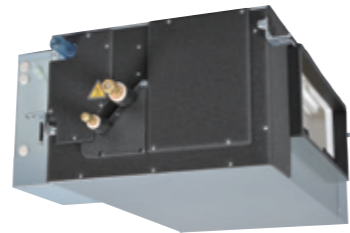


# GUG SERIES Specifications



GUG-01SL-E



GUG-02SL-E

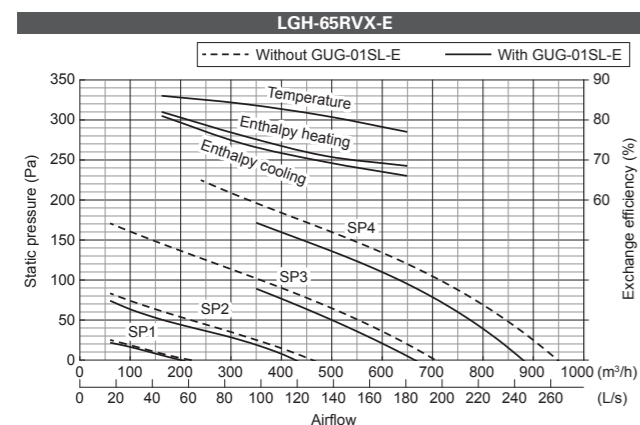
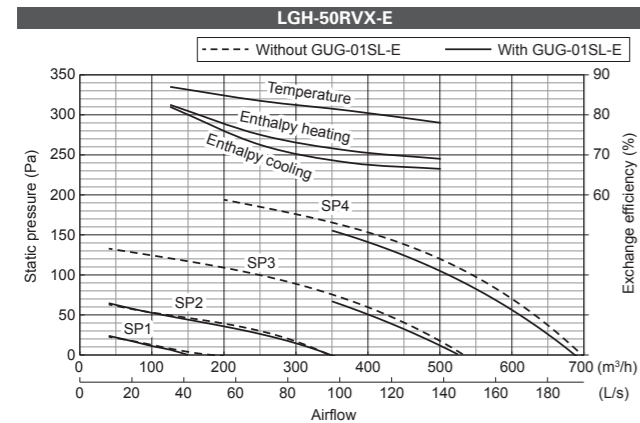
## GUG-01SL-E (Connection to LGH-50RVX-E or LGH-65RVX-E)

Refrigerant	R410A								
Electrical power supply	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)								
Input power	Heating / Fan: 2.5W, Cooling: 12.4W								
Running current	Less than 0.1A								
Weight	21kg *Accessories: Approx. 1kg								
Function	Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control								
RA (Return Air) temperature control									
Connectable Lossnay unit	LGH-50RVX-E				LGH-65RVX-E				
Capacity [kW]	Heating	6.5 (2.4 + 4.1)			7.7 (3.2 + 4.5)				
	Cooling	5.6 (2.0 + 3.6)			6.6 (2.6 + 4.0)				
SHF	0.66				0.69				
Performance index	Heating	4.09			4.72				
	Cooling	4.69			5.03				
Airflow range at SP3 and SP4	350 - 695 m <sup>3</sup> /h				350 - 900 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP35				PUHZ-ZRP35				
Ext. piping	Diameter Liquid / Gas: 6.35 / 12.7				Diameter Liquid / Gas: 6.35 / 12.7				
	Maximum length: 50m, Maximum height: 30m				Maximum length: 50m, Maximum height: 30m				
Ventilation specifications									
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Airflow	[m <sup>3</sup> /h]	500	375	250	125	650	488	325	163
	[L/s]	139	104	69	35	181	135	90	45
External static pressure [Pa]		105	59	26	7	95	53	24	6

