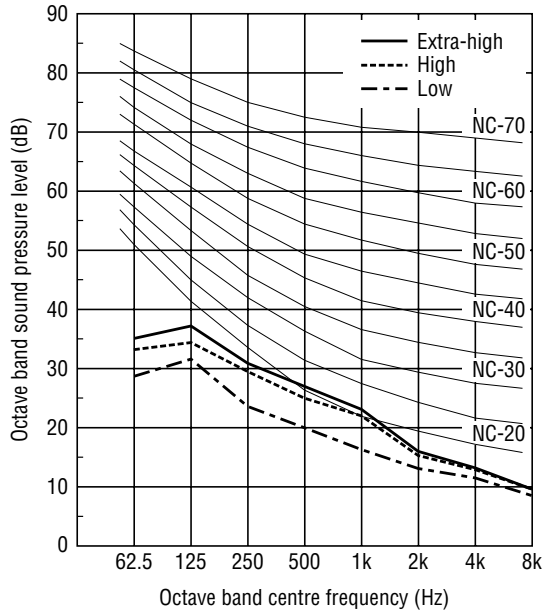
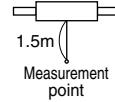
* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-25RX ₃	
	17-Jun.-01		NUMBER	No. ND101063
MITSUBISHI ELECTRIC CORPORATION				

■ NC Curves

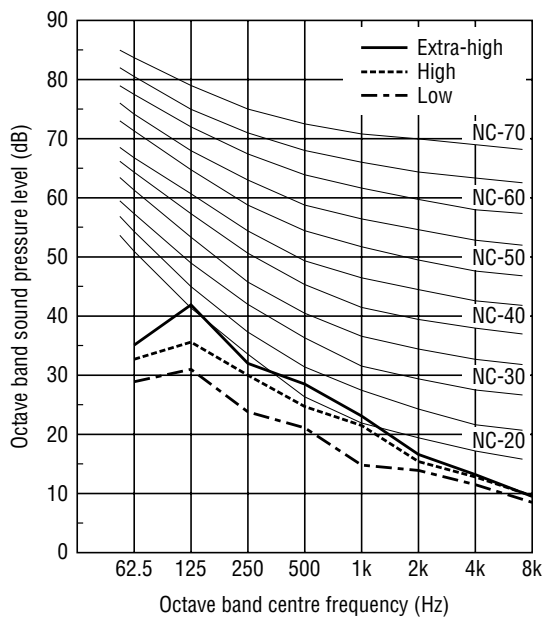
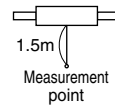
50Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



60Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



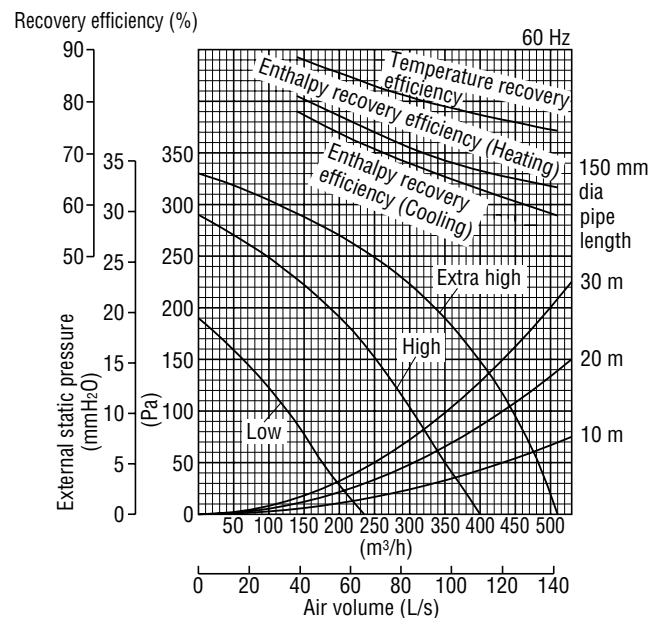
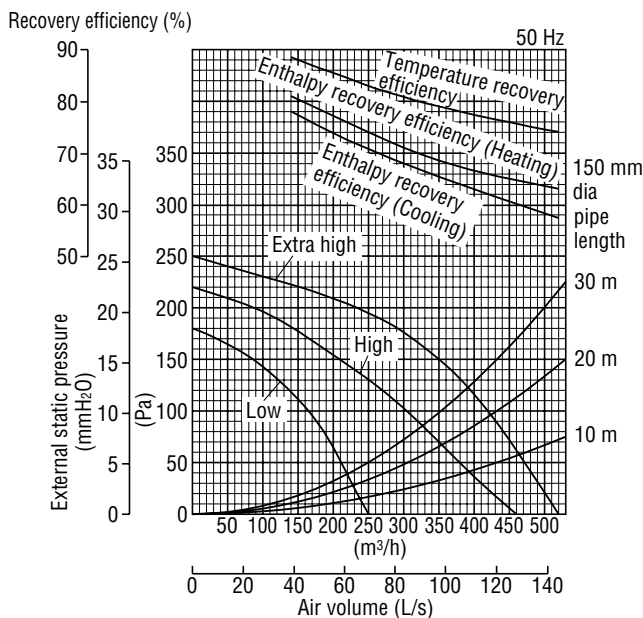
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-25RX ₃	
	17-Jun.-01			
		NUMBER	No. ND101063	4/4

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-35RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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	220 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	30 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	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	0.83	0.46	1.00	0.83	0.46	
Power consumption [W]	169-187	154-167	97-110	176-192	156-172	97-111	215	180	97	217	180	97	
Air volume	[m ³ /h]	350	350	230	350	350	230	350	350	210	350	320	210
	[L/s]	97	97	64	97	97	64	97	97	58	97	89	58
External static pressure	[mmH ₂ O]	15.3	7.1	2.6	15.3	7.1	2.7	19.4	5.1	2.0	19.4	5.1	2.0
	[Pa]	150	70	25	150	70	26	190	50	20	190	50	20
Temperature recovery efficiency [%]		79	79	84	-	-	-	79	79	85	-	-	-
Enthalpy recovery efficiency (%)	Heating	68.5	68.5	75.5	-	-	-	68.5	68.5	76.5	-	-	-
	Cooling	65.5	65.5	72	-	-	-	65.5	65.5	73	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	31-32	28-30	23-24	31.5-32.5	28-30	23-24	32.5	27	21	33.5	28	21
	Air outlets	39-40	35-37	29-30	39.5-40.5	35-37	29-30	40.5	34	27	41.5	35	27
Starting current	Under 1.6/1.5 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

