LGH-250RVXT3-E

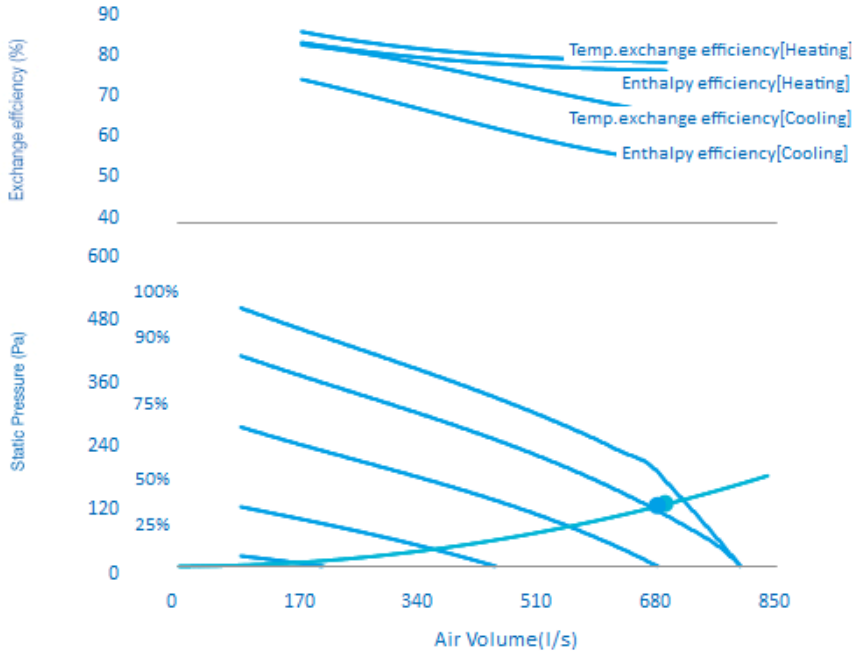
MOVIES

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FAN DATA SHEET



GRAPH



* Please refer to the specification sheet for the actual value.

Technical Data

Product Basic Information

Product Range	Energy Recovery
Impeller Type	Centrifugal
Casing Material	Galvanized steel sheet
Speed Control	100%/75%/50%/25%
Weight	172 kg
Electrical Supply	380-415V / 50Hz / Three-phase
Operating Conditions	Surrounding air condition: -10°C to 40 °C, 80%RH or less. Suction air condition: Lower than 40°C, 80%RH.

Actual Duty Specification

Requested Duty	700l/s @ 120Pa
Actual Duty	688.5l/s @ 116Pa
Tolerance	98.4%
Fan Speed Setting	90%
Power Input	1178W
Specific Fan Power	1.71W/(l/s)
Sound Level - dB(A)	44dB@3m

		@688.5l/s
Temperature Exchange Efficiency	Heating	77%
	Cooling	65.2%
Enthalpy Exchange Efficiency	Heating	75%
	Cooling	54.1%

The values obtained by the calculations in this application software are the values in the ideal state and are approximate values. It may differ from the actual value depending on the air volume, air condition, installation condition, etc.

ACOUSTIC INFORMATION

	125	250	500	1k	2k	4k	8k	Total LwA	dBA @3m
Inlet	64	60	55	53	46	36	25	58	37
Outlet	73	71	67	71	68	66	59	75	54
Breakout	75	67	60	58	52	47	39	65	44

-Sound power level were calculated based on laboratory measurement result.
-The measurement and the calculation were referred to ISO3744:2010.
-If the sound power level is low, "<15dB" or "<20dB" or "<30dB" is shown in the chart depending on the frequency of sounds.

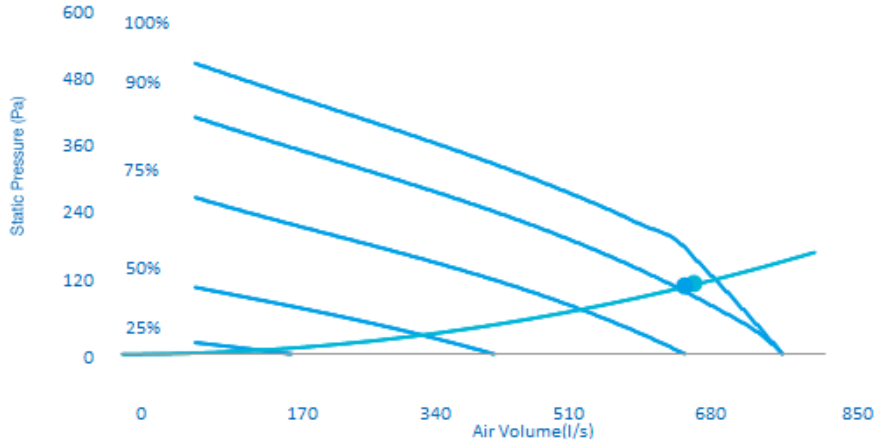
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FAN SPEED SETTING TABLE

Your request is (700l/s, 120Pa).
If you set 90% on Fan power setting, the ventilator LOSSNAY runs at (688.5l/s, 116Pa).
Based on your entered duty point we have estimated the ducting system curve.
You can find specification such as airflow, power input and noise level on this curve at each fan speed setting.