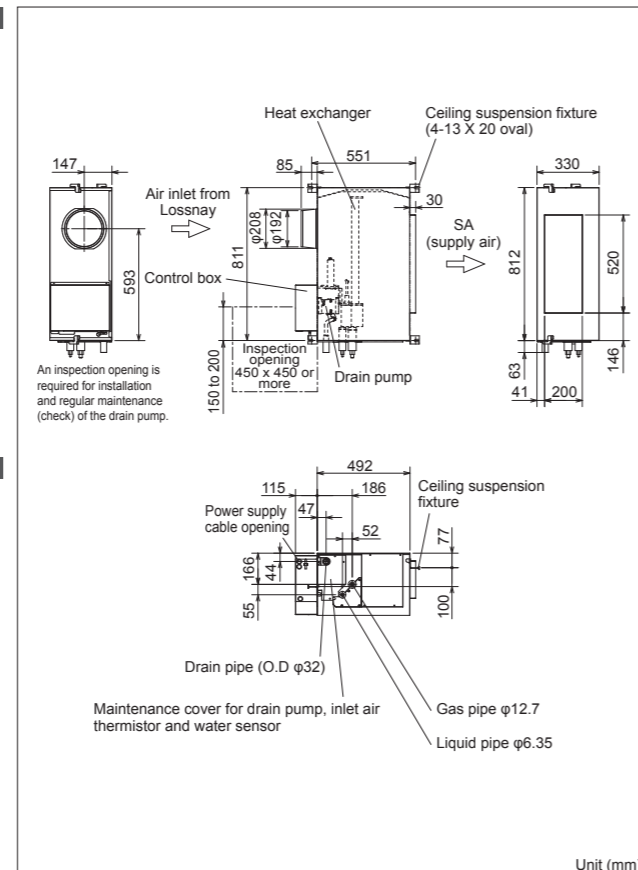
## GUG-02SL-E (Connection to LGH-80RVX-E or LGH-100RVX-E)

Refrigerant	R410A								
Electrical power supply	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)								
Input power	Heating / Fan: 2.5W, Cooling: 12.4W								
Running current	Less than 0.1A								
Weight	26kg *Accessories: Approx. 1kg								
Function	Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control								
RA (Return Air) temperature control									
Connectable Lossnay unit	LGH-80RVX-E				LGH-100RVX-E				
Capacity [kW]	Heating	10.0 (4.0 + 6.0)			13.2 (5.1 + 8.1)				
	Cooling	8.3 (3.3 + 5.0)			11.3 (4.2 + 7.1)				
SHF	0.69				0.66				
Performance index	Heating	4.62			4.42				
	Cooling	4.76			4.98				
Airflow range at SP3 and SP4	560 - 1200 m <sup>3</sup> /h				700 - 1200 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP50				PUHZ-ZRP71				
Ext. piping	Diameter Liquid / Gas: 6.35 / 12.7				Diameter Liquid / Gas: 9.52 / 15.88				
	Maximum length: 50m, Maximum height: 30m				Maximum length: 50m, Maximum height: 30m				
Required optional parts	PAC-SH30RJ-E and PAC-SH50RJ-E				-				
SA (Supply Air) temperature control									
Connectable Lossnay unit	LGH-80RVX-E				LGH-100RVX-E				
Capacity [kW]	Heating	10.0 (4.0 + 6.0)			11.4 (5.1 + 6.3)				
	Cooling	8.3 (3.3 + 5.0)			9.5 (4.2 + 5.3)				
SHF	0.69				0.73				
Performance index	Heating	4.62			5.09				
	Cooling	4.76			5.43				
Airflow range at SP3 and SP4	560 - 1200 m <sup>3</sup> /h				700 - 1200 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP50				PUHZ-ZRP50				
Ext. piping	Diameter Liquid / Gas: 6.35 / 12.7				Diameter Liquid / Gas: 6.35 / 12.7				
	Maximum length: 50m, Maximum height: 30m				Maximum length: 50m, Maximum height: 30m				
Required optional parts	PAC-SH30RJ-E and PAC-SH50RJ-E				PAC-SH30RJ-E and PAC-SH50RJ-E				
Ventilation specifications									
Connectable Lossnay unit	LGH-80RVX-E				LGH-100RVX-E				
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Airflow	[m <sup>3</sup> /h]	800	600	400	200	1,000	750	500	250
	[L/s]	222	167	111	56	278	208	139	69
External static pressure [Pa]		130	73	33	8	130	73	33	8