■ Characteristic Curves




* Attention

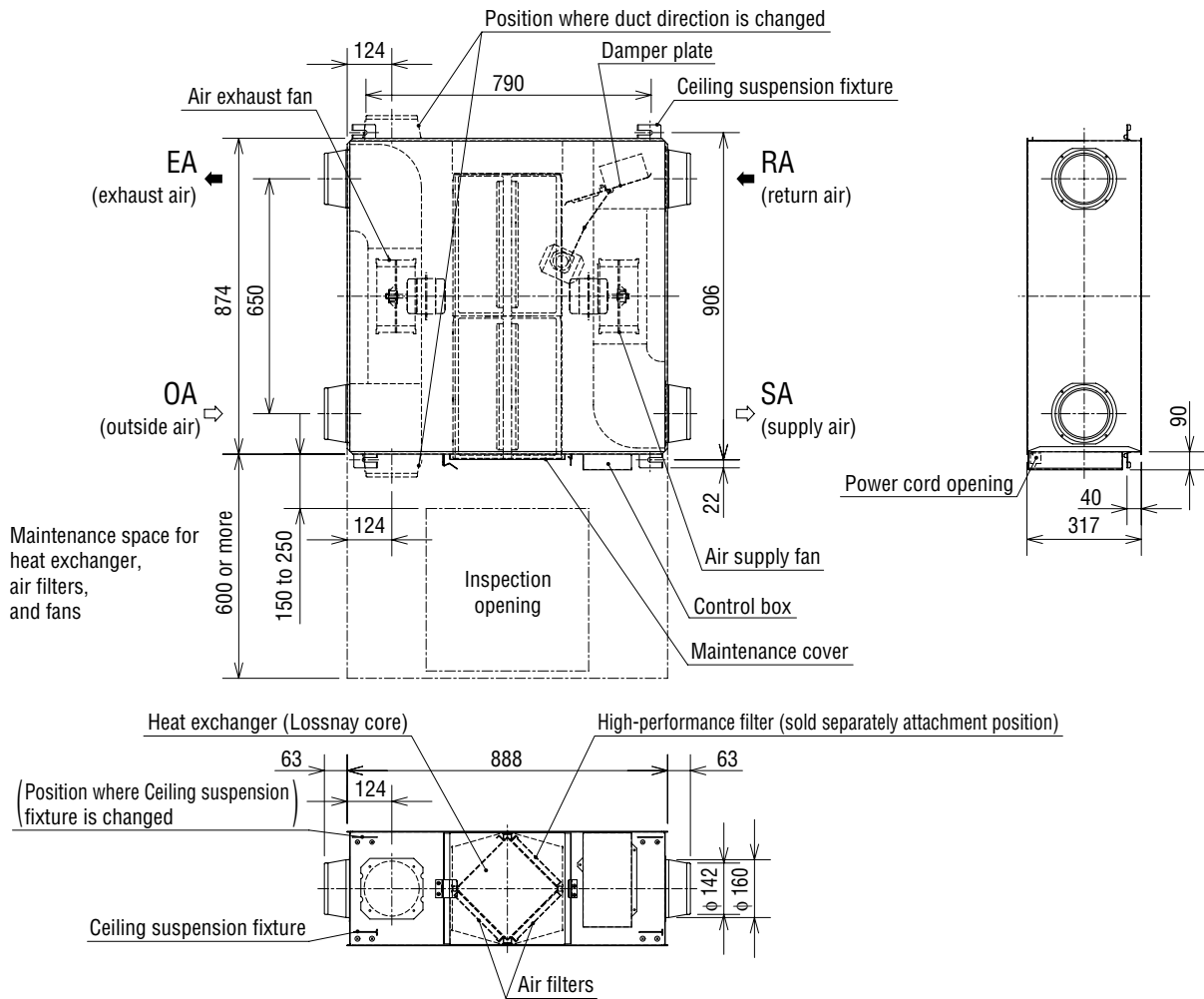
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-35RX ₃	
 MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101064	1/4	

■ Drawings and Dimensions



	UNIT	SCALE
	mm	N.T.S

* Attention

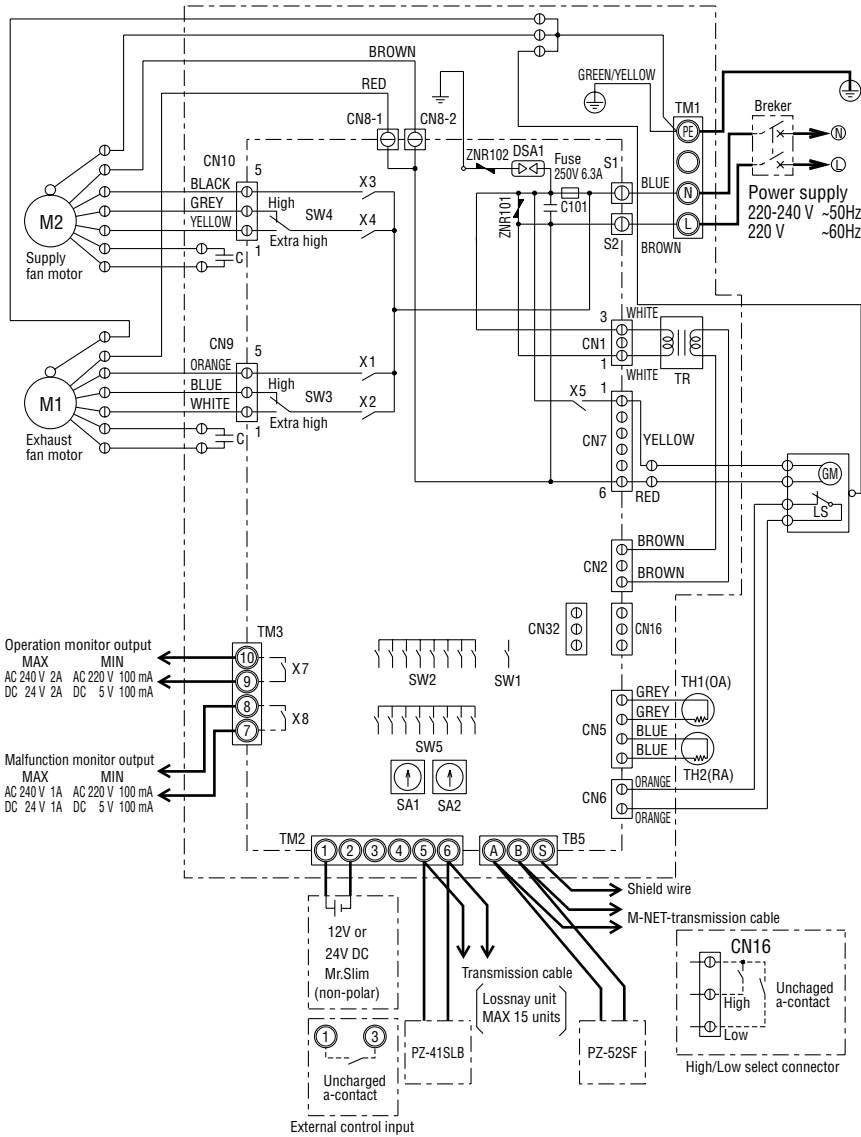
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filters and Lossnay cores removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-35RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101064	2/4	