Fan Speed Setting		25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
Airflow	l/s	186.8	235.1	275	310.6	344.6	379.4	422.8	462.9	500.4	535.9	569.9	613.5	652.2	688.5	724.2	731.8
Static pressure	Pa	8.54	13.4	18.6	23.8	29.3	35	43.9	52.8	61.7	70.7	79.5	91.5	104	116	128.4	129.9
Power Input	W	86.7	124.6	163.8	204.2	245.9	289.3	361.7	443.3	532.7	627.9	727.6	874	1023	1178	1340	1485
Specific Fan Power	W/(l/s)	0.46	0.53	0.6	0.66	0.71	0.76	0.86	0.96	1.06	1.17	1.28	1.42	1.57	1.71	1.85	2.03
Noise Level	dB(A)@3m	22	24	26	27	28	30	32	33	35	37	38	40	42	44	45	46

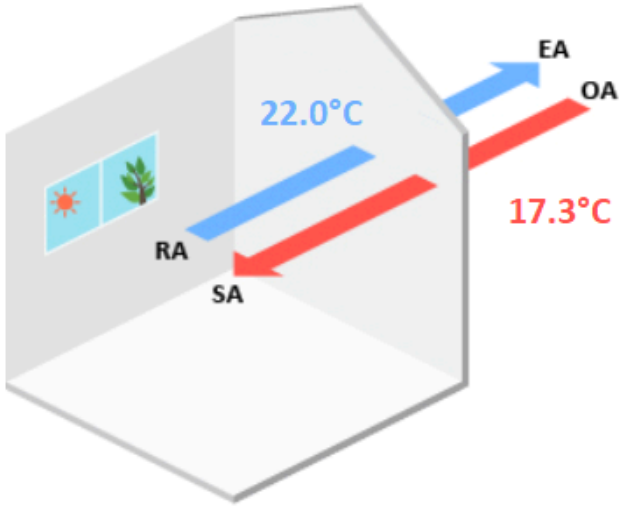
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MOVIES

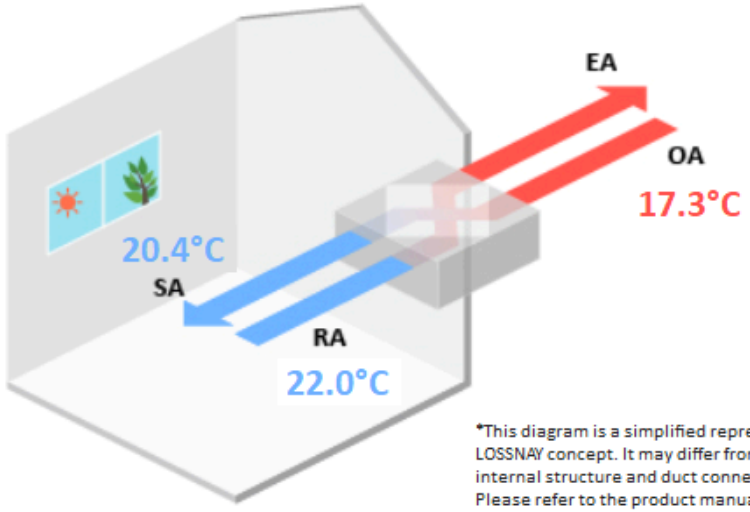
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SUPPLY AIR COMPARISON

(In Summer)



Conventional Ventilation Unit



Lossnay Unit

*This diagram is a simplified representation of the LOSSNAY concept. It may differ from the actual internal structure and duct connection positions. Please refer to the product manual for actual ductwork and installation.

	OA	SA	RA
Dry bulb temperature (°C)	17.3	20.4	22.0
Relative humidity (%)	70.0	55.0	50.0
Absolute humidity (g/kg(DA))	8.6	8.2	8.2
Enthalpy (kJ/kg(DA))	39.2	41.2	43.0

* The exchange efficiency is based on the specification sheet.
* The value is only for reference.