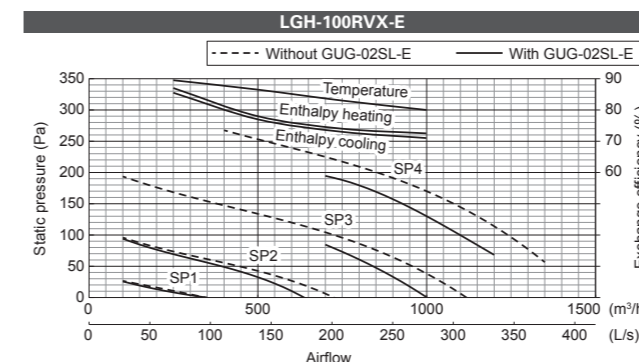
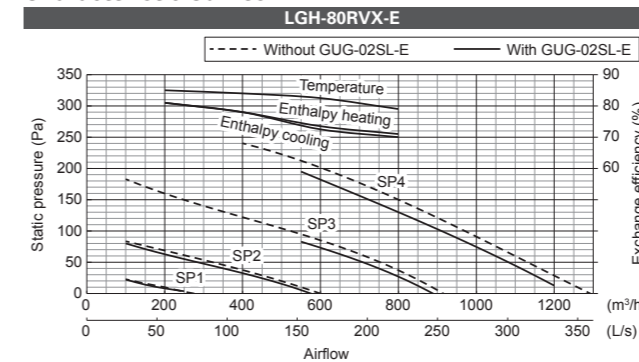
## Characteristic Curves