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



■ Symbol explanation

- M1 : Motor for exhaust fan
M2 : Motor for supply fan
C : Capacitor
GM : Motor for Bypass movement
LS : Microswitch
TH1 : Thermistor for outside air
TH2 : Thermistor for return air
SW1 : Switch (Main/Sub change)
SW2, 5: Switch (Function selection)
SW3 : High/E.high select switch (Exhaust fan)
SW4 : High/E.high select switch (Supply fan)
TM1 : Terminal block (Power supply)
TM2 : Terminal block (Transmission cable and external control input)
TM3 : Terminal block (Monitor output)
*1 TB5 : Terminal block (M-NET Transmission cable)
S1, S2 : Connector (Power supply)
TR : Control circuit transformer
X7 : Relay contact (For operation monitor output)
X8 : Relay contact (For malfunction monitor output)
CN1 : Connector (Transformer primary)
CN2 : Connector (Transformer secondary)
CN5 : Connector (Thermistor)
CN6 : Connector (Microswitch)
CN7 : Connector (Motor for Bypass operation)
CN8-1 : Tab connector (Fan motor)
CN8-2 : Tab connector (Fan motor)
CN9 : Connector (Fan motor)
CN10 : Connector (Fan motor)
CN16 : Connector (High/Low switch)
CN32 : Connector (Remote control selection)
*1 SA1 : Address setting rotary switch (10 digit)
*1 SA2 : Address setting rotary switch (1 digit)

MARK

- : Indicates terminal block
⊙ : Connector
Ⓢ : Board insertion connector or fastening connector of control board

* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

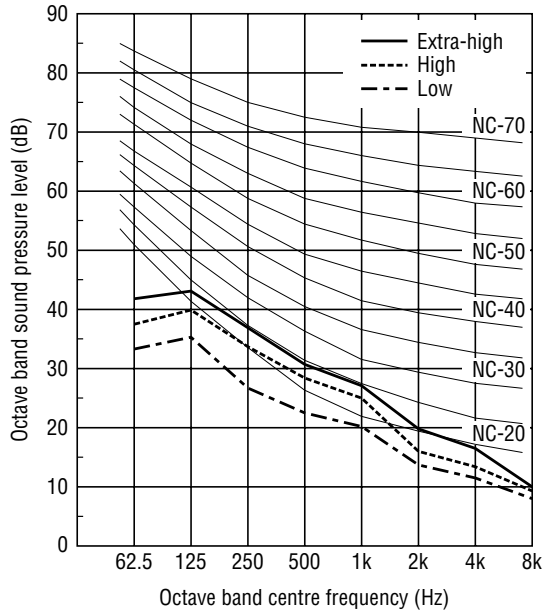
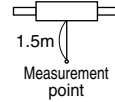
* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-35RX ₃	
	17-Jun.-01		NUMBER	No. ND101064
MITSUBISHI ELECTRIC CORPORATION				

■ NC Curves

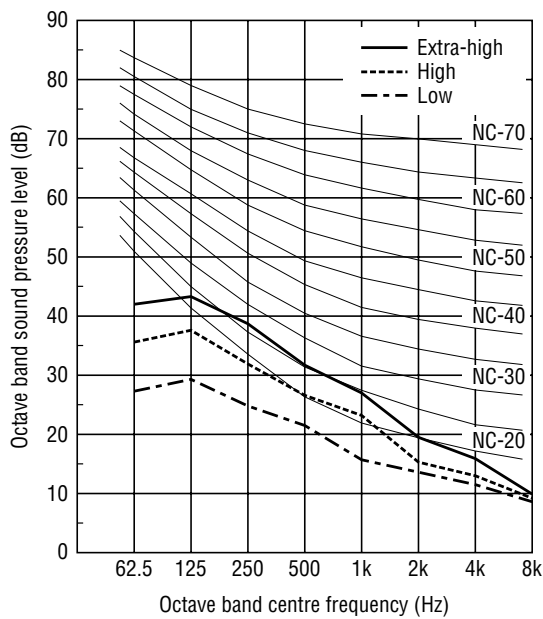
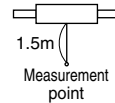
50Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



60Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



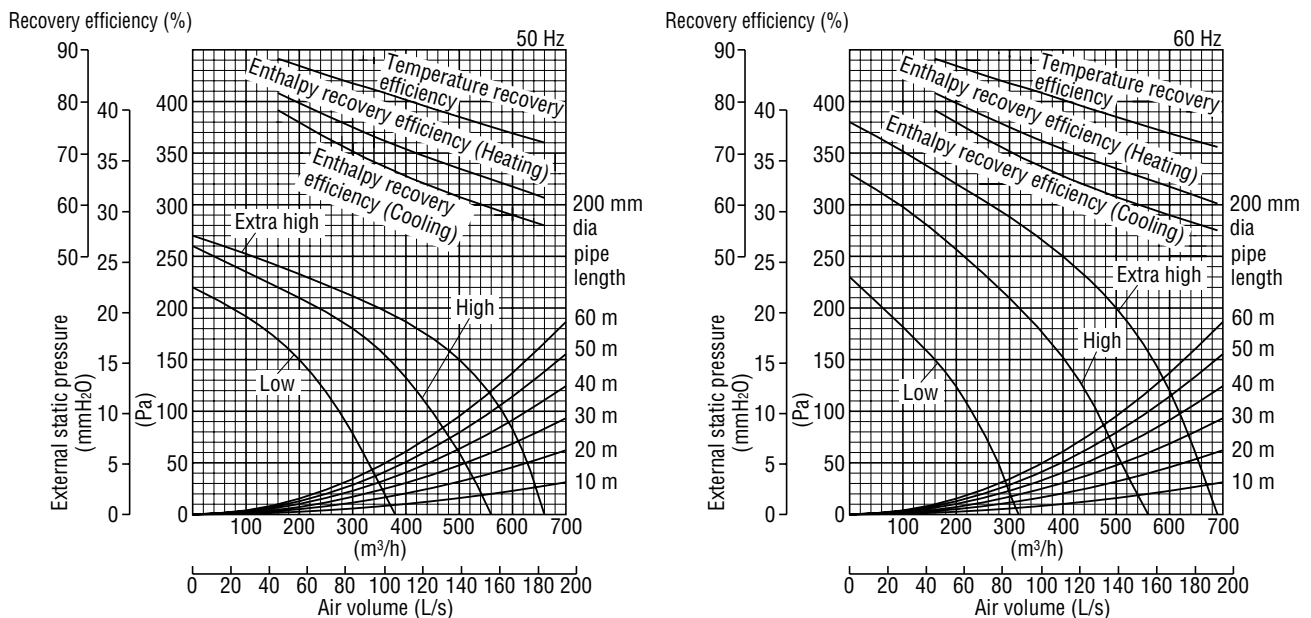
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-35RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101064	4/4	