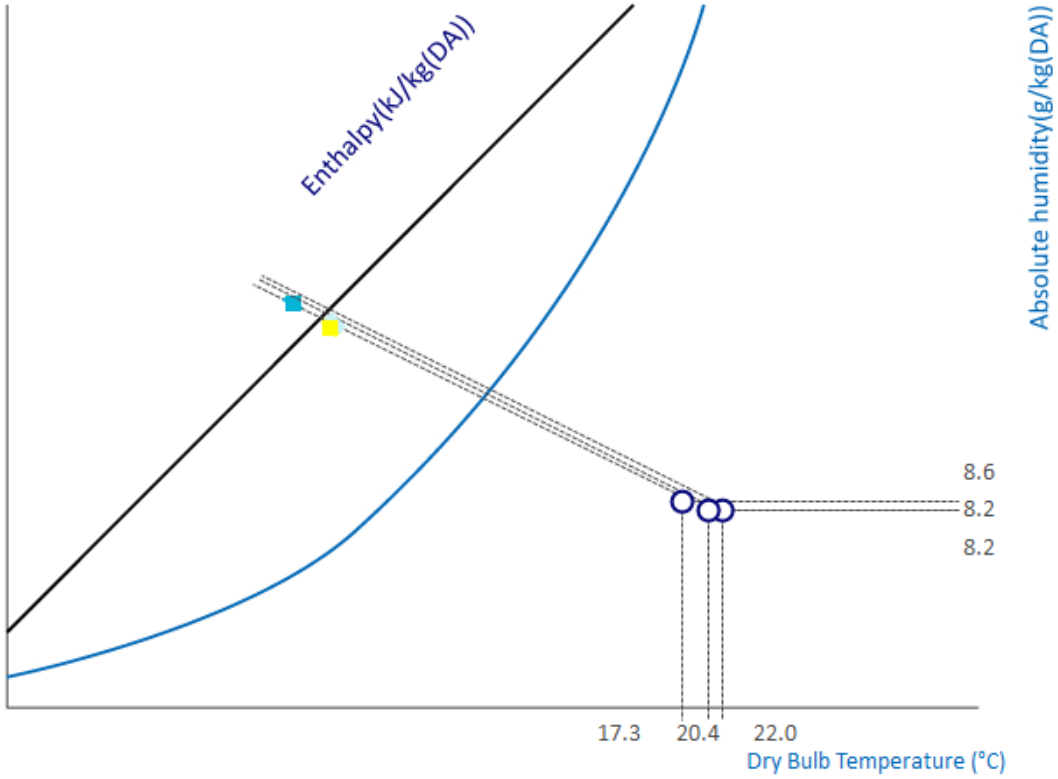
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MOVIES

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SUPPLY AIR COMPARISON

(In Summer)



SA in Summer

- Air Conditioning Load with Conventional Ventilation Unit
- Air Conditioning Load with Lossnay Unit
- Saved Load by Lossnay Unit

	OA	SA	RA
Dry Bulb Temperature (°C)	17.3	20.4	22.0
Relative humidity (%)	70.0	55.0	50.0
Absolute humidity (g/kg(DA))	8.6	8.2	8.2
Enthalpy (kJ/kg(DA))	39.2	41.2	43.0

* The exchange efficiency is based on the specification sheet.
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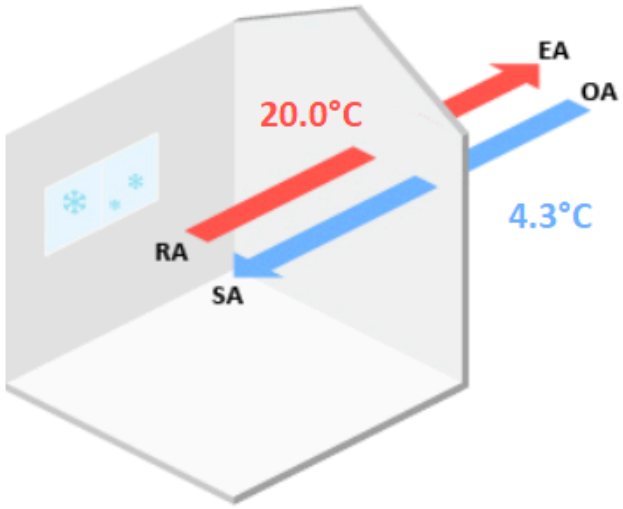
LGH-250RVXT3-E

