

Central Heating and Ventilation

Highly Efficient Ducted Heating, Cooling and Ventilation



Quiet, Unobtrusive Year-Round Comfort for Your Whole Home

Note: All images are for illustrative purposes only.

Experience Year-Round Comfort With a Whole Home Ducted Heat Pump System

Hidden From View

A Mitsubishi Electric Ducted Heat Pump System is designed to provide whole home central heating or cooling at a constant temperature throughout the house. Ideal for installing in new builds or retrofitted into existing homes, it is a costeffective and energy efficient solution for year-round comfort. Mitsubishi Electric Ducted Systems are whisper quiet, and with only its grilles visible, it is the perfect unobtrusive solution for whole home heating or cooling at the same time.

solution, it offers a sleek installation for the design-conscious. **Grille Options to Compliment Your** Interior Design

Installed in the ceiling with only subtle grilles visible, a ducted system lets your interior design style take centre stage. Not only

does a ducted system provide a whole home heating or cooling

Mitsubishi Electric Ducted Heat Pump Systems allow for a wide range of grille options to best suit your installation needs. From ceiling and wall installations, to underfloor grille options, talk to your installer about what's right for you.

Easy to Use 7-Day Wall Controller to Maximise Energy Efficiency

This attractive full dot liquid crystal display incorporates a large backlit screen and simple menus for easy operation. You can set up to eight temperature and airflow patterns per day for seven days, maximising energy efficient operation - saving you both time and money.

Optional Wi-Fi Control – Never Return to a Cold Home Again

Pre-heat or cool the whole home no matter where you are. On the way home, running late, coming home early, or even when you're in a different country, with optional Wi-Fi Control you'll always arrive home to total comfort.

Optional Zone Control

Program and control up to 4 or up to 8 individual zones, providing heating or cooling only to the rooms that require it.

Built-in sensor functions monitor room temperature, brightness and occupancy to maximise energy efficient use of the whole system throughout the home or just those rooms where it's







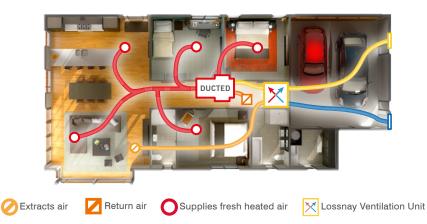






Combine a Ducted System with Fresh Air Heat Recovery Ventilation

Maximise comfort by combining our ducted system with Lossnay Balanced Pressure Ventilation. Mitsubishi Electric Lossnay Ventilation can be integrated with a PEAD Ducted Heat Pump System offering a complete home heating, cooling and ventilation solution.



The Lossnay Balanced Pressure Ventilation System recovers heat from the stale, damp air it extracts from your home – and then uses that energy to pre-warm or pre-cool the incoming filtered fresh air. This means that when Lossnay is combined with your ducted system, your home can be brought to the desired temperature faster because the heating system is not required to work as hard to do so.

By having a well-ventilated home the air is also much drier, further speeding up the efficient heating process. In addition, because fresh air is brought in from the outside and not from the attic, air quality is maximised.

When these two systems are combined to work together, it will ultimately create a drier, healthier environment for you and your family.

	Heat Pump	Ventilation	Ducted Heat Pump + Ventilation
Heating/Cooling	\checkmark	-	\checkmark
Fresh Outside Air	-	\checkmark	\checkmark
Filtered Air (dust etc. removed)	\checkmark	\checkmark	\checkmark
Energy Efficient	\checkmark	\checkmark	\checkmark
Heat/Energy Recovery (Heat Exchange)	-	\checkmark	\checkmark



Optional Wi-Fi Interlock for Total Home Control

Seamlessly combine your Mitsubishi Electric Ducted Heat Pump and Lossnay Heat Recovery Ventilation System through your Wi-Fi Control App for the ultimate visibility and control.

Because your Ducted Heat Pump needs to be in fan, heating or cooling mode for the connected Lossnay system to operate, you can now choose from two innovative modes to customise your climate control setup.

Use the "Power Interlock" mode, to enjoy set and forget convenience.

In this mode, both systems will always automatically activate together no matter which system you initially turn on.

Opt for "**Fresh Air Fan Interlock**" mode to prioritise fresh air circulation; regardless of whether the ducted system is turned on.

In this mode, the Lossnay System will override a ducted system that is turned off and automatically activate the system's Fan Mode.

As a result fresh air continues to efficiently circulate throughout the home.