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-50RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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	222 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82 %)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	33 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	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	1.05	0.60	1.22	1.05	0.60	
Power consumption [W]	204-225	193-214	123-142	206-228	196-221	125-142	262	231	130	263	228	130	
Air volume	[m ³ /h]	500	500	350	500	500	350	500	500	300	500	500	300
	[L/s]	139	139	97	139	139	97	139	139	83	139	139	83
External static pressure	[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
	[Pa]	150	60	30	150	60	30	200	60	20	200	60	20
Temperature recovery efficiency [%]		77	77	82	-	-	-	77	77	83.5	-	-	-
Enthalpy recovery efficiency (%)	Heating	67	67	73	-	-	-	67	67	75	-	-	-
	Cooling	61.5	61.5	68	-	-	-	61.5	61.5	70	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	32.5-33.5	30-31	23.5-24.5	33.5-34.5	30.5-31.5	23.5-24.5	32.5	28.5	23	33.5	29.5	23
	Air outlets	40.5-41.5	38-39	29.5-30.5	41.5-42.5	38.5-39.5	30.5-30.5	40.5	36.5	29	41.5	37.5	29
Starting current	Under 1.9/1.7 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

■ Characteristic Curves



* Attention

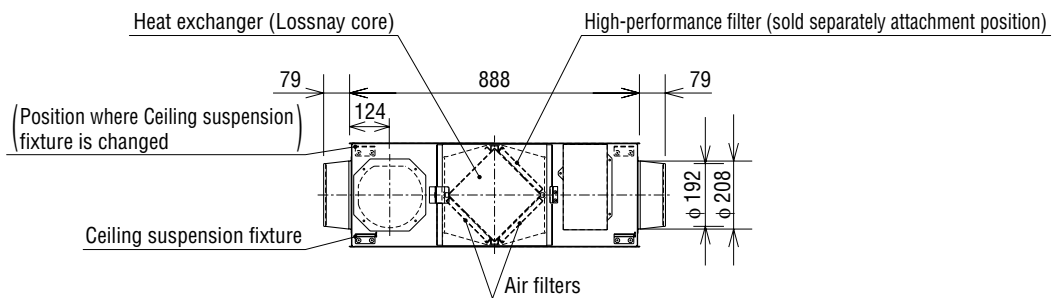
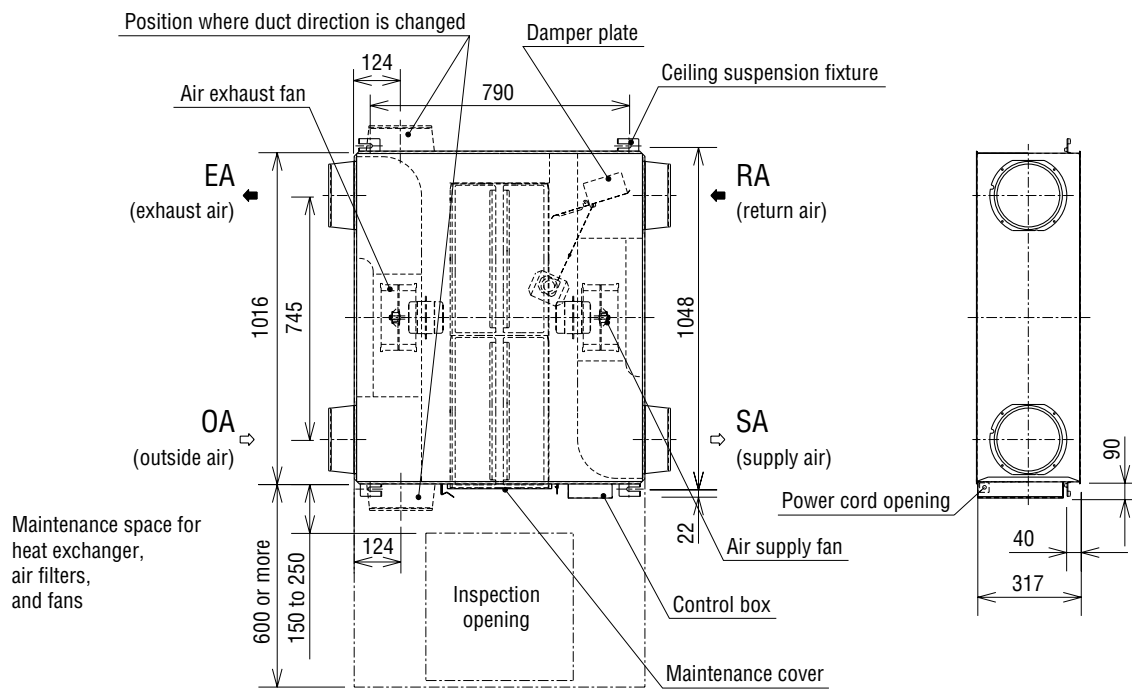
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

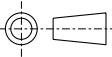
The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE	CEILING CONCEALED LOSSNAY	
	17-Jun.-01	MODEL	LGH-50RX ₃	
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101065		1/4