MOVIES

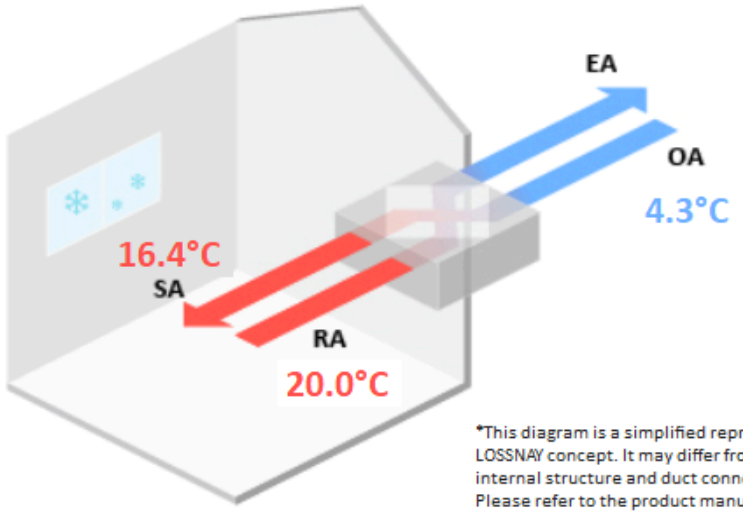
IB / IM

SUPPLY AIR COMPARISON

(In Winter)



Conventional Ventilation Unit



Lossnay Unit

*This diagram is a simplified representation of the LOSSNAY concept. It may differ from the actual internal structure and duct connection positions. Please refer to the product manual for actual ductwork and installation.

	OA	SA	RA
Dry bulb temperature (°C)	4.3	16.4	20.0
Relative humidity (%)	85.0	56.0	50.0
Absolute humidity (g/kg(DA))	4.4	6.4	7.3
Enthalpy (kJ/kg(DA))	15.3	32.7	38.5

* The exchange efficiency is based on the specification sheet.
* The value is only for reference.

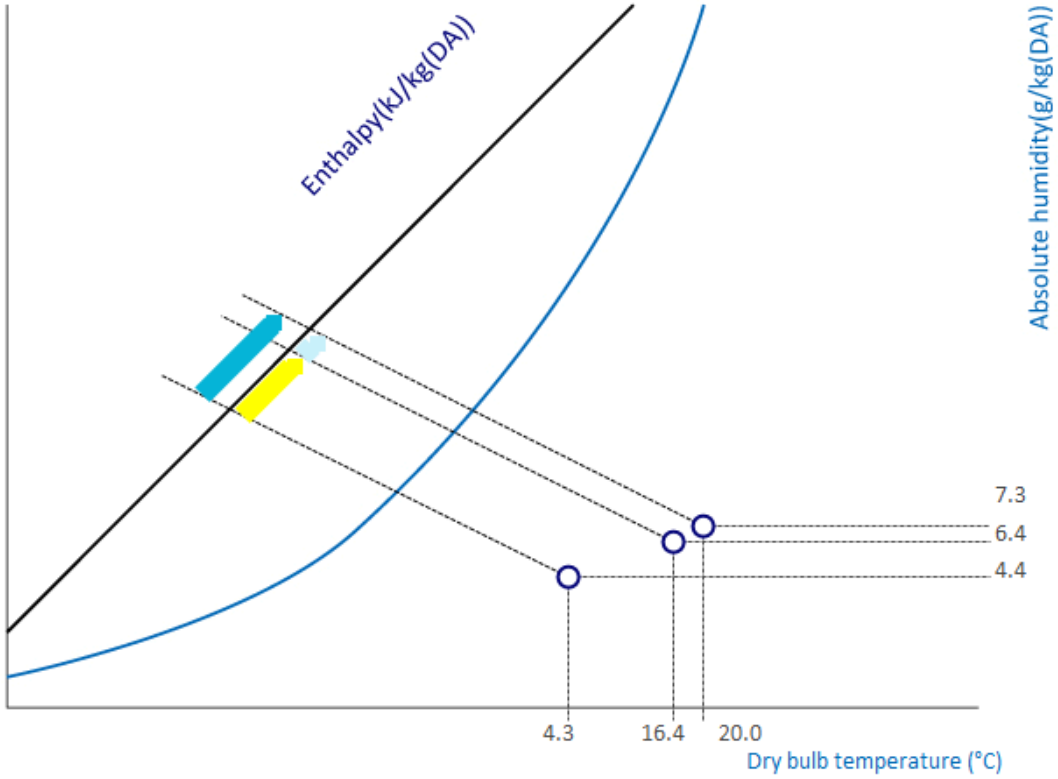
LGH-250RVXT3-E

MOVIES

IB / IM

SUPPLY AIR COMPARISON

(In Winter)



SA in Winter

- Air Conditioning Load with Conventional Ventilation Unit
- Air Conditioning Load with Lossnay Unit
- Saved Load by Lossnay Unit

	OA	SA	RA
Dry bulb temperature (°C)	4.3	16.4	20.0
Relative humidity (%)	85.0	56.0	50.0
Absolute humidity (g/kg(DA))	4.4	6.4	7.3
Enthalpy (kJ/kg(DA))	15.3	32.7	38.5

* The exchange efficiency is based on the specification sheet.
* The value is only for reference.