The Lossnay Difference

The Mitsubishi Electric Lossnay System is a patented heat recovery ventilation solution that uses fresh air (not attic air) to ventilate your home. The system works by extracting stale air from inside your house and replacing it with allergen-reduced fresh air from outside.

Furthermore, Lossnay also recovers heat energy from the outgoing stale air to pre-warm (or precool) the fresh air being drawn into your home.

The Lossnay Core

Indoors

Fresh air is

vour home

Stale air is

your home

removed from

introduced into

Outdoors

Stale indoor

air is expelled

Fresh air is

introduced

from outside

outside

*1 Compared to the use of a 100% fresh air, conventional ventilation system.

- *2 In comparison to using a dedicated cooling device. The unit will continue to use a small amount of power to bring colder fresh air from outside.
- *3 Lossnay must be in Auto Mode, and the outdoor air is cooler than the desired set temperature inside your home.
- *4 VL-220CZGV-E on lowest fan speed. Measured at 1.5m.

Recovers Energy to Pre-warm or Pre-cool Incoming Fresh Air

Lossnay's unique Heat Recovery Technology collects up to 92% of the heat energy in outgoing air to pre-warm or pre-cool the incoming fresh air.

Energy Efficient, Save on your Power Bill*1

With Lossnay's Heat Recovery Technology, less additional heating/cooling of incoming air is required to achieve your ideal home temperature – saving you money.

Moisture and Condensation Control

Effectively reduces moisture in your home by directly removing stale air that causes condensation.

Automatic Free Cooling^{*2} Mode

When specific conditions are met^{*3}, Lossnay will automatically enter Automatic Free Cooling Mode. As a result, cooler fresh air is introduced and stale air is extracted, bypassing the Lossnay Core. This is ideal for cooling down a dwelling that may have overheated during the day, once the outside temperature has dropped in the evening.

Now You Can See and Feel the Lossnay Difference!

The Lossnay Wi-Fi Control App lets you see by how many degrees Lossnay is pre-warming or pre-cooling your home and reminds you to clean the unit's filters, maximising cost efficiency and health benefits.

Fresh Air Without Open Windows

Lossnay ensures a well-ventilated home without opening windows, enhancing safety and minimising outdoor noise for your family.

Improved Air Quality

By drawing in fresh outdoor air and not attic air, indoor air quality is improved as high levels of CO_2 , odours, pollen and other pollutants are removed – ideal for allergy and asthma sufferers.

Whisper Quiet Operation

From an ultra quiet 14dB^{*4}, Lossnay is the ideal solution for residential homes and apartments where quiet comfort is key.

Easy To Clean

The standard filters can be removed for regular cleaning to keep the unit in optimal working condition.















Fresh Air Heat Recovery Ventilation for all Types of Applications

Ventilating your home is vital as it maintains air quality and reduces moisture, creating a healthier and more comfortable environment. There is a Lossnay solution to suit most New Zealand homes, from whole home ducted to single room applications.

Lossnay is specifically designed for more airtight homes built to the current New Zealand Building Code; delivering the optimum amount of fresh air without creating draughts and minimising indoor temperature fluctuations.



*2 In comparison to using a dedicated cooling device. The unit will continue to use a small amount of power to bring colder fresh air from outside.

*⁵ The outside 'Fresh Air' and the inside 'Avg Temp' air temperatures are measured by the built-in sensors that are centrally located in the main Lossnay Ventilation unit.

Whole Home Ventilation

In-Ceiling Solutions

These ducted whole home balanced pressure Lossnay Heat Recovery Ventilation Systems are designed for installation in homes that have available roof or attic space to accommodate the heat exchanger and corresponding ducting.

Vertical Solutions

The slimline, Vertical Lossnay Series features a small, upright footprint that can be placed in the garage or a utility cupboard and is not limited to an in-roof installation.

Single Room Ventilation

In-Ceiling Single Room Solutions

This cost effective ventilation system is specifically designed to provide fresh filtered air to a single room with the additional benefit of energy efficient heat recovery at the same time. The ducted design means the system can be installed in the roof or attic space, so it is unobtrusive and hidden away.

Wall Mounted Single Room Solutions

This easy to install back-to-back wall mounted system is designed to provide cost effective energy recovery ventilation to one specific area in the home. The ductless design means the system is ideal for homes and buildings where there is no roof space to install a heat exchanger.

Note: Single room systems are not interlock compatible.



Make Heat Recovery Ventilation Visible – with Advanced Lossnay Wi-Fi Control

Elevating air quality and maximising energy efficiencies has never been easier, because now the power is in your hands.