■ Drawings and Dimensions




	UNIT	SCALE
	mm	N.T.S

* Attention

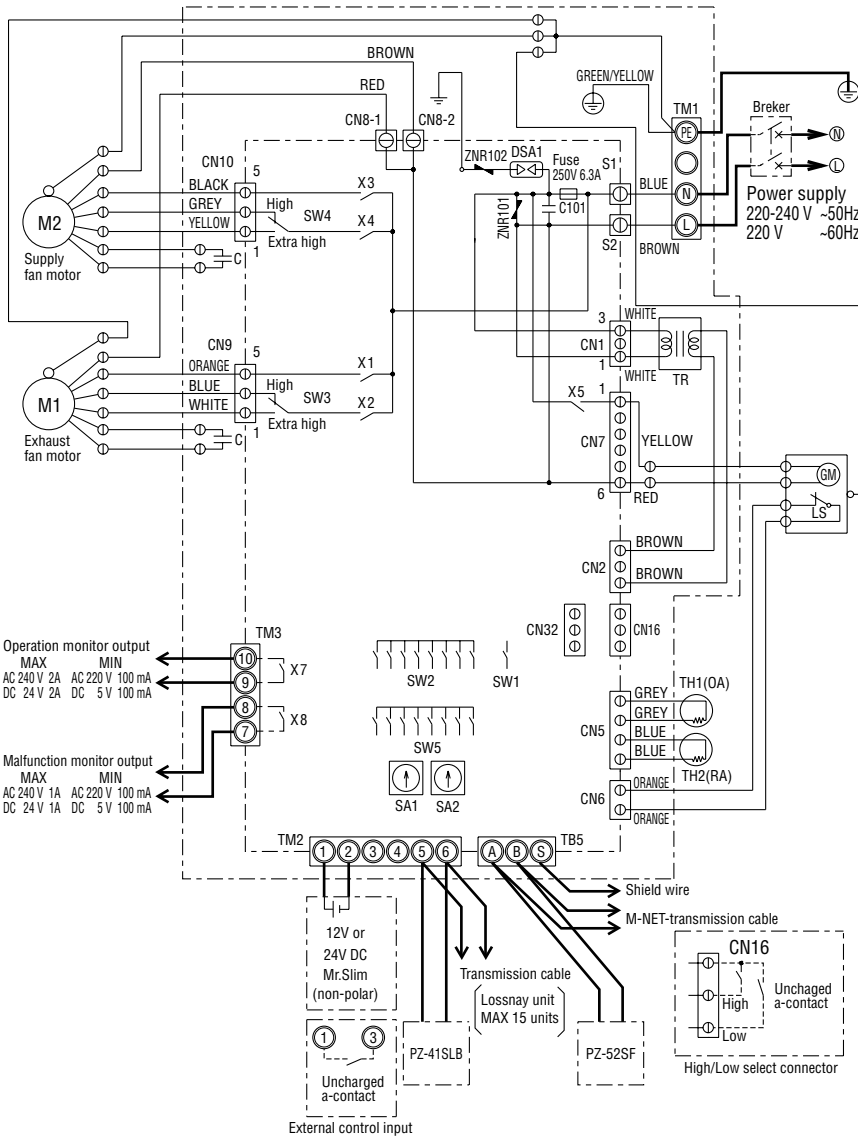
1. If condensation is expected to form, heat up the fresh outside air using a duct heater, etc.
2. An inspection port (450 × 450 – 600 × 600 mm) must be installed on the filters and Lossnay cores removing side.
3. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming. The two indoor ducts may be covered with heat-insulating if Lossnay is to be installed in the circumstance of higher temperature in summer.
4. Installing the duct damper is preferred also to prevent the outdoor air introduced to room if there has strengthened wind, when the unit operates or stops.
5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-50RX ₃	
	17-Jun.-01		NUMBER	No. ND101065
 MITSUBISHI ELECTRIC CORPORATION				

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



■ Symbol explanation

- M1 : Motor for exhaust fan
M2 : Motor for supply fan
C : Capacitor
GM : Motor for Bypass movement
LS : Microswitch
TH1 : Thermistor for outside air
TH2 : Thermistor for return air
SW1 : Switch (Main/Sub change)
SW2, 5: Switch (Function selection)
SW3 : High/E. high select switch (Exhaust fan)
SW4 : High/E. high select switch (Supply fan)
TM1 : Terminal block (Power supply)
TM2 : Terminal block (Transmission cable and external control input)
TM3 : Terminal block (Monitor output)
*1 TB5 : Terminal block (M-NET Transmission cable)
S1, S2 : Connector (Power supply)
TR : Control circuit transformer
X7 : Relay contact (For operation monitor output)
X8 : Relay contact (For malfunction monitor output)
CN1 : Connector (Transformer primary)
CN2 : Connector (Transformer secondary)
CN5 : Connector (Thermistor)
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CN8-2 : Tab connector (Fan motor)
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CN10 : Connector (Fan motor)
CN16 : Connector (High/Low switch)
CN32 : Connector (Remote control selection)
*1 SA1 : Address setting rotary switch (10 digit)
*1 SA2 : Address setting rotary switch (1 digit)

MARK

- : Indicates terminal block
⊙ : Connector
Ⓢ : Board insertion connector or fastening connector of control board

* Attention

1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

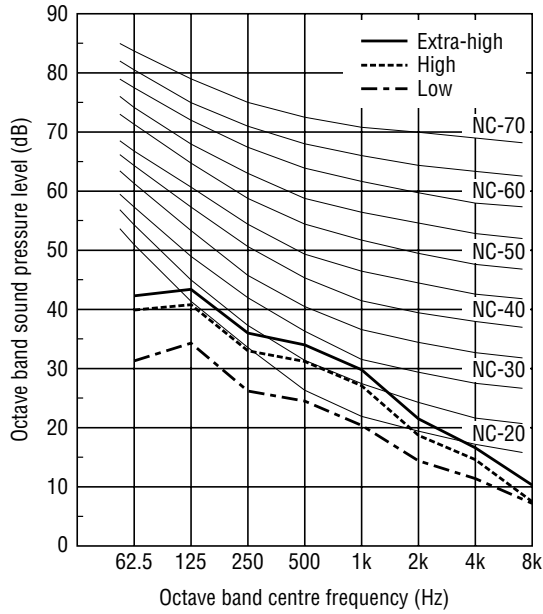
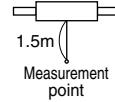
* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-50RX ₃	
	17-Jun.-01		NUMBER	No. ND101065
MITSUBISHI ELECTRIC CORPORATION				

■ NC Curves

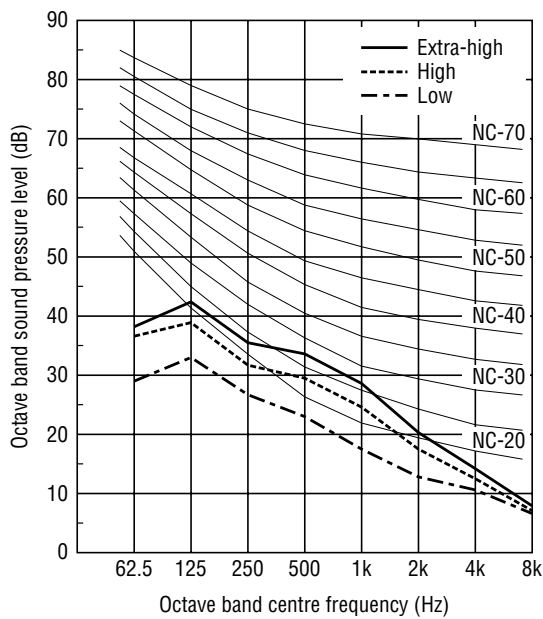
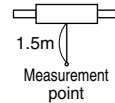
50Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



60Hz

Background noise : 25dB or less (A range)
 Measurement site : Anechoic chamber
 Operation conditions : Lossnay ventilation