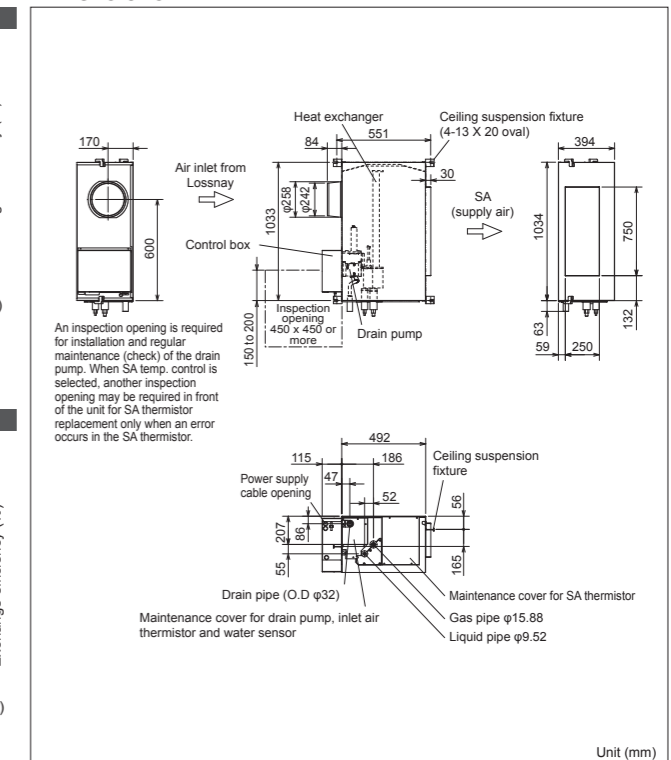
## Dimensions



## Characteristic Curves



## Dimensions



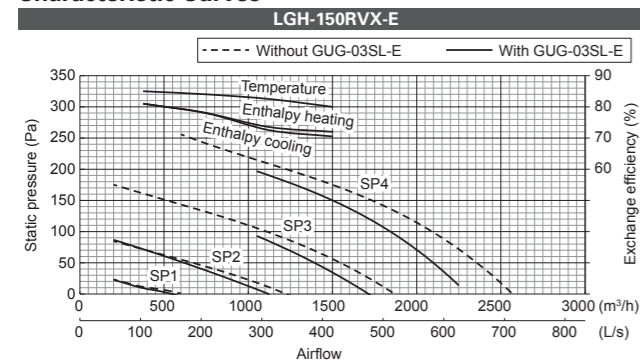


GUG-03SL-E

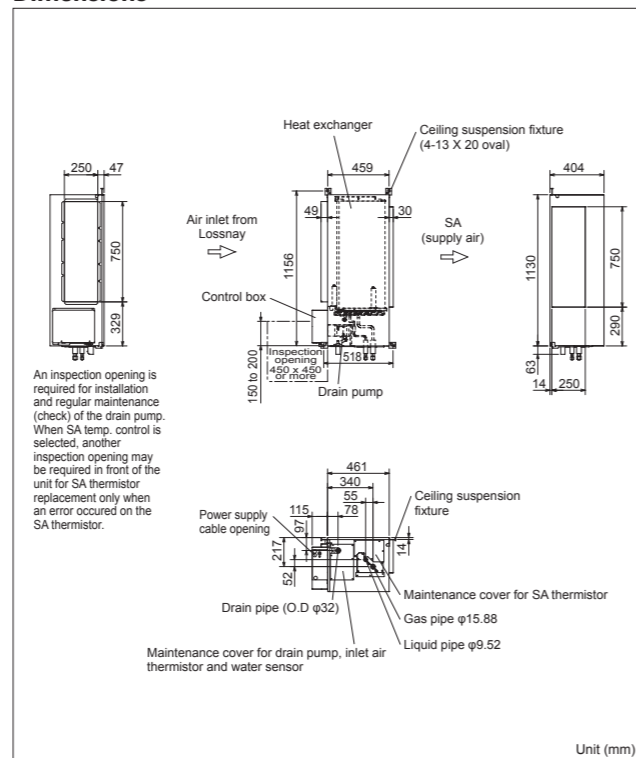
**GUG-03SL-E (Connection to LGH-150RVX-E)**

Refrigerant	R410A				
Electrical power supply	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)				
Input power	Heating / Fan: 2.5W, Cooling: 12.4W				
Running current	Less than 0.1A				
Weight	28kg *Accessories: Approx. 1kg				
Function	Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control				
Function	RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller]				
RA (Return Air) temperature control					
Connectable Lossnay unit	LGH-150RVX-E				
Capacity [kW]	Heating 20.7 ( 7.7 + 13.0 )				
	Cooling 15.8 ( 6.3 + 9.5 )				
SHF	0.68				
Performance index	Heating 4.07				
	Cooling 5.03				
Airflow range at SP3 and SP4	1050 - 2250 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP100				
Ext. piping	Diameter Liquid / Gas: 9.52 / 15.88				
	Maximum length: 75m, Maximum height: 30m				
SA (Supply Air) temperature control					
Connectable Lossnay unit	LGH-150RVX-E				
Capacity [kW]	Heating 16.6 ( 7.7 + 8.9 )				
	Cooling 13.4 ( 6.3 + 7.1 )				
SHF	0.85				
Performance index	Heating 5.46				
	Cooling 5.32				
Airflow range at SP3 and SP4	1050 - 2250 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP71				
Ext. piping	Diameter Liquid / Gas: 9.52 / 15.88				
	Maximum length: 50m, Maximum height: 30m				
Ventilation specifications					
Connectable Lossnay unit	LGH-150RVX-E				
Fan speed	SP4	SP3	SP2	SP1	
Airflow	[m <sup>3</sup> /h]	1,500	1,125	750	375
	[L/s]	417	313	208	104
External static pressure [Pa]	150	84	38	9	