See by how many degrees^{*5} Lossnay is pre-warming or pre-cooling your home in real time, helping you save on your power bill because less additional heating is required to get a room up to temperature.

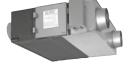
And in summer, monitor by how many degrees Lossnay can reduce the average temperature in your home, using Automatic Free Cooling^{*2} Mode.

The App will also proactively remind you when it is time to clean your filters to maximise both cost efficient operation and health benefits.

Lossnay Wi-Fi Control truly is the smart evolution in fresh air ventilation.

Note: Lossnay Wi-Fi Control comes standard with the Vertical Lossnay Series, and as an option for the LGH ranges.







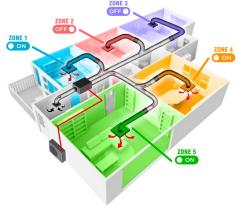




Zone Controller

Zone Control will enable your Mitsubishi Electric Ducted Central Heat Pump System to program and control either up to 4 or up to 8 individual zones, providing heating or cooling only to the rooms that require it. Built-in sensor functions monitor room temperature, brightness and occupancy to maximise energy efficient use of the whole system throughout the home or just those rooms where it is needed.^{*}





Features

Temperature Sensor

With an inbuilt thermostat (PAR-ZC01ME-E wall controller), the Zone Controller allows the actual usable space temperature to be measured, offering a more realistic and timely temperature measurement where it is needed most.

Occupancy Sensor

The Zone Controller (via the PAR-ZC01ME-E wall controller) constantly monitors the usable area to detect vacancy. Once detected, one of four user defined energy-save control options can be implemented to reduce energy consumption: turn the unit on/ off, lower the fan speed, temperature offset, or turn user designated zones on/off.

Brightness Sensor

Working in conjunction with the Occupancy Sensor, the Brightness Sensor can be set to maximise energy savings when it detects user defined "Light" or "Dark" conditions (lux values).

Backlit LCD Touch Screen

Featuring a liquid-crystal display (LCD), back lit for operation in dark conditions. For ease of use, the user defined coloured LED indicator (at the bottom of the controller) lights up to indicate the current operation mode i.e. red for Heating, blue for Cooling, green for Night Setback.

Intuitive Airflow Control

Where traditional ducted systems require manual adjustment of the indoor fan speed, the PAC-ZC40/80, equipped with the exclusive Mitsubishi Electric Intuitive Airflow Control, intuitively detects which zones you have open/closed and adjusts the fan speed accordingly. When zones are not in use the fan speed is lowered automatically, leading to increased overall energy savings.

Optional Wi-Fi Control

Advanced temperature monitoring and management. Now you can control, monitor and schedule which zones your ducted heat pump is controlling in real time from anywhere via your smart phone, tablet or online account.



* Allows connection of up to 2x optional thermistors (PAC-SE41TS-E).



Specifications

Ducted PEAD Series

Specifications: Ceiling-Concealed (PEAD)

REFRIGERANT								R	32						
ndoor Unit		PEAD-M50		PEAD-M60 PE			PEAD-M71JAA		PEAD-M100JAA		PEAD-M125JAA		PEAD-M140JAA		
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Capacity (minma	x.)	(kW)	5.0 (2.3-6.2)	6.0 (1.7-7.4)	6.0 (2.3-6.5)	7.0 (2.8-8.0)	7.1 (2.8-8.1)	8.0 (2.6-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (6.2-15.3)	16.0 (5.7-18.0	
Power Input		(kW)	1.33	1.44	1.72	1.85	1.98	2.00	2.67	2.80	3.66	3.52	4.37	4.18	
Rated EER/COP			3.75	4.16	3.48	3.78	3.58	4.00	3.74	4.00	3.41	3.97	3.20	3.82	
Rated AEER/ACOF	C		3.70	4.09	3.43	3.72	3.53	3.93	3.61	3.86	3.32	3.86	3.13	3.73	
Power Supply Out	door Unit							230V, Single	e-phase, 50Hz						
Airflow	(m ³ /h)		12 - 14	4.5 - 17	14.5 - 18 - 21		1051-1260-1501 1440-		1440-17	1738-2041 17		1771-2131-2520		1918-2340-2761	
AIIIIOW		(L/s)	200 - 2	42 - 283	242 - 3	00 - 350	292-3	50-417	400-483-567		492-592-700		533-650-767		
External Static Pre	ssure	(Pa)						35/50/70)/100/125						
Sound Pressure Le	evel	(dBA)	30 - 3	30 - 35 - 39 30 - 32 - 36 3		30-3	33-38	33-38-42		36-40-44		40-44-49			
Dimensions W x D	×Н	(mm)	900 x 7	32 x 250		1,100 x 1	732 x 250		1,400 x 732 x 250			1,600 x 732 x 250			
Weight		(kg)	2	26	2	29	3	30	3	39 40		44			
Outdoor Unit			SUZ-N	150VAD	SUZ-N	160VAD	SUZ-N	171VAD	PUZ-ZM	Z-ZM100VKA2 PUZ-ZM125VKA2			PUZ-ZM140VKA2		
	Height	(mm)	7	14		8	80				1,338				
Dimensions	Width	(mm)	8	00		8	40				1,050				
	Depth	(mm)	2	85	330		330 (+40)								
Weight		(kg)	4	1	54		5	55			114				
Operation Range	Cooling	[°C]			-15 ~ 52			-5 (-15*) / 52							
Outdoor	Heating	[°C]			-15	~ 24			-20 / 21						
With optional air r		tata.													