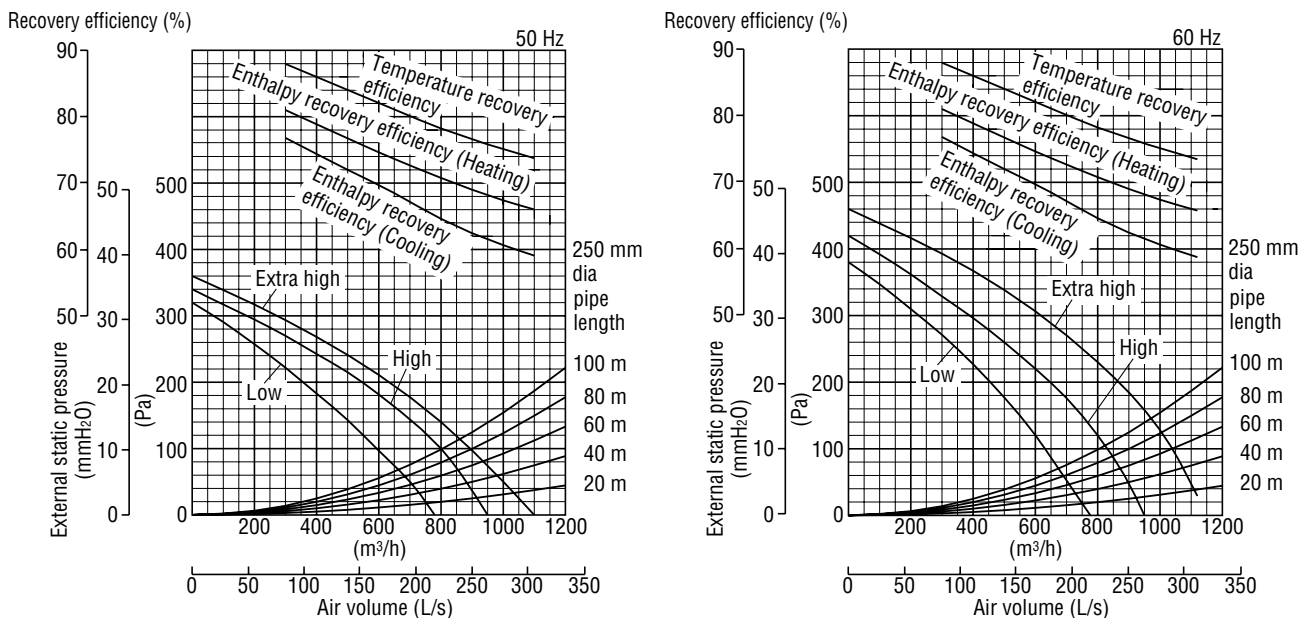
* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-50RX ₃	
	17-Jun.-01			
		NUMBER	No. ND101065	4/4

TYPE	CEILING CONCEALED LOSSNAY	VOLUME	
MODEL	LGH-80RX ₃	SIGN	

Control signal	Serial single communication (M-NET transmission)												
Heat recovery system	Air-to-air total heat (sensible heat + latent heat) recovery												
Heat recovery module 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	245 mm dia.centrifugal fan												
Filter material	Non-woven fabrics filter (Gravitational method 82%)												
Operating environment (Supply air)	-10 °C to 40 °C, RH 80 % or less (-15 °C (*1) to +40 °C, RH 80 % or less)												
Functions	Lossnay ventilation/Bypass ventilation High (Extra high)-Low switching												
Weight	61 kg												
Power supply	Single phase 220-240 V/50 Hz						Single phase 220 V/60 Hz						
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]	1.8-1.8	1.7-1.7	1.4-1.4	1.7-1.7	1.6-1.6	1.4-1.4	2.1	1.9	1.5	2.0	1.8	1.4	
Power consumption [W]	392-418	368-396	304-332	370-394	348-374	298-330	455	405	315	425	390	305	
Air volume	[m ³ /h]	800	800	670	800	800	670	800	800	660	800	800	660
	[L/s]	222	222	186	222	222	186	222	222	183	222	222	183
External static pressure	[mmH ₂ O]	14.3	10.2	7.1	14.3	10.2	7.1	23.5	12.2	8.2	23.5	12.2	8.2
	[Pa]	140	100	70	140	100	70	230	120	80	230	120	80
Temperature recovery efficiency [%]		78	78	80.5	-	-	-	78	78	81	-	-	-
Enthalpy recovery efficiency (%)	Heating	71	71	73	-	-	-	71	71	73.5	-	-	-
	Cooling	64.5	64.5	68	-	-	-	64.5	64.5	68.5	-	-	-
Noise (dB)	Measured at 1.5 m under the center of panel	33.5-34.5	32-33	30-31	34.5-35.5	33-34	30.5-31.5	35	31	29	36	32	29.5
	Air outlets	44.5-45.5	43-44	40-41	45.5-46.5	44-45	40.5-41.5	46	42	39	47	43	39.5
Starting current	Under 3.8/3.1 A or less												
Insulation resistance	10 MΩ or more (500 V megger)												
Dielectric strength	AC 1500 V 1 minute												

■ Characteristic Curves



* Attention

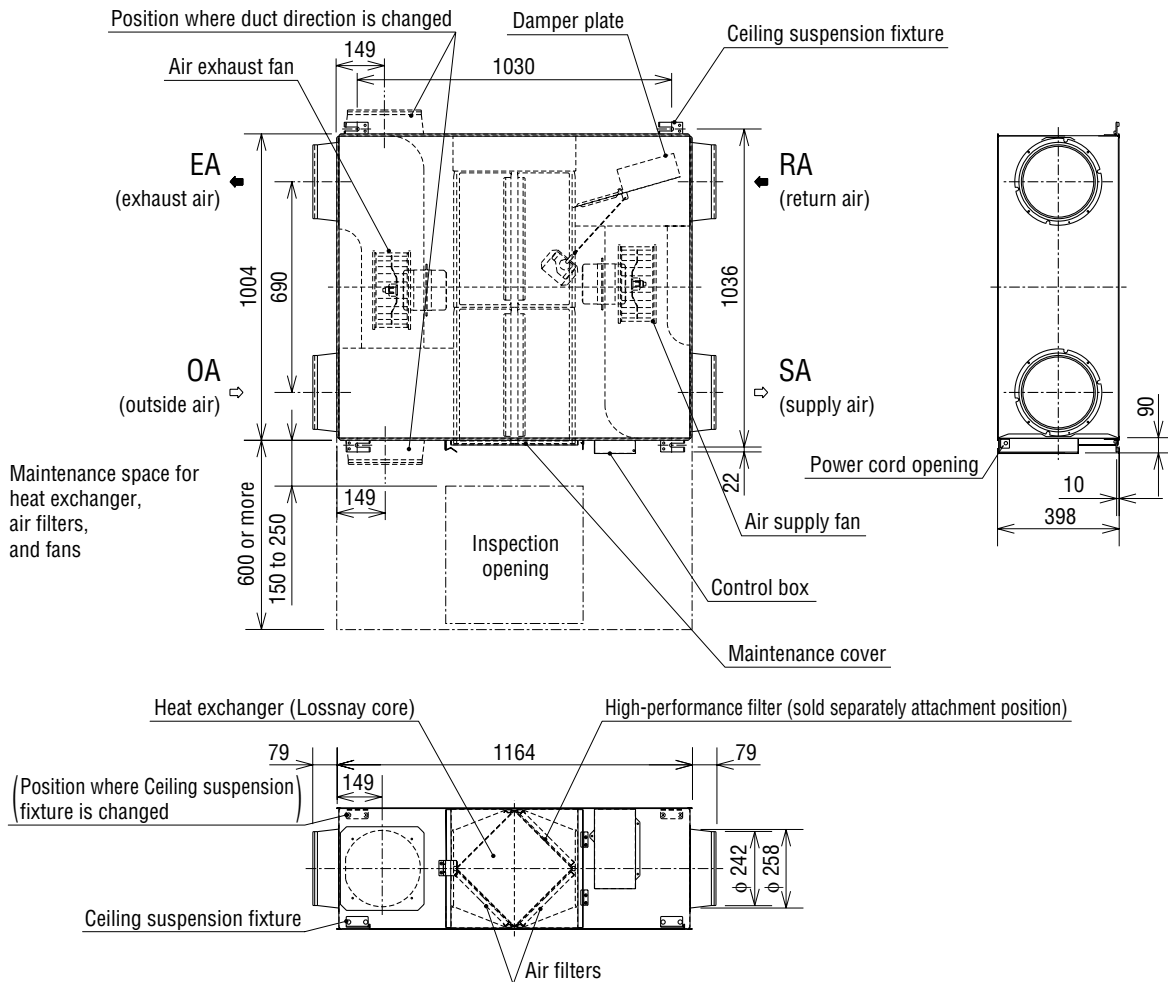
1. The defrosting mode must be operated under -10°C or below. (Air supply fan drives 60 min. ON/10 min. OFF)
2. The current, power consumption and efficiency are based on the above air flow rate.
3. The noise at the air outlets is the values at a 45° angle, 1.5 meters in front of the unit.
4. Fan speed can be switched between high and low.