**Characteristic Curves**



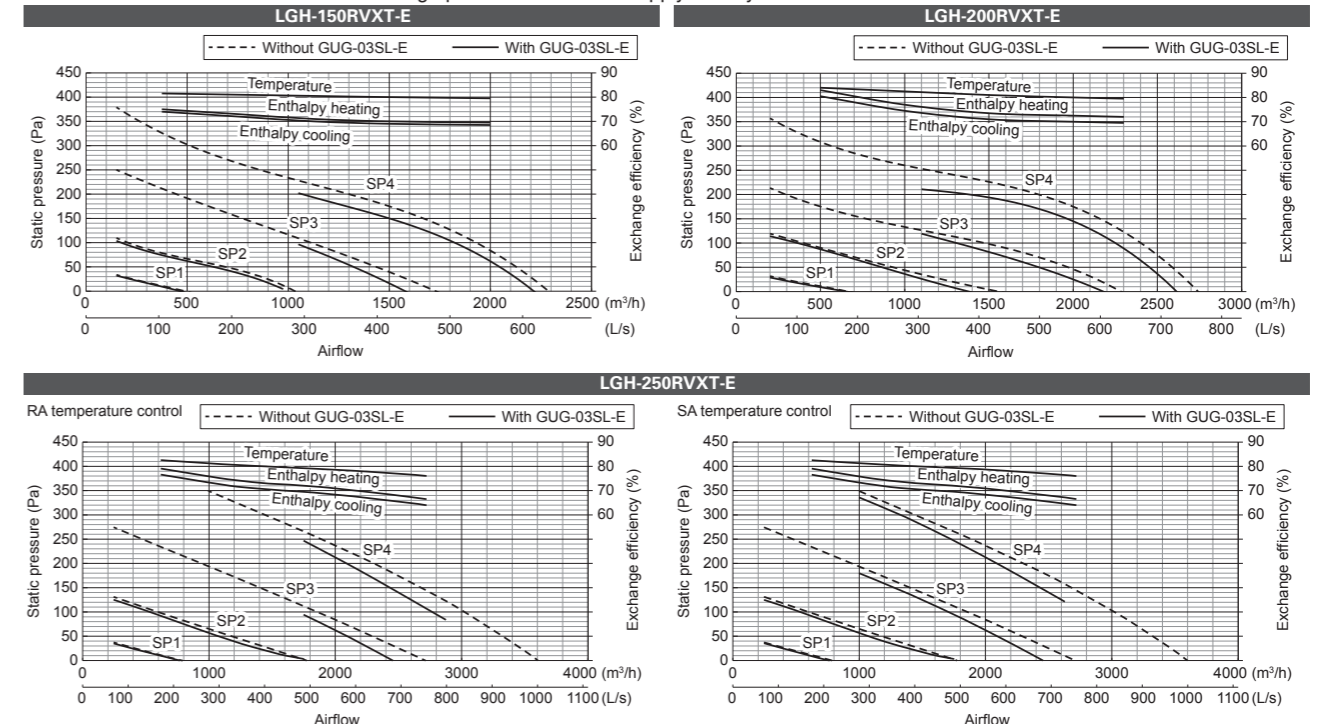
**Dimensions**



**GUG-03SL-E (Connection to LGH-200RVXT-E, LGH-200RVXT-E or LGH-250RVXT-E)**

Refrigerant	R410A												
Electrical power supply	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)												
Input power	Heating / Fan: 2.5W, Cooling: 12.4W												
Running current	Less than 0.1A												
Weight	28kg *Accessories: Approx. 1kg												
Function	Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control												
Function	RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller]												
RA (Return Air) temperature control													
Connectable Lossnay unit	LGH-150RVXT-E				LGH-200RVXT-E				LGH-250RVXT-E				
Capacity [kW]	Heating 20.4 ( 7.4 + 13.0 )				23.8 ( 10.3 + 13.5 )				26.1 ( 12.1 + 14.0 )				
	Cooling 15.7 ( 6.2 + 9.5 )				18.4 ( 8.4 + 10.0 )				22.3 ( 9.8 + 12.5 )				
SHF	0.68				0.76				0.87				
Performance index	Heating 4.07				4.86				4.75				
	Cooling 5.03				5.59				4.59				
Airflow range at SP3 and SP4	1050 - 2250 m <sup>3</sup> /h				1050 - 2600 m <sup>3</sup> /h				1750 - 2880 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP100				PUHZ-ZRP125				PUHZ-ZRP125				
Ext. piping	Diameter Liquid / Gas: 9.52 / 15.88				Diameter Liquid / Gas: 9.52 / 15.88				Diameter Liquid / Gas: 9.52 / 15.88				
	Maximum length: 75m, Maximum height: 30m				Maximum length: 75m, Maximum height: 30m				Maximum length: 75m, Maximum height: 30m				
SA (Supply Air) temperature control													
Connectable Lossnay unit	LGH-150RVXT-E				LGH-200RVXT-E				LGH-250RVXT-E				
Capacity [kW]	Heating 16.3 ( 7.4 + 8.9 )				19.5 ( 10.3 + 9.2 )				21.6 ( 12.1 + 9.5 )				
	Cooling 13.3 ( 6.2 + 7.1 )				15.9 ( 8.5 + 7.4 )				17.6 ( 9.8 + 7.8 )				
SHF	0.86				0.90				0.95				
Performance index	Heating 5.16				6.01				5.97				
	Cooling 5.03				5.54				5.31				
Airflow range at SP3 and SP4	1050 - 2250 m <sup>3</sup> /h				1050 - 2600 m <sup>3</sup> /h				1000 - 2600 m <sup>3</sup> /h				
Connectable outdoor unit	PUHZ-ZRP71				PUHZ-ZRP71				PUHZ-ZRP71				
Ext. piping	Diameter Liquid / Gas: 9.52 / 15.88				Diameter Liquid / Gas: 9.52 / 15.88				Diameter Liquid / Gas: 9.52 / 15.88				