*With optional air protection guide

VL Whole Home Range

Specifications: Fresh Air Home Ventilation

Туре		In-Ce	iling Cor	icealed D	ucted	Vertical Wall Mounted Ducted											
Model		VL-220CZGV-E		VL-250CZPVU-L/R-E			1	/L-350CZ	PVU-L/R-E	-	VL-500CZPVU-L/R-E						
Ventilation Modes		ŀ	Heat Reco	overy Mod	e	Heat Recovery Mode			Heat Recovery Mode				Heat Recovery Mode				
Heat Exchange System		Heat R	ecovery V	entilating	System	Heat R	ecovery V	entilating	System	Heat R	ecovery V	entilating	System	Heat R	ecovery V	entilating/	System
Heat Exchange Material		Water-Re	Water-Resistant Paper Sensible Heat Exchanger			Synthetic Resin Sensible Heat Exchanger			Se		ic Resin at Exchan	ger	Synthetic Resin Sensible Heat Exchanger			ger	
Surrounding Air Condition		Betwee		1 40°C, 80 ss	%RH or		not exce	ure and h ed the de ture 12°C			not exce	ure and h ed the de ture 12°C			not exce	ure and h ed the de ture 12°C	
Return (Suction) Air Condition	on		Up to 40°	C, 95%RH	1		Up to 40°	C, 95%RH	1		Up to 40°	C, 95%RH	1		Up to 40°	C, 95%RH	ł
Supply Fan Operation Unde Outdoor Temperature	r Low	6 min O	min FF5°C a	nittent ope ON, r less: Co r stopped.	ntinuous		oper less: Cor				oper less: Cor			-3°(-15°C or	oper less: Cor		
Electrical Power Supply								oped				ped				oped	
Electrical Power Supply		5		IV / 50Hz	Eng	E.c.		IV / 50Hz	5	5		V / 50Hz	Fan	Ena		V / 50Hz	Fan
Fan Speed		Fan Speed 4	Fan Speed 3	Fan Speed 2	Fan Speed 1	Fan Speed 4	Fan Speed 3	Fan Speed 2	Fan Speed 1	Fan Speed 4	Fan Speed 3	Fan Speed 2	Speed 1	Fan Speed 4	Fan Speed 3	Fan Speed 2	Speed 1
Input Power	(W)	80	35	18.5	8.5	106	44	23	11	155	71	37	19	275	104	49	21
Air Volume - Heat Recovery Mode	(m³/h)	230	165	120	65	250	175	125	75	320	224	160	96	500	350	250	150
Mode	(L/s)	64	46	33	18	69	49	35	21	89	62	44	27	139	97	69	42
External Static Pressure	(Pa)	164	84	44	13	150	74	38	14	150	74	38	14	200	98	50	18
Temperature Exchange Effic (%)	iency	82	84	85	86	85	87	88	90	85	87	88	90	85	87	89	92
Noise (dBA) (Measured at 1 under the centre of the unit anechoic chamber)		31	25	19	14	31	22	16	15>	35	26	19	15>	37	29	22	15>
Duct Size	(mm)		1	50			1:	22			1-	45			1	83	
Interlock Cable Included (CN2L)			Ν	10			Y	es			Ye	es			Ye	es	
Dimensions W x D x H	(mm)		850 x 7	20 x 320			595 x 3	56 x 565			658 x 4	32 x 623			725 x 5	56 x 632	
Weight	(kg)		з	31			2	26			З	2			З	39	