The main unit switch must be used to select the Extra high fan speed.

* Specifications subject to change without notice.

SPECIFICATIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY	
	17-Jun.-01		LGH-80RX ₃	
MITSUBISHI ELECTRIC CORPORATION	NUMBER	No. ND101066	1/4	

■ Drawings and Dimensions



	UNIT	SCALE
	mm	N.T.S

* Attention

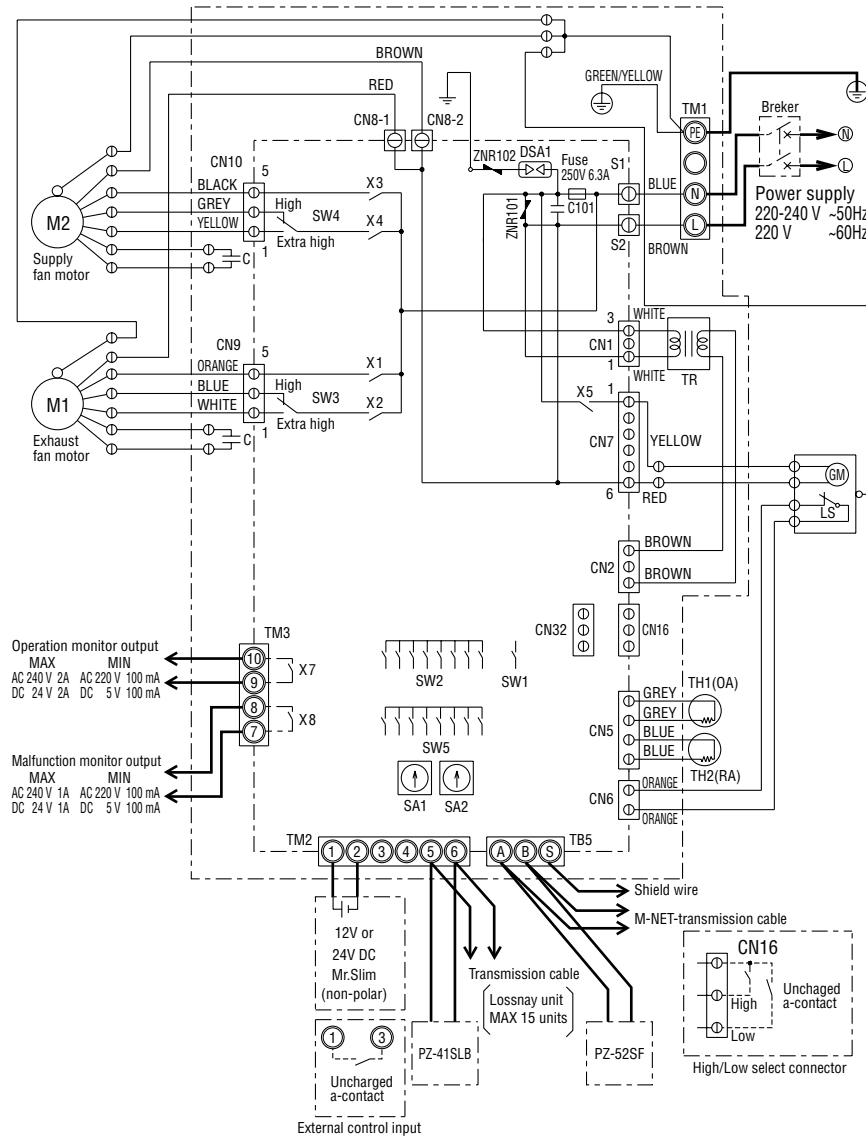
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5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from Lossnay unit.

* Specifications subject to change without notice.

DRAWINGS AND DIMENSIONS	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-80RX ₃	
	17-Jun.-01		NUMBER	No. ND101066
MITSUBISHI ELECTRIC CORPORATION				

■ Schematic

- NOTE
1. TM1, TM2, TM3, TB5 shown in bold lines are field work.
 2. Breaker should be provided by the customer.
 3. Be sure to connect the grounding wire.



■ Symbol explanation

- M1 : Motor for exhaust fan
- M2 : Motor for supply fan
- C : Capacitor
- GM : Motor for Bypass movement
- LS : Microswitch
- TH1 : Thermistor for outside air
- TH2 : Thermistor for return air
- SW1 : Switch (Main/Sub change)
- SW2, 5: Switch (Function selection)
- SW3 : High/E.high select switch (Exhaust fan)
- SW4 : High/E.high select switch (Supply fan)
- TM1 : Terminal block (Power supply)
- TM2 : Terminal block (Transmission cable and external control input)
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- S1, S2 : Connector (Power supply)
- TR : Control circuit transformer
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- X8 : Relay contact (For malfunction monitor output)
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- CN32 : Connector (Remote control selection)

- *1 SA1 : Address setting rotary switch (10 digit)
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MARK

- : Indicates terminal block
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1. This must be used with Mitsubishi Electric Air-Conditioner Network System. (MELANS)
2. External control input (TM2) is impossible to use on the Lossnay addressed to "Sub" (SW1) unit.
3. PZ-41SLB and PZ-52SF cannot be used simultaneously.