	Maximum length: 50m, Maximum height: 30m				Maximum length: 50m, Maximum height: 30m				Maximum length: 50m, Maximum height: 30m				
Ventilation specifications													
Connectable Lossnay unit	LGH-150RVXT-E				LGH-200RVXT-E				LGH-250RVXT-E				
Fan speed	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Airflow	[m <sup>3</sup> /h]	1,500	1,125	750	375	2,000	1,500	1,000	500	2,500	1,875	1,250	625
	[L/s]	417	313	208	104	556	417	278	139	694	521	347	174
External static pressure [Pa]	150	84	38	9	145	82	36	9	140	79	35	9	

**Characteristic Curves** Note The graphs below show the supply air only.



**Attention**

- The running current and input power are based on 230V/50Hz.
- The cooling and heating capacities are based on the air conditions listed below and the rated airflow of fan speed 4.  
Cooling Indoor: 27°CDB/19°CWB, Outdoor: 35°CDB/24°CWB  
Heating Indoor: 20°CDB/15°CWB, Outdoor: 7°CDB/6°CWB
- The first figure in ( ) of the capacity specification is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the Dx-coil connected to the outdoor unit.
- "Performance index" is the calculated value at the temperature conditions above, and is for reference purpose only.  
Performance index = Total capacity ÷ total power consumption of outdoor unit and Lossnay unit
- The external static pressure listed in the tables includes the static pressure loss of the Dx-coil unit when using a 50cm straight duct between the Lossnay and Dx-coil units. When the duct work between the Lossnay and Dx-coil units is longer and/or bent, the pressure loss of the duct work should be included in the pressure loss calculation.
- The designed airflow of the system (Lossnay, Dx-coil and duct work) at fan speed 3 and 4 should be kept within "Airflow range at SP3 and SP4" listed in the tables. This range is shown as the solid line in graphs of the characteristic curves. If the Lossnay airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- By installing the Dx-coil unit with a Lossnay unit, the air blow noise level is quieter at fan speed 4. Please refer to the "Direct Expansion coil unit for Lossnay" catalog.
- Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO<sub>2</sub> over a period of 100 years. Never try to interfere with the refrigerant circuit or disassemble the product yourself and always ask a professional.