LGH Whole Home Range

Specifications: Fresh Air Home Ventilation

Туре		In-Ceiling Concealed Ducted								
Model		LGH-15RVX3-E		LGH-25	RVX3-E	LGH-35	iRVX3-E	LGH-50RVX3-E		
Ventilation Modes		Energy Recovery Mode, Bypass Ventilation Mode		Energy Recover Ventilation	y Mode, Bypass on Mode		y Mode, Bypass on Mode	Energy Recovery Mode, Bypass Ventilation Mode		
Heat Exchange System		Energy Recovery Ventilation System		Energy Recovery	Ventilation System	Energy Recovery	Ventilation System	Energy Recovery Ventilation System		
Heat Exchange Material		Specially Treated Paper Plate Heat Exchanger		Specially Treated Exch			Paper Plate Heat anger	Specially Treated Paper Plate Heat Exchanger		
Surrounding Air Condition		Between 0°C and 40°C, 80%RH or less		Between 0° 80%RH	C and 40°C, l or less		C and 40°C, l or less	Between 0°C and 40°C, 80%RH or less		
Return (Suction) Air Conditio	n	Up to 40°	C, 80%RH	Up to 40°	C, 80%RH	Up to 40°	C, 80%RH	Up to 40°C, 80%RH		
Supply Fan Operation Under Low Outdoor Temperature		-10°C to -15°C: Intermittent opperation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.					ON, 10 min OFF.	-10°C to -15°C: Intermittent opperation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.		
Electrical Power Supply		220-240V / 50Hz		220-240V / 50Hz		220-240	V / 50Hz	220-240V / 50Hz		
Fan Speed		Fan Speed: High	Fan Speed: Low	Fan Speed: High	Fan Speed: Low	Fan Speed: High	Fan Speed: Low	Fan Speed: High	Fan Speed: Low	
Input Power	(W)	55	10	75	11	120	15	185	15	
Air Volume - Heat	(m ³ /h)	150	38	250	63	350	88	500	125	
Recovery Mode	(L/s)	42	10	69	17	97	24	139	35	
External Static Pressure	(Pa)	120	8	120	8	160	10	150	10	
Temperature Exchange Effic	iency (%)	73.5	81.5	75.5	88.0	75.0	82.0	70.5	75.0	
Noise (dBA) (Measured at 1.5m under he centre of the unit in an anechoic chamber)		27.0	17.0	30.5	17.0	30.5	17.0	35.0	17.0	
Duct Size	(mm)	100		150		15	50	200		
Interlock Cable Included (CN2L)			Yes		Yes		es	Yes		
Dimensions W x D x H	(mm)	780 x 6 ⁻	10 x 289	780 x 735 x 289		888 x 8	74 x 331	888 x 1,016 x 331		
Weight	(kg)	20		2	2	3	0	33		

Note: Other models of the LGH Range are available (air volume from 38–2,000 m³/h).

Lossnay VL100 Single Room Range

Specifications: Single Room Ventilation

Туре		Wall Mounted	Single Room	In-Ceiling Single Room			
Model		VL-100	EU5-E	VL-100ZSKRT-E			
Ventilation Modes		Energy Reco	overy Mode	Energy Recovery Mode			
Heat Exchange System		Energy Recovery \	entilation System	Energy Recovery Ventilation System			
Heat Exchange Material		Specially Treated Paper	Plate Heat Exchanger	Specially Treated Paper Plate Heat Exchanger			
Surrounding Air Condition		Between -10°C and 4	0°C, 80%RH or less	Between -10°C and 40°C, 80%RH or less			
Return (Suction) Air Condition		Up to 40°C	C, 80%RH	Up to 40°C, 80%RH			
Electrical Power Supply		230V /	50Hz	230V / 50Hz			
Fan Speed	n Speed		Fan Speed: Low	Fan Speed: H	High Fan Speed: Low		
nput Power	(VV)	31	15	32	15		
Air Volume - Heat Recovery Mode	(m³/h)	105	60	78	42		
	(L/s)	29.1	16.6	21.7	11.7		
emperature Exchange Efficiency (%)*		73	80	49	62		
Noise (dBA) (Measured at 1.5m under the centranechoic chamber)	37	25	40	25.5			
Duct Size	-		100				
Dimensions W x D x H (mm)		620 x 200 x 265		Unit:	386 x 386 x 204		
Dimensions W x D x H (mm)		020 X 20	JU X 200	Grille: 455 x 455 x 9			
Veight	7.	5	6				
*In Heating Mode.							

Please note: When deciding on the best place to position the Lossnay Ventilation System, care needs to be taken to not have incoming air intake near or close to a wood burner flue.

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