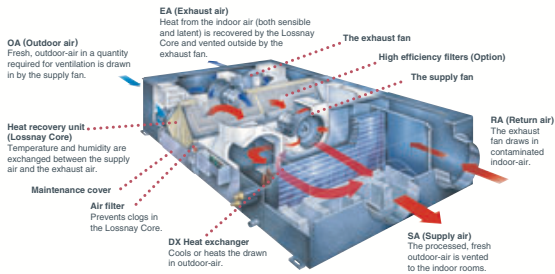


OA Processing Units



Ideal Indoor-Air Quality — For Your Comfort and Health

The OA (outdoor-air) Processing Unit creates an optimum indoor-air environment at an unparalleled rate of cost efficiency providing substantial energy savings. Forced air ventilating and humidifying functions unique to this system keep indoor-air fresh and free of contaminants preventing "sick building syndrome" and the spread of airborne viruses such as the flu. Another novel feature of the OA Processing Unit is the "Lossnay core," a heat-exchange unit that functions to transfer heat efficiently, cutting ventilation load by as much as 70%. This special combination of functionality and performance designed to ensure users ample comfort and year-round health which cannot be found anywhere else on the market.



GUF-50RD(H)₃ *1	
Cooling capacity	5.46 (DX coil:3.63, Lossnay:1.83)KW
Heating capacity	6.18 (DX coil:4.17, Lossnay:2.01)KW
1000m ³ /h Single phase 220-240V 50Hz	
GUF-100RD(H)₃ *1	
Cooling Capacity	11.17 (DX coil:7.32, Lossnay:3.85)KW
Heating capacity	12.50 (DX coil:8.30, Lossnay:4.20)KW
1000m ³ /h Single phase 220-240V 50Hz	
*1 H : Humidifying Type	

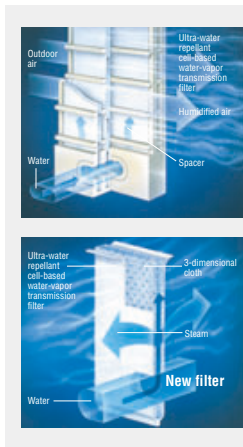
New Permeable Film Humidifier (RDH₃ model)

Comfortable Level of Humidity for Exceptionable Air Quality

The OA Processing Unit is equipped with a new permeable film humidifier developed and patented by Mitsubishi Electric. Steam transmission efficiency has been improved remarkably by lowering the resistance of the material. The use of a 3-layer film that allows only the transfer of steam prevents the production of white powder, so there is no need for the use of a water purifier.

Highly Efficient Humidification

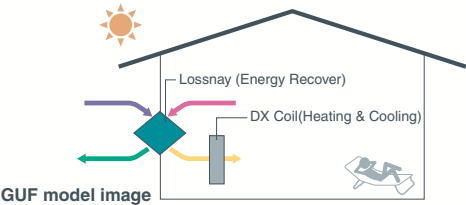
Improvements in the system of airflow patterns and water injection techniques have resulted in a substantial increase in humidifying volume.



RDH₃ SERIES OUTDOOR AIR PROCESSING UNIT GUF type

General

GUF - For the finest indoor quality
GUF = [LOSSNAY] + [HEATING & COOLING]



Specification

Model		GUF-50RDH ₃	GUF-100RDH ₃	GUF-50RD ₃	GUF-100RD ₃
Power source		1-phase 220-240V 50Hz, 1-phase 220V 60Hz			
Cooling capacity	#1 kW	5.46	<1.83>	11.17	<3.85>
Figure in < > is the recovery capacity by LOSSNAY core.	#1 kcal / h	4,700	<1,600>	9,600	<3,300>
	#1 BTU / h	18,600	<6,200>	38,100	<13,100>
Power input	kW	235-265	480-505	235-265	480-505
Current input	A	1.15	2.20	1.15	2.20
Heating capacity	#2 kW	6.18	<2.01>	12.50	<4.20>
Figure in < > is the recovery capacity by LOSSNAY core.	#2 kcal / h	5,300	<1,700>	10,800	<3,600>
	#2 BTU / h	21,100	<6,900>	42,700	<14,300>
Power input	kW	235-265	480-505	235-265	480-505
Current input	A	1.15	2.20	1.15	2.20
Capacity equivalent to indoor unit		P32	P63	P32	P63
Humidifying capacity	kg / h	2.7	5.4	-	-
	lbs / h	6.0	12.0	-	-
Humidifier		Permeable film humidifier			
External finish		Galvanized, with grey insulation sheet			
External dimension H × W × D	mm	317 × 1,016 × 1,288	398 × 1,231 × 1,580	317 × 1,016 × 1,288	398 × 1,231 × 1,580
	in.	12-1/2 × 40 × 50-3/4	15-11/16 × 48-1/2 × 62-1/4	12-1/2 × 40 × 50-3/4	15-11/16 × 48-1/2 × 62-1/4
Net weight	kg (lbs)	57 (126)	98 (217)	54 (120)	92 (203)
Heat exchanger	LOSSNAY core	Partition, Cross-flow structure, Special preserved paper-plate.			
FAN	Refrigerant coil	Cross fin (Aluminum fin and copper tube)			
	Type × Quantity	SA: Centrifugal fan (Sirocco fan) × 1 EA: Centrifugal fan (Sirocco fan) × 1			
	External static press.	Pa	125	135	140
		mmH ₂ O	12.7	13.8	14.3
	Motor type	Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2units			
	Motor output	kW	-	-	-
	Driving mechanism	Direct-driven by motor			
	Airflow rate	m ³ / h	500	1,000	500
	(High value)	L / s	139	294	139
		cfm	294	589	294
Noise level (Low-High) (measured in anechoic room)	dB <A>	33.5-34.5	38-39	33.5-34.5	38-39
Insulation material		Polyester sheet			
Air filter	Supplying air	Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method 65%)			
	Exhausting air	Non-woven fabrics filter (Gravitational method 82%)			
Protection device		Fuse			
Refrigerant control device		LEV			
Diameter of Liquid	mm (in.)	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare
Refrigerant pipe Gas	mm (in.)	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare
Diameter of drain pipe	mm (in.)	VP25			

Note:

- #1 Cooling : Indoor 27°CDB/19°CWB, Outdoor 35°CDB/24°CWB
- #2 Heating : Indoor 20°CDB/13.8°CWB, Outdoor 7°CDB/16°CWB