* Specifications subject to change without notice.

SCHEMATIC	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-80RX ₃	
	17-Jun.-01		NUMBER	No. ND101066
MITSUBISHI ELECTRIC CORPORATION				

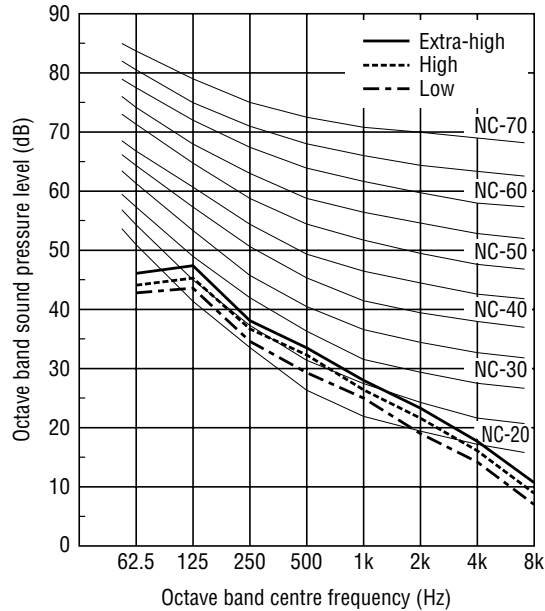
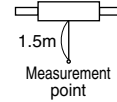
■ NC Curves

50Hz

Background noise : 25dB or less (A range)

Measurement site : Anechoic chamber

Operation conditions : Lossnay ventilation

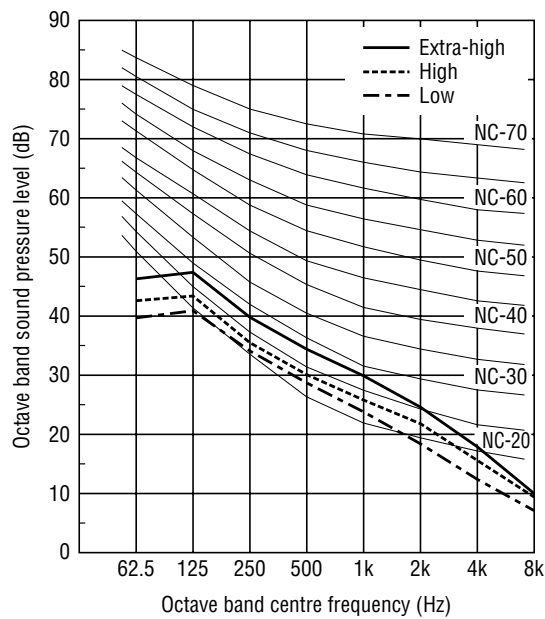
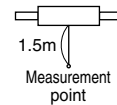


60Hz

Background noise : 25dB or less (A range)

Measurement site : Anechoic chamber

Operation conditions : Lossnay ventilation

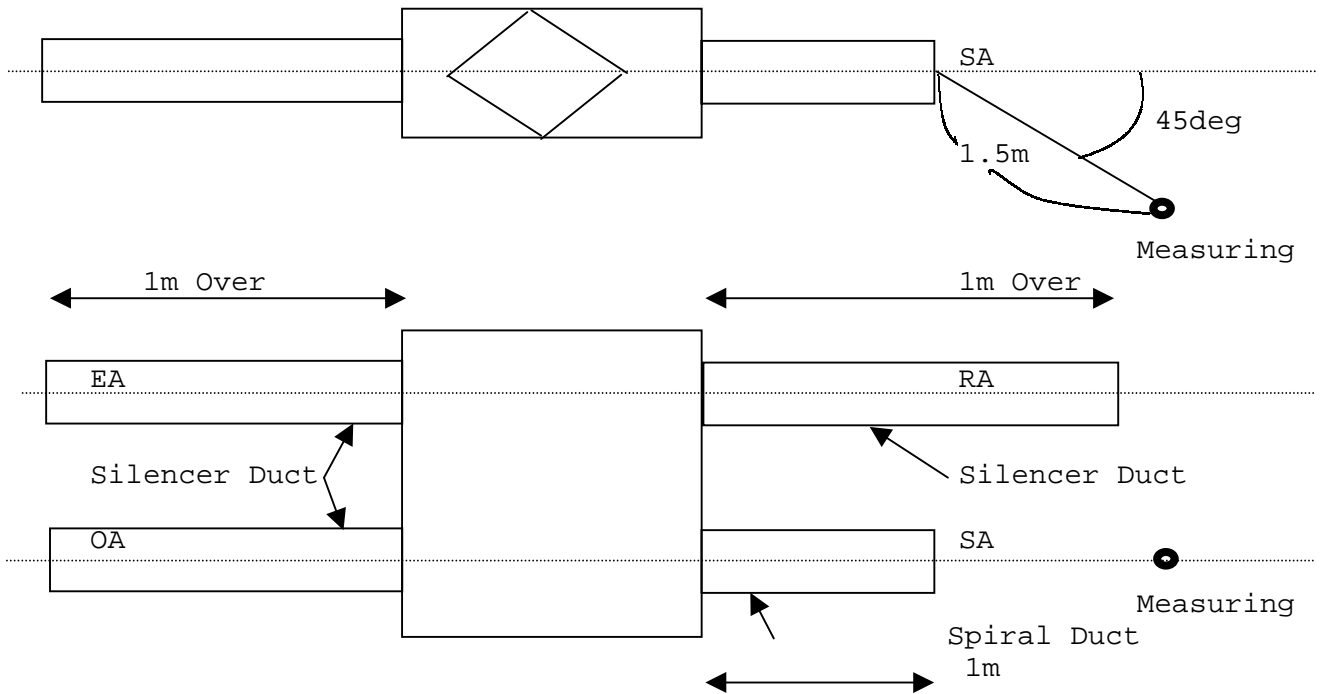


* Specifications subject to change without notice.

NC CURVES	DATE	TYPE MODEL	CEILING CONCEALED LOSSNAY LGH-80RX ₃	
	17-Jun.-01			
MITSUBISHI ELECTRIC CORPORATION		NUMBER	No. ND101066	4/4

LGH-RX3-E Noise Data

Type	Model Name	Noise at Supply air duct (dB(A)) 220-240(V) Lossnay ventilation	
		Extra high	High
		LGH	LGH-15RX3-E
LGH-25RX3-E	33.5-34.5		32-33
LGH-35RX3-E	39-40		35-37
LGH-50RX3-E	40.5-41.5		38-39
LGH-80RX3-E	44.5-45.5		43-44
LGH-100RX3-E	47-48		45-46
LGH-150RX3-E	47.5-48.5		46.5-47.7
LGH-200RX3-E	50-51		48-49



* Test at Japanese factory anechoic room.

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